

## ACCRUE

## CHARACTERS IN DETAIL

**Ear**

Number of rows	two
Density	medium
Length	short to medium
Shape	parallel

**Awn**

Length compared to ear	long
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**Rachis**

Length of first segment	short
Curvature of first segment	medium to strong

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	strongly coloured
Husk - presence after harvest	present
Spiculation of inner lateral nerves	v. weak to weak
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	strong
Lemma nerves - at early dough	medium
Awn tips	medium to strong

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	long
Lower leaf - hairiness of sheaths	present
Time of ear emergence	late to very late
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	medium
Ear - attitude 21 days after ear emerg.	erect to semi-erect

**ACUTE****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	medium
Length	medium to long
Shape	tapering

**Awn**

Length compared to ear	medium (+/- equal to ear)
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**Rachis**

Length of first segment	medium to long
Curvature of first segment	medium to strong

**Spikelet**

Sterile spikelet - attitude	divergent
Sterile spikelet - development	full
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish ("white")
Husk - presence after harvest	present
Spiculation of inner lateral nerves	weak (1-2 per nerve)
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping ("collar" type)

**Anthocyanin colouration**

Flag leaf - auricles	weak
Lemma nerves - at early dough	medium
Awn tips	weak

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	strong
Ear - glaucosity	medium to strong
Ear - attitude 21 days after ear emerg.	semi-erect

## AGENCY

## CHARACTERS IN DETAIL

## Ear

Number of rows	two
Density	medium
Length	medium to long
Shape	tapering

## Awn

Length compared to ear	medium
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## Rachis

Length of first segment	medium to long
Curvature of first segment	medium to strong

## Spikelet

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

## Grain

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	absent or v. weak
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

## Anthocyanin colouration

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

## Plant growth characters

Plant - growth habit	semi-prostrate
Plant - length	short
Lower leaf - hairiness of sheaths	absent
Time of ear emergence	early to medium
Flag leaf - glaucosity of sheath	medium
Ear - glaucosity	medium
Ear - attitude	erect to semi-erect

Variety Name: **Aleksandra**

Crop: Barley

Breeders Reference: BOLB17.4211

AFP No:

Breeder: Agrovista UK Ltd

Translated from: Polish

Origin:

Date: 06 April 2023

Code: ALEK

*Plant - growth habit:	Intermediate
*Lower leaves - hairiness of leaf sheaths:	Present
*Time of ear emergence:	Early to medium
*Flag leaf- anthocyanin colouration of auricles:	Absent or very weak
Frequency of plants with recurved flag leaves:	
Flag leaf- glaucosity of sheath:	Weak
*Ear- glaucosity:	Weak
Ear- attitude:	Semi-erect
Ear- length:	Short to medium
*Ear- number of rows:	Two
*Ear- density:	Lax
Ear- shape:	Tapering to parallel
*Awn- anthocyanin colouration of the tips:	Absent or very weak
*Awn- length compared to ear:	Medium
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	N/A
Sterile spikelet-shape of tip:	
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	Slightly longer
Lemma nerves- anthocyanin colouration:	
*Plant height:	
Collar type:	
Rachis- length of first segment:	Long
Rachis- width of first segment:	
Rachis- curvature of first segment:	Medium
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	
*Grain- rachilla hair type:	Long
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Absent or very weak
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	Absent or very weak
*Grain- ventral furrow - presence of hairs:	Absent
*Grain- husk:	Present
Grain- length of lodicules ("collar" type only):	
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Winter
Extra characters:	

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

19 April 2023

**AMARENA****CHARACTERS IN DETAIL****Ear**

Number of rows	more than two
Density	medium to dense
Length	medium to long
Shape	parallel

**Awn**

Length compared to ear	medium to long
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**Rachis**

Length of first segment	short
Curvature of first segment	weak

**Spikelet**

Sterile spikelet - attitude	
Sterile spikelet - development	
Median spikelet - length of glume+awn cf grain	longer

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	
Lemma nerves - at early dough	absent or very weak
Awn tips	

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	long
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	medium
Ear - attitude 21 days after ear emerg.	semi-erect to horizontal

Variety Name: **AMISTAR**

Crop: Winter barley

Breeders Reference: MH 05 AM 04

AFP No:

Breeder: SARL

Translated from: French

Origin:

Date: 27 March 2018

Code: AMIS

*Plant - growth habit:	Intermediate to semi prostrate
*Lower leaves - hairiness of leaf sheaths:	Present
*Time of ear emergence:	Early
*Flag leaf- anthocyanin colouration of auricles:	Medium to strong
Frequency of plants with recurved flag leaves:	Medium
Flag leaf- glaucosity of sheath:	Strong
*Ear- glaucosity:	Medium
Ear- attitude:	Erect to semi erect
Ear- length:	Medium to long
*Ear- number of rows:	more than two
*Ear- density:	Medium to dense
Ear- shape:	Parallel
*Awn- anthocyanin colouration of the tips:	Medium
*Awn- length compared to ear:	Medium to long
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	
Sterile spikelet-shape of tip:	
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	Equal
Lemma nerves- anthocyanin colouration:	
*Plant height:	Medium
Collar type:	
Rachis- length of first segment:	Short to medium
Rachis- width of first segment:	
Rachis- curvature of first segment:	Absent or very weak to weak
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Whitish
*Grain- rachilla hair type:	Long
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Strong
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	Medium to strong
*Grain- ventral furrow - presence of hairs:	Present
*Grain- husk:	Present
Grain- length of lodicules ("collar" type only):	
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Winter
Extra characters:	

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

28 March 2018

**ARCHER****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	lax to medium
Length	medium
Shape	tapering

**Awn**

Length compared to ear	medium (+/- equal to ear)
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**Rachis**

Length of first segment	long
Curvature of first segment	medium

**Spikelet**

Sterile spikelet - attitude	parallel to weakly divergent
Sterile spikelet - development	full
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	weakly coloured
Husk - presence after harvest	present
Spiculation of inner lateral nerves	weak (1-2 per nerve)
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping ("collar" type)

**Anthocyanin colouration**

Flag leaf - auricles	absent to very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent to very weak

**Plant growth characters**

Plant - growth habit	semi-prostrate to prostrate
Plant - length	medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	medium
Ear - attitude 21 days after ear emerg.	semi-erect

**BLAZING****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	medium
Length	long
Shape	

**Awn**

Length compared to ear	medium
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**Rachis**

Length of first segment	medium to long
Curvature of first segment	medium to strong

**Spikelet**

Sterile spikelet - attitude	divergent
Sterile spikelet - development	full
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong to v. strong
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	medium
Ear - glaucosity	weak to medium
Ear - attitude 21 days after ear emerg.	semi-erect



**BLUEBELL****CHARACTERS IN DETAIL****Ear**

Number of rows	more than two
Density	medium
Length	medium
Shape	parallel

**Awn**

Length compared to ear	medium to long
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**Rachis**

Length of first segment	medium
Curvature of first segment	weak

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	n/a
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	medium to strong
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	intermediate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	strong
Ear - glaucosity	weak to medium
Ear - attitude	semi-erect

**BOLIVIA****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	medium
Length	long
Shape	tapering

**Awn**

Length compared to ear	short to medium
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**Rachis**

Length of first segment	medium
Curvature of first segment	weak to medium

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	husked
Spiculation of inner lateral nerves	absent or v. weak
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	strong
Lemma nerves - at early dough	strong
Awn tips	medium to strong

**Plant growth characters**

Plant - growth habit	semi-prostrate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	absent
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	weak
Ear - attitude	semi-erect

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

Number of rows	two
Density	lax to medium
Length	medium
Shape	tapering

**Awn**

Length compared to ear	long
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**Rachis**

Length of first segment	medium
Curvature of first segment	strong

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	absent or v. weak
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	very short
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	medium
Ear - glaucosity	weak
Ear - attitude	semi-erect

Variety Name: **Bordeaux**

Crop: Winter Barley

Breeders Reference: NOS 911.016-53

AFP No:

Breeder: Nordis Seed A/S

Translated from: Danish

Origin:

Date: 04 May 2020

Code: BORD

*Plant - growth habit:	Intermediate
*Lower leaves - hairiness of leaf sheaths:	Present
*Time of ear emergence:	Medium
*Flag leaf- anthocyanin colouration of auricles:	Very strong
Frequency of plants with recurved flag leaves:	
Flag leaf- glaucosity of sheath:	Strong
*Ear- glaucosity:	Medium to strong
Ear- attitude:	Semi erect to horizontal
Ear- length:	Medium
*Ear- number of rows:	T
*Ear- density:	Two
Ear- shape:	Parallel
*Awn- anthocyanin colouration of the tips:	Strong
*Awn- length compared to ear:	Short to medium
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	NA
Sterile spikelet-shape of tip:	
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	Equal
Lemma nerves- anthocyanin colouration:	Strong
*Plant height:	Medium
Collar type:	
Rachis- length of first segment:	Medium
Rachis- width of first segment:	
Rachis- curvature of first segment:	Strong
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Whitish
*Grain- rachilla hair type:	Long
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Absent or very weak
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	Strong
*Grain- ventral furrow - presence of hairs:	Present
*Grain- husk:	Present
Grain- length of lodicules ("collar" type only):	
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Winter
Extra characters:	

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

06 May 2020

Variety Name: **Bulle**

Crop: Spring Barley

Breeders Reference: SY 414523

AFP No:

Breeder: Syngenta- France

Translated from: French

Origin:

Date: 23 March 2022

Code: BULLE

*Plant - growth habit:	Intermediate
*Lower leaves - hairiness of leaf sheaths:	Absent
*Time of ear emergence:	Medium
*Flag leaf- anthocyanin colouration of auricles:	Strong
Frequency of plants with recurved flag leaves:	
Flag leaf- glaucosity of sheath:	Medium to strong
*Ear- glaucosity:	Absent or very weak
Ear- attitude:	Horizontal to drooping
Ear- length:	
*Ear- number of rows:	Two
*Ear- density:	Medium
Ear- shape:	Parallel
*Awn- anthocyanin colouration of the tips:	Medium to strong
*Awn- length compared to ear:	Long
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	NA
Sterile spikelet-shape of tip:	NA
Sterile spikelet- length of lemma:	NA
Median spikelet- length of glume + awn cf grain:	Equal
Lemma nerves- anthocyanin colouration:	Medium to strong
*Plant height:	Medium
Collar type:	
Rachis- length of first segment:	Medium
Rachis- width of first segment:	
Rachis- curvature of first segment:	Weak to medium
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Whitish
*Grain- rachilla hair type:	Long
Grain- rachilla length:	Medium
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Absent or very weak
Grain- spiculation of outer lateral nerves:	Shallow
Grain- anthocyanin colouration of lemma nerves:	Medium to strong
*Grain- ventral furrow - presence of hairs:	Absent
*Grain- husk:	Present
Grain- length of lodicules ("collar" type only):	
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Spring type
Extra characters:	

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

04 May 2022

**CADILLAC****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	lax
Length	medium
Shape	tapering

**Awn**

Length compared to ear	medium (+/- equal to ear)
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**Rachis**

Length of first segment	medium to long
Curvature of first segment	medium to strong

**Spikelet**

Sterile spikelet - attitude	parallel
Sterile spikelet - development	full
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	strongly coloured ("blue")
Husk - presence after harvest	present
Spiculation of inner lateral nerves	weak (1-2 per nerve)
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping ("collar" type)

**Anthocyanin colouration**

Flag leaf - auricles	absent to very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	very weak to weak

**Plant growth characters**

Plant - growth habit	semi-prostrate
Plant - length	medium to long
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	medium
Ear - glaucosity	weak to medium
Ear - attitude 21 days after ear emerg.	semi-erect

**CALIFORNIA****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	medium
Length	medium to long
Shape	tapering

**Awn**

Length compared to ear	medium (+/- equal to ear)
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**Rachis**

Length of first segment	long
Curvature of first segment	medium

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary(deficiens)
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish ("white")
Husk - presence after harvest	present
Spiculation of inner lateral nerves	absent/v. weak (0-2 per nerve)
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping ("collar" type)

**Anthocyanin colouration**

Flag leaf - auricles	absent to very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent to very weak

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	absent
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	medium
Ear - attitude 21 days after ear emerg.	semi-erect

**CAMION****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	lax to medium
Length	long
Shape	tapering

**Awn**

Length compared to ear	+/- equal to longer
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**Rachis**

Length of first segment	medium
Curvature of first segment	medium to strong

**Spikelet**

Sterile spikelet - attitude	divergent
Sterile spikelet - development	
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish ("white")
Husk - presence after harvest	present
Spiculation of inner lateral nerves	weak to medium
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping ("collar" type)

**Anthocyanin colouration**

Flag leaf - auricles	weak
Lemma nerves - at early dough	weak
Awn tips	weak

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	very early to early
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	weak
Ear - attitude 21 days after ear emerg.	semi-erect to horizontal



# CAMPANILE

## CHARACTERS IN DETAIL

### Ear

Number of rows	two
Density	medium to dense
Length	medium to long
Shape	tapering

### Awn

Length compared to ear	short (shorter than ear)
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### Rachis

Length of first segment	medium to long
Curvature of first segment	medium to strong

### Spikelet

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary(deficiens)
Median spikelet - length of glume+awn cf grain	equal

### Grain

Kernel - colour of aleurone layer	whitish ("white")
Husk - presence after harvest	present
Spiculation of inner lateral nerves	medium to strong
Rachilla hair type	short
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping ("collar" type)

### Anthocyanin colouration

Flag leaf - auricles	absent to very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent to very weak

### Plant growth characters

Plant - growth habit	intermediate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	weak to medium
Ear - attitude 21 days after ear emerg.	horizontal to semi-recurved

**CARAT****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	lax to medium
Length	medium
Shape	tapering

**Awn**

Length compared to ear	long (longer than ear)
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**Rachis**

Length of first segment	short to medium
Curvature of first segment	medium

**Spikelet**

Sterile spikelet - attitude	divergent
Sterile spikelet - development	
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish ("white")
Husk - presence after harvest	present
Spiculation of inner lateral nerves	absent/v. weak (0-2 per nerve)
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping ("collar" type)

**Anthocyanin colouration**

Flag leaf - auricles	
Lemma nerves - at early dough	absent or very weak
Awn tips	

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	strong to very strong
Ear - glaucosity	weak to medium
Ear - attitude 21 days after ear emerg.	horizontal to semi-recurved

Variety Name: **CARIBIC**

Crop: Winter Barley

Breeders Reference: NIC 07-5440-C

AFP No:

Breeder: Limagrain GmbH

Translated from: German

Origin:

Date: 27 March 2018

Code: CARB

*Plant - growth habit:	Intermediate to semi prostrate
*Lower leaves - hairiness of leaf sheaths:	Absent
*Time of ear emergence:	Medium
*Flag leaf- anthocyanin colouration of auricles:	Absent or very weak
Frequency of plants with recurved flag leaves:	Low to medium
Flag leaf- glaucosity of sheath:	Medium
*Ear- glaucosity:	Very weak to weak
Ear- attitude:	Horizontal
Ear- length:	Short to medium
*Ear- number of rows:	Two
*Ear- density:	Lax
Ear- shape:	Tapering
*Awn- anthocyanin colouration of the tips:	Absent or very weak
*Awn- length compared to ear:	Short to medium
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	NA
Sterile spikelet-shape of tip:	NA
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn of grain:	Equal
Lemma nerves- anthocyanin colouration:	
*Plant height:	
Collar type:	
Rachis- length of first segment:	Medium
Rachis- width of first segment:	
Rachis- curvature of first segment:	Medium to strong
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Whitish
*Grain- rachilla hair type:	Long
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Weak
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	Absent or very weak
*Grain- ventral furrow - presence of hairs:	Present
*Grain- husk:	Present
Grain- length of lodicules ("collar" type only):	
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Winter
Extra characters:	

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

28 March 2018

**CASSATA****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	medium to dense
Length	medium
Shape	tapering

**Awn**

Length compared to ear	+/- equal to longer
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**Rachis**

Length of first segment	short to medium
Curvature of first segment	weak to medium

**Spikelet**

Sterile spikelet - attitude	parallel
Sterile spikelet - development	full
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish ("white")
Husk - presence after harvest	absent (grains thresh free)
Spiculation of inner lateral nerves	strong (5-10 per nerve)
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping ("collar" type)

**Anthocyanin colouration**

Flag leaf - auricles	weak to medium
Lemma nerves - at early dough	weak
Awn tips	medium to strong

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	medium
Ear - glaucosity	medium
Ear - attitude 21 days after ear emerg.	erect to semi-erect

## CAVALIER

## CHARACTERS IN DETAIL

## Ear

Number of rows	two
Density	lax
Length	medium
Shape	tapering

## Awn

Length compared to ear	medium (+/- equal to ear)
------------------------	---------------------------

## Rachis

Length of first segment	medium
Curvature of first segment	medium

## Spikelet

Sterile spikelet - attitude	parallel
Sterile spikelet - development	full
Median spikelet - length of glume+awn cf grain	equal

## Grain

Kernel - colour of aleurone layer	strongly coloured ("blue")
Husk - presence after harvest	present
Spiculation of inner lateral nerves	absent/v. weak (0-2 per nerve)
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping ("collar" type)

## Anthocyanin colouration

Flag leaf - auricles	medium to strong
Lemma nerves - at early dough	strong to very strong
Awn tips	strong to very strong

## Plant growth characters

Plant - growth habit	semi-prostrate
Plant - length	medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	early to medium
Flag leaf - glaucosity of sheath	medium
Ear - glaucosity	weak to medium
Ear - attitude 21 days after ear emerg.	semi-erect

**CELOONA****CHARACTERS IN DETAIL****Ear**

Number of rows	more than two
Density	dense
Length	short to medium
Shape	parallel

**Awn**

Length compared to ear	medium
------------------------	--------

**Rachis**

Length of first segment	short to medium
Curvature of first segment	weak

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	n/a
Median spikelet - length of glume+awn cf grain	longer

**Grain**

Kernel - colour of aleurone layer	weakly coloured
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong to v. strong
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	weak to medium
Lemma nerves - at early dough	weak
Awn tips	medium

**Plant growth characters**

Plant - growth habit	semi-prostrate
Plant - length	long
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	medium
Ear - attitude 21 days after ear emergence.	semi-erect

Variety Name: **CENTAURE**

Crop: Winter Barley

Breeders Reference:

AFP No:

Breeder: Secobra Recherches

Translated from:

Origin:

Date: 15 May 2018

Code: AURE

*Plant - growth habit:	Intermediate to semi prostrate
*Lower leaves - hairiness of leaf sheaths:	Present
*Time of ear emergence:	Medium
*Flag leaf- anthocyanin colouration of auricles:	
Frequency of plants with recurved flag leaves:	
Flag leaf- glaucosity of sheath:	Strong to very strong
*Ear- glaucosity:	Medium
Ear- attitude:	Semi erect to horizontal
Ear- length:	Medium
*Ear- number of rows:	Non or rudimentary
*Ear- density:	Dense
Ear- shape:	Tapering to parallel
*Awn- anthocyanin colouration of the tips:	Absent or very weak
*Awn- length compared to ear:	Long
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	NA
Sterile spikelet-shape of tip:	NA
Sterile spikelet- length of lemma:	NA
Median spikelet- length of glume + awn cf grain:	Equal
Lemma nerves- anthocyanin colouration:	
*Plant height:	Short to medium
Collar type:	
Rachis- length of first segment:	Short
Rachis- width of first segment:	
Rachis- curvature of first segment:	Medium
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Whitish
*Grain- rachilla hair type:	Long
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Weak to medium
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	
*Grain- ventral furrow - presence of hairs:	Present
*Grain- husk:	Present
Grain- length of lodicules ("collar" type only):	
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Winter
Extra characters:	

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

16 May 2018

**CHESTER****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	lax to medium
Length	medium to long
Shape	tapering

**Awn**

Length compared to ear	medium
------------------------	--------

**Rachis**

Length of first segment	medium to long
Curvature of first segment	medium

**Spikelet**

Sterile spikelet - attitude	divergent
Sterile spikelet - development	full
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	absent or v. weak
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	weak to medium
Lemma nerves - at early dough	absent or very weak
Awn tips	medium

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	short
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	strong
Ear - glaucosity	medium to strong
Ear - attitude	semi-erect to horizontal



**COREF****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	medium
Length	medium to long
Shape	tapering

**Awn**

Length compared to ear	short to medium
------------------------	-----------------

**Rachis**

Length of first segment	medium
Curvature of first segment	medium

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	longer

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	intermediate
Plant - length	short
Lower leaf - hairiness of sheaths	present
Time of ear emergence	late
Flag leaf - glaucosity of sheath	strong to very strong
Ear - glaucosity	medium to strong
Ear - attitude	semi-erect

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

Number of rows	two
Density	medium
Length	medium
Shape	tapering

**Awn**

Length compared to ear	medium
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**Rachis**

Length of first segment	medium
Curvature of first segment	strong

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	weak to medium
Lemma nerves - at early dough	strong
Awn tips	strong

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	short
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	medium
Ear - attitude 21 days after ear emerg.	semi-erect

**CYPRESS****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	medium
Length	medium
Shape	parallel

**Awn**

Length compared to ear	medium (+/- equal to ear)
------------------------	---------------------------

**Rachis**

Length of first segment	medium
Curvature of first segment	medium

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary(deficiens)
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish ("white")
Husk - presence after harvest	present
Spiculation of inner lateral nerves	weak (1-2 per nerve)
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping ("collar" type)

**Anthocyanin colouration**

Flag leaf - auricles	medium
Lemma nerves - at early dough	strong
Awn tips	strong

**Plant growth characters**

Plant - growth habit	semi-prostrate to prostrate
Plant - length	medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	medium
Ear - glaucosity	weak to medium
Ear - attitude 21 days after ear emerg.	semi-recurved

Variety Name: **Daxor**

Crop: Winter Barley

Breeders Reference:

AFP No:

Breeder: Sarl Adrien Momont et Fils

Translated from: French

Origin:

Date: 24 March 2015

Code: DAXO

*Plant - growth habit:	Intermediate to semi prostrate
*Lower leaves - hairiness of leaf sheaths:	Absent
*Time of ear emergence:	
*Flag leaf- anthocyanin colouration of auricles:	Absent or very weak
Frequency of plants with recurved flag leaves:	Low
Flag leaf- glaucosity of sheath:	Medium to strong
*Ear- glaucosity:	Medium to strong
Ear- attitude:	Semi- erect
Ear- length:	Medium
*Ear- number of rows:	More than two
*Ear- density:	Medium to dense
Ear- shape:	Parallel
*Awn- anthocyanin colouration of the tips:	
*Awn- length compared to ear:	Medium to long
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	
Sterile spikelet-shape of tip:	
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	Equal
Lemma nerves- anthocyanin colouration:	Absent to very weak
*Plant height:	
Collar type:	
Rachis- length of first segment:	Short to medium
Rachis- width of first segment:	
Rachis- curvature of first segment:	Weak
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Whitish
*Grain- rachilla hair type:	Long
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Strong
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	Absent or very weak
*Grain- ventral furrow - presence of hairs:	Present
*Grain- husk:	Present
Grain- length of lodicules ("collar" type only):	
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Winter
Extra characters:	

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

31 March 2015

Variety Name: **DOMINO**

Crop: Winter Barley

Breeders Reference: MH 07 DN 109

AFP No:

Breeder: SARL

Translated from: French

Origin:

Date: 04 April 2019

Code: DONO

*Plant - growth habit:	Semi-prostrate to prostrate
*Lower leaves - hairiness of leaf sheaths:	Present
*Time of ear emergence:	Early
*Flag leaf- anthocyanin colouration of auricles:	Weak to medium
Frequency of plants with recurved flag leaves:	Medium
Flag leaf- glaucosity of sheath:	Medium to strong
*Ear- glaucosity:	Weak to medium
Ear- attitude:	Semi - erect to horizontal
Ear- length:	Medium to long
*Ear- number of rows:	More than two
*Ear- density:	Medium
Ear- shape:	Parallel
*Awn- anthocyanin colouration of the tips:	Medium to strong
*Awn- length compared to ear:	Long
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	
Sterile spikelet-shape of tip:	
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	Equal
Lemma nerves- anthocyanin colouration:	
*Plant height:	Medium
Collar type:	
Rachis- length of first segment:	
Rachis- width of first segment:	
Rachis- curvature of first segment:	
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Whitish
*Grain- rachilla hair type:	Long
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Strong to very strong
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	Medium
*Grain- ventral furrow - presence of hairs:	Present
*Grain- husk:	Present
Grain- length of lodicules ("collar" type only):	
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Winter
Extra characters:	

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

11 April 2019

**ELECTRUM****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	medium
Length	medium
Shape	tapering

**Awn**

Length compared to ear	medium
------------------------	--------

**Rachis**

Length of first segment	medium
Curvature of first segment	medium to strong

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	weak
Lemma nerves - at early dough	weak to medium
Awn tips	weak to medium

**Plant growth characters**

Plant - growth habit	intermediate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	early to medium
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	medium
Ear - attitude	erect to semi-erect

**ELEMENT****CHARACTERS IN DETAIL****Ear**

Number of rows	more than two
Density	medium
Length	medium to long
Shape	parallel

**Awn**

Length compared to ear	medium
------------------------	--------

**Rachis**

Length of first segment	medium
Curvature of first segment	weak

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	n/a
Median spikelet - length of glume+awn cf grain	longer

**Grain**

Kernel - colour of aleurone layer	weakly coloured
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong to v. strong
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	very weak to weak
Lemma nerves - at early dough	weak to medium
Awn tips	very weak to weak

**Plant growth characters**

Plant - growth habit	semi-erect to intermediate
Plant - length	short
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	strong
Ear - glaucosity	medium to strong
Ear - attitude 21 days after ear emerg.	semi-erect to horizontal

**ESCADRE****CHARACTERS IN DETAIL****Ear**

Number of rows	six
Density	dense
Length	short
Shape	parallel

**Awn**

Length compared to ear	+/- equal to longer
------------------------	---------------------

**Rachis**

Length of first segment	short to medium
Curvature of first segment	very weak

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	n/a
Median spikelet - length of glume+awn cf grain	longer

**Grain**

Kernel - colour of aleurone layer	whitish ("white")
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong to v. strong
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping ("collar" type)

**Anthocyanin colouration**

Flag leaf - auricles	weak
Lemma nerves - at early dough	weak to medium
Awn tips	weak to medium

**Plant growth characters**

Plant - growth habit	intermediate
Plant - length	long
Lower leaf - hairiness of sheaths	present
Time of ear emergence	early
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	medium
Ear - attitude 21 days after ear emerg.	semi-erect to horizontal



**Variety Name: Estoria**

**Crop: Winter Barley**

**Breeders Reference:** SE 213/10 WG

**AFP No:** 2/

**Breeder:** Landwirtschaftliche Fachschule  
Edelhof - Saatzucht

**Translated from:** German

**Origin:** Austria

**Date:** 12 May 2017

**Code:** ESTO

*Plant - growth habit:	semi prostrate
*Lower leaves - hairiness of leaf sheaths:	present
*Time of ear emergence:	medium
*Flag leaf- anthocyanin colouration of auricles:	absent or very weak
Frequency of plants with recurved flag leaves:	
Flag leaf- glaucosity of sheath:	weak to medium
*Ear- glaucosity:	weak
Ear- attitude:	semi erect
Ear- length:	medium to long
*Ear- number of rows:	two
*Ear- density:	dense to very dense
Ear- shape:	tapering
*Awn- anthocyanin colouration of the tips:	absent or very weak
*Awn- length compared to ear:	medium to long
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	n/a
Sterile spikelet-shape of tip:	n/a
Sterile spikelet- length of lemma:	n/a
Median spikelet- length of glume + awn cf grain:	equal
Lemma nerves- anthocyanin colouration:	absent or very weak
*Plant height:	medium
Collar type:	
Rachis- length of first segment:	short
Rachis- width of first segment:	
Rachis- curvature of first segment:	weak
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	whitish
*Grain- rachilla hair type:	long
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	absent or very weak
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	
*Grain- ventral furrow - presence of hairs:	absent
*Grain- husk:	present
Grain- length of lodicules ("collar" type only):	
Grain- disposition of lodicules:	collar
*Seasonal type:	winter
Extra characters:	

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

28 March 2018

**FANION****CHARACTERS IN DETAIL****Ear**

Number of rows	more than two
Density	medium
Length	short to medium
Shape	parallel

**Awn**

Length compared to ear	medium to long
------------------------	----------------

**Rachis**

Length of first segment	medium
Curvature of first segment	medium

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	n/a
Median spikelet - length of glume+awn cf grain	longer

**Grain**

Kernel - colour of aleurone layer	strongly coloured
Husk - presence after harvest	present
Spiculation of inner lateral nerves	weak to medium
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	semi-erect to intermediate
Plant - length	short
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	strong to very strong
Ear - glaucosity	weak to medium
Ear - attitude	semi-erect

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

Number of rows	two
Density	lax to medium
Length	medium
Shape	parallel

**Awn**

Length compared to ear	medium to long
------------------------	----------------

**Rachis**

Length of first segment	medium
Curvature of first segment	medium to strong

**Spikelet**

Sterile spikelet - attitude	parallel
Sterile spikelet - development	full
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	medium to strong
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	weak to medium
Lemma nerves - at early dough	weak to medium
Awn tips	weak

**Plant growth characters**

Plant - growth habit	intermediate
Plant - length	short
Lower leaf - hairiness of sheaths	present
Time of ear emergence	early
Flag leaf - glaucosity of sheath	strong
Ear - glaucosity	medium to strong
Ear - attitude	semi-erect

**FENTARA****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	medium
Length	medium to long
Shape	tapering

**Awn**

Length compared to ear	medium (+/- equal to ear)
------------------------	---------------------------

**Rachis**

Length of first segment	medium to long
Curvature of first segment	weak

**Spikelet**

Sterile spikelet - attitude	divergent
Sterile spikelet - development	full
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish ("white")
Husk - presence after harvest	present
Spiculation of inner lateral nerves	weak (1-2 per nerve)
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping ("collar" type)

**Anthocyanin colouration**

Flag leaf - auricles	absent to very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent to very weak

**Plant growth characters**

Plant - growth habit	semi-prostrate
Plant - length	medium to long
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	medium
Ear - glaucosity	medium
Ear - attitude 21 days after ear emerg.	erect to semi-erect

Variety Name: **Findora**

Crop: Winter Barley

Breeders Reference:

AFP No: 2/2676

Breeder:

Translated from: German

Origin: Germany

Date: 09 April 2015

Code: FIND

*Plant - growth habit:	Intermediate
*Lower leaves - hairiness of leaf sheaths:	Present
*Time of ear emergence:	Early
*Flag leaf- anthocyanin colouration of auricles:	Absent or very week
Frequency of plants with recurved flag leaves:	Low
Flag leaf- glaucosity of sheath:	Medium
*Ear- glaucosity:	Medium
Ear- attitude:	Semi-erect to horizontal
Ear- length:	Medium
*Ear- number of rows:	Two
*Ear- density:	Dense
Ear- shape:	Tapering
*Awn- anthocyanin colouration of the tips:	Absent or very week
*Awn- length compared to ear:	Medium
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	N/A - non or rudimentary
Sterile spikelet-shape of tip:	
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	Equal
Lemma nerves- anthocyanin colouration:	Absent or very week
*Plant height:	Very short to short
Collar type:	
Rachis- length of first segment:	Short to medium
Rachis- width of first segment:	
Rachis- curvature of first segment:	Medium
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Whitish
*Grain- rachilla hair type:	Short
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Very week to week
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	Absent or very week
*Grain- ventral furrow - presence of hairs:	Absent
*Grain- husk:	Present
Grain- length of lodicules ("collar" type only):	
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Winter
Extra characters:	

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

09 April 2015

**FLAGON****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	lax to medium
Length	long
Shape	parallel

**Awn**

Length compared to ear	medium (+/- equal to ear)
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**Rachis**

Length of first segment	medium
Curvature of first segment	medium

**Spikelet**

Sterile spikelet - attitude	divergent
Sterile spikelet - development	
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish ("white")
Husk - presence after harvest	present
Spiculation of inner lateral nerves	weak (1-2 per nerve)
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping ("collar" type)

**Anthocyanin colouration**

Flag leaf - auricles	
Lemma nerves - at early dough	absent or very weak
Awn tips	absent to very weak

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	medium to long
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	medium
Ear - glaucosity	weak to medium
Ear - attitude 21 days after ear emerg.	horizontal to semi-recurved

**FLETCHER****CHARACTERS IN DETAIL****Ear**

Number of rows	more than two
Density	dense
Length	short to medium
Shape	parallel

**Awn**

Length compared to ear	medium to long
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**Rachis**

Length of first segment	short to medium
Curvature of first segment	weak

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	n/a
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong to v. strong
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	weak to medium
Lemma nerves - at early dough	weak
Awn tips	weak to medium

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	long
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	strong
Ear - glaucosity	medium to strong
Ear - attitude 21 days after ear emerg.	semi-erect

**FLORENTINE****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	lax
Length	medium to long
Shape	tapering

**Awn**

Length compared to ear	medium (+/- equal to ear)
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**Rachis**

Length of first segment	medium
Curvature of first segment	medium to strong

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary(deficiens)
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish ("white")
Husk - presence after harvest	present
Spiculation of inner lateral nerves	absent/v. weak (0-2 per nerve)
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping ("collar" type)

**Anthocyanin colouration**

Flag leaf - auricles	medium
Lemma nerves - at early dough	medium
Awn tips	medium

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	medium
Ear - glaucosity	weak
Ear - attitude 21 days after ear emerg.	semi-erect



**FUNKY****CHARACTERS IN DETAIL****Ear**

Number of rows	more than two
Density	dense
Length	short
Shape	parallel

**Awn**

Length compared to ear	long
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**Rachis**

Length of first segment	short
Curvature of first segment	medium to strong

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	n/a
Median spikelet - length of glume+awn cf grain	longer

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong to v. strong
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	short
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	strong
Ear - attitude 21 days after ear emerg.	semi-erect

## GALATION

## CHARACTERS IN DETAIL

**Ear**

Number of rows	more than two
Density	medium
Length	short to medium
Shape	parallel

**Awn**

Length compared to ear	medium
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**Rachis**

Length of first segment	short to medium
Curvature of first segment	weak

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	n/a
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	weakly coloured
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	weak to medium
Awn tips	weak

**Plant growth characters**

Plant - growth habit	semi-prostrate
Plant - length	medium to long
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	medium to strong
Ear - attitude 21 days after ear emerg.	erect to semi-erect

**HARLEQUIN****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	lax
Length	medium
Shape	tapering

**Awn**

Length compared to ear	shorter to +/- equal
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**Rachis**

Length of first segment	medium
Curvature of first segment	medium

**Spikelet**

Sterile spikelet - attitude	parallel
Sterile spikelet - development	full
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	strongly coloured ("blue")
Husk - presence after harvest	present
Spiculation of inner lateral nerves	v. weak to weak
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping ("collar" type)

**Anthocyanin colouration**

Flag leaf - auricles	absent to very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent to very weak

**Plant growth characters**

Plant - growth habit	semi-prostrate
Plant - length	medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	early to medium
Flag leaf - glaucosity of sheath	medium
Ear - glaucosity	weak to medium
Ear - attitude 21 days after ear emerg.	semi-erect to horizontal

**HIVERAC****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	lax to medium
Length	long
Shape	tapering

**Awn**

Length compared to ear	short
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**Rachis**

Length of first segment	medium to long
Curvature of first segment	medium

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	medium to strong
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	semi-erect to intermediate
Plant - length	short
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	medium
Ear - glaucosity	medium
Ear - attitude	erect to semi-erect

Variety Name: **Jakubus**

Crop: Winter Barley

Breeders Reference: NORD 12119/102

AFP No:

Breeder: Nordsaat Saatucht gMBh

Translated from: Polish

Origin:

Date: 04 May 2020

Code: JAKU

*Plant - growth habit:	Intermediate to semi prostrate
*Lower leaves - hairiness of leaf sheaths:	Present
*Time of ear emergence:	Medium to late
*Flag leaf- anthocyanin colouration of auricles:	Absent or very weak
Frequency of plants with recurved flag leaves:	
Flag leaf- glaucosity of sheath:	Strong
*Ear- glaucosity:	Medium
Ear- attitude:	Erect
Ear- length:	Short to medium
*Ear- number of rows:	More than two
*Ear- density:	Medium
Ear- shape:	Parallel
*Awn- anthocyanin colouration of the tips:	Absent or very weak
*Awn- length compared to ear:	Long
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	NA
Sterile spikelet-shape of tip:	NA
Sterile spikelet- length of lemma:	NA
Median spikelet- length of glume + awn cf grain:	Longer
Lemma nerves- anthocyanin colouration:	Absent or very weak
*Plant height:	Short to medium
Collar type:	
Rachis- length of first segment:	Medium
Rachis- width of first segment:	
Rachis- curvature of first segment:	Weak
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Weakly coloured
*Grain- rachilla hair type:	Long
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Strong
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	
*Grain- ventral furrow - presence of hairs:	Present
*Grain- husk:	Present
Grain- length of lodicules ("collar" type only):	
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Winter
Extra characters:	

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

06 May 2020

**JEANIE****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	lax to medium
Length	medium
Shape	tapering

**Awn**

Length compared to ear	medium to long
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**Rachis**

Length of first segment	medium
Curvature of first segment	medium to strong

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	strong
Lemma nerves - at early dough	strong to very strong
Awn tips	medium to strong

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	early to medium
Flag leaf - glaucosity of sheath	strong
Ear - glaucosity	medium to strong
Ear - attitude	semi-erect to horizontal

**JETTOO****CHARACTERS IN DETAIL****Ear**

Number of rows	more than two
Density	medium
Length	short to medium
Shape	parallel

**Awn**

Length compared to ear	long
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**Rachis**

Length of first segment	medium
Curvature of first segment	weak to medium

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	n/a
Median spikelet - length of glume+awn cf grain	longer

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong to v. strong
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	weak
Lemma nerves - at early dough	medium
Awn tips	medium

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	medium
Ear - attitude	semi-erect to horizontal

**JORDAN****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	very lax to lax
Length	medium to long
Shape	tapering

**Awn**

Length compared to ear	medium to long
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**Rachis**

Length of first segment	medium to long
Curvature of first segment	strong

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	weak to medium
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	weak to medium
Ear - glaucosity	weak to medium
Ear - attitude	semi-erect to horizontal



**KATHMANDU****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	lax
Length	medium to long
Shape	tapering

**Awn**

Length compared to ear	short
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**Rachis**

Length of first segment	medium to long
Curvature of first segment	strong

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong to v. strong
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	intermediate
Plant - length	short
Lower leaf - hairiness of sheaths	present
Time of ear emergence	early
Flag leaf - glaucosity of sheath	weak
Ear - glaucosity	weak to medium
Ear - attitude 21 days after ear emerg.	semi-erect to horizontal

Variety Name: **KWS Astaire**

Crop:

Breeders Reference:

AFP No: 2/2877

Breeder: KWS UK Ltd

Translated from: German

Origin:

Date: 23 March 2017

Code: KAST

*Plant - growth habit:	Intermediate to semi prostrate
*Lower leaves - hairiness of leaf sheaths:	Present
*Time of ear emergence:	Medium
*Flag leaf- anthocyanin colouration of auricles:	Absent or very weak
Frequency of plants with recurved flag leaves:	
Flag leaf- glaucosity of sheath:	Strong to very strong
*Ear- glaucosity:	Medium to strong
Ear- attitude:	Semi erect
Ear- length:	Medium
*Ear- number of rows:	More than two
*Ear- density:	Medium
Ear- shape:	Parallel
*Awn- anthocyanin colouration of the tips:	Absent or very weak
*Awn- length compared to ear:	Medium to long
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	
Sterile spikelet-shape of tip:	
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	Very long
Lemma nerves- anthocyanin colouration:	
*Plant height:	Medium
Collar type:	
Rachis- length of first segment:	Medium to long
Rachis- width of first segment:	
Rachis- curvature of first segment:	Medium to strong
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Strongly coloured
*Grain- rachilla hair type:	Long
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Medium
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	Absent or very weak
*Grain- ventral furrow - presence of hairs:	Absent
*Grain- husk:	Present
Grain- length of lodicules ("collar" type only):	
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Winter
Extra characters:	

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

28 March 2017

**KWS AVENIR****CHARACTERS IN DETAIL****Ear**

Number of rows	more than two
Density	medium
Length	short to medium
Shape	parallel

**Awn**

Length compared to ear	long
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**Rachis**

Length of first segment	medium
Curvature of first segment	medium

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	n/a
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong to v. strong
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	strong
Ear - glaucosity	strong
Ear - attitude	semi-erect

**KWS CAPELLA****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	very lax to lax
Length	short to medium
Shape	tapering

**Awn**

Length compared to ear	medium to long
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**Rachis**

Length of first segment	medium
Curvature of first segment	medium

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	v. weak to weak
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	very weak to weak

**Plant growth characters**

Plant - growth habit	semi-prostrate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	late
Flag leaf - glaucosity of sheath	medium
Ear - glaucosity	weak to medium
Ear - attitude 21 days after ear emerg.	semi-erect

**KWS CARBIS****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	lax
Length	medium
Shape	tapering

**Awn**

Length compared to ear	medium
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**Rachis**

Length of first segment	medium
Curvature of first segment	medium to strong

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	strongly coloured
Husk - presence after harvest	present
Spiculation of inner lateral nerves	absent or v. weak
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	very short to short
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	medium
Ear - glaucosity	weak
Ear - attitude 21 days after ear emerg.	semi-erect

**KWS CARIBOU****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	lax to medium
Length	medium
Shape	tapering

**Awn**

Length compared to ear	medium
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**Rachis**

Length of first segment	long
Curvature of first segment	strong

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	absent or v. weak
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	intermediate
Plant - length	short
Lower leaf - hairiness of sheaths	absent
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	weak to medium
Ear - attitude	semi-erect

Variety Name: **KWS Carneval**

Crop: Winter Barley

Breeders Reference: KWS B119

AFP No:

Breeder: KWS UK Ltd

Translated from: German

Origin:

Date: 23 March 2022

Code: KCAR

*Plant - growth habit:	Semi prostrate
*Lower leaves - hairiness of leaf sheaths:	Present
*Time of ear emergence:	Medium to late
*Flag leaf- anthocyanin colouration of auricles:	Absent or very weak
Frequency of plants with recurved flag leaves:	
Flag leaf- glaucosity of sheath:	Medium to strong
*Ear- glaucosity:	Medium
Ear- attitude:	Horizontal to semi recurved
Ear- length:	Long to very long
*Ear- number of rows:	Two
*Ear- density:	Medium
Ear- shape:	Tapering
*Awn- anthocyanin colouration of the tips:	Absent or very weak
*Awn- length compared to ear:	Medium
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	
Sterile spikelet-shape of tip:	NA
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	Equal
Lemma nerves- anthocyanin colouration:	Absent or very weak
*Plant height:	
Collar type:	
Rachis- length of first segment:	Medium to long
Rachis- width of first segment:	
Rachis- curvature of first segment:	Medium to strong
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Whitish
*Grain- rachilla hair type:	Long
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Absent or very weak
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	Absent or very weak
*Grain- ventral furrow - presence of hairs:	Absent
*Grain- husk:	Present
Grain- length of lodicules ("collar" type only):	
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Winter type
Extra characters:	

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

04 May 2022

**KWS CASSIA****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	lax
Length	medium
Shape	parallel

**Awn**

Length compared to ear	medium (+/- equal to ear)
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**Rachis**

Length of first segment	short
Curvature of first segment	weak to medium

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary(deficiens)
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	strongly coloured ("blue")
Husk - presence after harvest	present
Spiculation of inner lateral nerves	absent/v. weak (0-2 per nerve)
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping ("collar" type)

**Anthocyanin colouration**

Flag leaf - auricles	very weak to weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent to very weak

**Plant growth characters**

Plant - growth habit	semi-erect to intermediate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	weak to medium
Ear - attitude 21 days after ear emerg.	semi-erect to horizontal



**KWS CRESWELL****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	lax
Length	medium
Shape	tapering

**Awn**

Length compared to ear	long
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**Rachis**

Length of first segment	medium to long
Curvature of first segment	strong

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	weak to medium
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	short
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	medium
Ear - glaucosity	weak
Ear - attitude 21 days after ear emerg.	semi-erect

**KWS FARO****CHARACTERS IN DETAIL****Ear**

Number of rows	more than two
Density	medium to dense
Length	short to medium
Shape	parallel

**Awn**

Length compared to ear	medium
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**Rachis**

Length of first segment	medium
Curvature of first segment	weak

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	n/a
Median spikelet - length of glume+awn cf grain	shorter

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	medium to strong
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	weak
Lemma nerves - at early dough	very weak to weak
Awn tips	weak

**Plant growth characters**

Plant - growth habit	intermediate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	early to medium
Flag leaf - glaucosity of sheath	strong to very strong
Ear - glaucosity	weak
Ear - attitude	erect to semi-erect

**KWS FEERIS****CHARACTERS IN DETAIL****Ear**

Number of rows	more than two
Density	dense
Length	short to medium
Shape	parallel

**Awn**

Length compared to ear	medium to long
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**Rachis**

Length of first segment	short
Curvature of first segment	weak

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	n/a
Median spikelet - length of glume+awn cf grain	longer

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong to v. strong
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	medium
Lemma nerves - at early dough	weak
Awn tips	strong

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	strong to very strong
Ear - glaucosity	strong
Ear - attitude	erect to semi-erect

**KWS GIMLET****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	very lax to lax
Length	long to very long
Shape	tapering

**Awn**

Length compared to ear	short to medium
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**Rachis**

Length of first segment	long
Curvature of first segment	strong

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	v. weak to weak
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	intermediate
Plant - length	medium
Lower leaf - hairiness of sheaths	absent
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	weak to medium
Ear - attitude	horizontal

**KWS GLACIER****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	lax
Length	medium
Shape	tapering

**Awn**

Length compared to ear	medium (+/- equal to ear)
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**Rachis**

Length of first segment	medium
Curvature of first segment	medium

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary(deficiens)
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	strongly coloured ("blue")
Husk - presence after harvest	present
Spiculation of inner lateral nerves	absent/v. weak (0-2 per nerve)
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping ("collar" type)

**Anthocyanin colouration**

Flag leaf - auricles	absent to very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent to very weak

**Plant growth characters**

Plant - growth habit	intermediate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	medium
Ear - glaucosity	medium to strong
Ear - attitude 21 days after ear emerg.	erect to semi-erect

**KWS HAWKING****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	lax
Length	medium to long
Shape	tapering

**Awn**

Length compared to ear	medium
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**Rachis**

Length of first segment	medium to long
Curvature of first segment	medium to strong

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	v. weak to weak
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	absent
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	strong
Ear - glaucosity	weak to medium
Ear - attitude	semi-erect

**KWS INFINITY****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	very lax to lax
Length	short to medium
Shape	tapering

**Awn**

Length compared to ear	medium to long
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**Rachis**

Length of first segment	medium
Curvature of first segment	medium

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	v. weak to weak
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	very weak to weak

**Plant growth characters**

Plant - growth habit	semi-prostrate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	late
Flag leaf - glaucosity of sheath	medium
Ear - glaucosity	weak to medium
Ear - attitude 21 days after ear emerg.	semi-erect

**KWS JOY****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	lax
Length	medium
Shape	tapering

**Awn**

Length compared to ear	medium (+/- equal to ear)
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**Rachis**

Length of first segment	long
Curvature of first segment	strong

**Spikelet**

Sterile spikelet - attitude	parallel to weakly divergent
Sterile spikelet - development	full
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish ("white")
Husk - presence after harvest	present
Spiculation of inner lateral nerves	medium (3-5 per nerve)
Rachilla hair type	short
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping ("collar" type)

**Anthocyanin colouration**

Flag leaf - auricles	absent to very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent to very weak

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	short
Lower leaf - hairiness of sheaths	present
Time of ear emergence	late
Flag leaf - glaucosity of sheath	strong
Ear - glaucosity	medium
Ear - attitude 21 days after ear emerg.	semi-erect



**KWS JOYAU****CHARACTERS IN DETAIL****Ear**

Number of rows	more than two
Density	medium to dense
Length	short to medium
Shape	parallel

**Awn**

Length compared to ear	long to very long
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**Rachis**

Length of first segment	medium
Curvature of first segment	weak

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	n/a
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	weak
Lemma nerves - at early dough	weak
Awn tips	weak to medium

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	early to medium
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	medium
Ear - attitude	semi-erect to horizontal

**KWS MERIDIAN****CHARACTERS IN DETAIL****Ear**

Number of rows	six
Density	medium
Length	short to medium
Shape	parallel

**Awn**

Length compared to ear	medium (+/- equal to ear)
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**Rachis**

Length of first segment	medium
Curvature of first segment	strong

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	n/a
Median spikelet - length of glume+awn cf grain	longer

**Grain**

Kernel - colour of aleurone layer	whitish ("white")
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong to v. strong
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping ("collar" type)

**Anthocyanin colouration**

Flag leaf - auricles	absent to very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent to very weak

**Plant growth characters**

Plant - growth habit	semi-erect to intermediate
Plant - length	medium to long
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	strong
Ear - glaucosity	medium to strong
Ear - attitude 21 days after ear emerg.	semi-erect

**KWS MOSELLE****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	lax to medium
Length	medium to long
Shape	tapering

**Awn**

Length compared to ear	medium
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**Rachis**

Length of first segment	medium to long
Curvature of first segment	medium

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	absent or v. weak
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	intermediate
Plant - length	short
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	strong
Ear - glaucosity	weak to medium
Ear - attitude	semi-erect

**KWS OASIS****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	very lax
Length	long to very long
Shape	tapering

**Awn**

Length compared to ear	short
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**Rachis**

Length of first segment	medium
Curvature of first segment	medium to strong

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	strongly coloured
Husk - presence after harvest	present
Spiculation of inner lateral nerves	weak to medium
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	early to medium
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	very weak to weak
Ear - attitude	semi-erect

**KWS ORWELL****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	lax
Length	medium
Shape	tapering

**Awn**

Length compared to ear	medium
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**Rachis**

Length of first segment	long
Curvature of first segment	medium

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	absent or v. weak
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	intermediate
Plant - length	very short to short
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	weak
Ear - glaucosity	weak
Ear - attitude 21 days after ear emerg.	erect to semi-erect

**KWS PATRIOT****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	medium
Length	medium to long
Shape	tapering

**Awn**

Length compared to ear	short to medium
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**Rachis**

Length of first segment	medium
Curvature of first segment	medium to strong

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	v. weak to weak
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	very weak to weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	medium
Ear - attitude	erect to semi-erect

Variety Name: **KWS Rose**

Crop:

Breeders Reference:

AFP No: 2/2730

Breeder:

Translated from:

Origin:

Date: 24 March 2015

Code: B2730

*Plant - growth habit:	Intermediate to semi prostrate
*Lower leaves - hairiness of leaf sheaths:	Present
*Time of ear emergence:	Medium
*Flag leaf- anthocyanin colouration of auricles:	Very weak
Frequency of plants with recurved flag leaves:	
Flag leaf- glaucosity of sheath:	Strong
*Ear- glaucosity:	Strong
Ear- attitude:	Semi - recurved to recurved
Ear- length:	Medium
*Ear- number of rows:	Two
*Ear- density:	Lax
Ear- shape:	Parallel
*Awn- anthocyanin colouration of the tips:	Very weak
*Awn- length compared to ear:	Short to medium
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	Parallel to weakly divergent
Sterile spikelet-shape of tip:	
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	Equal
Lemma nerves- anthocyanin colouration:	
*Plant height:	Medium
Collar type:	
Rachis- length of first segment:	Medium to long
Rachis- width of first segment:	
Rachis- curvature of first segment:	Medium
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	
*Grain- rachilla hair type:	Long
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Very weak to weak
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	Absent or very weak
*Grain- ventral furrow - presence of hairs:	Absent
*Grain- husk:	Present
Grain- length of lodicules ("collar" type only):	
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Winter
Extra characters:	

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

20 May 2015

**KWS SALSA****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	medium
Length	medium
Shape	tapering

**Awn**

Length compared to ear	medium to long
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**Rachis**

Length of first segment	medium to long
Curvature of first segment	weak to medium

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	absent or v. weak
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	semi-erect to intermediate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	weak to medium
Ear - glaucosity	weak to medium
Ear - attitude 21 days after ear emerg.	semi-erect



**KWS SYNTHESIS****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	very sparse to sparse
Length	long
Shape	tapering

**Awn**

Length compared to ear	short
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**Rachis**

Length of first segment	medium to long
Curvature of first segment	medium

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	husked
Spiculation of inner lateral nerves	absent or v. weak
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	semi-prostrate
Plant - length	medium to long
Lower leaf - hairiness of sheaths	absent
Time of ear emergence	late
Flag leaf - glaucosity of sheath	medium
Ear - glaucosity	weak
Ear - attitude	semi-erect

**KWS TARDIS****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	lax to medium
Length	long
Shape	tapering

**Awn**

Length compared to ear	short to medium
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**Rachis**

Length of first segment	medium
Curvature of first segment	medium to strong

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong to v. strong
Rachilla hair type	short
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	short
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	strong
Ear - glaucosity	medium
Ear - attitude	semi-erect

**KWS TERRIER****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	lax
Length	long
Shape	tapering

**Awn**

Length compared to ear	short to medium
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**Rachis**

Length of first segment	medium
Curvature of first segment	strong

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	strongly coloured
Husk - presence after harvest	present
Spiculation of inner lateral nerves	v. weak to weak
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	short
Lower leaf - hairiness of sheaths	absent
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	very weak to weak
Ear - attitude	semi-erect

**KWS TONIC****CHARACTERS IN DETAIL****Ear**

Number of rows	more than two
Density	dense
Length	medium
Shape	parallel

**Awn**

Length compared to ear	medium
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**Rachis**

Length of first segment	short to medium
Curvature of first segment	very weak

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	n/a
Median spikelet - length of glume+awn cf grain	longer

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong to v. strong
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	very weak to weak
Lemma nerves - at early dough	weak to medium
Awn tips	medium

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	early to medium
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	medium to strong
Ear - attitude 21 days after ear emerg.	semi-erect

**KWS TOWER****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	lax
Length	medium to long
Shape	tapering

**Awn**

Length compared to ear	medium
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**Rachis**

Length of first segment	long
Curvature of first segment	strong

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	weak to medium
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	medium
Ear - glaucosity	weak
Ear - attitude 21 days after ear emerg.	erect to semi-erect

**LG CAMPUS****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	medium
Length	medium to long
Shape	tapering

**Awn**

Length compared to ear	short
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**Rachis**

Length of first segment	short to medium
Curvature of first segment	medium

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	husked
Spiculation of inner lateral nerves	v. weak to weak
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	semi-prostrate
Plant - length	medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	very weak to weak
Ear - attitude	semi-erect to horizontal

**LG CAPITOL****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	medium to dense
Length	medium to long
Shape	tapering

**Awn**

Length compared to ear	short to medium
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**Rachis**

Length of first segment	medium
Curvature of first segment	medium

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	husked
Spiculation of inner lateral nerves	v. weak to weak
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	medium
Ear - glaucosity	medium
Ear - attitude	semi-erect

**LG CARAVELLE****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	medium to dense
Length	short to medium
Shape	tapering

**Awn**

Length compared to ear	medium to long
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**Rachis**

Length of first segment	short to medium
Curvature of first segment	weak to medium

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	husked
Spiculation of inner lateral nerves	absent or v. weak
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	semi-prostrate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	absent
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	strong
Ear - glaucosity	medium to strong
Ear - attitude	semi-erect



Variety Name: **LG Caspari**

Crop: Winter Barley

Breeders Reference: 0-6677-c/---

AFP No:

Breeder: LIMAGRAIN GmbH

Translated from: French

Origin:

Date: 30 April 2020

Code: CASP

*Plant - growth habit:	Semi prostrate
*Lower leaves - hairiness of leaf sheaths:	Present
*Time of ear emergence:	Early
*Flag leaf- anthocyanin colouration of auricles:	Absent or very weak
Frequency of plants with recurved flag leaves:	Medium to high
Flag leaf- glaucosity of sheath:	Medium
*Ear- glaucosity:	Medium to strong
Ear- attitude:	Semi erect to horizontal
Ear- length:	Medium
*Ear- number of rows:	Two
*Ear- density:	Medium
Ear- shape:	Parallel
*Awn- anthocyanin colouration of the tips:	
*Awn- length compared to ear:	Medium to long
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	NA
Sterile spikelet-shape of tip:	
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	Equal
Lemma nerves- anthocyanin colouration:	Absent or very weak
*Plant height:	Long
Collar type:	
Rachis- length of first segment:	Short to medium
Rachis- width of first segment:	
Rachis- curvature of first segment:	Weak to medium
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Whitish
*Grain- rachilla hair type:	Long
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Weak
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	
*Grain- ventral furrow - presence of hairs:	Absent
*Grain- husk:	Present
Grain- length of lodicules ("collar" type only):	
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Alternative type
Extra characters:	

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

06 May 2020

Variety Name: **LG Casting**

Crop: Winter Barley

Breeders Reference: LGBU12-5432-c

AFP No:

Breeder: Limagrain Central EuropeSociete  
Europeene

Translated from:

Origin:

Date: 20 May 2020

Code: LCAST

*Plant - growth habit:	Intermediate
*Lower leaves - hairiness of leaf sheaths:	Absent
*Time of ear emergence:	Medium to late
*Flag leaf- anthocyanin colouration of auricles:	Absent or very weak
Frequency of plants with recurved flag leaves:	
Flag leaf- glaucosity of sheath:	Weak
*Ear- glaucosity:	Weak to medium
Ear- attitude:	Semi erect
Ear- length:	Medium to long
*Ear- number of rows:	Two
*Ear- density:	Medium
Ear- shape:	Tapering to parallel
*Awn- anthocyanin colouration of the tips:	Absent or very weak
*Awn- length compared to ear:	Medium
Awn- spiculation of margins:	Non or rudimentary
*Sterile spikelet-attitude:	NA
Sterile spikelet-shape of tip:	NA
Sterile spikelet- length of lemma:	NA
Median spikelet- length of glume + awn cf grain:	Slightly longer
Lemma nerves- anthocyanin colouration:	
*Plant height:	Short to medium
Collar type:	
Rachis- length of first segment:	Long
Rachis- width of first segment:	
Rachis- curvature of first segment:	
Rachis- shape of first segment:	Medium
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Whitish
*Grain- rachilla hair type:	Long
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Absent or very weak
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	Absent or very weak
*Grain- ventral furrow - presence of hairs:	Absent
*Grain- husk:	Present
Grain- length of lodicules ("collar" type only):	
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Winter
Extra characters:	

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

04 May 2022

**LG DAZZLE****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	lax
Length	long
Shape	tapering

**Awn**

Length compared to ear	short
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**Rachis**

Length of first segment	medium to long
Curvature of first segment	strong to very strong

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	strongly coloured
Husk - presence after harvest	present
Spiculation of inner lateral nerves	absent or v. weak
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	short
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	strong
Ear - glaucosity	medium
Ear - attitude	semi-erect to horizontal

**LG DRACULA****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	very lax to lax
Length	medium to long
Shape	tapering

**Awn**

Length compared to ear	medium
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**Rachis**

Length of first segment	long
Curvature of first segment	strong

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	weak
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	short
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	weak
Ear - attitude	horizontal to semi-recurved

**LG FLYNN****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	lax
Length	medium to long
Shape	tapering

**Awn**

Length compared to ear	short to medium
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**Rachis**

Length of first segment	medium to long
Curvature of first segment	medium to strong

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	medium
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	medium to strong
Lemma nerves - at early dough	medium to strong
Awn tips	strong

**Plant growth characters**

Plant - growth habit	intermediate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	weak to medium
Ear - attitude	semi-erect

**LG GLOBETROTTER****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	lax
Length	long
Shape	tapering

**Awn**

Length compared to ear	short
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**Rachis**

Length of first segment	medium
Curvature of first segment	weak to medium

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	strongly coloured
Husk - presence after harvest	present
Spiculation of inner lateral nerves	absent or v. weak
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	weak to medium
Ear - glaucosity	weak to medium
Ear - attitude	erect to semi-erect

**LG INVENTOR****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	lax to medium
Length	medium
Shape	tapering

**Awn**

Length compared to ear	medium
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**Rachis**

Length of first segment	medium to long
Curvature of first segment	medium to strong

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	absent or v. weak
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	intermediate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	absent
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	medium
Ear - attitude	erect to semi-erect

**LG MOUNTAIN****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	medium
Length	medium to long
Shape	tapering

**Awn**

Length compared to ear	short to medium
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**Rachis**

Length of first segment	medium
Curvature of first segment	medium to strong

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	strongly coloured
Husk - presence after harvest	present
Spiculation of inner lateral nerves	v. weak to weak
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	semi-erect to intermediate
Plant - length	short
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	medium
Ear - attitude	erect to semi-erect



**LG PRODIGY****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	very lax to lax
Length	long to very long
Shape	tapering

**Awn**

Length compared to ear	short
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**Rachis**

Length of first segment	long
Curvature of first segment	strong

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	strongly coloured
Husk - presence after harvest	present
Spiculation of inner lateral nerves	weak
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	medium
Ear - glaucosity	medium
Ear - attitude	semi-erect to horizontal

**LG RAPTURE****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	medium
Length	medium
Shape	tapering

**Awn**

Length compared to ear	medium
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**Rachis**

Length of first segment	medium
Curvature of first segment	medium

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	strongly coloured
Husk - presence after harvest	present
Spiculation of inner lateral nerves	absent or v. weak
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	very short to short
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	medium
Ear - glaucosity	weak to medium
Ear - attitude 21 days after ear emerg.	semi-erect

**LIBRA****CHARACTERS IN DETAIL****Ear**

Number of rows	more than two
Density	medium
Length	short to medium
Shape	parallel

**Awn**

Length compared to ear	medium
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**Rachis**

Length of first segment	medium
Curvature of first segment	weak to medium

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	n/a
Median spikelet - length of glume+awn cf grain	50% equal:50% longer (segregation)

**Grain**

Kernel - colour of aleurone layer	50% coloured:50% whitish (segregation)
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	medium
Lemma nerves - at early dough	weak to medium
Awn tips	medium

**Plant growth characters**

Plant - growth habit	semi-erect to intermediate
Plant - length	medium to long
Lower leaf - hairiness of sheaths	present
Time of ear emergence	early to medium
Flag leaf - glaucosity of sheath	strong
Ear - glaucosity	medium
Ear - attitude	semi-erect to horizontal

**LIGHTNING****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	very lax to lax
Length	long
Shape	tapering

**Awn**

Length compared to ear	short
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**Rachis**

Length of first segment	medium
Curvature of first segment	strong

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	v. weak to weak
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	medium
Ear - glaucosity	weak to medium
Ear - attitude	semi-erect to horizontal

Variety Name: **Lucienne**

Crop:

Breeders Reference:

AFP No: 2/2885

Breeder: LS Plant Breeding Ltd

Translated from: German

Origin:

Date: 23 March 2017

Code: LUCI

*Plant - growth habit:	Semi prostrate
*Lower leaves - hairiness of leaf sheaths:	Present
*Time of ear emergence:	Medium
*Flag leaf- anthocyanin colouration of auricles:	Medium
Frequency of plants with recurved flag leaves:	
Flag leaf- glaucosity of sheath:	Strong
*Ear- glaucosity:	Absent or very weak
Ear- attitude:	Semi erect to horizontal
Ear- length:	Short
*Ear- number of rows:	More than two
*Ear- density:	Medium
Ear- shape:	Parallel
*Awn- anthocyanin colouration of the tips:	Medium to strong
*Awn- length compared to ear:	Long
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	
Sterile spikelet-shape of tip:	
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	
Lemma nerves- anthocyanin colouration:	
*Plant height:	Long to very long
Collar type:	
Rachis- length of first segment:	Medium to long
Rachis- width of first segment:	
Rachis- curvature of first segment:	Weak to medium
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Weakly coloured
*Grain- rachilla hair type:	Long
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Weak to medium
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	
*Grain- ventral furrow - presence of hairs:	Present
*Grain- husk:	Present
Grain- length of lodicules ("collar" type only):	
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Winter
Extra characters:	

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

16 May 2018

**MACKIE****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	lax to medium
Length	medium
Shape	tapering

**Awn**

Length compared to ear	medium
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**Rachis**

Length of first segment	medium to long
Curvature of first segment	strong

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	weak to medium
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	intermediate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	weak
Ear - attitude	erect to semi-erect

**MALTESSE****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	medium
Length	medium
Shape	tapering

**Awn**

Length compared to ear	medium
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**Rachis**

Length of first segment	medium to long
Curvature of first segment	strong

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	weakly coloured
Husk - presence after harvest	present
Spiculation of inner lateral nerves	absent or v. weak
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	very short to short
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	medium
Ear - glaucosity	medium
Ear - attitude 21 days after ear emerg.	semi-erect

**MARIS OTTER****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	medium
Length	medium to long
Shape	parallel

**Awn**

Length compared to ear	long (longer than ear)
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**Rachis**

Length of first segment	medium to long
Curvature of first segment	weak to medium

**Spikelet**

Sterile spikelet - attitude	divergent
Sterile spikelet - development	
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish ("white")
Husk - presence after harvest	present
Spiculation of inner lateral nerves	absent/v. weak (0-2 per nerve)
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping ("collar" type)

**Anthocyanin colouration**

Flag leaf - auricles	strong
Lemma nerves - at early dough	medium
Awn tips	medium

**Plant growth characters**

Plant - growth habit	semi-prostrate to prostrate
Plant - length	short
Lower leaf - hairiness of sheaths	present
Time of ear emergence	late to very late
Flag leaf - glaucosity of sheath	medium
Ear - glaucosity	medium
Ear - attitude 21 days after ear emerg.	horizontal



**MATROS****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	lax to medium
Length	medium to long
Shape	parallel

**Awn**

Length compared to ear	medium (+/- equal to ear)
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**Rachis**

Length of first segment	short to medium
Curvature of first segment	medium

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary(deficiens)
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish ("white")
Husk - presence after harvest	present
Spiculation of inner lateral nerves	absent/v. weak (0-2 per nerve)
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping ("collar" type)

**Anthocyanin colouration**

Flag leaf - auricles	very strong
Lemma nerves - at early dough	strong to very strong
Awn tips	strong to very strong

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	strong
Ear - attitude 21 days after ear emerg.	semi-recurved to recurved

**MEGANE****CHARACTERS IN DETAIL****Ear**

Number of rows	more than two
Density	medium to dense
Length	medium
Shape	parallel

**Awn**

Length compared to ear	medium to long
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**Rachis**

Length of first segment	medium
Curvature of first segment	very weak

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	n/a
Median spikelet - length of glume+awn cf grain	longer

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong to v. strong
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	intermediate
Plant - length	medium to long
Lower leaf - hairiness of sheaths	present
Time of ear emergence	early
Flag leaf - glaucosity of sheath	strong
Ear - glaucosity	medium to strong
Ear - attitude 21 days after ear emerg.	horizontal

Variety Name: **Memento**

Crop: Winter Barley

Breeders Reference: SC 16666 OH

AFP No:

Breeder: Secobra Recherches

Translated from: French

Origin:

Date: 04 April 2019

Code: Meme

*Plant - growth habit:	Intermediate
*Lower leaves - hairiness of leaf sheaths:	
*Time of ear emergence:	Early to medium
*Flag leaf- anthocyanin colouration of auricles:	Absent or very weak
Frequency of plants with recurved flag leaves:	
Flag leaf- glaucosity of sheath:	
*Ear- glaucosity:	Medium to strong
Ear- attitude:	Horizontal
Ear- length:	Medium
*Ear- number of rows:	Two
*Ear- density:	Dense
Ear- shape:	Parallel
*Awn- anthocyanin colouration of the tips:	Absent or very weak
*Awn- length compared to ear:	Long
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	NA
Sterile spikelet-shape of tip:	
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	
Lemma nerves- anthocyanin colouration:	Absent or very weak
*Plant height:	Medium
Collar type:	
Rachis- length of first segment:	Medium
Rachis- width of first segment:	
Rachis- curvature of first segment:	Weak to medium
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Strongly coloured
*Grain- rachilla hair type:	Long
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Weak to medium
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	Absent or very weak
*Grain- ventral furrow - presence of hairs:	Present
*Grain- husk:	Present
Grain- length of lodicules ("collar" type only):	
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Winter
Extra characters:	

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

11 April 2019

**MEZMAAR****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	medium
Length	short to medium
Shape	tapering

**Awn**

Length compared to ear	medium (+/- equal to ear)
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**Rachis**

Length of first segment	medium
Curvature of first segment	medium

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary(deficiens)
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish ("white")
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong (5-10 per nerve)
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping ("collar" type)

**Anthocyanin colouration**

Flag leaf - auricles	absent to very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent to very weak

**Plant growth characters**

Plant - growth habit	intermediate
Plant - length	medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	medium
Ear - attitude 21 days after ear emerg.	erect to semi-erect

Variety Name: **Newton**

Crop: Winter Barley

Breeders Reference: sc21529ph

AFP No:

Breeder: GEVES, France

Translated from:

Origin:

Date: 05 May 2020

Code: NEWT

*Plant - growth habit:	Semi prostrate
*Lower leaves - hairiness of leaf sheaths:	Present
*Time of ear emergence:	Early to medium
*Flag leaf- anthocyanin colouration of auricles:	Strong to very strong
Frequency of plants with recurved flag leaves:	
Flag leaf- glaucosity of sheath:	Medium
*Ear- glaucosity:	Weak to medium
Ear- attitude:	Horizontal
Ear- length:	Medium
*Ear- number of rows:	Two
*Ear- density:	Lax to medium
Ear- shape:	Parallel
*Awn- anthocyanin colouration of the tips:	Medium
*Awn- length compared to ear:	Medium to long
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	NA
Sterile spikelet-shape of tip:	
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	Equal
Lemma nerves- anthocyanin colouration:	Strong to very strong
*Plant height:	Medium
Collar type:	
Rachis- length of first segment:	Short to medium
Rachis- width of first segment:	
Rachis- curvature of first segment:	Weak to medium
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Whitish
*Grain- rachilla hair type:	Long
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Absent or very weak
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	Strong to very strong
*Grain- ventral furrow - presence of hairs:	Absent
*Grain- husk:	Present
Grain- length of lodicules ("collar" type only):	
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Winter
Extra characters:	

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

06 May 2020

## NORMANDY

## CHARACTERS IN DETAIL

**Ear**

Number of rows	two
Density	lax
Length	medium
Shape	tapering

**Awn**

Length compared to ear	medium to long
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**Rachis**

Length of first segment	medium to long
Curvature of first segment	strong

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	absent or v. weak
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	short
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	strong
Ear - glaucosity	weak to medium
Ear - attitude	erect to semi-erect

**PEARL****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	medium
Length	medium to long
Shape	tapering

**Awn**

Length compared to ear	long (longer than ear)
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**Rachis**

Length of first segment	medium
Curvature of first segment	medium

**Spikelet**

Sterile spikelet - attitude	divergent
Sterile spikelet - development	
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	strongly coloured ("blue")
Husk - presence after harvest	present
Spiculation of inner lateral nerves	medium (3-5 per nerve)
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping ("collar" type)

**Anthocyanin colouration**

Flag leaf - auricles	medium to strong
Lemma nerves - at early dough	very weak to weak
Awn tips	weak to medium

**Plant growth characters**

Plant - growth habit	intermediate
Plant - length	medium to long
Lower leaf - hairiness of sheaths	present
Time of ear emergence	late
Flag leaf - glaucosity of sheath	strong to very strong
Ear - glaucosity	strong
Ear - attitude 21 days after ear emerg.	semi-erect to horizontal

**PELICAN****CHARACTERS IN DETAIL****Ear**

Number of rows	more than two
Density	dense
Length	medium to long
Shape	

**Awn**

Length compared to ear	medium to long
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**Rachis**

Length of first segment	medium
Curvature of first segment	weak to medium

**Spikelet**

Sterile spikelet - attitude	
Sterile spikelet - development	
Median spikelet - length of glume+awn cf grain	longer

**Grain**

Kernel - colour of aleurone layer	weakly coloured
Husk - presence after harvest	present
Spiculation of inner lateral nerves	medium
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	weak
Awn tips	very weak to weak

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	long
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	medium
Ear - attitude 21 days after ear emerg.	erect to semi-erect



**PERSEUS****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	lax
Length	short to medium
Shape	tapering

**Awn**

Length compared to ear	medium
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**Rachis**

Length of first segment	medium
Curvature of first segment	medium to strong

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	strongly coloured
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong to v. strong
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	strong
Lemma nerves - at early dough	strong to very strong
Awn tips	strong

**Plant growth characters**

Plant - growth habit	semi-prostrate
Plant - length	short
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	medium
Ear - glaucosity	medium to strong
Ear - attitude 21 days after ear emerg.	semi-erect

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

Number of rows	two
Density	medium
Length	medium
Shape	tapering

**Awn**

Length compared to ear	medium
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**Rachis**

Length of first segment	short to medium
Curvature of first segment	strong

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	absent or v. weak
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	very short to short
Lower leaf - hairiness of sheaths	present
Time of ear emergence	late
Flag leaf - glaucosity of sheath	strong
Ear - glaucosity	strong
Ear - attitude	semi-erect

**PURDEY****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	lax
Length	medium to long
Shape	parallel

**Awn**

Length compared to ear	shorter to +/- equal
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**Rachis**

Length of first segment	medium
Curvature of first segment	medium

**Spikelet**

Sterile spikelet - attitude	parallel to weakly divergent
Sterile spikelet - development	full
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	weakly coloured
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong (5-10 per nerve)
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping ("collar" type)

**Anthocyanin colouration**

Flag leaf - auricles	absent to very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent to very weak

**Plant growth characters**

Plant - growth habit	semi-prostrate to prostrate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	strong
Ear - glaucosity	weak
Ear - attitude 21 days after ear emerg.	semi-erect to horizontal

**QUADRIGA****CHARACTERS IN DETAIL****Ear**

Number of rows	more than two
Density	dense
Length	short to medium
Shape	parallel

**Awn**

Length compared to ear	long
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**Rachis**

Length of first segment	medium
Curvature of first segment	medium

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	weak

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	long
Lower leaf - hairiness of sheaths	present
Time of ear emergence	late
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	medium to strong
Ear - attitude 21 days after ear emerg.	semi-erect

**Variety Name: Rafaela**

**Crop: Winter Barley**

**Breeders Reference: LIMA1351**

**AFP No:**

**Breeder: Limagrain Europe S.A**

**Translated from: Belgian**

**Origin:**

**Date: 19 November 2018**

**Code: B1005**

<b>*Plant - growth habit:</b>	Intermediate
<b>*Lower leaves - hairiness of leaf sheaths:</b>	Present
<b>*Time of ear emergence:</b>	Early to medium
<b>*Flag leaf- anthocyanin colouration of auricles:</b>	Medium
<b>Frequency of plants with recurved flag leaves:</b>	Low to medium
<b>Flag leaf- glaucosity of sheath:</b>	Medium to strong
<b>*Ear- glaucosity:</b>	Absent or very weak
<b>Ear- attitude:</b>	Horizontal
<b>Ear- length:</b>	Medium to long
<b>*Ear- number of rows:</b>	More than two
<b>*Ear- density:</b>	Lax to medium
<b>Ear- shape:</b>	Parallel
<b>*Awn- anthocyanin colouration of the tips:</b>	Medium
<b>*Awn- length compared to ear:</b>	Longer
<b>Awn- spiculation of margins:</b>	
<b>*Sterile spikelet-attitude:</b>	NA
<b>Sterile spikelet-shape of tip:</b>	NA
<b>Sterile spikelet- length of lemma:</b>	NA
<b>Median spikelet- length of glume + awn cf grain:</b>	Longer
<b>Lemma nerves- anthocyanin colouration:</b>	Medium
<b>*Plant height:</b>	Medium to long
<b>Collar type:</b>	
<b>Rachis- length of first segment:</b>	Medium
<b>Rachis- width of first segment:</b>	
<b>Rachis- curvature of first segment:</b>	Weak to medium
<b>Rachis- shape of first segment:</b>	
<b>Rachis(2-row)- humping of segments (mid third):</b>	
<b>Rachis(6-row)- degree of zig-zag (mid third):</b>	
<b>Kernel- colour of aleurone layer:</b>	Whitish
<b>*Grain- rachilla hair type:</b>	Long
<b>Grain- rachilla length:</b>	
<b>Grain- rachilla - length of tip hairs:</b>	
<b>Grain- spiculation of inner lateral nerves:</b>	Medium to strong
<b>Grain- spiculation of outer lateral nerves:</b>	
<b>Grain- anthocyanin colouration of lemma nerves:</b>	Medium
<b>*Grain- ventral furrow - presence of hairs:</b>	Absent
<b>*Grain- husk:</b>	Present
<b>Grain- length of lodicules ("collar" type only):</b>	
<b>Grain- disposition of lodicules:</b>	Clasping
<b>*Seasonal type:</b>	Alternative
<b>Extra characters:</b>	

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

19 March 2019

**RESOLUTE****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	sparse to medium
Length	medium
Shape	tapering

**Awn**

Length compared to ear	medium
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**Rachis**

Length of first segment	long
Curvature of first segment	weak to medium

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	husked
Spiculation of inner lateral nerves	absent or v. weak
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	semi-prostrate
Plant - length	medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	weak to medium
Ear - glaucosity	weak
Ear - attitude	erect to semi-erect

**RETRIEVER****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	lax
Length	medium
Shape	tapering

**Awn**

Length compared to ear	medium (+/- equal to ear)
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**Rachis**

Length of first segment	medium
Curvature of first segment	medium

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary(deficiens)
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish ("white")
Husk - presence after harvest	present
Spiculation of inner lateral nerves	medium to strong
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping ("collar" type)

**Anthocyanin colouration**

Flag leaf - auricles	medium
Lemma nerves - at early dough	strong
Awn tips	strong

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	short
Lower leaf - hairiness of sheaths	present
Time of ear emergence	early
Flag leaf - glaucosity of sheath	medium
Ear - glaucosity	weak to medium
Ear - attitude 21 days after ear emerg.	semi-erect

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

Number of rows	two
Density	lax to medium
Length	long
Shape	tapering

**Awn**

Length compared to ear	short
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**Rachis**

Length of first segment	medium
Curvature of first segment	medium

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	v. weak to weak
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	very short to short
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	medium
Ear - attitude	semi-erect



Variety Name: **Rubinesse**

Crop: Winter Barley

Breeders Reference: SC 82909 NH

AFP No:

Breeder: Secobra Recherches S A

Translated from: German

Origin:

Date: 28 March 2017

Code: RUBI

*Plant - growth habit:	Intermediate
*Lower leaves - hairiness of leaf sheaths:	Present
*Time of ear emergence:	Late
*Flag leaf- anthocyanin colouration of auricles:	Strong to very strong
Frequency of plants with recurved flag leaves:	
Flag leaf- glaucosity of sheath:	Medium to strong
*Ear- glaucosity:	Strong
Ear- attitude:	Semi erect to horizontal
Ear- length:	Medium
*Ear- number of rows:	Two
*Ear- density:	Medium to dense
Ear- shape:	Tapering to parallel
*Awn- anthocyanin colouration of the tips:	Very strong
*Awn- length compared to ear:	Short to medium
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	Divergent
Sterile spikelet-shape of tip:	
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	Equal
Lemma nerves- anthocyanin colouration:	
*Plant height:	Short
Collar type:	
Rachis- length of first segment:	Short to medium
Rachis- width of first segment:	
Rachis- curvature of first segment:	Medium
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Whitish
*Grain- rachilla hair type:	Long
Grain- rachilla length:	`
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Weak to medium
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	Strong
*Grain- ventral furrow - presence of hairs:	Present
*Grain- husk:	Present
Grain- length of lodicules ("collar" type only):	
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Winter
Extra characters:	

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

28 March 2017

Variety Name: **Sabine F**

Crop: Winter Barley

Breeders Reference:

AFP No: 2/2231

Breeder: Saatzucht Filbeck

Translated from: German

Origin:

Date: 29 November 2007

Code: SABI

*Plant - growth habit:	intermediate
*Lower leaves - hairiness of leaf sheaths:	present
*Time of ear emergence:	late
*Flag leaf- anthocyanin colouration of auricles:	absent or very weak
Frequency of plants with recurved flag leaves:	high to very high
Flag leaf- glaucosity of sheath:	strong
*Ear- glaucosity:	weak to medium
Ear- attitude:	semi-erect to horizontal
Ear- length:	medium to long
*Ear- number of rows:	two
*Ear- density:	medium to dense
Ear- shape:	parallel
*Awn- anthocyanin colouration of the tips:	absent or very weak
*Awn- length compared to ear:	short to medium (shorter to +/- equal to ear)
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	parallel
Sterile spikelet-shape of tip:	
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	equal
Lemma nerves- anthocyanin colouration:	
*Plant height:	medium
Collar type:	
Rachis- length of first segment:	long to very long
Rachis- width of first segment:	
Rachis- curvature of first segment:	weak to medium
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	whitish ("white")
*Grain- rachilla hair type:	long
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	weak (1-2 per nerve)
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	absent or very weak
*Grain- ventral furrow - presence of hairs:	absent
*Grain- husk:	present
Grain- length of lodicules ("collar" type only):	
Grain- disposition of lodicules:	clasping ("collar" type)
*Seasonal type:	winter
Extra characters:	

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

31 March 2015

**SAFFRON****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	medium
Length	medium
Shape	parallel

**Awn**

Length compared to ear	medium (+/- equal to ear)
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**Rachis**

Length of first segment	short to medium
Curvature of first segment	medium

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary(deficiens)
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	strongly coloured ("blue")
Husk - presence after harvest	present
Spiculation of inner lateral nerves	weak to medium
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping ("collar" type)

**Anthocyanin colouration**

Flag leaf - auricles	
Lemma nerves - at early dough	absent or very weak
Awn tips	

**Plant growth characters**

Plant - growth habit	intermediate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	absent or very weak
Ear - attitude 21 days after ear emerg.	semi-erect to horizontal

**SALLING****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	lax
Length	medium
Shape	parallel

**Awn**

Length compared to ear	medium to long
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**Rachis**

Length of first segment	medium to long
Curvature of first segment	medium to strong

**Spikelet**

Sterile spikelet - attitude	parallel to weakly divergent
Sterile spikelet - development	full
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	strongly coloured
Husk - presence after harvest	present
Spiculation of inner lateral nerves	absent or v. weak
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	semi-prostrate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	early to medium
Flag leaf - glaucosity of sheath	strong
Ear - glaucosity	weak to medium
Ear - attitude 21 days after ear emerg.	semi-erect to horizontal

Variety Name: **SANDRA**

Crop:

**Breeders Reference:** BAUB 19104

**AFP No:**

**Breeder:** Berthold Bauer

**Translated from:** German

**Origin:**

**Date:** 02 April 2015

**Code:** SANDR

<b>*Plant - growth habit:</b>	Intermediate to semiprostrate
<b>*Lower leaves - hairiness of leaf sheaths:</b>	Present
<b>*Time of ear emergence:</b>	Medium
<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>	Medium to strong
<b>*Ear- glaucosity:</b>	Weak to medium
<b>Ear- attitude:</b>	Horizontal to semi-recurved
<b>Ear- length:</b>	Medium
<b>*Ear- number of rows:</b>	Two
<b>*Ear- density:</b>	Medium
<b>Ear- shape:</b>	Tapering to parallel
<b>*Awn- anthocyanin colouration of the tips:</b>	Absent or very weak
<b>*Awn- length compared to ear:</b>	Medium
<b>Awn- spiculation of margins:</b>	
<b>*Sterile spikelet-attitude:</b>	Parallel
<b>Sterile spikelet-shape of tip:</b>	
<b>Sterile spikelet- length of lemma:</b>	
<b>Median spikelet- length of glume + awn of grain:</b>	Equal
<b>Lemma nerves- anthocyanin colouration:</b>	
<b>*Plant height:</b>	
<b>Collar type:</b>	
<b>Rachis- length of first segment:</b>	Medium
<b>Rachis- width of first segment:</b>	
<b>Rachis- curvature of first segment:</b>	Weak
<b>Rachis- shape of first segment:</b>	
<b>Rachis(2-row)- humping of segments (mid third):</b>	
<b>Rachis(6-row)- degree of zig-zag (mid third):</b>	
<b>Kernel- colour of aleurone layer:</b>	Whitish
<b>*Grain- rachilla hair type:</b>	Long
<b>Grain- rachilla length:</b>	
<b>Grain- rachilla - length of tip hairs:</b>	
<b>Grain- spiculation of inner lateral nerves:</b>	Absent or very weak
<b>Grain- spiculation of outer lateral nerves:</b>	
<b>Grain- anthocyanin colouration of lemma nerves:</b>	Absent or very weak
<b>*Grain- ventral furrow - presence of hairs:</b>	Absent
<b>*Grain- husk:</b>	Present
<b>Grain- length of lodicules ("collar" type only):</b>	
<b>Grain- disposition of lodicules:</b>	Clasping
<b>*Seasonal type:</b>	Winter
<b>Extra characters:</b>	

\* = Characteristics which should always be included in the description of the variety. 28 March 2017

Variety Name: **Sensation**

Crop:

Breeders Reference: LEU73203

AFP No:

Breeder: Deutssche Saatveredelung

Translated from:

Origin:

Date: 27 May 2020

Code: B3295

*Plant - growth habit:	Intermediate
*Lower leaves - hairiness of leaf sheaths:	Present
*Time of ear emergence:	Very early to early
*Flag leaf- anthocyanin colouration of auricles:	Absent or very weak
Frequency of plants with recurved flag leaves:	
Flag leaf- glaucosity of sheath:	Strong
*Ear- glaucosity:	Medium
Ear- attitude:	Horizontal
Ear- length:	Medium to long
*Ear- number of rows:	More than two
*Ear- density:	Medium
Ear- shape:	Parallel
*Awn- anthocyanin colouration of the tips:	
*Awn- length compared to ear:	Long
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	NA
Sterile spikelet-shape of tip:	
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	Equal
Lemma nerves- anthocyanin colouration:	
*Plant height:	
Collar type:	
Rachis- length of first segment:	Medium to long
Rachis- width of first segment:	
Rachis- curvature of first segment:	Weak to medium
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Whitish
*Grain- rachilla hair type:	Short
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Strong
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	Weak
*Grain- ventral furrow - presence of hairs:	Absent
*Grain- husk:	Present
Grain- length of lodicules ("collar" type only):	
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Alternative
Extra characters:	

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

04 May 2022

**SEQUEL****CHARACTERS IN DETAIL****Ear**

Number of rows	six
Density	medium
Length	short to medium
Shape	tapering to parallel

**Awn**

Length compared to ear	long (longer than ear)
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**Rachis**

Length of first segment	short
Curvature of first segment	weak

**Spikelet**

Sterile spikelet - attitude	
Sterile spikelet - development	
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish ("white")
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong (5-10 per nerve)
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping ("collar" type)

**Anthocyanin colouration**

Flag leaf - auricles	weak to medium
Lemma nerves - at early dough	weak
Awn tips	weak to medium

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	medium to strong
Ear - attitude 21 days after ear emerg.	semi-erect to horizontal

**SHADOW****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	medium
Length	short to medium
Shape	tapering

**Awn**

Length compared to ear	long
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**Rachis**

Length of first segment	medium to long
Curvature of first segment	strong

**Spikelet**

Sterile spikelet - attitude	parallel to weakly divergent
Sterile spikelet - development	full
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	weakly coloured
Husk - presence after harvest	present
Spiculation of inner lateral nerves	medium
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	late
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	medium to strong
Ear - attitude 21 days after ear emerg.	erect to semi-erect



**SHANGRILA****CHARACTERS IN DETAIL****Ear**

Number of rows	more than two
Density	dense to very dense
Length	short
Shape	

**Awn**

Length compared to ear	long
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**Rachis**

Length of first segment	short
Curvature of first segment	weak

**Spikelet**

Sterile spikelet - attitude	
Sterile spikelet - development	
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	strongly coloured
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	weak to medium
Lemma nerves - at early dough	very weak to weak
Awn tips	weak to medium

**Plant growth characters**

Plant - growth habit	intermediate
Plant - length	medium to long
Lower leaf - hairiness of sheaths	present
Time of ear emergence	very early to early
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	weak to medium
Ear - attitude 21 days after ear emerg.	semi-erect

**SINATRA****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	medium
Length	medium to long
Shape	tapering

**Awn**

Length compared to ear	medium (+/- equal to ear)
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**Rachis**

Length of first segment	medium
Curvature of first segment	medium

**Spikelet**

Sterile spikelet - attitude	parallel to weakly divergent
Sterile spikelet - development	full
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish ("white")
Husk - presence after harvest	present
Spiculation of inner lateral nerves	absent/v. weak (0-2 per nerve)
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping ("collar" type)

**Anthocyanin colouration**

Flag leaf - auricles	absent to very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent to very weak

**Plant growth characters**

Plant - growth habit	intermediate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	medium
Ear - glaucosity	medium
Ear - attitude 21 days after ear emerg.	semi-erect

Variety Name: **SOBELL**

Crop: Winter Barley

Breeders Reference: SJ 128113

AFP No:

Breeder: SEJET

Translated from: Danish

Origin:

Date: 15 May 2018

Code: SOBE

*Plant - growth habit:	Intermediate to semi prostrate
*Lower leaves - hairiness of leaf sheaths:	Present
*Time of ear emergence:	Medium to late
*Flag leaf- anthocyanin colouration of auricles:	Absent or very weak
Frequency of plants with recurved flag leaves:	
Flag leaf- glaucosity of sheath:	Medium to strong
*Ear- glaucosity:	Medium
Ear- attitude:	Horizontal to semi recurved
Ear- length:	Medium
*Ear- number of rows:	Two
*Ear- density:	Lax to medium
Ear- shape:	Tapering to parallel
*Awn- anthocyanin colouration of the tips:	Absent or very weak
*Awn- length compared to ear:	Medium
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	Non or rudimentary
Sterile spikelet-shape of tip:	NA
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	Equal
Lemma nerves- anthocyanin colouration:	Absent or very weak
*Plant height:	
Collar type:	
Rachis- length of first segment:	Short to medium
Rachis- width of first segment:	
Rachis- curvature of first segment:	Medium to strong
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Whitish
*Grain- rachilla hair type:	Long
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Absent or very weak
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	Absent or very weak
*Grain- ventral furrow - presence of hairs:	Absent
*Grain- husk:	Present
Grain- length of lodicules ("collar" type only):	
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Winter
Extra characters:	

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

16 May 2018

**SOLOMAN****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	medium
Length	medium
Shape	tapering

**Awn**

Length compared to ear	medium (+/- equal to ear)
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**Rachis**

Length of first segment	medium
Curvature of first segment	medium

**Spikelet**

Sterile spikelet - attitude	divergent
Sterile spikelet - development	full
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	strongly coloured ("blue")
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong (5-10 per nerve)
Rachilla hair type	short
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping ("collar" type)

**Anthocyanin colouration**

Flag leaf - auricles	absent to very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent to very weak

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	strong to very strong
Ear - glaucosity	medium
Ear - attitude 21 days after ear emerg.	erect to semi-erect

**SU LAUBELLA****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	lax to medium
Length	medium to long
Shape	tapering

**Awn**

Length compared to ear	short to medium
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**Rachis**

Length of first segment	medium
Curvature of first segment	medium to strong

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	v. weak to weak
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	very short to short
Lower leaf - hairiness of sheaths	present
Time of ear emergence	early to medium
Flag leaf - glaucosity of sheath	strong
Ear - glaucosity	absent or very weak
Ear - attitude	semi-erect to horizontal

**SUNNINGDALE****CHARACTERS IN DETAIL****Ear**

Number of rows	more than two
Density	medium
Length	short
Shape	parallel

**Awn**

Length compared to ear	long
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**Rachis**

Length of first segment	medium
Curvature of first segment	medium

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	n/a
Median spikelet - length of glume+awn cf grain	longer

**Grain**

Kernel - colour of aleurone layer	weakly coloured
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	medium
Ear - attitude 21 days after ear emerg.	semi-erect

**SURGE****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	lax
Length	short to medium
Shape	tapering

**Awn**

Length compared to ear	medium
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**Rachis**

Length of first segment	medium
Curvature of first segment	strong

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	weakly coloured
Husk - presence after harvest	present
Spiculation of inner lateral nerves	v. weak to weak
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	very short to short
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	weak to medium
Ear - glaucosity	weak
Ear - attitude 21 days after ear emerg.	semi-erect

**SUZUKA****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	lax
Length	medium
Shape	tapering to parallel

**Awn**

Length compared to ear	medium (+/- equal to ear)
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**Rachis**

Length of first segment	short to medium
Curvature of first segment	medium

**Spikelet**

Sterile spikelet - attitude	parallel
Sterile spikelet - development	none or rudimentary(deficiens)
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	weakly coloured
Husk - presence after harvest	present
Spiculation of inner lateral nerves	weak to medium
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping ("collar" type)

**Anthocyanin colouration**

Flag leaf - auricles	absent to very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent to very weak

**Plant growth characters**

Plant - growth habit	intermediate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	early
Flag leaf - glaucosity of sheath	weak to medium
Ear - glaucosity	weak
Ear - attitude 21 days after ear emerg.	semi-erect to horizontal



**SY BAMBOO****CHARACTERS IN DETAIL****Ear**

Number of rows	more than two
Density	medium
Length	medium
Shape	parallel

**Awn**

Length compared to ear	medium
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**Rachis**

Length of first segment	medium
Curvature of first segment	weak to medium

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	n/a
Median spikelet - length of glume+awn cf grain	longer

**Grain**

Kernel - colour of aleurone layer	weakly coloured
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	weak to medium
Lemma nerves - at early dough	weak
Awn tips	weak to medium

**Plant growth characters**

Plant - growth habit	intermediate
Plant - length	long to very long
Lower leaf - hairiness of sheaths	present
Time of ear emergence	early to medium
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	medium
Ear - attitude 21 days after ear emerg.	semi-erect

**SYCKLE****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	medium
Length	medium
Shape	tapering

**Awn**

Length compared to ear	medium
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**Rachis**

Length of first segment	medium
Curvature of first segment	medium to strong

**Spikelet**

Sterile spikelet - attitude	divergent
Sterile spikelet - development	full
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	strong
Lemma nerves - at early dough	strong
Awn tips	medium to strong

**Plant growth characters**

Plant - growth habit	intermediate
Plant - length	very short to short
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	strong
Ear - attitude	semi-erect

Variety Name: **SY TEPEE**

Crop:

Breeders Reference: SY 209-66

AFP No: 2/

Breeder: Sygenta Seeds Ltd

Translated from:

Origin: France

Date: 12 October 2012

Code: SYTEP

*Plant - growth habit:	Semi-prostrate
*Lower leaves - hairiness of leaf sheaths:	Present
*Time of ear emergence:	Early
*Flag leaf- anthocyanin colouration of auricles:	Absent or very weak
Frequency of plants with recurved flag leaves:	Medium to high
Flag leaf- glaucosity of sheath:	Strong
*Ear- glaucosity:	Medium to strong
Ear- attitude:	Horizontal
Ear- length:	Medium to long
*Ear- number of rows:	Two
*Ear- density:	Medium
Ear- shape:	Parallel
*Awn- anthocyanin colouration of the tips:	Absent or very weak
*Awn- length compared to ear:	Medium to long
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	N/A
Sterile spikelet-shape of tip:	N/A
Sterile spikelet- length of lemma:	N/A
Median spikelet- length of glume + awn cf grain:	Equal
Lemma nerves- anthocyanin colouration:	
*Plant height:	Medium
Collar type:	
Rachis- length of first segment:	Medium
Rachis- width of first segment:	
Rachis- curvature of first segment:	Medium
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Whitish
*Grain- rachilla hair type:	Long
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Medium to strong
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	Absent or very weak
*Grain- ventral furrow - presence of hairs:	Absent
*Grain- husk:	Present
Grain- length of lodicules ("collar" type only):	
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Winter type
Extra characters:	Ear - Development of sterile spiklets - Non or Rudimentary

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

28 March 2018

**SY VENTURE****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	medium
Length	medium
Shape	tapering

**Awn**

Length compared to ear	medium (+/- equal to ear)
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**Rachis**

Length of first segment	medium
Curvature of first segment	medium to strong

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary(deficiens)
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish ("white")
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong (5-10 per nerve)
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping ("collar" type)

**Anthocyanin colouration**

Flag leaf - auricles	strong
Lemma nerves - at early dough	very strong
Awn tips	strong

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	short
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	medium
Ear - glaucosity	medium
Ear - attitude 21 days after ear emerg.	erect to semi-erect

**SY VESSEL****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	lax to medium
Length	medium to long
Shape	tapering

**Awn**

Length compared to ear	medium
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**Rachis**

Length of first segment	medium
Curvature of first segment	strong

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong to v. strong
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	strong
Lemma nerves - at early dough	strong to very strong
Awn tips	strong

**Plant growth characters**

Plant - growth habit	semi-prostrate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	medium
Ear - attitude	semi-erect

**TALISMAN****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	lax
Length	medium to long
Shape	tapering

**Awn**

Length compared to ear	short (shorter than ear)
------------------------	--------------------------

**Rachis**

Length of first segment	medium to long
Curvature of first segment	medium to strong

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary(deficiens)
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish ("white")
Husk - presence after harvest	present
Spiculation of inner lateral nerves	weak (1-2 per nerve)
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping ("collar" type)

**Anthocyanin colouration**

Flag leaf - auricles	strong
Lemma nerves - at early dough	strong
Awn tips	strong

**Plant growth characters**

Plant - growth habit	intermediate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	weak to medium
Ear - attitude 21 days after ear emerg.	erect to semi-erect

**TETRIS****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	lax
Length	long
Shape	tapering

**Awn**

Length compared to ear	short (shorter than ear)
------------------------	--------------------------

**Rachis**

Length of first segment	medium to long
Curvature of first segment	medium to strong

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	none or rudimentary(deficiens)
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish ("white")
Husk - presence after harvest	present
Spiculation of inner lateral nerves	absent/v. weak (0-2 per nerve)
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping ("collar" type)

**Anthocyanin colouration**

Flag leaf - auricles	weak to medium
Lemma nerves - at early dough	strong to very strong
Awn tips	strong

**Plant growth characters**

Plant - growth habit	semi-prostrate
Plant - length	medium to long
Lower leaf - hairiness of sheaths	present
Time of ear emergence	early to medium
Flag leaf - glaucosity of sheath	medium
Ear - glaucosity	medium
Ear - attitude 21 days after ear emerg.	semi-erect

**TOREROO****CHARACTERS IN DETAIL****Ear**

Number of rows	more than two
Density	medium
Length	medium
Shape	parallel

**Awn**

Length compared to ear	medium
------------------------	--------

**Rachis**

Length of first segment	medium
Curvature of first segment	weak

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	n/a
Median spikelet - length of glume+awn cf grain	longer

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	medium
Lemma nerves - at early dough	medium
Awn tips	medium

**Plant growth characters**

Plant - growth habit	intermediate
Plant - length	medium to long
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	strong
Ear - glaucosity	medium
Ear - attitude	semi-erect to horizontal



**TRICK****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	medium
Length	medium
Shape	parallel

**Awn**

Length compared to ear	medium
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**Rachis**

Length of first segment	medium to long
Curvature of first segment	medium to strong

**Spikelet**

Sterile spikelet - attitude	parallel to weakly divergent
Sterile spikelet - development	full
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong to v. strong
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	intermediate
Plant - length	short to medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	medium
Ear - glaucosity	medium
Ear - attitude 21 days after ear emerg.	semi-erect

Variety Name: **Valerie**

Crop:

Breeders Reference: BR 11500 R 6

AFP No:

Breeder: Saatzucht Josef Breun

Translated from: German

Origin:

Date: 04 April 2019

Code: Valer

*Plant - growth habit:	Intermediate to semi-prostrate
*Lower leaves - hairiness of leaf sheaths:	Present
*Time of ear emergence:	Early to medium
*Flag leaf- anthocyanin colouration of auricles:	Absent or very weak
Frequency of plants with recurved flag leaves:	
Flag leaf- glaucosity of sheath:	Strong to very strong
*Ear- glaucosity:	Medium
Ear- attitude:	Semi recurved
Ear- length:	Medium to long
*Ear- number of rows:	Two
*Ear- density:	Medium
Ear- shape:	Parallel
*Awn- anthocyanin colouration of the tips:	Absent or very weak
*Awn- length compared to ear:	Medium
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	Parallel
Sterile spikelet-shape of tip:	
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	
Lemma nerves- anthocyanin colouration:	Equal
*Plant height:	Short to medium
Collar type:	
Rachis- length of first segment:	Medium
Rachis- width of first segment:	
Rachis- curvature of first segment:	Medium to strong
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Whitish
*Grain- rachilla hair type:	Long
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Absent or very weak
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	
*Grain- ventral furrow - presence of hairs:	
*Grain- husk:	
Grain- length of lodicules ("collar" type only):	
Grain- disposition of lodicules:	
*Seasonal type:	
Extra characters:	

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

11 April 2019

Variety Name: **Valvira**

Crop: Barley

Breeders Reference: ac14/066/83

AFP No:

Breeder: Elsoms Seeds Ltd

Translated from:

Origin:

Date: 06 April 2023

Code: VALV

*Plant - growth habit:	Intermediate
*Lower leaves - hairiness of leaf sheaths:	Present
*Time of ear emergence:	Early to medium
*Flag leaf- anthocyanin colouration of auricles:	Absent or very weak
Frequency of plants with recurved flag leaves:	
Flag leaf- glaucosity of sheath:	Medium
*Ear- glaucosity:	Weak to medium
Ear- attitude:	Semi-erect to horizontal
Ear- length:	Long
*Ear- number of rows:	Six
*Ear- density:	Dense
Ear- shape:	Parallel
*Awn- anthocyanin colouration of the tips:	Absent or very weak
*Awn- length compared to ear:	Medium
Awn- spiculation of margins:	Strong
*Sterile spikelet-attitude:	N/A
Sterile spikelet-shape of tip:	
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	Slightly longer
Lemma nerves- anthocyanin colouration:	
*Plant height:	Medium to long
Collar type:	
Rachis- length of first segment:	Short
Rachis- width of first segment:	
Rachis- curvature of first segment:	Very weak to weak
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Whitish
*Grain- rachilla hair type:	Long
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Strong
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	
*Grain- ventral furrow - presence of hairs:	Present
*Grain- husk:	Present
Grain- length of lodicules ("collar" type only):	
Grain- disposition of lodicules:	
*Seasonal type:	Winter
Extra characters:	

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

19 April 2023

Variety Name: **Visuel**

Crop: Winter barley

Breeders Reference: sc 9433 oh

AFP No:

Breeder: Secobra

Translated from:

Origin:

Date: 04 April 2019

Code: VISU

*Plant - growth habit:	Intermediate
*Lower leaves - hairiness of leaf sheaths:	Absent
*Time of ear emergence:	Early
*Flag leaf- anthocyanin colouration of auricles:	Absent or very weak
Frequency of plants with recurved flag leaves:	
Flag leaf- glaucosity of sheath:	Strong
*Ear- glaucosity:	Strong
Ear- attitude:	Semi-erect
Ear- length:	Medium
*Ear- number of rows:	More than two
*Ear- density:	Lax to medium
Ear- shape:	Parallel
*Awn- anthocyanin colouration of the tips:	Absent or very weak
*Awn- length compared to ear:	Long
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	NA
Sterile spikelet-shape of tip:	
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	Slightly longer
Lemma nerves- anthocyanin colouration:	
*Plant height:	
Collar type:	
Rachis- length of first segment:	Short
Rachis- width of first segment:	
Rachis- curvature of first segment:	Weak
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Whitish
*Grain- rachilla hair type:	Long
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Absent or very weak
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	Absent or very weak
*Grain- ventral furrow - presence of hairs:	Absent
*Grain- husk:	Present
Grain- length of lodicules ("collar" type only):	
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Winter
Extra characters:	

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

11 April 2019

**WINSOME****CHARACTERS IN DETAIL****Ear**

Number of rows	two
Density	medium
Length	medium
Shape	parallel

**Awn**

Length compared to ear	medium (+/- equal to ear)
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**Rachis**

Length of first segment	medium
Curvature of first segment	strong

**Spikelet**

Sterile spikelet - attitude	divergent
Sterile spikelet - development	full
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	whitish ("white")
Husk - presence after harvest	present
Spiculation of inner lateral nerves	v. weak to weak
Rachilla hair type	short
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping ("collar" type)

**Anthocyanin colouration**

Flag leaf - auricles	weak to medium
Lemma nerves - at early dough	medium to strong
Awn tips	strong

**Plant growth characters**

Plant - growth habit	semi-prostrate
Plant - length	medium
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium
Flag leaf - glaucosity of sheath	strong
Ear - glaucosity	weak to medium
Ear - attitude 21 days after ear emerg.	semi-erect to horizontal

## WINTMALT

## CHARACTERS IN DETAIL

**Ear**

Number of rows	two
Density	medium
Length	medium to long
Shape	tapering to parallel

**Awn**

Length compared to ear	medium (+/- equal to ear)
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**Rachis**

Length of first segment	medium
Curvature of first segment	strong

**Spikelet**

Sterile spikelet - attitude	parallel to weakly divergent
Sterile spikelet - development	full
Median spikelet - length of glume+awn cf grain	equal

**Grain**

Kernel - colour of aleurone layer	weakly coloured
Husk - presence after harvest	present
Spiculation of inner lateral nerves	weak (1-2 per nerve)
Rachilla hair type	short
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping ("collar" type)

**Anthocyanin colouration**

Flag leaf - auricles	absent to very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent to very weak

**Plant growth characters**

Plant - growth habit	intermediate to semi-prostrate
Plant - length	short
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	strong
Ear - glaucosity	medium
Ear - attitude 21 days after ear emerg.	semi-erect

Variety Name: **Verity**

Crop: Winter Barley

Breeders Reference:

AFP No: 2/2750

Breeder:

Translated from: German

Origin:

Date: 01 April 2015

Code: VERI

*Plant - growth habit:	Intermediate
*Lower leaves - hairiness of leaf sheaths:	Present
*Time of ear emergence:	Medium
*Flag leaf- anthocyanin colouration of auricles:	Absent or very weak
Frequency of plants with recurved flag leaves:	
Flag leaf- glaucosity of sheath:	Very Strong
*Ear- glaucosity:	Medium to strong
Ear- attitude:	Semi erect
Ear- length:	Short
*Ear- number of rows:	More than two
*Ear- density:	Lax to medium
Ear- shape:	Parallel
*Awn- anthocyanin colouration of the tips:	Absent or very weak
*Awn- length compared to ear:	Long
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	N/A - Deficiens
Sterile spikelet-shape of tip:	
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	Longer
Lemma nerves- anthocyanin colouration:	
*Plant height:	Long
Collar type:	
Rachis- length of first segment:	Medium to long
Rachis- width of first segment:	
Rachis- curvature of first segment:	Very weak to weak
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Whitish
*Grain- rachilla hair type:	Long
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Medium to strong
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	Absent or very weak
*Grain- ventral furrow - presence of hairs:	Absent
*Grain- husk:	Present
Grain- length of lodicules ("collar" type only):	
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Winter
Extra characters:	

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

09 April 2015

WINTER BARLEY 2015

Variety Name: **Yvonne**

Crop: Winter Barley

Breeders Reference: NORD

AFP No:

Breeder: 11060/1

Translated from: German

Origin:

Date: 04 May 2020

Code: YVON

*Plant - growth habit:	Intermediate
*Lower leaves - hairiness of leaf sheaths:	Present
*Time of ear emergence:	Medium to late
*Flag leaf- anthocyanin colouration of auricles:	Strong to very strong
Frequency of plants with recurved flag leaves:	
Flag leaf- glaucosity of sheath:	Strong
*Ear- glaucosity:	Medium to strong
Ear- attitude:	Horizontal
Ear- length:	Medium to long
*Ear- number of rows:	Two
*Ear- density:	Dense
Ear- shape:	Tapering
*Awn- anthocyanin colouration of the tips:	Strong
*Awn- length compared to ear:	Medium
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	NA
Sterile spikelet-shape of tip:	NA
Sterile spikelet- length of lemma:	NA
Median spikelet- length of glume + awn cf grain:	Equal
Lemma nerves- anthocyanin colouration:	Very strong
*Plant height:	Short to medium
Collar type:	
Rachis- length of first segment:	Medium
Rachis- width of first segment:	
Rachis- curvature of first segment:	Strong
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Whitish
*Grain- rachilla hair type:	Long
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Absent or very weak
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	Very strong
*Grain- ventral furrow - presence of hairs:	Absent
*Grain- husk:	Present
Grain- length of lodicules ("collar" type only):	
Grain- disposition of lodicules:	Clasping
*Seasonal type:	
Extra characters:	

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

06 May 2020



Variety Name: **Zophia**

Crop: Winter Barley

Breeders Reference: UN 116261

AFP No:

Breeder: Sejet

Translated from: French

Origin:

Date: 04 April 2019

Code: ZOPH

*Plant - growth habit:	Intermediate
*Lower leaves - hairiness of leaf sheaths:	
*Time of ear emergence:	Early
*Flag leaf- anthocyanin colouration of auricles:	Medium to strong
Frequency of plants with recurved flag leaves:	
Flag leaf- glaucosity of sheath:	Strong
*Ear- glaucosity:	Medium to strong
Ear- attitude:	Horizontal
Ear- length:	
*Ear- number of rows:	Two
*Ear- density:	Medium to dense
Ear- shape:	Parallel
*Awn- anthocyanin colouration of the tips:	Medium
*Awn- length compared to ear:	Long
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	
Sterile spikelet-shape of tip:	
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	Equal
Lemma nerves- anthocyanin colouration:	Medium
*Plant height:	
Collar type:	
Rachis- length of first segment:	Medium
Rachis- width of first segment:	
Rachis- curvature of first segment:	Medium
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Whitish
*Grain- rachilla hair type:	Long
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Strong
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	Medium
*Grain- ventral furrow - presence of hairs:	Absent
*Grain- husk:	Present
Grain- length of lodicules ("collar" type only):	
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Winter
Extra characters:	

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

11 April 2019

**ZZOOM****CHARACTERS IN DETAIL****Ear**

Number of rows	more than two
Density	medium
Length	short to medium
Shape	parallel

**Awn**

Length compared to ear	long
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**Rachis**

Length of first segment	short to medium
Curvature of first segment	absent or very weak

**Spikelet**

Sterile spikelet - attitude	n/a
Sterile spikelet - development	n/a
Median spikelet - length of glume+awn cf grain	longer

**Grain**

Kernel - colour of aleurone layer	weakly coloured
Husk - presence after harvest	present
Spiculation of inner lateral nerves	very strong
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping

**Anthocyanin colouration**

Flag leaf - auricles	absent or very weak
Lemma nerves - at early dough	absent or very weak
Awn tips	absent or very weak

**Plant growth characters**

Plant - growth habit	semi-erect to intermediate
Plant - length	medium to long
Lower leaf - hairiness of sheaths	present
Time of ear emergence	early to medium
Flag leaf - glaucosity of sheath	strong
Ear - glaucosity	medium
Ear - attitude	semi-erect to horizontal