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 2/1886 AMARENA

CHARACTERS IN DETAIL Far

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

Breeders Reference: MH 05 AM 04	AFP No:
Breeder: SARL	Translated from: French
Origin:	Date: 27 March 2018
Code: AMIS	
*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:	Intermediate to semi prostrate Present Early Medium to strong Medium Strong Medium Erect to semi erect
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:	Medium to long more than two Medium to dense Parallel Medium Medium to long
*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: Collar type:	Equal Medium
Rachis- length of first segment: Rachis- width of first segment:	Short to medium
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):	Absent or very weak to weak
Kernel- colour of aleurone layer: *Grain- rachilla hair type: Grain- rachilla length: Grain- rachilla - length of tip hairs:	Whitish Long
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:	Strong Medium to strong Present Present
Grain- length of lodicles ("collar" type only): 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 2/2447 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 2/2737 BAZOOKA

CHARACTERS IN DETAIL

CHAKACIEKS IN DETAIL	
Ear Number of rows	more than two
	medium
Density	short
Length Shape	parallel
Shape	paraner
Awn	
Length compared to ear	long
Rachis	
Length of first segment	short to medium
Curvature of first segment	weak
C C	
Spikelet	
Sterile spikelet - attitude	n/a
Sterile spikelet - development	n/a
Median spikelet - length of glume+awn cf grain	equal
Grain	
Kernel - colour of aleurone layer	weakly coloured
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping
Anthocyanin colouration	
Flag leaf - auricles	weak
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	modium

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



Time of ear emergence

Flag leaf - glaucosity of sheath

Ear - glaucosity Ear - attitude 21 days after ear emerg.

AFP 2/2739 BELFRY

CHARACTERS IN DETAIL

Ear

Number of rows Density Length Shape

Awn

Length compared to ear

Rachis

Length of first segment Curvature of first segment

Spikelet

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

Grain

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

Anthocyanin colouration

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

Plant growth characters

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

long

short to medium weak

n/a n/a longer

weakly coloured present strong to v. strong long present clasping

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

intermediate medium present medium medium weak to medium semi-erect



AFP 2/2375 BLAZING

CHARACTERS IN DETAIL

- Ear
- Number of rows Density Length Shape

Awn

Length compared to ear

Rachis

Length of first segment Curvature of first segment

Spikelet

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

Grain

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

Anthocyanin colouration

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

Plant growth characters

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

two medium long

medium

medium to long medium to strong

divergent full equal

whitish present strong to v. strong long absent clasping

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

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



AFP 2/2894 **BLUEBELL**

CHARACTERS IN DETAIL

Ear

Number of rows Density Length Shape

Awn

Length compared to ear

Rachis

Length of first segment Curvature of first segment

Spikelet

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

Grain

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

Anthocyanin colouration

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

Plant growth characters

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

medium to long

medium weak

n/a n/a equal

whitish present medium to strong long absent clasping

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

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



AFP 2/2581 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

Breeders Reference: NIC 07-5440-C	AFP No:
Breeder: Limagrain GmbH	Translated from: German
Origin:	Date: 27 March 2018
Code: CARB	
*Plant - growth habit:	Imtermediate to semi prostrate
*Lower leaves - hairiness of leaf sheaths:	Absent
*Time of ear emergence:	Medium
*Flag leaf- anthocyanin colouration of auricles:	Absent or very weak
Frequency of plants with recurved flag leaves:	Low to medium
Flag leaf- glaucosity of sheath:	Medium
*Ear- glaucosity:	Very weak to weak
Ear- attitude:	Horizontal
Ear- length:	Short to medium
*Ear- number of rows:	Two
*Ear- density:	Lax
Ear- shape:	Tapering
*Awn- anthocyanin colouration of the tips:	Abesnt or very weak
*Awn- length compared to ear:	Shhort to medium
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	NA
Sterile spikelet-shape of tip:	NA
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	Equal
Lemma nerves- anthocyanin colouration:	•
*Plant height:	
Collar type:	
Rachis- length of first segment:	Medium
Rachis- width of first segment:	
Rachis- curvature of first segment:	Medium to strong
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Whitish
*Grain- rachilla hair type:	Long
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Weak
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	Absent or very weak
*Grain- ventral furrow - presence of hairs:	Present
*Grain- husk:	Present
Grain- length of lodicles ("collar" type only):	
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Winter
Extra characters:	

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

28 March 2018



AFP 2/2058 CASSATA

CHARACTERS IN DETAIL

- Ear
- Number of rows Density Length Shape

Awn

Length compared to ear

Rachis

Length of first segment Curvature of first segment

Spikelet

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

Grain

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

Anthocyanin colouration

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

Plant growth characters

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

+/- equal to longer

short to medium weak to medium

parallel full equal

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

weak to medium weak medium to strong

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



AFP 2/2582 CAVALIER

CHARACTERS IN DETAIL

- Ear
- Number of rows Density Length Shape

Awn

Length compared to ear

Rachis

Length of first segment Curvature of first segment

Spikelet

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

Grain

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

Anthocyanin colouration

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

Plant growth characters

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

medium (+/- equal to ear)

medium medium

parallel full equal

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

medium to strong strong to very strong strong to very strong

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



AFP 2/2657 CELOONA

CHARACTERS IN DETAIL

Ear

Number of rows Density Length Shape

Awn

Length compared to ear

Rachis

Length of first segment Curvature of first segment

Spikelet

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

Grain

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

Anthocyanin colouration

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

Plant growth characters

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

medium

short to medium weak

n/a n/a longer

weakly coloured present strong to v. strong long absent clasping

weak to medium weak medium

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



Variety Name: CENTAURE

Crop: Winter Barley

Breeders Reference: sc30007ph	AFP No:
Breeder: Secobra Recherches	Translated from:
Origin:	Date: 15 May 2018
Code: AURE	
*Plant - growth habit:	Intermediate to semi prostrate
*Lower leaves - hairiness of leaf sheaths:	Present
*Time of ear emergence:	Medium
*Flag leaf- anthocyanin colouration of auricles:	
Frequency of plants with recurved flag leaves:	
Flag leaf- glaucosity of sheath:	Strong to very strong
*Ear- glaucosity:	Medium
Ear- attitude:	Semi erect to horizontal
Ear- length:	Medium
*Ear- number of rows:	Non or rudimentary
*Ear- density:	Dense
Ear- shape:	Tapering to parallel
*Awn- anthocyanin colouration of the tips:	Absent or very weak
*Awn- length compared to ear:	Long
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	NA
Sterile spikelet-shape of tip:	NA
Sterile spikelet- length of lemma:	NA
Median spikelet- length of glume + awn cf grain:	Equal
Lemma nerves- anthocyanin colouration:	
*Plant height:	Short to medium
Collar type:	
Rachis- length of first segment:	Short
Rachis- width of first segment:	
Rachis- curvature of first segment:	Medium
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	W71.:4:1.
Kernel- colour of aleurone layer: *Grain- rachilla hair type:	Whitish
Grain- rachilla length:	Long
8	
Grain- rachilla - length of tip hairs: Grain- spiculation of inner lateral nerves:	Weak to medium
Grain- spiculation of outer lateral nerves:	weak to medium
Grain- spiculation of outer lateral herves: Grain- anthocyanin colouration of lemma nerves:	
*Grain- ventral furrow - presence of hairs:	Present
*Grain- husk:	Present
Grain- length of lodicles ("collar" type only):	i resent
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Winter
Extra characters:	,, inter
L'ALLA CHALAUULS.	

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

16 May 2018



AFP 2/2887

COREF

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:	Toben to very weak
Collar type:	
Rachis- length of first segment:	Short to medium
Rachis- width of first segment:	Short to medium
Rachis- wroth of first segment:	Weak
Rachis- curvature of first segment:	Weak
Rachis(2-row)- humping of segments (mid third):	
Rachis(2-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:	0.
Grain- spiculation of inner lateral nerves:	Strong
Grain- spiculation of outer lateral nerves:	
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**

Breeders Reference: MH 07 DN 109 AFP No: Breeder: SARL Translated from: French **Origin:** Date: 04 April 2019 Code: DONO *Plant - growth habit: Semi-prostrate to prostrate *Lower leaves - hairiness of leaf sheaths: Present *Time of ear emergence: Early *Flag leaf- anthocyanin colouration of auricles: Weak to medium Frequency of plants with recurved flag leaves: Medium Flag leaf- glaucosity of sheath: Medium to srong *Ear- glaucosity: Weak to medium Ear- attitude: Semi - erect to horizontal Ear-length: Medium to long *Ear- number of rows: More than two *Ear- density: Medium Ear- shape: Parallel *Awn- anthocyanin colouration of the tips: Medium to strong *Awn- length compared to ear: 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: Rachis- width of first segment: Rachis- curvature of first segment: Rachis- shape of first segment:** Rachis(2-row)- humping of segments (mid third): Rachis(6-row)- degree of zig-zag (mid third): Kernel- colour of aleurone layer: Whitish *Grain- rachilla hair type: Long Grain- rachilla length: Grain- rachilla - length of tip hairs: Grain- spiculation of inner lateral nerves: Strong to very strong Grain- spiculation of outer lateral nerves: Grain- anthocyanin colouration of lemma nerves: Medium *Grain- ventral furrow - presence of hairs: Present *Grain- husk: Present Grain- length of 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 2/2886 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

Breeders Reference: SE 213/10 WG AFP No: 2/ Breeder: Landwirtschaftliche Fachschule Translated from: German Edelhof - Saatzucht Origin: Austria Date: 12 May 2017 Code: ESTO *Plant - growth habit: semi prostrate *Lower leaves - hairiness of leaf sheaths: present *Time of ear emergence: medium *Flag leaf- anthocyanin colouration of auricles: absent or very weak Frequency of plants with recurved flag leaves: Flag leaf- glaucosity of sheath: weak to medium *Ear- glaucosity: weak Ear- attitude: semi erect Ear-length: medium to long *Ear- number of rows: two *Ear- density: dense to very dense Ear- shape: tapering *Awn- anthocyanin colouration of the tips: absent or very weak *Awn- length compared to ear: medium to long Awn- spiculation of margins: *Sterile spikelet-attitude: n/a Sterile spikelet-shape of tip: n/a Sterile spikelet- length of lemma: n/a Median spikelet- length of glume + awn cf grain: equal Lemma nerves- anthocyanin colouration: absent or very weak *Plant height: medium Collar type: **Rachis- length of first segment:** short **Rachis- width of first segment: Rachis- curvature of first segment:** weak **Rachis- shape of first segment: Rachis(2-row)- humping of segments (mid third):** Rachis(6-row)- degree of zig-zag (mid third): Kernel- colour of aleurone layer: whitish *Grain- rachilla hair type: long Grain- rachilla length: Grain- rachilla - length of tip hairs: Grain- spiculation of inner lateral nerves: absent or very weak Grain- spiculation of outer lateral nerves: Grain- anthocyanin colouration of lemma nerves: *Grain- ventral furrow - presence of hairs: absent *Grain- husk: present Grain- length of 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 2/2596 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
Ear- shape:	Tapering
*Awn- anthocyanin colouration of the tips:	Absent or very week
*Awn- length compared to ear:	Medium
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	N/A - non or rudimentary
Sterile spikelet-shape of tip:	-
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	Equal
Lemma nerves- anthocyanin colouration:	Absent or very week
*Plant height:	Very short to short
Collar type:	
Rachis- length of first segment:	Short to medium
Rachis- width of first segment:	
Rachis- curvature of first segment:	Medium
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Whitish
*Grain- rachilla hair type:	Short
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Very week to week
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	Absent or very week
*Grain- ventral furrow - presence of hairs:	Absent
*Grain- husk:	Present
Grain- length of lodicles ("collar" type only):	
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Winter
Extra characters:	

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

09 April 2015



AFP 2/1910 FLAGON

CHARACTERS IN DETAIL

- Ear
- Number of rows Density Length Shape

Awn

Length compared to ear

Rachis

Length of first segment Curvature of first segment

Spikelet

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

Grain

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

Anthocyanin colouration

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

Plant growth characters

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

medium (+/- equal to ear)

medium medium

divergent

equal

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

absent or very weak absent to very weak

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



AFP 2/2664

FLETCHER

CHARACTERS IN DETAIL

Ear

Number of rows Density Length Shape

Awn

Length compared to ear

Rachis

Length of first segment Curvature of first segment

Spikelet

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

Grain

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

Anthocyanin colouration

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

Plant growth characters

Plant - growth habit Plant - length Lower leaf - hairiness of sheaths Time of ear emergence Flag leaf - glaucosity of sheath Ear - glaucosity Ear - attitude 21 days after ear emerg. more than two dense short to medium parallel medium to long short to medium weak n/a n/a equal whitish present strong to v. strong long present clasping weak to medium weak weak to medium intermediate to semi-prostrate long present medium strong medium to strong

semi-erect



AFP 2/2392 FLORENTINE

CHARACTERS IN DETAIL

- Ear
 - Number of rows Density Length Shape

Awn

Length compared to ear

Rachis

Length of first segment Curvature of first segment

Spikelet

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

Grain

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

Anthocyanin colouration

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

Plant growth characters

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

medium (+/- equal to ear)

medium medium to strong

n/a none or rudimentary(deficiens) equal

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

medium medium medium

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



AFP 2/2807 FUNKY

CHARACTERS IN DETAIL

Ear

Number of rows Density Length Shape

Awn

Length compared to ear

Rachis

Length of first segment Curvature of first segment

Spikelet

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

Grain

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

Anthocyanin colouration

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

Plant growth characters

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

long

short medium to strong

n/a n/a longer

whitish present strong to v. strong long present clasping

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

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



AFP 2/2594 GALATION

CHARACTERS IN DETAIL

Ear

Number of rows Density Length Shape

Awn

Length compared to ear

Rachis

Length of first segment Curvature of first segment

Spikelet

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

Grain

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

Anthocyanin colouration

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

Plant growth characters

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

medium

short to medium weak

n/a n/a equal

weakly coloured present strong long absent clasping

absent or very weak weak to medium weak

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



AFP 2/2583 HARLEQUIN

CHARACTERS IN DETAIL

- Ear
- Number of rows Density Length Shape

Awn

Length compared to ear

Rachis

Length of first segment Curvature of first segment

Spikelet

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

Grain

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

Anthocyanin colouration

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

Plant growth characters

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

shorter to +/- equal

medium medium

parallel full equal

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

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

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



AFP 2/2899

HIVERAC

CHARACTERS IN DETAIL

Ear

Number of rows Density Length Shape

Awn

Length compared to ear

Rachis

Length of first segment Curvature of first segment

Spikelet

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

Grain

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

Anthocyanin colouration

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

Plant growth characters

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

short

medium to long medium

n/a none or rudimentary equal

whitish present medium to strong long absent clasping

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

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



AFP 2/2821 **JETTOO**

CHARACTERS IN DETAIL

Ear

Number of rows Density Length Shape

Awn

Length compared to ear

Rachis

Length of first segment Curvature of first segment

Spikelet

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

Grain

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

Anthocyanin colouration

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

Plant growth characters

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

long

medium weak to medium

n/a n/a longer

whitish present strong to v. strong long absent clasping

weak medium medium

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



AFP 2/3041 JORDAN

CHARACTERS IN DETAIL

- Ear
- Number of rows Density Length Shape

Awn

Length compared to ear

Rachis

Length of first segment Curvature of first segment

Spikelet

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

Grain

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

Anthocyanin colouration

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

Plant growth characters

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

medium to long

medium to long strong

n/a none or rudimentary equal

whitish present weak to medium long absent clasping

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

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



AFP 2/2755 KATHMANDU

CHARACTERS IN DETAIL

- Ear
- Number of rows Density Length Shape

Awn

Length compared to ear

Rachis

Length of first segment Curvature of first segment

Spikelet

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

Grain

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

Anthocyanin colouration

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

Plant growth characters

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

short

medium to long strong

n/a none or rudimentary equal

whitish present strong to v. strong long absent clasping

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

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



Variety Name: KWS Astaire

Crop:

Breeders Reference:	AFP No: 2/2877
Breeder: KWS UK Ltd	Translated from: German
Origin:	Date: 23 March 2017
Code: KAST	
*Plant - growth habit:	Intermediate to semi prostrate
*Lower leaves - hairiness of leaf sheaths:	Present
*Time of ear emergence:	Medium
*Flag leaf- anthocyanin colouration of auricles:	Abent or very weak
Frequency of plants with recurved flag leaves:	2
Flag leaf- glaucosity of sheath:	Strong to very strong
*Ear- glaucosity:	Medium to strong
Ear- attitude:	Semi erect
Ear- length:	Medium
*Ear- number of rows:	More than two
*Ear- density:	Medium
Ear- shape:	Parallel
*Awn- anthocyanin colouration of the tips:	Aabsent or very weak
*Awn- length compared to ear:	Medium to long
Awn- spiculation of margins:	inediatin to long
*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:	veryiong
*Plant height:	Medium
Collar type:	Wediam
Rachis- length of first segment:	Medium to long
	Medium to long
Rachis- width of first segment:	Madinus to study
Rachis- curvature of first segment:	Medium to strong
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Strongly coloured
*Grain- rachilla hair type:	Long
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Medium
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	Absent or very weak
*Grain- ventral furrow - presence of hairs:	Absent
*Grain- husk:	Present
Grain- length of lodicles ("collar" type only):	
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Winter
Extra characters:	

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

28 March 2017



AFP 2/2650 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 2/2969 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 2/2436 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 2/2728 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. medium tapering

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:	AFP No: 2/2730
Breeder:	Translated from:
Origin:	Date: 24 March 2015
Code: B2730	
*Plant - growth habit:	Intermediate to semi prostrate
*Lower leaves - hairiness of leaf sheaths:	Present
*Time of ear emergence:	Medium
*Flag leaf- anthocyanin colouration of auricles:	Very weak
Frequency of plants with recurved flag leaves:	
Flag leaf- glaucosity of sheath:	Strong
*Ear- glaucosity:	Strong
Ear- attitude:	Semi - recurved to recurved
Ear- length:	Medium
*Ear- number of rows:	Two
*Ear- density:	Lax
Ear- shape:	Parallel
*Awn- anthocyanin colouration of the tips:	Very weak
*Awn- length compared to ear:	Short to medium
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	Parallel to weakly divergent
Sterile spikelet-shape of tip:	
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	Equal
Lemma nerves- anthocyanin colouration:	1
*Plant height:	Medium
Collar type:	
Rachis- length of first segment:	Medium to long
Rachis- width of first segment:	
Rachis- curvature of first segment:	Medium
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	
*Grain- rachilla hair type:	Long
Grain- rachilla length:	Long
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):	1 resent
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Winter
Extra characters:	W Inter
12ATTA CHATACICI 3.	

* = 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 2/3052 KWS TERRIER

CHARACTERS IN DETAIL

- Ear
- Number of rows Density Length Shape

Awn

Length compared to ear

Rachis

Length of first segment Curvature of first segment

Spikelet

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

Grain

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

Anthocyanin colouration

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

Plant growth characters

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

short to medium

medium strong

n/a none or rudimentary equal

strongly coloured present v. weak to weak long present clasping

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

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



AFP 2/2580 KWS TONIC

CHARACTERS IN DETAIL

- Ear
- Number of rows Density Length Shape

Awn

Length compared to ear

Rachis

Length of first segment Curvature of first segment

Spikelet

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

Grain

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

Anthocyanin colouration

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

Plant growth characters

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

medium

short to medium very weak

n/a n/a longer

whitish present strong to v. strong long present clasping

very weak to weak weak to medium medium

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



AFP 2/2725 KWS TOWER

CHARACTERS IN DETAIL

- Ear
- Number of rows Density Length Shape

Awn

Length compared to ear

Rachis

Length of first segment Curvature of first segment

Spikelet

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

Grain

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

Anthocyanin colouration

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

Plant growth characters

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

medium

long strong

n/a none or rudimentary equal

whitish present weak to medium long absent clasping

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

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



AFP 2/2974 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 2/2976 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 2/2890

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 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 2/2809 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: BE2007011006	AFP No: 2/2885
Breeder: LS Plant Breeding Ltd	Translated from: German
Origin:	Date: 23 March 2017
Code: LUCI	
*Plant - growth habit:	Semi prostrate
*Lower leaves - hairiness of leaf sheaths:	Present
*Time of ear emergence:	Medium
*Flag leaf- anthocyanin colouration of auricles:	Medium
Frequency of plants with recurved flag leaves:	
Flag leaf- glaucosity of sheath:	Strong
*Ear- glaucosity:	Absent or very weak
Ear- attitude:	Semi erect to horizontal
Ear- length:	Short
*Ear- number of rows:	More than two
*Ear- density:	Medium
Ear- shape:	Parallel
*Awn- anthocyanin colouration of the tips:	Medium to strong
*Awn- length compared to ear:	Long
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	
Sterile spikelet-shape of tip:	
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	
Lemma nerves- anthocyanin colouration:	
*Plant height:	Long to very long
Collar type:	
Rachis- length of first segment:	Medium to long
Rachis- width of first segment:	
Rachis- curvature of first segment:	Weak to medium
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Weakly coloured
*Grain- rachilla hair type:	Long
Grain- rachilla length:	
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Weak to medium
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	
*Grain- ventral furrow - presence of hairs:	Present
*Grain- husk:	Present
Grain- length of 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



WINTER BARLEY

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



WINTER BARLEY

AFP 2/2077

PELICAN

CHARACTERS IN DETAIL

Ear Number of rows Density Length Shape	more than two dense medium to long
Awn Length compared to ear	medium to long
Rachis Length of first segment Curvature of first segment	medium weak to medium
Spikelet Sterile spikelet - attitude Sterile spikelet - development Median spikelet - length of glume+awn cf grain	longer
Grain Kernel - colour of aleurone layer Husk - presence after harvest Spiculation of inner lateral nerves Rachilla hair type Ventral furrow - presence of hairs Disposition of lodicules	weakly coloured present medium long absent clasping
Anthocyanin colouration Flag leaf - auricles Lemma nerves - at early dough Awn tips	absent or very weak weak very weak to weak
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 long present medium to late medium to strong medium erect to semi-erect



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



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



QUADRA

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 to medium

n/a n/a equal

strongly coloured present strong long absent clasping

very weak to weak very weak to weak weak

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



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 Code: B1005 *Plant - growth habit: Intermediate *Lower leaves - hairiness of leaf sheaths: Present *Time of ear emergence: Early to medium *Flag leaf- anthocyanin colouration of auricles: Medium Frequency of plants with recurved flag leaves: Low to medium Flag leaf- glaucosity of sheath: Medium to strong *Ear- glaucosity: Absent or very weak Ear- attitude: Horizontal Ear-length: Medium to long *Ear- number of rows: Mor ethan two *Ear- density: Lax to medium Parallel Ear- shape: *Awn- anthocyanin colouration of the tips: Medium *Awn- length compared to ear: Longer Awn- spiculation of margins: *Sterile spikelet-attitude: NA Sterile spikelet-shape of tip: NA Sterile spikelet- length of lemma: NA Median spikelet- length of glume + awn cf grain: Longer Lemma nerves- anthocyanin colouration: Medium ***Plant height:** Medium to long **Collar type: Rachis- length of first segment:** Medium **Rachis- width of first segment: Rachis- curvature of first segment:** Weak to medium **Rachis- shape of first segment: Rachis(2-row)- humping of segments (mid third):** Rachis(6-row)- degree of zig-zag (mid third): Whitish Kernel- colour of aleurone layer: *Grain- rachilla hair type: Long Grain- rachilla length: Grain- rachilla - length of tip hairs: Grain- spiculation of inner lateral nerves: Medium to strong Grain- spiculation of outer lateral nerves: Grain- anthocyanin colouration of lemma nerves: Medium *Grain- ventral furrow - presence of hairs: Absent *Grain- husk: Present **Grain- length of lodicles ("collar" type only):** Grain- disposition of lodicules: Clasping Alternative *Seasonal type: **Extra characters:**

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

19 March 2019



RETRIEVER

CHARACTERS IN DETAIL

- Ear
- Number of rows Density Length Shape

Awn

Length compared to ear

Rachis

Length of first segment Curvature of first segment

Spikelet

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

Grain

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

Anthocyanin colouration

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

Plant growth characters

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

medium (+/- equal to ear)

medium medium

n/a none or rudimentary(deficiens) equal

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

medium strong strong

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



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 - hairings 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:	Strong to very strong
Flag leaf- glaucosity of sheath:	Medium to strong
*Ear- glaucosity:	Strong
Ear- attitude:	Semi erect to horizontal
Ear- length:	Medium
*Ear- number of rows:	Two
*Ear- density:	Medium to dense
Ear- shape:	Tapering to parallel
*Awn- anthocyanin colouration of the tips:	Very srong
*Awn- length compared to ear:	Short to medium
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	Divergent
Sterile spikelet-shape of tip:	C
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	Equal
Lemma nerves- anthocyanin colouration:	
*Plant height:	Short
Collar type:	
Rachis- length of first segment:	Short to medium
Rachis- width of first segment:	
Rachis- curvature of first segment:	Medium
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Whitish
*Grain- rachilla hair type:	Long
Grain- rachilla length:	_
Grain- rachilla - length of tip hairs:	`
Grain- spiculation of inner lateral nerves:	Weak to medium
Grain- spiculation of outer lateral nerves:	
Grain- anthocyanin colouration of lemma nerves:	Strong
*Grain- ventral furrow - presence of hairs:	Present
*Grain-husk:	Present
Grain- length of 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:	AFP No: 2/2231
Breeder: Saatzucht Filbeck	Translated from: German
Origin:	Date: 29 November 2007
Code: SABI	
*Plant - growth habit:	intermediate
*Lower leaves - hairiness of leaf sheaths:	present
*Time of ear emergence:	late
*Flag leaf- anthocyanin colouration of auricles:	absent or very weak
Frequency of plants with recurved flag leaves:	high to very high
Flag leaf- glaucosity of sheath:	strong
*Ear- glaucosity:	weak to medium
Ear- attitude:	semi-erect to horizontal
Ear- length:	medium to long
*Ear- number of rows:	two
*Ear- density:	medium to dense
Ear- shape:	parallel
*Awn- anthocyanin colouration of the tips:	absent or very weak
*Awn- length compared to ear:	short to medium (shorter to +/- equal to ear)
Awn- spiculation of margins:	
*Sterile spikelet-attitude:	parallel
Sterile spikelet-shape of tip:	
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	equal
Lemma nerves- anthocyanin colouration:	-
*Plant height:	medium
Collar type:	
Rachis- length of first segment:	long to very long
Rachis- width of first segment:	
Rachis- curvature of first segment:	weak to medium
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	whitish ("white")
*Grain- rachilla hair type:	long
Grain- rachilla length:	C
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):	*
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:	1	
*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:	8	
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:	,, inter	
* = Characteristics which should always be included in the de	escription of the variety. 28 March 2017	

NIAB 11/04/2019 V1

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	
1	
Awn	
Length compared to ear	long
Rachis	
Length of first segment	short
Curvature of first segment	weak
Curvature of first segment	weak
Spikelet	
Sterile spikelet - attitude	
Sterile spikelet - development	
Median spikelet - length of glume+awn cf grain	aqual
Median spikelet - length of glunie+awn of grann	equal
Grain	
Kernel - colour of aleurone layer	strongly coloured
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong
Rachilla hair type	long
Ventral furrow - presence of hairs	present
Disposition of lodicules	clasping
Anthocyanin colouration	1. (1'
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



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:	
Rachis- length of first segment:	Short to medium
Rachis- width of first segment:	Madium to study a
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):	
Kachis(0-10w)- degree of zig-zag (inid tilitu). 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 resont
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Winter
Extra characters:	Winter
Latta chatacters.	

* = 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 2/2822 SUNNINGDALE

CHARACTERS IN DETAIL

Ear Number of rows Density Length Shape	more than two medium short 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 coloured
Husk - presence after harvest	present
Spiculation of inner lateral nerves	strong
Rachilla hair type	long
Ventral furrow - presence of hairs	absent
Disposition of lodicules	clasping
Anthocyanin colouration	

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

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

Plant growth characters

Lemma nerves - at early dough

Flag leaf - auricles

Awn tips

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.



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



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



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	AFP No: 2/
Breeder: Sygenta Seeds Ltd	Translated from:
Origin: France	Date: 12 October 2012
Code: SYTEP	
*Plant - growth habit:	Semi-prostrate
*Lower leaves - hairiness of leaf sheaths:	Present
*Time of ear emergence:	Early
*Flag leaf- anthocyanin colouration of auricles:	Absent or very weak
Frequency of plants with recurved flag leaves:	Medium to high
Flag leaf- glaucosity of sheath:	Strong
*Ear- glaucosity:	Medium to strong
Ear- attitude:	Horizontal
Ear- length:	Medium to 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:	Wiedram to folling
*Sterile spikelet-attitude:	N/A
Sterile spikelet-shape of tip:	N/A N/A
Sterile spikelet- length of lemma:	N/A
Median spikelet- length of glume + awn cf grain:	Equal
Lemma nerves- anthocyanin colouration:	
*Plant height:	Medium
Collar type:	
Rachis- length of first segment:	Medium
Rachis- width of first segment:	
Rachis- curvature of first segment:	Medium
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	XX 74 1 1 4
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 2/2517 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



TETRIS

CHARACTERS IN DETAIL

- Ear
- Number of rows Density Length Shape

Awn

Length compared to ear

Rachis

Length of first segment Curvature of first segment

Spikelet

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

Grain

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

Anthocyanin colouration

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

Plant growth characters

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

short (shorter than ear)

medium to long medium to strong

n/a none or rudimentary(deficiens) equal

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

weak to medium strong to very strong strong

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



AFP 2/2889 TOREROO

CHARACTERS IN DETAIL

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
I ower leaf - hairiness of sheaths	nrecent

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



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



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:	C
*Sterile spikelet-attitude:	NA
Sterile spikelet-shape of tip:	
Sterile spikelet- length of lemma:	
Median spikelet- length of glume + awn cf grain:	Slightly longer
Lemma nerves- anthocyanin colouration:	
*Plant height:	
Collar type:	
Rachis- length of first segment:	Short
Rachis- width of first segment:	
Rachis- curvature of first segment:	Weak
Rachis- shape of first segment:	
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third):	
Kernel- colour of aleurone layer:	Whitish
*Grain- rachilla hair type:	Long
Grain- rachilla length:	5
Grain- rachilla - length of tip hairs:	
Grain- spiculation of inner lateral nerves:	Absent or very weak
Grain- spiculation of outer lateral nerves:	, and the second s
Grain- anthocyanin colouration of lemma nerves:	Absent or very weak
*Grain- ventral furrow - presence of hairs:	Absent
*Grain- husk:	Present
Grain- length of lodicles ("collar" type only):	
Grain- disposition of lodicules:	Clasping
*Seasonal type:	Winter
Extra characters:	

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

11 April 2019



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



CHARACTERS IN DETAIL

- Ear
- Number of rows Density Length Shape

Awn

Length compared to ear

Rachis

Length of first segment Curvature of first segment

Spikelet

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

Grain

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

Anthocyanin colouration

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

Plant growth characters

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

medium (+/- equal to ear)

medium strong

parallel to weakly divergent full equal

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

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

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



Variety Name: Verity

Breeders Reference:	AFP No: 2/2750
Breeder:	Translated from: German
Origin:	Date: 01 April 2015
Code: VERI	
*Plant - growth habit:	Intermediate
*Lower leaves - hairiness of leaf sheaths:	Present
*Time of ear emergence:	Medium
*Flag leaf- anthocyanin colouration of auricles:	Absent or very weak
Frequency of plants with recurved flag leaves:	
Flag leaf- glaucosity of sheath:	Very Strong
*Ear- glaucosity:	Medium to strong
Ear- attitude:	Semi erect
Ear- length:	Short
*Ear- number of rows:	More than two
*Ear- density:	Lax to medium
Ear- shape:	Parallel
*Awn- anthocyanin colouration of the tips:	Absent or very weak
*Awn- length compared to ear:	Long
Awn- spiculation of margins:	2019
*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:	Longer
*Plant height:	Long
Collar type:	Long
Rachis- length of first segment:	Medium to long
Rachis- width of first segment:	Medium to long
Rachis- which of first segment:	Very weak to weak
Rachis- shape of first segment:	Very weak to weak
Rachis(2-row)- humping of segments (mid third):	
Rachis(6-row)- degree of zig-zag (mid third): 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
Extra characters:	

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

09 April 2015

WINTER BARLEY 2015



AFP 2/2244 VOLUME

CHARACTERS IN DETAIL

Ear

Number of rows Density Length Shape

Awn

Length compared to ear

Rachis

Length of first segment Curvature of first segment

Spikelet

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

Grain

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

Anthocyanin colouration

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

Plant growth characters

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

medium to long

medium absent or very weak

n/a n/a equal

weakly coloured present strong long present clasping

weak to medium very weak to weak weak

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



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



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

