# 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 ACUTE

# **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



# AFP 2/1886 AMARENA

# CHARACTERS IN DETAIL

CHARACTERS IN DETAIL	
Ear	
Number of rows	more than two
Density	medium to dense
Length	medium to long
Shape	parallel
Awn	
Length compared to ear	medium to long
Rachis	
Length of first segment	short
Curvature of first segment	weak
Spikelet	
Sterile spikelet - attitude	
Sterile spikelet - development	
Median spikelet - length of glume+awn cf grain	longer
Grain	
Kernel - colour of aleurone layer	whitish
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping
Anthocyanin colouration	
Flag leaf - auricles	
Lemma nerves - at early dough Awn tips	absent or very weak
Plant growth characters	
Plant - growth habit	intermediate to semi-prostrate
Plant - length	long
Lower leaf - hairiness of sheaths	present
Time of ear emergence	medium to late
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	medium
Ear - attitude 21 days after ear emerg.	semi-erect to horizontal



# Variety Name: AMISTAR

# Crop: Winter barley

<b>Breeders Reference:</b> 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 more than two Density medium Length medium Shape parallel Awn Length compared to ear medium to long Rachis Length of first segment medium Curvature of first segment weak Spikelet Sterile spikelet - attitude n/a Sterile spikelet - development n/a Median spikelet - length of glume+awn cf grain equal Grain Kernel - colour of aleurone layer whitish Husk - presence after harvest present Spiculation of inner lateral nerves Rachilla hair type long Ventral furrow - presence of hairs absent Disposition of lodicules clasping 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

medium to strong 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 2/3147 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:	Date: 04 May 2020
Code: BORD	
*Plant - growth habit:	Intermediate
*Lower leaves - hairiness of leaf sheaths:	Present
*Time of ear emergence:	Medium
*Flag leaf- anthocyanin colouration of auricles:	Very strong
Frequency of plants with recurved flag leaves:	
Flag leaf- glaucosity of sheath:	Strong
*Ear- glaucosity:	Medium to strong
Ear- attitude:	Semi erect to horizontal
Ear- length:	Medium
*Ear- number of rows:	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:	
Rachis- length of first segment:	Mediun
Rachis- width of first segment:	
Rachis- curvature of first segment:	Strong
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Whitish
*Grain- rachilla hair type:	Long
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Absent or very weak
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	Strong
*Grain- ventral furrow - presence of hairs:	Present
*Grain- husk:	Present
Grain- length of 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.

06 May 2020



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

\* = 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



# Variety Name: CENTAURE

# Crop: Winter Barley

Breeders Reference:	AFP No:
Breeder: Secobra Recherches	Translated from:
Origin:	Date: 15 May 2018
Code: AURE	
*Plant - growth habit: *Lower leaves - hairiness of leaf sheaths: *Time of ear emergence:	Intermediate to semi prostrate Present Medium
*Flag leaf- anthocyanin colouration of auricles:	
Frequency of plants with recurved flag leaves:	
Flag leaf- glaucosity of sheath: *Ear- glaucosity:	Strong to very strong Medium
Ear- attitude:	Semi erect to horizontal
Ear- length:	Medium
*Ear- number of rows:	Non or rudimentary
*Ear- density:	Dense
Ear- shape: *Awn- anthocyanin colouration of the tips:	Tapering to parallel Absent or very weak
*Awn- length compared to ear:	Long
Awn- spiculation of margins:	8
*Sterile spikelet-attitude:	NA
Sterile spikelet-shape of tip:	NA
Sterile spikelet- length of lemma:	NA
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:	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:	XX7 1 / 1'
Grain- spiculation of inner lateral nerves: Grain- spiculation of outer lateral nerves:	Weak to medium
Grain- spicination 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 **CRAFT**

# **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.

# medium tapering

medium

two

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



# Variety Name: Daxor

# Crop: Winter Barley

Breeders Reference:	AFP No:
Breeder: Sarl Adrien Momont et Fils	Translated from: French
Origin:	Date: 24 March 2015
Code: DAXO	
*Plant - growth habit:	Intermediate to semi prostrate
*Lower leaves - hairiness of leaf sheaths:	Absent
*Time of ear emergence:	
*Flag leaf- anthocyanin colouration of auricles:	Absent or very weak
Frequency of plants with recurved flag leaves:	Low
Flag leaf- glaucosity of sheath:	Medium to 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: *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:	Absent to very weak
Collar type:	
Rachis- length of first segment:	Short to medium
Rachis- width of first segment:	Short to medium
Rachis- unvature 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:	2015
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Strong
Grain- spiculation of outer lateral nerves:	2
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):	
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Winter
Extra characters:	

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

31 March 2015



# Variety Name: **DOMINO**

AFP No: Breeders Reference: MH 07 DN 109 Breeder: SARL Translated from: French Date: 04 April 2019 **Origin:** 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: Long Awn- spiculation of margins: \*Sterile spikelet-attitude: Sterile spikelet-shape of tip: Sterile spikelet- length of lemma: Median spikelet- length of glume + awn cf grain: Equal Lemma nerves- anthocyanin colouration: \*Plant height: Medium **Collar type: Rachis- length of first segment: Rachis- width of first segment: Rachis- curvature of first segment: Rachis- shape of first segment:** Rachis(2-row)- humping of segments (mid third): Rachis(6-row)- degree of zig-zag (mid third): 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: 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 Winter \*Seasonal type: **Extra characters:** 

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

11 April 2019

WINTER BARLEY 2018



# 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



# Variety Name: Estoria

AFP No: 2/ Breeders Reference: SE 213/10 WG **Breeder:** Landwirtschaftliche Fachschule Translated from: German Edelhof - Saatzucht Origin: Austria Date: 12 May 2017 Code: ESTO semi prostrate \*Plant - growth habit: \*Lower leaves - hairiness of leaf sheaths: present \*Time of ear emergence: medium \*Flag leaf- anthocyanin colouration of auricles: absent or very weak Frequency of plants with recurved flag leaves: Flag leaf- glaucosity of sheath: weak to medium \*Ear- glaucosity: weak Ear- attitude: semi erect Ear-length: medium to long \*Ear- number of rows: two \*Ear- density: dense to very dense Ear- shape: tapering \*Awn- anthocyanin colouration of the tips: absent or very weak \*Awn- length compared to ear: medium to long Awn- spiculation of margins: \*Sterile spikelet-attitude: n/a Sterile spikelet-shape of tip: n/a Sterile spikelet- length of lemma: n/a Median spikelet- length of glume + awn cf grain: equal Lemma nerves- anthocyanin colouration: absent or very weak **\*Plant height:** medium **Collar type: Rachis- length of first segment:** short **Rachis- width of first segment: Rachis- curvature of first segment:** weak **Rachis- shape of first segment: Rachis(2-row)- humping of segments (mid third): Rachis(6-row)- degree of zig-zag (mid third):** Kernel- colour of aleurone layer: whitish \*Grain- rachilla hair type: long Grain- rachilla length: Grain- rachilla - length of tip hairs: Grain- spiculation of inner lateral nerves: absent or very weak Grain- spiculation of outer lateral nerves: Grain- anthocyanin colouration of lemma nerves: \*Grain- ventral furrow - presence of hairs: absent \*Grain- husk: present **Grain- length of lodicles ("collar" type only):** Grain- disposition of lodicules: collar \*Seasonal type: winter **Extra characters:** 

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

28 March 2018



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:** AFP No: 2/2676 **Breeder:** Translated from: German Origin: Germany Date: 09 April 2015 Code: FIND \*Plant - growth habit: Intermediate \*Lower leaves - hairiness of leaf sheaths: Present \*Time of ear emergence: Early \*Flag leaf- anthocyanin colouration of auricles: Absent or very week Frequency of plants with recurved flag leaves: Low Flag leaf- glaucosity of sheath: Medium \*Ear- glaucosity: Medium Ear- attitude: Semi-erect to horizontal Ear-length: Medium \*Ear- number of rows: Two \*Ear- density: Dense Tapering Ear- shape: Absent or very week \*Awn- anthocyanin colouration of the tips: \*Awn- length compared to ear: Medium Awn- spiculation of margins: \*Sterile spikelet-attitude: N/A - non or rudimentary Sterile spikelet-shape of tip: Sterile spikelet- length of lemma: Median spikelet- length of glume + awn cf grain: Equal Lemma nerves- anthocyanin colouration: Absent or very week **\*Plant height:** Very short to short **Collar type: Rachis- length of first segment:** Short to medium **Rachis- width of first segment: Rachis- curvature of first segment:** Medium **Rachis- shape of first segment: Rachis(2-row)- humping of segments (mid third):** Rachis(6-row)- degree of zig-zag (mid third): Kernel- colour of aleurone layer: Whitish \*Grain- rachilla hair type: Short Grain- rachilla length: Grain- rachilla - length of tip hairs: Grain- spiculation of inner lateral nerves: Very week to week Grain- spiculation of outer lateral nerves: Grain- anthocyanin colouration of lemma nerves: Absent or very week \*Grain- ventral furrow - presence of hairs: Absent \*Grain- husk: Present **Grain- length of 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 long present

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:** Date: 04 May 2020 Code: JAKU \*Plant - growth habit: Intermediate to semi prostrate \*Lower leaves - hairiness of leaf sheaths: Present \*Time of ear emergence: Medium to late \*Flag leaf- anthocyanin colouration of auricles: Absent or very weak Frequency of plants with recurved flag leaves: Flag leaf- glaucosity of sheath: Strong Medium \*Ear- glaucosity: Ear- attitude: Erect Ear-length: Short to medium \*Ear- number of rows: More than two \*Ear- density: Medium Ear- shape: Parallel \*Awn- anthocyanin colouration of the tips: Absent or very weak \*Awn- length compared to ear: Long Awn- spiculation of margins: \*Sterile spikelet-attitude: NA Sterile spikelet-shape of tip: NA Sterile spikelet- length of lemma: NA Median spikelet- length of glume + awn cf grain: Longer Lemma nerves- anthocyanin colouration: Absent or very weak **\*Plant height:** Short to medium **Collar type: Rachis- length of first segment:** Medium **Rachis- width of first segment: Rachis- curvature of first segment:** Weak **Rachis- shape of first segment:** Rachis(2-row)- humping of segments (mid third): Rachis(6-row)- degree of zig-zag (mid third): Kernel- colour of aleurone layer: Weakly coloured \*Grain- rachilla hair type: Long Grain- rachilla length: Grain- rachilla - length of tip hairs: Grain- spiculation of inner lateral nerves: Strong Grain- spiculation of outer lateral nerves: Grain- anthocyanin colouration of lemma nerves: \*Grain- ventral furrow - presence of hairs: Present \*Grain- husk: Present Grain- length of 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.

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

**Breeders Reference:** 

Breeder: KWS UK Ltd

**Origin:** 

Code: KAST

\*Plant - growth habit: \*Lower leaves - hairiness of leaf sheaths: \*Time of ear emergence: \*Flag leaf- anthocyanin colouration of auricles: Frequency of plants with recurved flag leaves: Flag leaf- glaucosity of sheath: \*Ear- glaucosity: Ear- attitude: Ear-length: \*Ear- number of rows: \*Ear- density: Ear- shape: \*Awn- anthocyanin colouration of the tips: \*Awn- length compared to ear: Awn- spiculation of margins: \*Sterile spikelet-attitude: Sterile spikelet-shape of tip: Sterile spikelet- length of lemma: Median spikelet- length of glume + awn cf grain: Very long Lemma nerves- anthocyanin colouration: **\*Plant height:** Medium **Collar type: Rachis- length of first segment: 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: \*Grain- rachilla hair type: Grain- rachilla length: Grain- rachilla - length of tip hairs: 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: Extra characters:

Date: 23 March 2017 Intermediate to semi prostrate Present Medium Abent or very weak Strong to very strong Medium to strong Semi erect Medium More than two Medium Parallel Aabsent or very weak Medium to long

Translated from: German

Crop:

AFP No: 2/2877

Medium to long Medium to strong

Strongly coloured Long

Medium

Absent or very weak Absent Present

Clasping Winter

\* = 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



# 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**

#### 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 dense short to medium parallel medium to long short weak n/a n/a longer whitish present strong to v. strong long present clasping medium weak strong intermediate to semi-prostrate short to medium present medium to late strong to very strong strong erect to semi-erect



# 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**

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

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



Ear - attitude

Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity

# 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.

# tapering

medium

two

lax

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



# Variety Name: KWS Rose

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:	1
*Plant height:	Medium
Collar type:	
Rachis- length of first segment:	Medium to long
Rachis- width of first segment:	6
Rachis- curvature of first segment:	Medium
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	
*Grain- rachilla hair type:	Long
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Very weak to weak
Grain- spiculation of outer lateral nerves:	very weak to weak
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):	i robolit
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 2/3120 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



## 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:	N A
*Sterile spikelet-attitude:	NA
Sterile spikelet-shape of tip:	
Sterile spikelet-length of lemma:	Fruel
Median spikelet- length of glume + awn cf grain:	Equal
Lemma nerves- anthocyanin colouration:	Absent or very weak
*Plant height:	Long
Collar type: Deaking learnth of first accurate	Short to medium
Rachis- length of first segment:	Short to medium
Rachis- width of first segment:	Weak to medium
Rachis- curvature of first segment: 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):	
Kachis(0-10w)- degree of zig-zag (inid tind). 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:	Weak
Grain- spiculation of outer lateral nerves:	Weak
Grain- anthocyanin colouration of lemma nerves:	
*Grain- ventral furrow - presence of hairs:	Absent
*Grain- husk:	Present
Grain- length of lodicles ("collar" type only):	i resent
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Alternative type
Extra characters:	i incontactive type

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

06 May 2020



## 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

### lax long tapering

two

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 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 2/2976 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 2/2890

## LIBRA

#### **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: LG Caspari

## Crop: Winter Barley

Breeders Reference:	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:	Chart to ma diama
Rachis- length of first segment:	Short to medium
Rachis- width of first segment:	We also to use discuss
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:	Weak
Grain- spiculation of inner lateral nerves: Grain- spiculation of outer lateral nerves:	weak
-	
Grain- anthocyanin colouration of lemma nerves: *Grain- ventral furrow - presence of hairs:	Absent
*Grain- ventral furrow - presence of nairs: *Grain- husk:	Present
Grain- length of lodicles ("collar" type only):	1 105011
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Alternative type
Extra characters:	Alternative type
באנו מ כוומו מכוכו א.	

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

19 May 2020



## 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 2/2809 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



## 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:	-
Rachis- curvature of first segment:	Weak to medium
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Weakly coloured
*Grain- rachilla hair type:	Long
Grain- rachilla length:	C 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:	
*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 2/2955 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



## Variety Name: Memento

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

AFP No: Breeders Reference: sc21529ph 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 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



#### WINTER BARLEY

## 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

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:	NY 4
*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:	We also to use discuss
Rachis- curvature of first segment: 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):	
Kachis(0-10w)- degree of zig-zag (init till u). Kernel- colour of aleurone layer:	Whitish
*Grain- rachilla hair type:	
Grain- rachilla length:	Long
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Medium to strong
Grain- spiculation of outer lateral nerves:	Weddull to strong
Grain- spiculation of outer fateral herves: Grain- anthocyanin colouration of lemma nerves:	Medium
*Grain- ventral furrow - presence of hairs:	Absent
*Grain- ventral furrow - presence of nairs: *Grain- husk:	Present
Grain- length of lodicles ("collar" type only):	1105011
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Clasping Alternative
Extra characters:	rnteillauve
LAU a UIAI AUUIS.	

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

19 March 2019



# AFP 2/2065

## **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

## RICKY

### **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

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:	Discourse
*Sterile spikelet-attitude:	Divergent
Sterile spikelet-shape of tip: Storile spikelet, length of lemme:	
Sterile spikelet- length of lemma: Median spikelet- length of glume + awn cf grain:	Equal
Lemma nerves- anthocyanin colouration:	Equal
*Plant height:	Short
Collar type:	Short
Rachis- length of first segment:	Short to medium
Rachis- width of first segment:	Short to medium
Rachis- curvature of first segment:	Medium
Rachis- shape of first segment:	Wouldmin
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:	8
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:	

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

28 March 2017



## Variety Name: Sabine F

## Crop: Winter Barley

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: *Flag loof on the energies of our island	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 weak to medium
*Ear- glaucosity: Ear- attitude:	semi-erect to horizontal
Ear- length:	
*Ear- number of rows:	medium to long 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:	short to medium (shorter to +/- equal to ear)
*Sterile spikelet-attitude:	parallel
Sterile spikelet-shape of tip:	paraner
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	equal
Lemma nerves- anthocyanin colouration:	equal
*Plant height:	medium
Collar type:	inculum
Rachis- length of first segment:	long to very long
Rachis- width of first segment:	iong to very long
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:	whitish ("white")
*Grain- rachilla hair type:	long
Grain- rachilla length:	B
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	weak (1-2 per nerve)
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	absent or very weak
*Grain- ventral furrow - presence of hairs:	absent
*Grain- husk:	present
Grain- length of lodicles ("collar" type only):	r
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

Crop:

Breeders Reference: BAUB 19104	AFP No:
Breeder: Berthold Bauer	Translated from: German
Origin:	Date: 02 April 2015
Code: SANDR	
*Plant - growth habit:	Intermediate to semiprostrate
*Lower leaves - hairiness of leaf sheaths:	Present
*Time of ear emergence:	Medium
*Flag leaf- anthocyanin colouration of auricles:	Absent or very weak
Frequency of plants with recurved flag leaves:	High
Flag leaf- glaucosity of sheath:	Medium to strong
*Ear- glaucosity:	Weak to medium
Ear- attitude:	Horizontal to semi-recurved
Ear-length:	Medium
*Ear- number of rows:	Two
*Ear- density:	Medium
Ear- shape:	Tapering to parallel
*Awn- anthocyanin colouration of the tips:	Absent or very weak
*Awn- length compared to ear:	Medium
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	Parallel
Sterile spikelet-shape of tip:	
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	Equal
Lemma nerves- anthocyanin colouration:	
*Plant height:	
Collar type:	
Rachis- length of first segment:	Medium
Rachis- width of first segment:	
Rachis- curvature of first segment:	Weak
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Whitish
*Grain- rachilla hair type:	Long
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Absent or very weak
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	Absent or very weak
*Grain- ventral furrow - presence of hairs:	Absent
*Grain- husk:	Present
Grain- length of lodicles ("collar" type only):	
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Winter
Extra characters:	
* - Characteristics which should always be included in th	a description of the variaty 28 March 201

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



# 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**

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
	1
Grain	
Kernel - colour of aleurone layer	strongly coloured
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping
Anthocyanin colouration	
Flag leaf - auricles	weak to medium
Lemma nerves - at early dough	very weak to weak
Awn tips	weak to medium
Plant growth characters	
Plant - growth habit	intermediate
Plant - length	medium to long
Lower leaf - hairiness of sheaths	present
Time of ear emergence	very early to early
Flag leaf - glaucosity of sheath	medium to strong
Ear - glaucosity	weak to medium
Ear - attitude 21 days after ear emerg.	semi-erect
Lui attitudo 21 duys artor our oniorg.	benn ereet



### 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:	Date: 15 May 2018
Code: SOBE	
*Plant - growth habit:	Intermediate to semi prostrate
*Lower leaves - hairiness of leaf sheaths:	Present
*Time of ear emergence:	Medium to late
*Flag leaf- anthocyanin colouration of auricles:	Absent or very weak
Frequency of plants with recurved flag leaves:	
Flag leaf- glaucosity of sheath:	Medium to strong
*Ear- glaucosity:	Medium
Ear- attitude:	Horizontal to semi recurved
Ear-length:	Medium
*Ear- number of rows:	Two
*Ear- density:	Lax to medium
Ear-shape:	Tapering to parallel
*Awn- anthocyanin colouration of the tips:	Absent or very weak
*Awn- length compared to ear:	Medium
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	Non or rudimentary
Sterile spikelet-shape of tip:	NA
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	Equal
Lemma nerves- anthocyanin colouration:	Absent or very weak
*Plant height:	
Collar type: Deckie length of first segment:	Short to medium
Rachis- length of first segment:	Short to medium
Rachis- width of first segment: Rachis- curvature of first segment:	Madium to strong
Rachis- shape of first segment:	Medium to 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:	
Grain- spiculation of inner lateral nerves:	Absent or very weak
Grain- spiculation of outer lateral nerves:	Absent of very weak
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):	1 Tesent
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Winter
Extra characters:	vv line1
12AU a CHALACUCI 5.	

\* = 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	more than two
Density	medium
Length	short
Shape	parallel
Awn	
Length compared to ear	long
Rachis	
Length of first segment	medium
Curvature of first segment	medium
Spikelet	
Sterile spikelet - attitude	n/a
Sterile spikelet - development	n/a
Median spikelet - length of glume+awn cf grain	longer
Grain	
Kernel - colour of aleurone layer	weakly coloure
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping
Anthocyanin colouration	
Flag leaf - auricles	absent or very v
Lemma nerves - at early dough	absent or very v

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.

intermediate to semi-prostrate

ed

weak absent or very weak absent or very weak

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 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



## Variety Name: SY TEPEE

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:	Early
*Flag leaf- anthocyanin colouration of auricles:	Absent or very weak
Frequency of plants with recurved flag leaves:	Medium to high
Flag leaf- glaucosity of sheath:	Strong
*Ear- glaucosity:	Medium to strong
Ear- attitude:	Horizontal
Ear-length:	Medium to lomg
*Ear- number of rows:	Two
*Ear- density:	Medium
Ear- shape:	Parellel
*Awn- anthocyanin colouration of the tips:	Absent or very weak
*Awn- length compared to ear:	Medium to lomg
Awn- spiculation of margins:	Weddull to follig
*Sterile spikelet-attitude:	N/A
Sterile spikelet-shape of tip:	N/A N/A
Sterile spikelet- length of lemma:	N/A N/A
Median spikelet- length of glume + awn cf grain:	Equal
Lemma nerves- anthocyanin colouration:	Madium
*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

medium

medium

semi-erect to horizontal

strong

### CHARACTERS IN DETAIL

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

**NIAB** 19/05/2021 V2

Time of ear emergence

Ear - glaucosity

Ear - attitude

Flag leaf - glaucosity of sheath

### 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



# Variety Name: Valerie

Crop:

Breeders Reference: BR 11500 R 6	AFP No:
Breeder: Saatzucht Josef Breun	Translated from: German
Origin:	Date: 04 April 2019
Code: Valer	
*Plant - growth habit:	Intermediate to semi-prostrate
*Lower leaves - hairiness of leaf sheaths:	Present
*Time of ear emergence:	Early to medium
*Flag leaf- anthocyanin colouration of auricles:	Absent or very weak
Frequency of plants with recurved flag leaves:	
Flag leaf- glaucosity of sheath:	Strong to very strong
*Ear- glaucosity:	Medium
Ear- attitude:	Semi recurved
Ear- length:	Medium to long
*Ear- number of rows:	Two
*Ear- density:	Medium
Ear- shape:	Parallel
*Awn- anthocyanin colouration of the tips:	Absent or very weak
*Awn- length compared to ear:	Medium
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	Parallel
Sterile spikelet-shape of tip:	
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	
Lemma nerves- anthocyanin colouration:	Equal
*Plant height:	Short to medium
Collar type:	
Rachis- length of first segment:	Medium
Rachis- width of first segment:	
Rachis- curvature of first segment:	Medium to strong
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Whitish
*Grain- rachilla hair type:	Long
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Absent or very weak
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	
*Grain- ventral furrow - presence of hairs:	
*Grain- husk:	
Grain- length of 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: 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:	8
*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:	Singhity longer
*Plant height:	
Collar type:	
Rachis- length of first segment:	Short
Rachis- width of first segment:	Short
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- racinita - length of up hans. Grain- spiculation of inner lateral nerves:	Absent or very weak
Grain- spiculation of outer lateral nerves:	Absent of 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):	1105011
Grain- disposition of lodicules:	Clasping
	Clasping Winter
*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



# 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:	
*Plant height:	Long
Collar type:	-
Rachis- length of first segment:	Medium to long
Rachis- width of first segment:	-
Rachis- curvature of first segment:	Very weak to weak
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Whitish
*Grain- rachilla hair type:	Long
Grain- rachilla length:	-
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Medium to strong
Grain- spiculation of outer lateral nerves:	C
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



Variety Name: **Yvonne Crop:** Winter Barley Breeders Reference: NORD AFP No: Breeder: 11060/1 Translated from: German **Origin:** Date: 04 May 2020 Code: YVON \*Plant - growth habit: Intermediate \*Lower leaves - hairiness of leaf sheaths: Present \*Time of ear emergence: Medium to late \*Flag leaf- anthocyanin colouration of auricles: Strong to very strong Frequency of plants with recurved flag leaves: Flag leaf- glaucosity of sheath: Strong \*Ear- glaucosity: Medium to strong Ear- attitude: Horizontal Ear-length: Medium to long \*Ear- number of rows: Two \*Ear- density: Dense Ear- shape: Tapering \*Awn- anthocyanin colouration of the tips: Strong \*Awn- length compared to ear: Medium Awn- spiculation of margins: \*Sterile spikelet-attitude: NA Sterile spikelet-shape of tip: NA Sterile spikelet- length of lemma: NA Median spikelet- length of glume + awn cf grain: Equal Lemma nerves- anthocyanin colouration: Very strong Short to medium **\*Plant height: 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 laver: 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.





Variety Name: Zophia

### **Crop: Winter Barley**

Breeders Reference: UN 116261	AFP No:
Breeder: Sejet	Translated from: French
Origin:	Date: 04 April 2019
Code: ZOPH	
*Plant - growth habit:	Intermediate
*Lower leaves - hairiness of leaf sheaths:	
*Time of ear emergence:	Early
*Flag leaf- anthocyanin colouration of auricles:	Medium to strong
Frequency of plants with recurved flag leaves:	_
Flag leaf- glaucosity of sheath:	Strong
*Ear- glaucosity:	Medium to strong
Ear- attitude:	Horizontal
Ear- length:	
*Ear- number of rows:	Two
*Ear- density:	Medium to dense
Ear- shape:	Parallel
*Awn- anthocyanin colouration of the tips:	Medium
*Awn- length compared to ear:	Long
Awn- spiculation of margins:	-
*Sterile spikelet-attitude:	
Sterile spikelet-shape of tip:	
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	Equal
Lemma nerves- anthocyanin colouration:	Medium
*Plant height:	
Collar type:	
Rachis- length of first segment:	Medium
Rachis- width of first segment:	
Rachis- curvature of first segment:	Medium
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Whitish
*Grain- rachilla hair type:	Long
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Strong
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	Medium
*Grain- ventral furrow - presence of hairs:	Absent
*Grain- husk:	Present
Grain- length of 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



#### WINTER BARLEY 2018

### 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

