### AFP 2/2073 ACCRUE

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

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

long

short medium to strong

n/a none or rudimentary equal

strongly coloured present v. weak to weak long absent clasping

strong medium medium to strong

intermediate to semi-prostrate long present late to very late medium to strong medium erect to semi-erect



AFP 2/2586

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

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

medium (+/- equal to ear)

medium to long medium to strong

divergent full equal

whitish ("white") present weak (1-2 per nerve) long absent clasping ("collar" type)

weak medium weak

intermediate to semi-prostrate medium present medium strong medium to strong semi-erect



### AFP 2/3039 AGENCY

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude two medium medium to long tapering

medium

medium to long medium to strong

n/a none or rudimentary equal

whitish present absent or v. weak long absent clasping

absent or very weak absent or very weak absent or very weak

semi-prostrate short absent early to medium medium 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 lodicles ("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



### AFP 2/1886 AMARENA

semi-erect to horizontal

## CHARACTERS IN DETAIL

Ear Number of rows Density Length Shape	more than two medium to dense medium to long parallel
Awn	
Length compared to ear	medium to long
Rachis	
Length of first segment	short
Curvature of first segment	weak
6-1-14	
Spikelet	
Sterile spikelet - attitude Sterile spikelet - development	
Median spikelet - length of glume+awn cf grain	longer
Wedian spikelet lengen of grunie rawn er gruni	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 Lower leaf - hairiness of sheaths	long
	present medium to late
Time of ear emergence Flag leaf - glaucosity of sheath	
Ear - glaucosity	medium to strong medium
Ear - graucosity	

Ear - attitude 21 days after ear emerg.

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 lodicles ("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



### AFP 2/2447 **ARCHER**

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two lax to medium medium tapering

medium (+/- equal to ear)

long medium

parallel to weakly divergent full equal

weakly coloured present weak (1-2 per nerve) long absent clasping ("collar" type)

absent to very weak absent or very weak absent to very weak

semi-prostrate to prostrate medium present medium to late medium to strong medium semi-erect



### AFP 2/2375 BLAZING

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

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

medium

medium to long medium to strong

divergent full equal

whitish present strong to v. strong long absent clasping

absent or very weak absent or very weak absent or very weak

intermediate to semi-prostrate short to medium present medium medium weak to medium semi-erect



### AFP 2/2894 BLUEBELL

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude more than two medium medium parallel

medium to long

medium weak

n/a n/a equal

whitish present medium to strong long absent clasping

absent or very weak absent or very weak absent or very weak

intermediate short to medium present medium strong weak to medium semi-erect



### AFP 2/3327 BOLIVIA

### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### **Plant growth characters**

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude two medium long tapering

short to medium

medium weak to medium

n/a none or rudimentary equal

whitish husked absent or v. weak long absent clasping

strong medium to strong

semi-prostrate short to medium absent medium to late medium to strong weak semi-erect



### AFP 2/3147 BOLTON

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude two lax to medium medium tapering

long

medium strong

n/a none or rudimentary equal

whitish present absent or v. weak long absent clasping

absent or very weak absent or very weak absent or very weak

intermediate to semi-prostrate very short present medium to late medium weak 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:	<b>Date:</b> 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:	Т
*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:	Weddulli
Rachis- length of first segment:	Mediun
Rachis- width of first segment:	Weddull
Rachis- curvature of first segment:	Strong
Rachis- shape of first segment:	Strong
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:	Long
Grain- rachilla - length of tip hairs:	
	Absort on your weak
Grain- spiculation of inner lateral nerves:	Absent or very weak
Grain- spiculation of outer lateral nerves: Grain- anthocyanin colouration of lemma nerves:	Strong
	Strong
*Grain- ventral furrow - presence of hairs: *Grain- husk:	Present
	Present
Grain- length of lodicles ("collar" type only):	Classing
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



### 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:	1 0	
*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:	2019	
*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:	Medium	
• •	Medium	
Rachis- length of first segment:	Medium	
Rachis- width of first segment:	Weak to medium	
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):	XX 71. 1. 1.	
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 lodicles ("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

### AFP 2/2581 CADILLAC

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two lax medium tapering

medium (+/- equal to ear)

medium to long medium to strong

parallel full equal

strongly coloured ("blue") present weak (1-2 per nerve) long present clasping ("collar" type)

absent to very weak absent or very weak very weak to weak

semi-prostrate medium to long present medium medium weak to medium semi-erect



# AFP 2/2448 CALIFORNIA

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

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

medium (+/- equal to ear)

long medium

n/a none or rudimentary(deficiens) equal

whitish ("white") present absent/v. weak (0-2 per nerve) long absent clasping ("collar" type)

absent to very weak absent or very weak absent to very weak

intermediate to semi-prostrate short to medium absent medium medium to strong medium semi-erect



### AFP 2/1825 CAMION

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two lax to medium long tapering

+/- equal to longer

medium medium to strong

divergent

equal

whitish ("white") present weak to medium long present clasping ("collar" type)

weak weak weak

intermediate to semi-prostrate medium present very early to early medium to strong weak semi-erect to horizontal



### CAMPANILE

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two medium to dense medium to long tapering

short (shorter than ear)

medium to long medium to strong

n/a none or rudimentary(deficiens) equal

whitish ("white") present medium to strong short present clasping ("collar" type)

absent to very weak absent or very weak absent to very weak

intermediate short to medium present medium to late medium to strong weak to medium horizontal to semi-recurved



AFP 2/1606

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two lax to medium medium tapering

long (longer than ear)

short to medium medium

divergent

equal

whitish ("white") present absent/v. weak (0-2 per nerve) long absent clasping ("collar" type)

absent or very weak

intermediate to semi-prostrate short to medium present medium strong to very strong weak to medium 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:	Imtermediate 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:	Abesnt or very weak
*Awn- length compared to ear:	Shhort 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 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:	Medium to strong
Rachis- shape of first segment:	6
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:	e
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 lodicles ("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



### AFP 2/2058 CASSATA

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two medium to dense medium tapering

+/- equal to longer

short to medium weak to medium

parallel full equal

whitish ("white") absent (grains thresh free) strong (5-10 per nerve) long absent clasping ("collar" type)

weak to medium weak medium to strong

intermediate to semi-prostrate short to medium present medium to late medium medium erect to semi-erect



### AFP 2/2582 CAVALIER

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two lax medium tapering

medium (+/- equal to ear)

medium medium

parallel full equal

strongly coloured ("blue") present absent/v. weak (0-2 per nerve) long present clasping ("collar" type)

medium to strong strong to very strong strong to very strong

semi-prostrate medium present early to medium medium weak to medium semi-erect



### AFP 2/2657 CELOONA

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emergence. more than two dense short to medium parallel

medium

short to medium weak

n/a n/a longer

weakly coloured present strong to v. strong long absent clasping

weak to medium weak medium

semi-prostrate long present medium to late medium to strong medium semi-erect



Breeders Reference:	AFP No:
Breeder: Secobra Recherches	Translated from:
Origin:	<b>Date:</b> 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 lodicles ("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



AFP 2/3146 CHESTER

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude two lax to medium medium to long tapering

medium

medium to long medium

divergent full equal

whitish present absent or v. weak long absent clasping

weak to medium absent or very weak medium

intermediate to semi-prostrate short present medium to late strong medium to strong semi-erect to horizontal



AFP 2/2887

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude two medium medium to long tapering

short to medium

medium medium

n/a none or rudimentary longer

whitish present strong long absent clasping

absent or very weak absent or very weak absent or very weak

intermediate short present late strong to very strong medium to strong semi-erect



AFP 2/2743

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows	
Density	
Length	
Shape	

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two medium medium tapering

medium

medium strong

n/a none or rudimentary equal

whitish present strong long absent clasping

weak to medium strong strong

intermediate to semi-prostrate short present medium to late medium to strong medium semi-erect



AFP 2/1983 CYPRESS

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two medium medium parallel

medium (+/- equal to ear)

medium medium

n/a none or rudimentary(deficiens) equal

whitish ("white") present weak (1-2 per nerve) long present clasping ("collar" type)

medium strong strong

semi-prostrate to prostrate medium present medium to late medium weak to medium semi-recurved



Breeders Reference:	AFP No:
Breeder: Sarl Adrien Momont et Fils	Translated from: French
Origin:	Date: 24 March 2015
Code: DAXO	
*Plant - growth habit:	Intermediate to semi prostrate
*Lower leaves - hairiness of leaf sheaths:	Absent
*Time of ear emergence:	
*Flag leaf- anthocyanin colouration of auricles:	Absent or very weak
Frequency of plants with recurved flag leaves:	Low
Flag leaf- glaucosity of sheath:	Medium to srong
*Ear- glaucosity:	Medium to srong
Ear- attitude:	Semi- erect
Ear- length:	Medium
*Ear- number of rows:	More than two
*Ear- density:	Medium to dense
Ear- shape:	Parallel
*Awn- anthocyanin colouration of the tips:	
*Awn- length compared to ear:	Medium to long
Awn- spiculation of margins:	6
*Sterile spikelet-attitude:	
Sterile spikelet-shape of tip:	
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	Equal
Lemma nerves- anthocyanin colouration:	Absent to very weak
*Plant height:	
Collar type:	
Rachis- length of first segment:	Short to medium
Rachis- width of first segment:	Short to medium
Rachis- curvature of first segment:	Weak
Rachis- shape of first segment:	Weak
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:	Long
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Strong
	Strong
Grain- spiculation of outer lateral nerves:	Absort of york work
Grain- anthocyanin colouration of lemma nerves:	Absent oo very weak
*Grain- ventral furrow - presence of hairs:	Present
*Grain- husk:	Present
Grain-length of lodicles ("collar" type only):	Classifier
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Winter
Extra characters:	

\* = Characteristics which should always be included in the description of the variety. 31 March 2015



### 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 srong
*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: Awn- spiculation of margins:	Long
*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:	Equal
*Plant height:	Medium
Collar type:	Weddulli
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:	e
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 lodicles ("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



### AFP 2/2886 ELECTRUM

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude two medium medium tapering

medium

medium medium to strong

n/a none or rudimentary equal

whitish present strong long absent clasping

weak weak to medium weak to medium

intermediate short to medium present early to medium medium to strong medium erect to semi-erect



### AFP 2/2368 ELEMENT

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. more than two medium medium to long parallel

medium

medium weak

n/a n/a longer

weakly coloured present strong to v. strong long present clasping

very weak to weak weak to medium very weak to weak

semi-erect to intermediate short present medium strong medium to strong semi-erect to horizontal



### AFP 2/2383 ESCADRE

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. six dense short parallel

+/- equal to longer

short to medium very weak

n/a n/a longer

whitish ("white") present strong to v. strong long present clasping ("collar" type)

weak weak to medium weak to medium

intermediate long present early medium to strong medium semi-erect to horizontal



Breeders Reference: SE 213/10 WG	<b>AFP No: </b> 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:	C	
*Sterile spikelet-attitude:	n/a	
Sterile spikelet-shape of tip:	n/a	
Sterile spikelet- length of lemma:	n/a	
Median spikelet- length of glume + awn cf grain:	equal	
Lemma nerves- anthocyanin colouration:	absent or very weak	
*Plant height:	medium	
Collar type:		
Rachis- length of first segment:	short	
Rachis- width of first segment:		
Rachis- curvature of first segment:	weak	
Rachis- shape of first segment:		
Rachis(2-row)- humping of segments (mid third):		
Rachis(6-row)- degree of zig-zag (mid third):		
Kernel- colour of aleurone layer:	whitish	
*Grain- rachilla hair type:	long	
Grain- rachilla length:	-	
Grain- rachilla - length of tip hairs:		
Grain- spiculation of inner lateral nerves:	absent or very weak	
Grain-spiculation of outer lateral nerves:		
Grain- anthocyanin colouration of lemma nerves:		
*Grain- ventral furrow - presence of hairs:	absent	
*Grain- husk:	present	
Grain- length of lodicles ("collar" type only):	*	
Grain- disposition of lodicules:	collar	
*Seasonal type:	winter	
Extra characters:		
* = Characteristics which should always be included in th	e description of the variety.	28 March 2018

## AFP 2/2895 **FANION**

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude more than two medium short to medium parallel

medium to long

medium medium

n/a n/a longer

strongly coloured present weak to medium long present clasping

absent or very weak absent or very weak absent or very weak

semi-erect to intermediate short present medium strong to very strong weak to medium semi-erect



AFP 2/3034 **FAY** 

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude two lax to medium medium parallel

medium to long

medium medium to strong

parallel full equal

whitish present medium to strong long absent clasping

weak to medium weak to medium weak

intermediate short present early strong medium to strong semi-erect



### AFP 2/2596 FENTARA

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

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

medium (+/- equal to ear)

medium to long weak

divergent full equal

whitish ("white") present weak (1-2 per nerve) long present clasping ("collar" type)

absent to very weak absent or very weak absent to very weak

semi-prostrate medium to long present medium medium erect to semi-erect



# Variety Name: Findora

## Crop: Winter Barley

Breeders Reference:	<b>AFP No:</b> 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:	i vii non or raamonary
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:	very short to short
· -	Short to medium
Rachis- length of first segment:	Short to medium
Rachis- width of first segment:	Madium
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 lodicles ("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



### AFP 2/1910 FLAGON

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two lax to medium long parallel

medium (+/- equal to ear)

medium medium

divergent

equal

whitish ("white") present weak (1-2 per nerve) long absent clasping ("collar" type)

absent or very weak absent to very weak

intermediate to semi-prostrate medium to long present medium medium weak to medium horizontal to semi-recurved



### AFP 2/2664 FLETCHER

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. more than two dense short to medium parallel

medium to long

short to medium weak

n/a n/a equal

whitish present strong to v. strong long present clasping

weak to medium weak weak to medium

intermediate to semi-prostrate long present medium strong medium to strong semi-erect



### AFP 2/2392 FLORENTINE

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two lax medium to long tapering

medium (+/- equal to ear)

medium medium to strong

n/a none or rudimentary(deficiens) equal

whitish ("white") present absent/v. weak (0-2 per nerve) long absent clasping ("collar" type)

medium medium medium

intermediate to semi-prostrate short to medium present medium to late medium weak semi-erect



AFP 2/2807 FUNKY

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. more than two dense short parallel

long

short medium to strong

n/a n/a longer

whitish present strong to v. strong long present clasping

absent or very weak absent or very weak absent or very weak

intermediate to semi-prostrate short present medium medium to strong strong semi-erect



### AFP 2/2594 GALATION

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. more than two medium short to medium parallel

medium

short to medium weak

n/a n/a equal

weakly coloured present strong long absent clasping

absent or very weak weak to medium weak

semi-prostrate medium to long present medium medium to strong medium to strong erect to semi-erect



# AFP 2/2583 **HARLEQUIN**

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two lax medium tapering

shorter to +/- equal

medium medium

parallel full equal

strongly coloured ("blue") present v. weak to weak long present clasping ("collar" type)

absent to very weak absent or very weak absent to very weak

semi-prostrate medium present early to medium medium weak to medium semi-erect to horizontal



### AFP 2/2899 HIVERAC

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude two lax to medium long tapering

short

medium to long medium

n/a none or rudimentary equal

whitish present medium to strong long absent clasping

absent or very weak absent or very weak absent or very weak

semi-erect to intermediate short present medium to late medium medium erect to semi-erect



## Variety Name: Jakubus

### Crop: Winter Barley

Breeders Reference: NORD 12119/102	AFP No:
Breeder: Nordsaat Saatzucht gMBh	Translated from: Polish
Origin:	<b>Date:</b> 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:	C C
*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:	Long
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Strong
Grain- spiculation of outer lateral nerves:	Strong
Grain- anthocyanin colouration of lemma nerves:	
*Grain- ventral furrow - presence of hairs:	Present
*Grain- husk:	Present
Grain- length of lodicles ("collar" type only):	1 1030111
Grain- disposition of lodicules:	Classing
•	Clasping Winter
*Seasonal type:	w mer
Extra characters:	

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

NIAB

06 May 2020

### AFP 2/3035 **JEANIE**

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude two lax to medium medium tapering

medium to long

medium medium to strong

n/a none or rudimentary equal

whitish present strong long absent clasping

strong strong to very strong medium to strong

intermediate to semi-prostrate short to medium present early to medium strong medium to strong semi-erect to horizontal



### AFP 2/2821 **JETTOO**

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude more than two medium short to medium parallel

#### long

medium weak to medium

n/a n/a longer

whitish present strong to v. strong long absent clasping

weak medium medium

intermediate to semi-prostrate medium present medium medium to strong medium semi-erect to horizontal



### AFP 2/3041 JORDAN

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude two very lax to lax medium to long tapering

medium to long

medium to long strong

n/a none or rudimentary equal

whitish present weak to medium long absent clasping

absent or very weak absent or very weak absent or very weak

intermediate to semi-prostrate short to medium present medium weak to medium weak to medium semi-erect to horizontal



### AFP 2/2755 KATHMANDU

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two lax medium to long tapering

short

medium to long strong

n/a none or rudimentary equal

whitish present strong to v. strong long absent clasping

absent or very weak absent or very weak absent or very weak

intermediate short present early weak weak to medium semi-erect to horizontal



# Variety Name: KWS Astaire

Crop:

Breeders Reference:	<b>AFP No:</b> 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:	Abent 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:	Aabsent or very weak
*Awn- length compared to ear:	Medium to long
Awn- spiculation of margins:	C
*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:	Modulin to long
Rachis- curvature of first segment:	Medium to strong
Rachis- shape of first segment:	Wedduil to strong
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:	Long
Grain- rachilla - length of tip hairs:	
	Medium
Grain- spiculation of inner lateral nerves:	Medium
Grain- spiculation of outer lateral nerves:	Absort or yory week
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 lodicules:	Clasping
*Seasonal type:	Winter
Extra characters:	

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



### AFP 2/3154 KWS AVENIR

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude more than two medium short to medium parallel

long

medium medium

n/a n/a equal

whitish present strong to v. strong long present clasping

absent or very weak absent or very weak absent or very weak

intermediate to semi-prostrate medium present medium strong strong semi-erect



### AFP 2/2650 KWS CAPELLA

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two very lax to lax short to medium tapering

medium to long

medium medium

n/a none or rudimentary equal

whitish present v. weak to weak long absent clasping

absent or very weak absent or very weak very weak to weak

semi-prostrate short to medium present late medium weak to medium semi-erect



### AFP 2/2802 KWS CARBIS

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two lax medium tapering

medium

medium medium to strong

n/a none or rudimentary equal

strongly coloured present absent or v. weak long present clasping

absent or very weak absent or very weak absent or very weak

intermediate to semi-prostrate very short to short present medium to late medium weak semi-erect



### AFP 2/2967 KWS CARIBOU

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude two lax to medium medium tapering

medium

long strong

n/a none or rudimentary equal

whitish present absent or v. weak long absent clasping

absent or very weak absent or very weak absent or very weak

intermediate short absent medium to late medium to strong weak to medium 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:	2
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:	Wedfulli
*Sterile spikelet-attitude:	
-	NA
Sterile spikelet-shape of tip: Sterile gnikelet - length of lemme:	NA
Sterile spikelet- length of lemma:	Freed
Median spikelet- length of glume + awn cf grain:	Equal
Lemma nerves- anthocyanin colouration:	Absent or vey 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 lodicles ("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



### AFP 2/2309 KWS CASSIA

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two lax medium parallel

medium (+/- equal to ear)

short weak to medium

n/a none or rudimentary(deficiens) equal

strongly coloured ("blue") present absent/v. weak (0-2 per nerve) long present clasping ("collar" type)

very weak to weak absent or very weak absent to very weak

semi-erect to intermediate short to medium present medium to late medium to strong weak to medium semi-erect to horizontal



### AFP 2/2804 KWS CRESWELL

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two lax medium tapering

long

medium to long strong

n/a none or rudimentary equal

whitish present weak to medium long absent clasping

absent or very weak absent or very weak absent or very weak

intermediate to semi-prostrate short present medium medium weak semi-erect



### AFP 2/2970 KWS FARO

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude more than two medium to dense short to medium parallel

medium

medium weak

n/a n/a shorter

whitish present medium to strong long absent clasping

weak very weak to weak weak

intermediate short to medium present early to medium strong to very strong weak erect to semi-erect



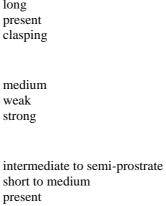
### AFP 2/3222 **KWS FEERIS**

### **CHARACTERS IN DETAIL**

#### Ea

Ear	
Number of rows	more than two
Density	dense
Length	short to medium
Shape	parallel
Awn	
Length compared to ear	medium to long
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

medium to late strong to very strong strong erect to semi-erect





Plant - length

Ear - glaucosity

Ear - attitude

Lower leaf - hairiness of sheaths

Flag leaf - glaucosity of sheath

Time of ear emergence

### AFP 2/2969 KWS GIMLET

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude two very lax to lax long to very long tapering

short to medium

long strong

n/a none or rudimentary equal

whitish present v. weak to weak long absent clasping

absent or very weak absent or very weak absent or very weak

intermediate medium absent medium medium to strong weak to medium horizontal



### AFP 2/2523 KWS GLACIER

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two lax medium tapering

medium (+/- equal to ear)

medium medium

n/a none or rudimentary(deficiens) equal

strongly coloured ("blue") present absent/v. weak (0-2 per nerve) long present clasping ("collar" type)

absent to very weak absent or very weak absent to very weak

intermediate short to medium present medium to late medium medium to strong erect to semi-erect



### AFP 2/3050 KWS HAWKING

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude two lax medium to long tapering

medium

medium to long medium to strong

n/a none or rudimentary equal

whitish present v. weak to weak long absent clasping

absent or very weak absent or very weak absent or very weak

intermediate to semi-prostrate short to medium absent medium strong weak to medium semi-erect



### AFP 2/2650 KWS INFINITY

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two very lax to lax short to medium tapering

medium to long

medium medium

n/a none or rudimentary equal

whitish present v. weak to weak long absent clasping

absent or very weak absent or very weak very weak to weak

semi-prostrate short to medium present late medium weak to medium semi-erect



### AFP 2/2521 KWS JOY

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two lax medium tapering

medium (+/- equal to ear)

long strong

parallel to weakly divergent full equal

whitish ("white") present medium (3-5 per nerve) short absent clasping ("collar" type)

absent to very weak absent or very weak absent to very weak

intermediate to semi-prostrate short present late strong medium semi-erect



### AFP 2/3153 KWS JOYAU

### **CHARACTERS IN DETAIL**

#### Ear

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	
Rachis		
Length of first segment	medium	
Curvature of first segment	weak	
C		
Spikelet		
Sterile spikelet - attitude	n/a	
Sterile spikelet - development	n/a	
Median spikelet - length of glume+awn cf grain	equal	
	1	
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	
1.		
Anthocyanin colouration		
Flag leaf - auricles	weak	
Lemma nerves - at early dough	weak	
Awn tips	weak to medium	
1		
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	

Lower leaf - hairiness of sheath Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude short to medium present early to medium medium to strong medium semi-erect to horizontal



### AFP 2/2436 KWS MERIDIAN

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

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

medium (+/- equal to ear)

medium strong

n/a n/a longer

whitish ("white") present strong to v. strong long absent clasping ("collar" type)

absent to very weak absent or very weak absent to very weak

semi-erect to intermediate medium to long present medium strong medium to strong semi-erect



### AFP 2/2879 KWS MOSELLE

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude two lax to medium medium to long tapering

medium

medium to long medium

n/a none or rudimentary equal

whitish present absent or v. weak long present clasping

absent or very weak absent or very weak absent or very weak

intermediate short present medium strong weak to medium semi-erect



### AFP 2/3119 KWS OASIS

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude two very lax long to very long tapering

short

medium medium to strong

n/a none or rudimentary equal

strongly coloured present weak to medium long absent clasping

absent or very weak absent or very weak absent or very weak

intermediate to semi-prostrate short to medium present early to medium medium to strong very weak to weak semi-erect



# AFP 2/2728 **KWS ORWELL**

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two lax medium tapering

medium

long medium

n/a none or rudimentary equal

whitish present absent or v. weak long absent clasping

absent or very weak absent or very weak absent or very weak

intermediate very short to short present medium to late weak weak erect to semi-erect



### AFP 2/3051 KWS PATRIOT

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude two medium medium to long tapering

short to medium

medium medium to strong

n/a none or rudimentary equal

whitish present v. weak to weak long absent clasping

absent or very weak very weak to weak absent or very weak

intermediate to semi-prostrate short to medium present medium to late medium to strong medium erect to semi-erect



Crop:

Breeders Reference:	<b>AFP No:</b> 2/2730
Breeder:	Translated from:
Origin:	Date: 24 March 2015
<b>Code:</b> 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:	Equi
*Plant height:	Medium
Collar type:	Weddulli
Rachis- length of first segment:	Medium to long
Rachis- width of first segment:	Weaturn to long
Rachis- curvature of first segment:	Medium
Rachis- shape of first segment:	Weddulli
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
	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:	A1 / 1
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 lodicules:	Clasping
*Seasonal type:	Winter
Extra characters:	

\* = Characteristics which should always be included in the description of the variety. 20 May 2015



### AFP 2/2433 KWS SALSA

#### **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two medium medium tapering

medium to long

medium to long weak to medium

n/a none or rudimentary equal

whitish present absent or v. weak long present clasping

absent or very weak absent or very weak absent or very weak

semi-erect to intermediate short to medium present medium to late weak to medium weak to medium semi-erect



# AFP 2/3318 KWS SYNTHESIS

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

## Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude two very sparse to sparse long tapering

short

medium to long medium

n/a none or rudimentary equal

whitish husked absent or v. weak long absent clasping

absent or very weak absent or very weak absent or very weak

semi-prostrate medium to long absent late medium weak semi-erect



# AFP 2/3120 KWS TARDIS

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

# Rachis

Length of first segment Curvature of first segment

# Spikelet

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

# Grain

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

#### Anthocyanin colouration

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

# Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude two lax to medium long tapering

short to medium

medium medium to strong

n/a none or rudimentary equal

whitish present strong to v. strong short present clasping

absent or very weak absent or very weak absent or very weak

intermediate to semi-prostrate short present medium to late strong medium semi-erect



# AFP 2/3052 KWS TERRIER

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

# Grain

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

# Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude two lax long tapering

short to medium

medium strong

n/a none or rudimentary equal

strongly coloured present v. weak to weak long present clasping

absent or very weak absent or very weak absent or very weak

intermediate to semi-prostrate short absent medium medium to strong very weak to weak semi-erect



# AFP 2/2580 KWS TONIC

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

# Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

# Grain

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

# Anthocyanin colouration

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

# Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. more than two dense medium parallel

medium

short to medium very weak

n/a n/a longer

whitish present strong to v. strong long present clasping

very weak to weak weak to medium medium

intermediate to semi-prostrate medium present early to medium medium to strong medium to strong semi-erect



# AFP 2/2725 KWS TOWER

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

# Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

# Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two lax medium to long tapering

medium

long strong

n/a none or rudimentary equal

whitish present weak to medium long absent clasping

absent or very weak absent or very weak absent or very weak

intermediate to semi-prostrate short to medium present medium to late medium weak erect to semi-erect



# AFP 2/3306 LG CAMPUS

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

# Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

# Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude two medium medium to long tapering

short

short to medium medium

n/a none or rudimentary equal

whitish husked v. weak to weak long absent clasping

absent or very weak absent or very weak absent or very weak

semi-prostrate medium present medium to late medium to strong very weak to weak semi-erect to horizontal



# AFP 2/3394 LG CAPITOL

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

# Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

## Grain

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

#### Anthocyanin colouration

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

# Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude two medium to dense medium to long tapering

short to medium

medium medium

n/a none or rudimentary equal

whitish husked v. weak to weak long present clasping

absent or very weak absent or very weak absent or very weak

intermediate to semi-prostrate short to medium present medium to late medium medium semi-erect



# AFP 2/3305 LG CARAVELLE

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

# Rachis

Length of first segment Curvature of first segment

# Spikelet

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

# Grain

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

#### Anthocyanin colouration

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

# Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude two medium to dense short to medium tapering

medium to long

short to medium weak to medium

n/a none or rudimentary equal

whitish husked absent or v. weak long present clasping

absent or very weak absent or very weak absent or very weak

semi-prostrate short to medium absent medium strong medium to strong semi-erect



# Variety Name: LG Caspari

# Crop: Winter Barley

Breeders Reference: 0-6677-c/	AFP No:
Breeder: LIMAGRAIN GmbH	Translated from: French
Origin:	Date: 30 April 2020
Code: CASP	
*Plant - growth habit:	Semi prostrate
*Lower leaves - hairiness of leaf sheaths:	Present
*Time of ear emergence:	Early
*Flag leaf- anthocyanin colouration of auricles:	Absent or very weak
Frequency of plants with recurved flag leaves:	Medium to high
Flag leaf- glaucosity of sheath:	Medium
*Ear- glaucosity:	Medium to strong
Ear- attitude:	Semi erect to horizontal
Ear- length:	Medium
*Ear- number of rows:	Two
*Ear- density:	Medium
Ear- shape:	Parallel
*Awn- anthocyanin colouration of the tips:	
*Awn- length compared to ear:	Medium to long
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	NA
Sterile spikelet-shape of tip:	
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	Equal
Lemma nerves- anthocyanin colouration:	Absent or very weak
*Plant height:	Long
Collar type:	
Rachis- length of first segment:	Short to medium
Rachis- width of first segment:	
Rachis- curvature of first segment:	Weak to medium
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Whitish
*Grain- rachilla hair type:	Long
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Weak
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	
*Grain- ventral furrow - presence of hairs:	Absent
*Grain- husk:	Present
Grain- length of lodicles ("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

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 lodicules:	Clasping
*Seasonal type:	Winter
Extra characters:	

\* = Characteristics which should always be included in the description of the variety. 04 May 2022



# AFP 2/3215 LG DAZZLE

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

# Rachis

Length of first segment Curvature of first segment

# Spikelet

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

# Grain

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

#### Anthocyanin colouration

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

# Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude two lax long tapering

short

medium to long strong to very strong

n/a none or rudimentary equal

strongly coloured present absent or v. weak long absent clasping

absent or very weak absent or very weak absent or very weak

intermediate to semi-prostrate short present medium to late strong medium semi-erect to horizontal



# AFP 2/3218 LG DRACULA

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

# Rachis

Length of first segment Curvature of first segment

# Spikelet

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

# Grain

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

#### Anthocyanin colouration

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

# Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude two very lax to lax medium to long tapering

medium

long strong

n/a none or rudimentary equal

whitish present weak long absent clasping

absent or very weak absent or very weak absent or very weak

intermediate to semi-prostrate short present medium medium to strong weak horizontal to semi-recurved



# AFP 2/2974 LG FLYNN

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

# Grain

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

# Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude two lax medium to long tapering

short to medium

medium to long medium to strong

n/a none or rudimentary equal

whitish present medium long absent clasping

medium to strong strong

intermediate short to medium present medium to late medium to strong weak to medium semi-erect



# AFP 2/3124 LG GLOBETROTTER

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

# Rachis

Length of first segment Curvature of first segment

# Spikelet

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

# Grain

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

#### Anthocyanin colouration

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

# Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude

## two lax long tapering

short

medium weak to medium

n/a none or rudimentary equal

strongly coloured present absent or v. weak long present clasping

absent or very weak absent or very weak absent or very weak

intermediate to semi-prostrate medium present medium to late weak to medium weak to medium erect to semi-erect



# AFP 2/3059 LG INVENTOR

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

# Rachis

Length of first segment Curvature of first segment

# Spikelet

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

# Grain

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

#### Anthocyanin colouration

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

# Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude two lax to medium medium tapering

medium

medium to long medium to strong

n/a none or rudimentary equal

whitish present absent or v. weak long absent clasping

absent or very weak absent or very weak absent or very weak

intermediate short to medium absent medium to late medium to strong medium erect to semi-erect



# AFP 2/2976 LG MOUNTAIN

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

# Grain

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

# Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude two medium medium to long tapering

short to medium

medium medium to strong

n/a none or rudimentary equal

strongly coloured present v. weak to weak long present clasping

absent or very weak absent or very weak absent or very weak

semi-erect to intermediate short present medium medium to strong medium erect to semi-erect



# AFP 2/3216 LG PRODIGY

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

# Rachis

Length of first segment Curvature of first segment

# Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

# Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude two very lax to lax long to very long tapering

short

long strong

n/a none or rudimentary equal

strongly coloured present weak long absent clasping

absent or very weak absent or very weak absent or very weak

intermediate to semi-prostrate short to medium present medium to late medium medium semi-erect to horizontal



# AFP 2/2809 LG RAPTURE

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

# Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two medium medium tapering

medium

medium medium

n/a none or rudimentary equal

strongly coloured present absent or v. weak long absent clasping

absent or very weak absent or very weak absent or very weak

intermediate to semi-prostrate very short to short present medium to late medium weak to medium semi-erect



AFP 2/2890

# **CHARACTERS IN DETAIL**

## Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

# Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude more than two medium short to medium parallel

medium

medium weak to medium

n/a n/a 50% equal:50% longer (segregation)

50% coloured:50% whitish (segregation) present strong long present clasping

medium weak to medium medium

semi-erect to intermediate medium to long present early to medium strong medium semi-erect to horizontal



# AFP 2/3239 LIGHTNING

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

# Rachis

Length of first segment Curvature of first segment

# Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

# Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude two very lax to lax long tapering

short

medium strong

# n/a none or rudimentary equal

whitish present v. weak to weak long absent clasping

absent or very weak absent or very weak absent or very weak

intermediate to semi-prostrate short to medium present medium to late medium weak to medium semi-erect to horizontal



# Variety Name: Lucienne

Crop:

Breeders Reference:	<b>AFP No:</b> 2/2885
Breeder: LS Plant Breeding Ltd	Translated from: German
Origin:	Date: 23 March 2017
Code: LUCI	
*Plant - growth habit:	Semi prostrate
*Lower leaves - hairiness of leaf sheaths:	Present
*Time of ear emergence:	Medium
*Flag leaf- anthocyanin colouration of auricles:	Medium
Frequency of plants with recurved flag leaves:	
Flag leaf- glaucosity of sheath:	Strong
*Ear- glaucosity:	Absent or very weak
Ear- attitude:	Semi erect to horizontal
Ear- length:	Short
*Ear- number of rows:	More than two
*Ear- density:	Medium
Ear- shape:	Parallel
*Awn- anthocyanin colouration of the tips:	Medium to strong
*Awn- length compared to ear:	Long
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	
Sterile spikelet-shape of tip:	
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	
Lemma nerves- anthocyanin colouration:	
*Plant height:	Long to very long
Collar type:	
Rachis- length of first segment:	Medium to long
Rachis- width of first segment:	inculum to rong
Rachis- curvature of first segment:	Weak to medium
Rachis- shape of first segment:	weak to medium
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:	Long
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Weak to medium
Grain- spiculation of outer lateral nerves:	weak to medium
Grain- anthocyanin colouration of lemma nerves:	
	Present
*Grain- ventral furrow - presence of hairs: *Grain- husk:	Present Present
	FIESEIII
Grain- length of lodicles ("collar" type only):	Cleaning
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



# AFP 2/2955 MACKIE

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

# Grain

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

# Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude two lax to medium medium tapering

medium

medium to long strong

n/a none or rudimentary equal

whitish present weak to medium long absent clasping

absent or very weak absent or very weak absent or very weak

intermediate short to medium present medium to late medium to strong weak erect to semi-erect



# AFP 2/2736 MALTESSE

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

# Grain

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

# Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two medium medium tapering

medium

medium to long strong

n/a none or rudimentary equal

weakly coloured present absent or v. weak long absent clasping

absent or very weak absent or very weak absent or very weak

intermediate to semi-prostrate very short to short present medium to late medium medium semi-erect



# AFP 2/232 MARIS OTTER

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

# Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

# Grain

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

# Anthocyanin colouration

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

#### Plant growth characters

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

long (longer than ear)

medium to long weak to medium

# divergent

equal

whitish ("white") present absent/v. weak (0-2 per nerve) long absent clasping ("collar" type)

strong medium medium

semi-prostrate to prostrate short present late to very late medium medium horizontal



# AFP 2/2452 MATROS

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

# Grain

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

# Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two lax to medium medium to long parallel

medium (+/- equal to ear)

short to medium medium

n/a none or rudimentary(deficiens) equal

whitish ("white") present absent/v. weak (0-2 per nerve) long absent clasping ("collar" type)

very strong strong to very strong strong to very strong

intermediate to semi-prostrate medium present medium to late medium to strong strong semi-recurved to recurved



# AFP 2/2382 MEGANE

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

# Grain

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

# Anthocyanin colouration

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

# Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. more than two medium to dense medium parallel

medium to long

medium very weak

n/a n/a longer

whitish present strong to v. strong long present clasping

absent or very weak absent or very weak absent or very weak

intermediate medium to long present early strong medium to strong horizontal



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 orvery weak		
*Grain- ventral furrow - presence of hairs:	Present		
*Grain- husk:	Present		
Grain- length of lodicles ("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



# AFP 2/2514 MEZMAAR

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

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

medium (+/- equal to ear)

medium medium

n/a none or rudimentary(deficiens) equal

whitish ("white") present strong (5-10 per nerve) long absent clasping ("collar" type)

absent to very weak absent or very weak absent to very weak

intermediate medium present medium to late medium to strong medium 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 lodicles ("collar" type only):		
Grain- disposition of lodicules:	Clasping	
*Seasonal type:	Winter	
Extra characters:		
* = Characteristics which should always be included in the o	description of the variety.	06 May 2020



# AFP 2/3036

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

# Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

# Grain

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

#### Anthocyanin colouration

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

# Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude two lax medium tapering

medium to long

medium to long strong

n/a none or rudimentary equal

whitish present absent or v. weak long absent clasping

absent or very weak absent or very weak absent or very weak

intermediate to semi-prostrate short present medium to late strong weak to medium erect to semi-erect



AFP 2/1318 **PEARL** 

# **CHARACTERS IN DETAIL**

#### Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

# Anthocyanin colouration

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

#### Plant growth characters

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

long (longer than ear)

medium medium

divergent

equal

strongly coloured ("blue") present medium (3-5 per nerve) long absent clasping ("collar" type)

medium to strong very weak to weak weak to medium

intermediate medium to long present late strong to very strong strong semi-erect to horizontal



# AFP 2/2077 **PELICAN**

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

# Grain

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

# Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. more than two dense medium to long

medium to long

medium weak to medium

longer

weakly coloured present medium long absent clasping

absent or very weak weak very weak to weak

intermediate to semi-prostrate long present medium to late medium to strong medium erect to semi-erect



AFP 2/2651 PERSEUS

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

# Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two lax short to medium tapering

medium

medium medium to strong

n/a none or rudimentary equal

strongly coloured present strong to v. strong long present clasping

strong strong to very strong strong

semi-prostrate short present medium medium medium to strong semi-erect



AFP 2/3131 **PIXIE** 

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

# Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

## Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude two medium medium tapering

medium

short to medium strong

n/a none or rudimentary equal

whitish present absent or v. weak long present clasping

absent or very weak absent or very weak absent or very weak

intermediate to semi-prostrate very short to short present late strong strong semi-erect



AFP 2/2306 PURDEY

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two lax medium to long parallel

shorter to +/- equal

medium medium

parallel to weakly divergent full equal

weakly coloured present strong (5-10 per nerve) long present clasping ("collar" type)

absent to very weak absent or very weak absent to very weak

semi-prostrate to prostrate short to medium present medium strong weak semi-erect to horizontal



# AFP 2/2671 QUADRIGA

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

# Grain

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

# Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. more than two dense short to medium parallel

long

medium medium

n/a none or rudimentary equal

whitish present strong long present clasping

absent or very weak absent or very weak weak

intermediate to semi-prostrate long present late medium to strong medium to strong 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
<b>Code:</b> 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:	Mor ethan 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 cf 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 lodicles ("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



# AFP 2/3420 **RESOLUTE**

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

# Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

# Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude two sparse to medium medium tapering

medium

long weak to medium

n/a none or rudimentary equal

whitish husked absent or v. weak long absent clasping

absent or very weak absent or very weak absent or very weak

semi-prostrate medium present medium weak to medium weak erect to semi-erect



# AFP 2/2065 **RETRIEVER**

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

# Grain

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

# Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two lax medium tapering

medium (+/- equal to ear)

medium medium

n/a none or rudimentary(deficiens) equal

whitish ("white") present medium to strong long absent clasping ("collar" type)

medium strong strong

intermediate to semi-prostrate short present early medium weak to medium semi-erect



AFP 2/3130

# **CHARACTERS IN DETAIL**

## Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

# Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

## Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude two lax to medium long tapering

short

medium medium

n/a none or rudimentary equal

whitish present v. weak to weak long absent clasping

absent or very weak absent or very weak absent or very weak

intermediate to semi-prostrate very short to short present medium to late medium to strong medium semi-erect



# Variety Name: Rubinesse

# Crop: Winter Barley

Breeders Reference: SC 82909 NH	AFP No:
Breeder: Secobra Recherches S A	Translated from: German
Origin:	Date: 28 March 2017
Code: RUBI	
*Plant - growth habit:	Intermediate
*Lower leaves - hairiness of leaf sheaths:	Present
*Time of ear emergence:	Late
*Flag leaf- anthocyanin colouration of auricles:	Strong to very strong
Frequency of plants with recurved flag leaves:	
Flag leaf- glaucosity of sheath:	Medium to strong
*Ear- glaucosity:	Strong
Ear- attitude:	Semi erect to horizontal
Ear- length:	Medium
*Ear- number of rows:	Two
*Ear- density:	Medium to dense
Ear- shape:	Tapering to parallel
*Awn- anthocyanin colouration of the tips:	Very srong
*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:	C
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 lodicles ("collar" type only):	
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Winter
Extra characters:	
Lati u chur ucters.	

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



Breeders Reference:	<b>AFP No:</b> 2/2231
Breeder: Saatzucht Filbeck	Translated from: German
Origin:	Date: 29 November 2007
Code: SABI	
*Plant - growth habit:	intermediate
*Lower leaves - hairiness of leaf sheaths:	present
*Time of ear emergence:	late
*Flag leaf- anthocyanin colouration of auricles:	absent or very weak
Frequency of plants with recurved flag leaves:	high to very high
Flag leaf- glaucosity of sheath:	strong
*Ear- glaucosity:	weak to medium
Ear- attitude:	semi-erect to horizontal
Ear-length:	medium to long
*Ear- number of rows:	two
*Ear- density:	medium to dense
Ear- shape:	parallel
*Awn- anthocyanin colouration of the tips:	absent or very weak
*Awn- length compared to ear:	short to medium (shorter to +/- equal to ear)
Awn- spiculation of margins:	· · · ·
*Sterile spikelet-attitude:	parallel
Sterile spikelet-shape of tip:	
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	equal
Lemma nerves- anthocyanin colouration:	1
*Plant height:	medium
Collar type:	
Rachis- length of first segment:	long to very long
Rachis- width of first segment:	898
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:	10115
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	weak (1-2 per nerve)
Grain- spiculation of outer lateral nerves:	weak (1-2 per herve)
Grain- anthocyanin colouration of lemma nerves:	absort or vory wook
	absent or very weak
*Grain- ventral furrow - presence of hairs: *Grain- husk:	absent
	present
Grain-length of lodicles ("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



AFP 2/1880 SAFFRON

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

# Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two medium medium parallel

medium (+/- equal to ear)

short to medium medium

n/a none or rudimentary(deficiens) equal

strongly coloured ("blue") present weak to medium long present clasping ("collar" type)

absent or very weak

intermediate short to medium present medium medium to strong absent or very weak semi-erect to horizontal



# AFP 2/2228 **SALLING**

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two lax medium parallel

medium to long

medium to long medium to strong

parallel to weakly divergent full equal

strongly coloured present absent or v. weak long present clasping

absent or very weak absent or very weak absent or very weak

semi-prostrate short to medium present early to medium strong weak to medium semi-erect to horizontal

Variety Name: SANDRA



#### 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 lodicles ("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



Crop:

Breeders Reference: LEU73203	AFP No:
Breeder: Deutssche Saatveredelung	Translated from:
Origin:	Date: 27 May 2020
<b>Code:</b> 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:	5
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:	T draher
*Awn- length compared to ear:	Long
Awn- spiculation of margins:	Long
*Sterile spikelet-attitude:	NA
Sterile spikelet-shape of tip:	NA
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	Equal
Lemma nerves- anthocyanin colouration:	Equal
*Plant height:	
8	
Collar type: Dashia length of first accoments	Madium to long
Rachis- length of first segment:	Medium to long
Rachis- width of first segment:	Weak to medium
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):	XX 71. *** 1
Kernel- colour of aleurone layer:	Whitish
*Grain- rachilla hair type:	Short
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	G.
Grain- spiculation of inner lateral nerves:	Strong
Grain- spiculation of outer lateral nerves:	XX7 1
Grain- anthocyanin colouration of lemma nerves:	Weak
*Grain- ventral furrow - presence of hairs:	Absent
*Grain- husk:	Present
Grain- length of lodicles ("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



# AFP 2/1717 **SEQUEL**

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

# Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. six medium short to medium tapering to parallel

long (longer than ear)

short weak

equal

whitish ("white") present strong (5-10 per nerve) long present clasping ("collar" type)

weak to medium weak weak to medium

intermediate to semi-prostrate medium present medium to strong medium to strong semi-erect to horizontal



# AFP 2/2742 SHADOW

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

# Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

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

long

medium to long strong

parallel to weakly divergent full equal

weakly coloured present medium long absent clasping

absent or very weak absent or very weak absent or very weak

intermediate to semi-prostrate short to medium present late medium to strong medium to strong erect to semi-erect



# AFP 2/2091 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 Rachis Length of first segment short Curvature of first segment weak Spikelet Sterile spikelet - attitude Sterile spikelet - development Median spikelet - length of glume+awn cf grain equal Grain Kernel - colour of aleurone layer strongly coloured Husk - presence after harvest present Spiculation of inner lateral nerves strong Rachilla hair type long Ventral furrow - presence of hairs present Disposition of lodicules clasping Anthocyanin colouration Flag leaf - auricles weak to medium Lemma nerves - at early dough very weak to weak weak to medium Awn tips **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



# AFP 2/2454 SINATRA

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

# Grain

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

# Anthocyanin colouration

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

#### Plant growth characters

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

medium (+/- equal to ear)

medium medium

parallel to weakly divergent full equal

whitish ("white") present absent/v. weak (0-2 per nerve) long present clasping ("collar" type)

absent to very weak absent or very weak absent to very weak

intermediate short to medium present medium medium semi-erect



Variety Name: SOBELL

# Crop: Winter Barley

Breeders Reference: SJ 128113	AFP No:
Breeder: SEJET	Translated from: Danish
Origin:	<b>Date:</b> 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 lodicles ("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



# AFP 2/2513 SOLOMAN

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two medium medium tapering

medium (+/- equal to ear)

medium medium

divergent full equal

strongly coloured ("blue") present strong (5-10 per nerve) short absent clasping ("collar" type)

absent to very weak absent or very weak absent to very weak

intermediate to semi-prostrate short to medium present medium strong to very strong medium erect to semi-erect



# AFP 2/3144 SU LAUBELLA

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

# Rachis

Length of first segment Curvature of first segment

# Spikelet

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

# Grain

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

#### Anthocyanin colouration

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

# Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude two lax to medium medium to long tapering

short to medium

medium medium to strong

n/a none or rudimentary equal

whitish present v. weak to weak long absent clasping

absent or very weak absent or very weak absent or very weak

intermediate to semi-prostrate very short to short present early to medium strong absent or very weak semi-erect to horizontal



# AFP 2/2822 SUNNINGDALE

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

# Anthocyanin colouration

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

# Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. more than two medium short parallel

long

medium medium

n/a n/a longer

weakly coloured present strong long absent clasping

absent or very weak absent or very weak absent or very weak

intermediate to semi-prostrate short to medium present medium medium to strong medium semi-erect



AFP 2/2745 SURGE

# **CHARACTERS IN DETAIL**

## Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

# Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two lax short to medium tapering

medium

medium strong

n/a none or rudimentary equal

weakly coloured present v. weak to weak long absent clasping

absent or very weak absent or very weak absent or very weak

intermediate to semi-prostrate very short to short present medium weak to medium weak semi-erect



# AFP 2/2083 SUZUKA

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

# Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two lax medium tapering to parallel

medium (+/- equal to ear)

short to medium medium

parallel none or rudimentary(deficiens) equal

weakly coloured present weak to medium long absent clasping ("collar" type)

absent to very weak absent or very weak absent to very weak

intermediate short to medium present early weak to medium weak semi-erect to horizontal



# AFP 2/2444 SY BAMBOO

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

#### Anthocyanin colouration

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

# Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. more than two medium parallel

medium

medium weak to medium

n/a n/a longer

weakly coloured present strong long absent clasping

weak to medium weak weak to medium

intermediate long to very long present early to medium medium to strong medium semi-erect



AFP 2/2888 SYCKLE

# **CHARACTERS IN DETAIL**

## Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

# Grain

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

# Anthocyanin colouration

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

# Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude two medium medium tapering

medium

medium medium to strong

divergent full equal

whitish present strong long absent clasping

strong medium to strong

intermediate very short to short present medium medium to strong strong semi-erect



Crop:

Breeders Reference: SY 209-66	<b>AFP No:</b> 2/
Breeder: Sygenta Seeds Ltd	Translated from:
Origin: France	<b>Date:</b> 12 October 2012
Code: SYTEP	
*Plant - growth habit:	Semi-prostrate
*Lower leaves - hairiness of leaf sheaths:	Present
*Time of ear emergence: *Final loss on the superior colourstion of our risks.	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 Medium to strong
*Ear- glaucosity: Ear- attitude:	Medium to strong Horizontal
Ear- length: *Ear- number of rows:	Medium to lomg Two
*Ear- density:	Medium
Ear- shape:	Parellel
*Awn- anthocyanin colouration of the tips:	Absent or very weak
*Awn- length compared to ear:	Medium to long
Awn- spiculation of margins:	Medium to long
*Sterile spikelet-attitude:	N/A
Sterile spikelet-shape of tip:	N/A
Sterile spikelet- length of lemma:	N/A
Median spikelet- length of glume + awn cf grain:	Equal
Lemma nerves- anthocyanin colouration:	-1
*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 lodicles ("collar" type only):	
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Winter type
Extra characters:	Ear - Development of sterile spiklets - Non or Rudimentary

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

28 March 2018



# AFP 2/2443 SY VENTURE

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

# Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two medium medium tapering

medium (+/- equal to ear)

medium medium to strong

n/a none or rudimentary(deficiens) equal

whitish ("white") present strong (5-10 per nerve) long absent clasping ("collar" type)

strong very strong strong

intermediate to semi-prostrate short present medium medium erect to semi-erect



# AFP 2/3117 SY VESSEL

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

# Rachis

Length of first segment Curvature of first segment

# Spikelet

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

# Grain

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

#### Anthocyanin colouration

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

# Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude two lax to medium medium to long tapering

medium

medium strong

n/a none or rudimentary equal

whitish present strong to v. strong long absent clasping

strong strong to very strong strong

semi-prostrate short to medium present medium medium to strong medium semi-erect



# AFP 2/2517 TALISMAN

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

# Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two lax medium to long tapering

short (shorter than ear)

medium to long medium to strong

n/a none or rudimentary(deficiens) equal

whitish ("white") present weak (1-2 per nerve) long absent clasping ("collar" type)

strong strong strong

intermediate short to medium present medium to late medium to strong weak to medium erect to semi-erect



AFP 2/2602 TETRIS

# **CHARACTERS IN DETAIL**

## Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

# Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two lax long tapering

short (shorter than ear)

medium to long medium to strong

n/a none or rudimentary(deficiens) equal

whitish ("white") present absent/v. weak (0-2 per nerve) long absent clasping ("collar" type)

weak to medium strong to very strong strong

semi-prostrate medium to long present early to medium medium semi-erect



# AFP 2/2889 TOREROO

# **CHARACTERS IN DETAIL**

# Ear

Ear	
Number of rows	more than two
Density	medium
Length	medium
Shape	parallel
Awn	
Length compared to ear	medium
Rachis	
Length of first segment	medium
Curvature of first segment	weak
Spikelet	
Sterile spikelet - attitude	n/a
Sterile spikelet - development	n/a
Median spikelet - length of glume+awn cf grain	longer
Grain	
Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping
Anthocyanin colouration	
Flag leaf - auricles	medium
Lemma nerves - at early dough	medium
Awn tips	medium
Plant growth characters	
Plant - growth habit	intermediate
Plant - length	medium to long

Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude

medium to long present medium strong medium semi-erect to horizontal



AFP 2/2374 TRICK

# **CHARACTERS IN DETAIL**

## Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

#### Grain

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

# Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two medium medium parallel

medium

medium to long medium to strong

parallel to weakly divergent full equal

whitish present strong to v. strong long absent clasping

absent or very weak absent or very weak absent or very weak

intermediate short to medium present medium medium semi-erect



Crop:

Breeders Reference: BR 11500 R 6	AFP No:
Breeder: Saatzucht Josef Breun	Translated from: German
Origin:	Date: 04 April 2019
Code: Valer	
*Plant - growth habit:	Intermediate to semi-prostrate
*Lower leaves - hairiness of leaf sheaths:	Present
*Time of ear emergence:	Early to medium
*Flag leaf- anthocyanin colouration of auricles:	Absent or very weak
Frequency of plants with recurved flag leaves:	
Flag leaf- glaucosity of sheath:	Strong to very strong
*Ear- glaucosity:	Medium
Ear- attitude:	Semi recurved
Ear-length:	Medium to long
*Ear- number of rows:	Two
*Ear- density:	Medium
Ear- shape:	Parallel
*Awn- anthocyanin colouration of the tips:	Absent or very weak
*Awn- length compared to ear:	Medium
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	Parallel
Sterile spikelet-shape of tip:	
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	
Lemma nerves- anthocyanin colouration:	Equal
*Plant height:	Short to medium
Collar type:	
Rachis- length of first segment:	Medium
Rachis- width of first segment:	
Rachis- curvature of first segment:	Medium to strong
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Whitish
*Grain- rachilla hair type:	Long
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Absent or very weak
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	
*Grain- ventral furrow - presence of hairs:	
*Grain- husk:	
Grain- length of lodicles ("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



**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:	C
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:	5
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 lodicles ("collar" type only):	resolut
Grain- disposition of lodicules:	
*Seasonal type:	Winter
Extra characters:	Winter
EAU a Unal auto 5.	

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

19 April 2023



# 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:	C C
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Absent or very weak
Grain- spiculation of outer lateral nerves:	2
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 lodicules:	Clasping
*Seasonal type:	Winter
Extra characters:	

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



11 April 2019

# AFP 2/2303 WINSOME

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

# Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

# Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two medium medium parallel

medium (+/- equal to ear)

medium strong

divergent full equal

whitish ("white") present v. weak to weak short absent clasping ("collar" type)

weak to medium medium to strong strong

semi-prostrate medium present medium strong weak to medium semi-erect to horizontal



# AFP 2/2135 WINTMALT

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

# Grain

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

#### Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. two medium medium to long tapering to parallel

medium (+/- equal to ear)

medium strong

parallel to weakly divergent full equal

weakly coloured present weak (1-2 per nerve) short absent clasping ("collar" type)

absent to very weak absent or very weak absent to very weak

intermediate to semi-prostrate short present medium to late strong medium semi-erect



Variety Name: Verity

# Crop: Winter Barley

Breeders Reference:	<b>AFP No:</b> 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:	201901
*Plant height:	Long
Collar type:	Long
Rachis- length of first segment:	Medium to long
Rachis- width of first segment:	Wedduin to long
Rachis- curvature of first segment:	Very weak to weak
Rachis- shape of first segment:	very weak to weak
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
	Whitish
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:	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 lodicles ("collar" type only):	
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Winter
Extra characters:	

\* = Characteristics which should always be included in the description of the variety. 09 April 2015

WINTER BARLEY 2015



Breeders Reference: NORD	AFP No:
<b>Breeder:</b> 11060/1	Translated from: German
Origin:	<b>Date:</b> 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:	a
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 lodicules:	Clasping
*Seasonal type:	
Extra characters:	

\* = Characteristics which should always be included in the description of the variety. 06 May 2020



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:	C
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:	Long
*Sterile spikelet-attitude:	
-	
Sterile spikelet-shape of tip: Storile spikelet length of lemma:	
Sterile spikelet- length of lemma:	Ferral
Median spikelet- length of glume + awn cf grain:	Equal Medium
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:	
•	Strong
Grain- anthocyanin colouration of lemma nerves:	Medium
*Grain- ventral furrow - presence of hairs:	Absent
*Grain- husk:	Present
Grain- length of lodicles ("collar" type only):	
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Winter
Extra characters:	
Grain- spiculation of inner lateral nerves: Grain- spiculation of outer lateral nerves: Grain- anthocyanin colouration of lemma nerves: *Grain- ventral furrow - presence of hairs: *Grain- husk: Grain- length of lodicles ("collar" type only): Grain- disposition of lodicules: *Seasonal type:	Medium Absent Present Clasping

\* = Characteristics which should always be included in the description of the variety. 11 April 2019



# AFP 2/2155 **ZZOOM**

# **CHARACTERS IN DETAIL**

# Ear

Number of rows Density Length Shape

#### Awn

Length compared to ear

#### Rachis

Length of first segment Curvature of first segment

#### Spikelet

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

# Grain

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

# Anthocyanin colouration

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

#### Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude more than two medium short to medium parallel

#### long

short to medium absent or very weak

n/a n/a longer

weakly coloured present very strong long present clasping

absent or very weak absent or very weak absent or very weak

semi-erect to intermediate medium to long present early to medium strong medium semi-erect to horizontal

