

**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 of 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 of 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 of 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

**ARETHA****CHARACTERS IN DETAIL****Grain**

Aleurone colour	whitish
Rachilla hair type	long
Spiculation of inner lateral nerves	strong
Husk (presence after harvest)	husked
Ventral furrow hairiness	absent
Shape of lemma base	bevelled

**Plant**

Growth habit	intermediate to semi-prostrate
Green colour (at tillering)	medium
Lower leaf sheath hairiness	present
Flag leaf attitude	horizontal to semi-reflexed
Time of ear emergence	medium
Flag leaf glaucosity	medium to strong
Ear glaucosity	medium
Ear attitude (21 days after ear emergence)	semi-erect to horizontal
Length (stem, ears and awns)	medium

**Anthocyanin colouration**

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

**Ear**

Number of rows	two
Shape	slightly tapering
Density	sparse to medium
Length (excluding awns)	medium
Awn length (compared to ear)	short to medium
Median spikelet - length of glume+awn cf grain	equal

**Sterile Spikelet**

Development	none or rudimentary
Attitude	n/a

**Rachis**

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



## BANSHEE

### CHARACTERS IN DETAIL

#### Grain

Aleurone colour	whitish
Rachilla hair type	long
Spiculation of inner lateral nerves	weak
Husk (presence after harvest)	husked
Ventral furrow hairiness	absent
Shape of lemma base	bevelled

#### Plant

Growth habit	intermediate to semi-prostrate
Green colour (at tillering)	medium
Lower leaf sheath hairiness	absent
Flag leaf attitude	semi-erect to horizontal
Time of ear emergence	medium to late
Flag leaf glaucosity	medium
Ear glaucosity	weak
Ear attitude (21 days after ear emergence)	horizontal
Length (stem, ears and awns)	medium to long

#### Anthocyanin colouration

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

#### Ear

Number of rows	two
Shape	slightly tapering
Density	medium
Length (excluding awns)	long
Awn length (compared to ear)	short to medium
Median spikelet - length of glume+awn cf grain	equal

#### Sterile Spikelet

Development	none or rudimentary
Attitude	not applicable

#### Rachis

Length of first segment	long
Curvature of first segment	medium

## BASTION

### CHARACTERS IN DETAIL

#### Grain

Aleurone colour	whitish
Rachilla hair type	long
Spiculation of inner lateral nerves	weak to medium
Husk (presence after harvest)	husked
Ventral furrow hairiness	absent
Shape of lemma base	bevelled

#### Plant

Growth habit	intermediate to semi-prostrate
Green colour (at tillering)	medium
Lower leaf sheath hairiness	present
Flag leaf attitude	horizontal
Time of ear emergence	medium to late
Flag leaf glaucosity	medium
Ear glaucosity	weak to medium
Ear attitude (21 days after ear emergence)	semi-erect to horizontal
Length (stem, ears and awns)	medium

#### Anthocyanin colouration

Flag leaf auricles	medium
Awn tips	strong
Lemma nerves (at early dough)	very strong

#### Ear

Number of rows	two
Shape	slightly tapering
Density	very sparse to sparse
Length (excluding awns)	long to very long
Awn length (compared to ear)	short
Median spikelet - length of glume+awn cf grain	equal

#### Sterile Spikelet

Development	none or rudimentary
Attitude	not applicable

#### Rachis

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

**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

**BOLTON****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

# BUCCANEER

## 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	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	strong to v. 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	weak
Awn tips	weak to medium

### Plant growth characters

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



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 of 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 of 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 of 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)
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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 of 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
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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	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
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**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 of 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
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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 of 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

**CRAFT****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 of 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)
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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	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:**

**Breeder:** Sarl Adrien Momont et Fils

**Origin:**

**Code:** DAXO

**AFP No:**

**Translated from:** French

**Date:** 24 March 2015

<b>*Plant - growth habit:</b>	Intermediate to semi prostrate
<b>*Lower leaves - hairiness of leaf sheaths:</b>	Absent
<b>*Time of ear emergence:</b>	
<b>*Flag leaf- anthocyanin colouration of auricles:</b>	Absent or very weak
<b>Frequency of plants with recurved flag leaves:</b>	Low
<b>Flag leaf- glaucosity of sheath:</b>	Medium to strong
<b>*Ear- glaucosity:</b>	Medium to strong
<b>Ear- attitude:</b>	Semi- erect
<b>Ear- length:</b>	Medium
<b>*Ear- number of rows:</b>	More than two
<b>*Ear- density:</b>	Medium to dense
<b>Ear- shape:</b>	Parallel
<b>*Awn- anthocyanin colouration of the tips:</b>	
<b>*Awn- length compared to ear:</b>	Medium to long
<b>Awn- spiculation of margins:</b>	
<b>*Sterile spikelet-attitude:</b>	
<b>Sterile spikelet-shape of tip:</b>	
<b>Sterile spikelet- length of lemma:</b>	
<b>Median spikelet- length of glume + awn cf grain:</b>	Equal
<b>Lemma nerves- anthocyanin colouration:</b>	Absent to very weak
<b>*Plant height:</b>	
<b>Collar type:</b>	
<b>Rachis- length of first segment:</b>	Short to 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>	Strong
<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>	Present
<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.

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
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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 of 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
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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 of 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 of 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 lodicles ("collar" type only):	
Grain- disposition of lodicles:	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
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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	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

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

Number of rows	two
Density	lax to 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	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)
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**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 of 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 of 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 of 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 of 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 of 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



## INTEGRAL

### CHARACTERS IN DETAIL

#### Grain

Aleurone colour	whitish
Rachilla hair type	long
Spiculation of inner lateral nerves	strong to very strong
Husk (presence after harvest)	husked
Ventral furrow hairiness	present
Shape of lemma base	bevelled

#### Plant

Growth habit	intermediate
Green colour (at tillering)	medium
Lower leaf sheath hairiness	present
Flag leaf attitude	horizontal
Time of ear emergence	medium
Flag leaf glaucosity	strong to very strong
Ear glaucosity	strong
Ear attitude (21 days after ear emergence)	semi-erect
Length (stem, ears and awns)	medium

#### Anthocyanin colouration

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

#### Ear

Number of rows	six
Shape	parallel
Density	medium to dense
Length (excluding awns)	short
Awn length (compared to ear)	long
Median spikelet - length of glume+awn cf grain	equal

#### Sterile Spikelet

Development	n/a
Attitude	n/a

#### Rachis

Length of first segment	short
Curvature of first segment	very weak

Variety Name: **Jakubus**

Crop: Winter Barley

Breeders Reference: NORD 12119/102

AFP No:

Breeder: Nordsaat Saatzucht 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 of 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 of 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 of 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

**CHARACTERS IN DETAIL**

**Grain**

Aleurone colour	whitish
Rachilla hair type	long
Spiculation of inner lateral nerves	absent or very weak
Husk (presence after harvest)	husked
Ventral furrow hairiness	present
Shape of lemma base	bevelled

**Plant**

Growth habit	intermediate to semi-prostrate
Green colour (at tillering)	medium
Lower leaf sheath hairiness	present
Flag leaf attitude	semi-erect
Time of ear emergence	medium to late
Flag leaf glaucosity	strong
Ear glaucosity	very weak to weak
Ear attitude (21 days after ear emergence)	semi-erect
Length (stem, ears and awns)	medium

**Anthocyanin colouration**

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

**Ear**

Number of rows	two
Shape	slightly tapering
Density	medium
Length (excluding awns)	medium
Awn length (compared to ear)	medium
Median spikelet - length of glume+awn cf grain	equal

**Sterile Spikelet**

Development	none or rudimentary
Attitude	not applicable

**Rachis**

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

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 of 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 of 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 of 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 of 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 of 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 of 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 of 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 of 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 of 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 of 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 HERACLIS****CHARACTERS IN DETAIL****Grain**

Aleurone colour	whitish
Rachilla hair type	short
Spiculation of inner lateral nerves	weak
Husk (presence after harvest)	husked
Ventral furrow hairiness	present
Shape of lemma base	bevelled

**Plant**

Growth habit	intermediate to semi-prostrate
Green colour (at tillering)	medium
Lower leaf sheath hairiness	present
Flag leaf attitude	semi-erect to horizontal
Time of ear emergence	medium to late
Flag leaf glaucosity	medium
Ear glaucosity	weak
Ear attitude (21 days after ear emergence)	semi-erect to horizontal
Length (stem, ears and awns)	medium

**Anthocyanin colouration**

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

**Ear**

Number of rows	two
Shape	slightly tapering
Density	sparse to medium
Length (excluding awns)	medium to long
Awn length (compared to ear)	medium
Median spikelet - length of glume+awn cf grain	equal

**Sterile Spikelet**

Development	none or rudimentary
Attitude	n/a

**Rachis**

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

**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 of 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 of 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 of 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 of 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
------------------------	--------

**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 of 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 of 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 of 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
------------------------	-----------------

**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 of 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 of 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 of 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 of 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 of 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 of 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

**KWS VALENCIS****CHARACTERS IN DETAIL****Grain**

Aleurone colour	whitish
Rachilla hair type	short
Spiculation of inner lateral nerves	weak
Husk (presence after harvest)	husked
Ventral furrow hairiness	absent
Shape of lemma base	bevelled

**Plant**

Growth habit	intermediate to semi-prostrate
Green colour (at tillering)	medium
Lower leaf sheath hairiness	present
Flag leaf attitude	semi-erect
Time of ear emergence	medium to late
Flag leaf glaucosity	medium
Ear glaucosity	weak
Ear attitude (21 days after ear emergence)	semi-erect
Length (stem, ears and awns)	medium to long

**Anthocyanin colouration**

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

**Ear**

Number of rows	two
Shape	slightly tapering
Density	medium
Length (excluding awns)	long
Awn length (compared to ear)	short
Median spikelet - length of glume+awn cf grain	equal

**Sterile Spikelet**

Development	none or rudimentary
Attitude	n/a

**Rachis**

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

**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 of 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 of 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 of 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



## LG CARPENTER

### CHARACTERS IN DETAIL

#### Grain

Aleurone colour	whitish
Rachilla hair type	long
Spiculation of inner lateral nerves	very weak to weak
Husk (presence after harvest)	husked
Ventral furrow hairiness	absent
Shape of lemma base	bevelled

#### Plant

Growth habit	intermediate
Green colour (at tillering)	medium
Lower leaf sheath hairiness	present
Flag leaf attitude	horizontal
Time of ear emergence	medium to late
Flag leaf glaucosity	medium
Ear glaucosity	weak to medium
Ear attitude (21 days after ear emergence)	horizontal
Length (stem, ears and awns)	medium

#### Anthocyanin colouration

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

#### Ear

Number of rows	two
Shape	slightly tapering
Density	medium
Length (excluding awns)	medium to long
Awn length (compared to ear)	short
Median spikelet - length of glume+awn cf grain	equal

#### Sterile Spikelet

Development	none or rudimentary
Attitude	n/a

#### Rachis

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

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 lodicles ("collar" type only):	
Grain- disposition of lodicles:	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 of 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 of 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 of 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 of 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 of 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 of 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
------------------------	--------

**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 of 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 of 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 of 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 of 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 of 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 of 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 of 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 of 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 of 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

## NOS OLENA

### CHARACTERS IN DETAIL

#### Grain

Aleurone colour	whitish
Rachilla hair type	long
Spiculation of inner lateral nerves	absent or very weak
Husk (presence after harvest)	husked
Ventral furrow hairiness	present
Shape of lemma base	bevelled

#### Plant

Growth habit	intermediate to semi-prostrate
Green colour (at tillering)	medium
Lower leaf sheath hairiness	present
Flag leaf attitude	semi-erect
Time of ear emergence	medium to late
Flag leaf glaucosity	medium to strong
Ear glaucosity	weak
Ear attitude (21 days after ear emergence)	semi-erect
Length (stem, ears and awns)	medium

#### Anthocyanin colouration

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

#### Ear

Number of rows	two
Shape	slightly tapering
Density	medium
Length (excluding awns)	medium to long
Awn length (compared to ear)	medium
Median spikelet - length of glume+awn cf grain	equal

#### Sterile Spikelet

Development	none or rudimentary
Attitude	not applicable

#### Rachis

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



## ORGANA

### CHARACTERS IN DETAIL

#### Grain

Aleurone colour	whitish
Rachilla hair type	long
Spiculation of inner lateral nerves	absent or very weak
Husk (presence after harvest)	husked
Ventral furrow hairiness	absent
Shape of lemma base	bevelled

#### Plant

Growth habit	intermediate to semi-prostrate
Green colour (at tillering)	medium
Lower leaf sheath hairiness	present
Flag leaf attitude	semi-erect
Time of ear emergence	medium to late
Flag leaf glaucosity	medium to strong
Ear glaucosity	weak to medium
Ear attitude (21 days after ear emergence)	semi-erect
Length (stem, ears and awns)	long

#### Anthocyanin colouration

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

#### Ear

Number of rows	two
Shape	slightly tapering
Density	medium
Length (excluding awns)	medium
Awn length (compared to ear)	medium
Median spikelet - length of glume+awn cf grain	equal

#### Sterile Spikelet

Development	none or rudimentary
Attitude	not applicable

#### Rachis

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

**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 of 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 of 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

**PIXIE****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 of 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 of 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 of 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

*Plant - growth habit:	Intermediate
*Lower leaves - hairiness of leaf sheaths:	Present
*Time of ear emergence:	Early to medium
*Flag leaf- anthocyanin colouration of auricles:	Medium
Frequency of plants with recurved flag leaves:	Low to medium
Flag leaf- glaucosity of sheath:	Medium to strong
*Ear- glaucosity:	Absent or very weak
Ear- attitude:	Horizontal
Ear- length:	Medium to long
*Ear- number of rows:	More than two
*Ear- density:	Lax to medium
Ear- shape:	Parallel
*Awn- anthocyanin colouration of the tips:	Medium
*Awn- length compared to ear:	Longer
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 of grain:	Longer
Lemma nerves- anthocyanin colouration:	Medium
*Plant height:	Medium to long
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:	
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:	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:	Alternative
Extra characters:	

\* = 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 of 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 of 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

## RGT ORIENTATION

### CHARACTERS IN DETAIL

#### Grain

Aleurone colour	whitish
Rachilla hair type	long
Spiculation of inner lateral nerves	absent or very weak
Husk (presence after harvest)	husked
Ventral furrow hairiness	absent
Shape of lemma base	bevelled

#### Plant

Growth habit	intermediate to semi-prostrate
Green colour (at tillering)	medium
Lower leaf sheath hairiness	present
Flag leaf attitude	semi-erect to horizontal
Time of ear emergence	medium to late
Flag leaf glaucosity	medium to strong
Ear glaucosity	weak to medium
Ear attitude (21 days after ear emergence)	semi-erect to horizontal
Length (stem, ears and awns)	medium

#### Anthocyanin colouration

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

#### Ear

Number of rows	two
Shape	slightly tapering
Density	medium
Length (excluding awns)	medium to long
Awn length (compared to ear)	medium
Median spikelet - length of glume+awn cf grain	equal

#### Sterile Spikelet

Development	none or rudimentary
Attitude	not applicable

#### Rachis

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

**RICKY****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 of 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: **Rubinese**

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

**CHARACTERS IN DETAIL****Grain**

Aleurone colour	whitish
Rachilla hair type	long
Spiculation of inner lateral nerves	absent or very weak
Husk (presence after harvest)	husked
Ventral furrow hairiness	present
Shape of lemma base	bevelled

**Plant**

Growth habit	intermediate to semi-prostrate
Green colour (at tillering)	medium
Lower leaf sheath hairiness	present
Flag leaf attitude	horizontal
Time of ear emergence	medium to late
Flag leaf glaucosity	weak to medium
Ear glaucosity	weak
Ear attitude (21 days after ear emergence)	semi-erect to horizontal
Length (stem, ears and awns)	medium

**Anthocyanin colouration**

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

**Ear**

Number of rows	two
Shape	slightly tapering
Density	sparse
Length (excluding awns)	long to very long
Awn length (compared to ear)	medium
Median spikelet - length of glume+awn cf grain	equal

**Sterile Spikelet**

Development	none or rudimentary
Attitude	n/a

**Rachis**

Length of first segment	medium
Curvature of first segment	medium

Variety Name: **Sabine F**

Crop: Winter Barley

Breeders Reference:

AFP No: 2/2231

Breeder: Saatucht 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 of 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 of 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

## SAMANTHA

### CHARACTERS IN DETAIL

#### Grain

Aleurone colour	whitish
Rachilla hair type	long
Spiculation of inner lateral nerves	weak to medium
Husk (presence after harvest)	husked
Ventral furrow hairiness	absent
Shape of lemma base	bevelled

#### Plant

Growth habit	intermediate to semi-prostrate
Green colour (at tillering)	medium
Lower leaf sheath hairiness	present
Flag leaf attitude	semi-erect to horizontal
Time of ear emergence	medium
Flag leaf glaucosity	strong
Ear glaucosity	weak
Ear attitude (21 days after ear emergence)	semi-erect
Length (stem, ears and awns)	short

#### Anthocyanin colouration

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

#### Ear

Number of rows	two
Shape	slightly tapering
Density	medium
Length (excluding awns)	medium
Awn length (compared to ear)	medium
Median spikelet - length of glume+awn cf grain	equal

#### Sterile Spikelet

Development	none or rudimentary
Attitude	not applicable

#### Rachis

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

Variety Name: **SANDRA**

Crop:

Breeders Reference: BAUB 19104

AFP No:

Breeder: Berthold Bauer

Translated from: German

Origin:

Date: 02 April 2015

Code: SANDR

*Plant - growth habit:	Intermediate to semiprostrate
*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:	High
Flag leaf- glaucosity of sheath:	Medium to strong
*Ear- glaucosity:	Weak to medium
Ear- attitude:	Horizontal to semi-recurved
Ear- length:	Medium
*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:	
*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:	
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:	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. 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 of 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 of 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 of 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



**CHARACTERS IN DETAIL**

**Grain**

Aleurone colour	whitish
Rachilla hair type	long
Spiculation of inner lateral nerves	strong to very strong
Husk (presence after harvest)	husked
Ventral furrow hairiness	present
Shape of lemma base	bevelled

**Plant**

Growth habit	intermediate to semi-prostrate
Green colour (at tillering)	medium
Lower leaf sheath hairiness	present
Flag leaf attitude	semi-erect
Time of ear emergence	medium to late
Flag leaf glaucosity	medium to strong
Ear glaucosity	weak to medium
Ear attitude (21 days after ear emergence)	semi-erect to horizontal
Length (stem, ears and awns)	medium

**Anthocyanin colouration**

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

**Ear**

Number of rows	six
Shape	parallel
Density	medium to dense
Length (excluding awns)	medium
Awn length (compared to ear)	medium
Median spikelet - length of glume+awn cf grain	much longer

**Sterile Spikelet**

Development	n/a
Attitude	n/a

**Rachis**

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

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 of 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 ARION****CHARACTERS IN DETAIL****Grain**

Aleurone colour	whitish
Rachilla hair type	long
Spiculation of inner lateral nerves	very weak to weak
Husk (presence after harvest)	husked
Ventral furrow hairiness	absent
Shape of lemma base	bevelled

**Plant**

Growth habit	intermediate to semi-prostrate
Green colour (at tillering)	medium
Lower leaf sheath hairiness	present
Flag leaf attitude	semi-erect
Time of ear emergence	medium to late
Flag leaf glaucosity	strong
Ear glaucosity	very weak to weak
Ear attitude (21 days after ear emergence)	semi-erect to horizontal
Length (stem, ears and awns)	medium to long

**Anthocyanin colouration**

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

**Ear**

Number of rows	two
Shape	slightly tapering
Density	medium
Length (excluding awns)	medium
Awn length (compared to ear)	medium
Median spikelet - length of glume+awn cf grain	equal

**Sterile Spikelet**

Development	none or rudimentary
Attitude	n/a

**Rachis**

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

**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 of 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

**SU NEWMARKET****CHARACTERS IN DETAIL****Grain**

Aleurone colour	whitish
Rachilla hair type	short
Spiculation of inner lateral nerves	absent or very weak
Husk (presence after harvest)	husked
Ventral furrow hairiness	absent
Shape of lemma base	bevelled

**Plant**

Growth habit	intermediate to semi-prostrate
Green colour (at tillering)	medium
Lower leaf sheath hairiness	present
Flag leaf attitude	semi-erect
Time of ear emergence	medium
Flag leaf glaucosity	strong
Ear glaucosity	medium
Ear attitude (21 days after ear emergence)	semi-erect
Length (stem, ears and awns)	medium

**Anthocyanin colouration**

Flag leaf auricles	weak
Awn tips	weak
Lemma nerves (at early dough)	weak

**Ear**

Number of rows	two
Shape	strongly tapering
Density	sparse to medium
Length (excluding awns)	medium to long
Awn length (compared to ear)	very short to short
Median spikelet - length of glume+awn cf grain	equal

**Sterile Spikelet**

Development	none or rudimentary
Attitude	n/a

**Rachis**

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

**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 of 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 of 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 of 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 of 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 of 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 of 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 spikelets - 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 of 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 of 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 of 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)
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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	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
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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 of 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: Saatucht 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: **Valiant**

Crop: Winter Barley

Breeders Reference: AC 14/361/28

AFP No:

Breeder: Elsoms Ackermann Barley Ltd

Translated from:

Origin:

Date: 28 March 2024

Code: VALI

*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:	Medium to strong
*Ear- glaucosity:	Weak to medium
Ear- attitude:	Horizontal
Ear- length:	Long
*Ear- number of rows:	Two
*Ear- density:	Medium
Ear- shape:	Slightly tapering
*Awn- anthocyanin colouration of the tips:	Absent or very weak
*Awn- length compared to ear:	
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:	Absent or very weak
*Plant height:	Short
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:	Very weak to weak
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	
*Grain- ventral furrow - presence of hairs:	Absent
*Grain- husk:	Husked
Grain- length of lodicules ("collar" type only):	
Grain- disposition of lodicules:	Bevelled
*Seasonal type:	Winter
Extra characters:	

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

09 April 2024

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 of 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 of 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

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 lodicles ("collar" type only):	
Grain- disposition of lodicles:	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