5603HR

CHARACTERS IN DETAIL

Ear

Colour white Length short Density lax Shape-side profile tapering Awns or scurs - presence awns present Awns or scurs - distribution whole length Awns or scurs - length long to very long Apical rachis segment - convex face hairiness weak to medium absent

Anthers - anthocyanin colouration

Lower glume

External surface smooth Extent of internal hairs strong - Group 3 Beak length medium to long Beak curvature moderately curved Shoulder width narrow to medium

Shoulder shape elevated

Lower lemma

Beak curvature slightly curved

Grain

Colour red

Colouration with phenol dark to very dark

Straw

Length medium

Wall thickness @20cms below ear absent or very thin

Glaucosity

Flag leaf - sheath weak

Flag leaf- blade (lower side) very weak to weak

Culm - neck weak

Ear weak to medium

Plant growth characters

Coleoptile - anthocyanin colouration very strong Plant - growth habit erect to semi-erect

Time of ear emergence medium



AC BARRIE

CHARACTERS IN DETAIL

Ear

Colour white

Length short to medium
Density lax to medium
Shape-side profile parallel sided
Awns or scurs - presence scurs present

Awns or scurs - distribution upper 1/2
Awns or scurs - length long

Apical rachis segment - convex face hairiness weak to medium

Anthers - anthocyanin colouration absent

Lower glume

External surface smooth

Extent of internal hairs weak to medium (1+)

Beak length short

Beak curvature v.slightly curved
Shoulder width narrow to medium
Shoulder shape straight to elevated

Lower lemma

Beak curvature straight to slightly curved

Grain

Colour red

Colouration with phenol very light to light

Straw

Length long to very long Wall thickness @20cms below ear absent or very thin

Glaucosity

Flag leaf - sheath medium
Flag leaf- blade (lower side) weak to medium
Culm - neck medium
Ear medium

Plant growth characters

Coleoptile - anthocyanin colouration medium to strong
Plant - growth habit erect to semi-erect
Time of ear emergence very early to early



Variety Name: Alicia Crop: Spring Wheat

Breeder's Reference: SG-S775-11 **AFP No:**

Breeder: Selgen, a.s Translated from: Czech Republic

Origin: Date: 19 November 2018

Code: LICi

Coleoptile-anthocyanin colouration: Weak to medium

*Plant - growth habit: Semi erect to itermediate

*Time ear emergence: Medium to late

Flag leaf - Anthocyanin colouration of auricles:

Frequency of plants with recurved flag leaves: Medium to high

*Flag leaf - Glaucosity of sheath: Strong

Flag leaf - Glaucosity of leaf blade: Medium to strong

Anthers - anthocyanin colouration:

Glaucosity of neck: Medium to strong

Hairiness of uppermost node:

*Plant - height:

*Straw - wall thickness @ 20cms below ear: Absent or very thin

*Ear - Glaucosity:

Ear - Supernumerary spikelets - frequency:

*Ear - Colour:

*Ear - Shape (side profile):

Ear - Length:

*Ear - Density:

*Awns or scurs - presence:

Tapering

Medium to long

Medium

Scurs present

Awns or scurs - distibution:

*Scurs at tip of ear - length: Short to medium

*Awns at tip of ear - length:

Lower glume - Beak length: Short to medium

Lower glume - Beak shape (curvature): Slightly curved to moderalely curved

Lower glume - Beak tip:

Lower glume - Shoulder width: Medium to broad

Lower glume - Shoulder type: Slightly sloping to straight

Lower glume - External surface roughness:

Lower glume - Extent of internal hairs: Weak

Lower glume - Internal imprint: Lower lemma - Beak shape: Lower lemma - Beak length-: Lower lemma - Beak swelling:

Apical rachis segement - convex face hairiness: Medium *Grain - colour: Red

Grain - Shape:

Grain - Brush hair length in dorsal view:

Grain - Colouration with phenol: Medium to dark

*Seasonal type: Spring

Extra characters:



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

Variety Name: **AMANTIS** Crop: Spring Wheat

Breeder's Reference: SEC 425-03-04 **AFP No:**

Breeder: Secobra Translated from: Danish

Origin: 15 May 2018

Code: AMAN

Coleoptile-anthocyanin colouration: Medium

*Plant - growth habit: Intermediate to semi prostrate

*Time ear emergence: Medium to late

Flag leaf - Anthocyanin colouration of auricles:

Frequency of plants with recurved flag leaves:

*Flag leaf - Glaucosity of sheath:

Strong
Flag leaf - Glaucosity of leaf blade:

Medium

Anthers - anthocyanin colouration:

Glaucosity of neck:

Hairiness of uppermost node:

*Plant - height: Medium

*Straw - wall thickness @ 20cms below ear: Absent or very thin

*Ear - Glaucosity: Strong

Ear - Supernumerary spikelets - frequency:

*Ear - Colour: White

*Ear - Shape (side profile): Tapering
Ear - Length: Short to medium

*Ear - Density: Medium

*Awns or scurs - presence: Medium

*Awns or scurs - presence: Present

Awns or scurs - distibution:

*Scurs at tip of ear - length: Short to medium

*Awns at tip of ear - length:

Lower glume - Beak length:Short to medium **Lower glume - Beak shape (curvature):**Slightly curved

Lower glume - Beak tip:

Lower glume - Shoulder width: Medium

Lower glume - Shoulder type: Straight to elevated

Lower glume - External surface roughness:

Lower glume - Extent of internal hairs: Medium

Lower glume - Internal imprint:

Lower lemma - Beak shape: Slightly curved

Lower lemma - Beak length-: Lower lemma - Beak swelling:

Apical rachis segement - convex face hairiness:*Grain - colour:

Strong
Red

Grain - Shape:

Grain - Brush hair length in dorsal view:

Grain - Colouration with phenol: Light to medium

*Seasonal type: Spring

Extra characters:



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

AMARETTO

CHARACTERS IN DETAIL

Ear

Colour: white

Length: medium to long

Density: medium
Shape (side profile) tapering
Awns or scurs - presence: scurs present

Awns or scurs - distribution:

Awns or Scurs - length: short to medium

Apical rachis segment - convex face hairiness: medium

Anthers - anthocyanin

Lower Glume

External surface roughness:

Extent of internal hairs: strong - group 3
Beak length: very short

Beak shape (curvature): slightly curved
Shoulder width narrow to medium

Shoulder shape straight

Lower Lemma

Beak shape: slightly to moderately curved

Grain

Colour red
Colouration with phenol: medium

Straw

Length: medium

Wall thickness @ 20cms below ear: medium to thick

Glaucosity

Flag leaf - sheath: strong
Flag leaf - blade (lower side): strong
Culm neck: strong
Ear - Glaucosity: strong

Plant growth characters

Coleoptile-anthocyanin absent or very weak Plant - growth habit: intermediate Time ear emergence: medium

Flag leaf - Anthocyanin colouration of auricles: absent or very weak



Variety Name: Anabel Crop:

Breeder's Reference: SG-S1257-09 **AFP No:**

Breeder: SELGEN Translated from: CZECH

Origin: Date: 20 February 2014

Code: ANAB

Coleoptile-anthocyanin colouration: Weak

*Plant - growth habit: Semi-erect to intermediate

*Time ear emergence: Early to medium

Flag leaf - Anthocyanin colouration of auricles:

Frequency of plants with recurved flag leaves:

*Flag leaf - Glaucosity of sheath:

Medium to high

Strong to very strong

Flag leaf - Glaucosity of leaf blade: Strong

Anthers - anthocyanin colouration:

Glaucosity of neck: Strong to very strong

Hairiness of uppermost node:

*Plant - height: Short to medium

*Straw - wall thickness @ 20cms below ear: Medium

*Ear - Glaucosity: Medium to strong

Ear - Supernumerary spikelets - frequency:

*Ear - Colour: White

*Ear - Shape (side profile): Tapering
Ear - Length: Medium

*Ear - Density: Medium

*Awns or scurs - presence: Scurs present

Awns or scurs - distibution:

*Scurs at tip of ear - length: Medium

*Awns at tip of ear - length:

Lower glume - Beak length: Short

Lower glume - Beak shape (curvature):

Lower glume - Beak tip:

Lower glume - Shoulder width: Medium to broad

Lower glume - Shoulder type: Elevated

Lower glume - External surface roughness:

Lower glume - Extent of internal hairs: Weak

Lower glume - Internal imprint: Lower lemma - Beak shape: Lower lemma - Beak length-: Lower lemma - Beak swelling:

Apical rachis segement - convex face hairiness: Medium *Grain - colour: Red

Grain - Shape:

Grain - Brush hair length in dorsal view:

Grain - Colouration with phenol:

*Seasonal type:

Medium

Spring

Extra characters:



^{* =} Characteristics which should always be included in the description of the variety. 08 March 2016

ASHBY

CHARACTERS IN DETAIL

Ear

Colour white medium Length lax to medium Density Shape-side profile tapering Awns or scurs - presence scurs present Awns or scurs - distribution upper 1/2 Awns or scurs - length short to medium Apical rachis segment - convex face hairiness medium to strong

Anthers - anthocyanin colouration absent

Lower glume

External surface smooth

Extent of internal hairs strong (group 3) Beak length medium

Beak curvature moderately curved Shoulder width narrow to medium

Shoulder shape straight

Lower lemma

Beak curvature slightly to moderately curved

Grain

Colour red medium Colouration with phenol

Straw

Length short to medium Wall thickness @20cms below ear very thick or filled

Glaucosity

Flag leaf - sheath very strong

Flag leaf- blade (lower side)

Culm - neck strong to very strong Ear strong to very strong

Plant growth characters

Coleoptile - anthocyanin colouration weak Plant - growth habit intermediate

Time of ear emergence late

Flag leaf - anthocyanin of auricles very weak



Variety Name: Astrid

Breeder's Reference: SG-S 154-06 **AFP No:**

Breeder: DLF Trifolium Ltd **Translated from:** Cz

Origin: 23 March 2017

Crop:

Code: TRID

Coleoptile-anthocyanin colouration: Weak to medium

*Plant - growth habit: Semi erect to intermediate

*Time ear emergence: Medium

Flag leaf - Anthocyanin colouration of auricles:

Frequency of plants with recurved flag leaves: High

*Flag leaf - Glaucosity of sheath:

Flag leaf - Glaucosity of leaf blade: Strong

Anthers - anthocyanin colouration:

Glaucosity of neck: Medium to streong

Hairiness of uppermost node:

*Plant - height:

*Straw - wall thickness @ 20cms below ear: Very thin to thin *Ear - Glaucosity: Medium to strong

Ear - Supernumerary spikelets - frequency:

*Ear - Colour:

*Ear - Shape (side profile):

Ear - Length:

*Ear - Density:

*Awns or scurs - presence:

White

Tapering

Medium to long

Tapering

Scurs present

Awns or scurs - distibution:

*Scurs at tip of ear - length:

*Awns at tip of ear - length:

Short

Lower glume - Beak length:Very short to short **Lower glume - Beak shape (curvature):**Slightly curved

Lower glume - Beak tip:

Lower glume - Shoulder width: Narrow to medium

Lower glume - Shoulder type: Straight

Lower glume - External surface roughness:

Lower glume - Extent of internal hairs: Medium

Lower glume - Internal imprint: Lower lemma - Beak shape:

Lower lemma - Beak length-: Lower lemma - Beak swelling:

Apical rachis segement - convex face hairiness: Weak *Grain - colour: Red

Grain - Shape:

Grain - Brush hair length in dorsal view:

Grain - Colouration with phenol:

*Seasonal type:

Dark

Spring

Extra characters:

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



AZURITE

CHARACTERS IN DETAIL

Ear

Colour white

Lengthshort to mediumDensitymediumShape-side profileparallel sidedAwns or scurs - presencescurs presentAwns or scurs - distributionupper 1/4Awns or scurs - lengthmedium

Apical rachis segment - convex face hairiness medium to strong

Anthers - anthocyanin colouration absent

Lower glume

External surface

Extent of internal hairs strong - Group 3

Beak length short

Beak curvature v.slightly curved

Shoulder width narrow Shoulder shape straight

Lower lemma

Beak curvature slightly curved

Grain

Colour red

Colouration with phenol light to medium

Straw

Length short Wall thickness @20cms below ear medium

Glaucosity

Flag leaf - sheath medium to strong
Flag leaf - blade (lower side) medium to strong

Culm - neck strong
Ear strong

Plant growth characters

Coleoptile - anthocyanin colouration weak
Plant - growth habit semi-erect
Time of ear emergence medium



BAYLISS

medium

CHARACTERS IN DETAIL

Ear

Colour white

Lengthmedium to longDensitylax to mediumShape-side profiletaperingAwns or scurs - presencescurs presentAwns or scurs - distributionupper 1/2Awns or scurs - lengthlong

Anthers - anthocyanin colouration

Apical rachis segment - convex face hairiness

Lower glume

External surface smooth

Extent of internal hairs strong (group 3)
Beak length short to medium

Beak curvature slight to moderately curved

Shoulder width narrow Shoulder shape straight

Lower lemma

Beak curvature moderately curved

Grain

Colour red

Colouration with phenol medium to dark

Straw

Length medium to long Wall thickness @20cms below ear medium

Glaucosity

Flag leaf - sheath medium to strong

Flag leaf- blade (lower side) medium

Culm - neck medium to strong

Ear medium

Plant growth characters

Coleoptile - anthocyanin colouration absent or very weak
Plant - growth habit semi-erect to intermediate

Time of ear emergence medium to late



BELVOIR

CHARACTERS IN DETAIL

Ear

white Colour Length medium Density lax Shape-side profile tapering Awns or scurs - presence scurs present Awns or scurs - distribution upper 1/4 Awns or scurs - length long to very long Apical rachis segment - convex face hairiness medium Anthers - anthocyanin colouration absent

Lower glume

External surface smooth

Extent of internal hairs strong - Group 3
Beak length short to medium
Beak curvature slightly curved
Shoulder width narrow
Shoulder shape straight

Lower lemma

Beak curvature slightly to moderately curved

Grain

Colour red
Colouration with phenol very dark

Straw

Length medium Wall thickness @20cms below ear thin

Glaucosity

Flag leaf - sheath strong to very strong

Flag leaf- blade (lower side)

Culm - neck strong to very strong
Ear strong to very strong

Plant growth characters

Coleoptile - anthocyanin colouration weak

Plant - growth habit semi-erect to intermediate

Time of ear emergence medium Flag leaf - anthocyanin of auricles weak



BONZER

CHARACTERS IN DETAIL

Ear

Colour white

Lengthshort to mediumDensitymediumShape-side profileparallel sidedAwns or scurs - presencescurs presentAwns or scurs - distributionupper 1/4Awns or scurs - lengthlong

Apical rachis segment - convex face hairiness medium to strong

Anthers - anthocyanin colouration

Lower glume

External surface smooth

Extent of internal hairs strong - Group 3
Beak length medium
Beak curvature slightly curved
Shoulder width narrow
Shoulder shape straight

Lower lemma

Beak curvature slightly curved

Grain

Colour red

Colouration with phenol medium to dark

Straw

Length short to medium
Wall thickness @20cms below ear very thick or filled

Glaucosity

Flag leaf - sheath very weak to weak

Flag leaf- blade (lower side) very weak to weak
Culm - neck medium

Culm - neck medium
Ear medium

Plant growth characters

Coleoptile - anthocyanin colouration medium

Plant - growth habit semi-erect to intermediate

Time of ear emergence medium to late



CALIXO

CHARACTERS IN DETAIL

Ear

ColourwhiteLengthmediumDensityvery lax to laxShape-side profiletaperingAwns or scurs - presencescurs presentAwns or scurs - distributionupper 3/4Awns or scurs - lengthlong

Apical rachis segment - convex face hairiness weak to medium

Anthers - anthocyanin colouration

Lower glume

External surface smooth
Extent of internal hairs strong (3)
Beak length short
Beak curvature straight

Shoulder width narrow to medium

Shoulder shape elevated

Lower lemma

Beak curvature slightly curved

Grain

Colour red Colouration with phenol dark

Straw

Length long
Wall thickness @20cms below ear medium

Glaucosity

Flag leaf - sheath weak

Flag leaf- blade (lower side) very weak to weak

Culm - neck weak

Ear weak to medium

Plant growth characters

Coleoptile - anthocyanin colourationweakPlant - growth habitsemi-erectTime of ear emergenceearly to medium



COBBER

CHARACTERS IN DETAIL

Ear

Colour white

Lengthshort to mediumDensitylax to mediumShape-side profileparallel sidedAwns or scurs - presencescurs presentAwns or scurs - distributionupper 1/4Awns or scurs - lengthmedium to long

Apical rachis segment - convex face hairiness strong

Anthers - anthocyanin colouration

Lower glume

External surface smooth

Extent of internal hairs strong - Group 3

Beak length short
Beak curvature straight
Shoulder width narrow
Shoulder shape straight

Lower lemma

Beak curvature slightly curved

Grain

Colour red

Colouration with phenol medium to dark

Straw

Length short to medium
Wall thickness @20cms below ear very thick or filled

Glaucosity

Flag leaf - sheath strong
Flag leaf - blade (lower side) strong

Culm - neck medium to strong
Ear medium to strong

Plant growth characters

Coleoptile - anthocyanin colouration medium

Plant - growth habit intermediate

Time of ear emergence medium to late



CORNETTO

CHARACTERS IN DETAIL

Ear

Colour white
Length medium
Density lax to medium
Shape-side profile tapering
Awns or scurs - presence awns present
Awns or scurs - distribution whole length
Awns or scurs - length long to very long

Apical rachis segment - convex face hairiness medium

Anthers - anthocyanin colouration

Lower glume

External surface smooth

Extent of internal hairs strong (group 3)

Beak length long to very long

Beak curvature slightly curved

Shoulder width very narrow to narrow

notice with very narrow to har

Shoulder shape elevated

Lower lemma

Beak curvature straight to slightly curved

Grain

Colour red

Colouration with phenol dark to very dark

Straw

Length long

Wall thickness @20cms below ear absent or very thin

Glaucosity

Flag leaf - sheath medium to strong
Flag leaf - blade (lower side) weak to medium

Culm - neck medium

Ear medium to strong

Plant growth characters

Coleoptile - anthocyanin colouration absent to weak
Plant - growth habit semi-erect
Time of ear emergence medium



DAFNE

CHARACTERS IN DETAIL

Ear

Colour: white

Length:medium to longDensity:lax to mediumShape (side profile)parallel sidedAwns or scurs - presence:scurs present

Awns or scurs - distribution:

Awns or Scurs - length: short to medium short to medium

Apical rachis segment - convex face hairiness: medium

Anthers - anthocyanin

Lower Glume

External surface roughness:

Extent of internal hairs: medium to strong
Beak length: very short to short

Beak shape (curvature): straight to slightly curved

Shoulder width medium to broad

Shoulder shape slightly sloping to straight

Lower Lemma

Beak shape:

Grain

Colour red
Colouration with phenol: dark

Straw

Length: medium to long

Wall thickness @ 20cms below ear: thin

Glaucosity

Flag leaf - sheath: strong

Flag leaf - blade (lower side): medium to strong

Culm neck: strong
Ear - Glaucosity: strong

Plant growth characters

Coleoptile-anthocyanin weak

Plant - growth habit: semi-erect to intermediate

Time ear emergence: medium

Flag leaf - Anthocyanin colouration of auricles:



EQUITY

CHARACTERS IN DETAIL

Ear

ColourwhiteLengthshort to mediumDensitymediumShape-side profileparallel sidedAwns or scurs - presencescurs presentAwns or scurs - distributionupper 1/2

Awns or scurs - length short to medium Apical rachis segment - convex face hairiness weak to medium

Anthers - anthocyanin colouration absent

Lower glume

External surface smooth
Extent of internal hairs strong

Beak length short to medium
Beak curvature slightly curved
Shoulder width narrow
Shoulder shape straight

Lower lemma

Beak curvature slightly curved

Grain

Colour white

Colouration with phenol medium to dark

Straw

Length very short to short

Wall thickness @20cms below ear medium

Glaucosity

Flag leaf - sheath strong
Flag leaf- blade (lower side) medium

Culm - neck medium to strong

Ear strong

Plant growth characters

Coleoptile - anthocyanin colouration absent to weak
Plant - growth habit semi-erect
Time of ear emergence medium



ETHOS

CHARACTERS IN DETAIL

Ear

Colour white Length medium Density lax Shape-side profile tapering Awns or scurs - presence scurs present Awns or scurs - distribution upper 1/4 Awns or scurs - length medium to long Apical rachis segment - convex face hairiness weak to medium

Anthers - anthocyanin colouration

Lower glume

External surface smooth
Extent of internal hairs medium (2)
Beak length short to medium
Beak curvature slightly curved
Shoulder width narrow
Shoulder shape elevated

Lower lemma

Beak curvature slightly curved

Grain

Colour red

Colouration with phenol medium to dark

Straw

Length short to medium Wall thickness @20cms below ear absent or very thin

Glaucosity

Flag leaf - sheath weak to medium

Flag leaf- blade (lower side) weak

Culm - neck weak to medium

Ear weak

Plant growth characters

Coleoptile - anthocyanin colouration weak to medium

Plant - growth habit intermed. to semi-prostrate

Time of ear emergence medium



FALLER

CHARACTERS IN DETAIL

Ear

Colour white

Lengthshort to mediumDensityvery lax to laxShape-side profiletaperingAwns or scurs - presenceawns present

Awns or scurs - distribution

Awns or scurs - length long to very long

Apical rachis segment - convex face hairiness medium

Anthers - anthocyanin colouration

Lower glume

External surface smooth

Extent of internal hairs weak to medium (group 1+)

Beak length lor

Beak curvature slight to moderately curved

Shoulder width narrow to medium

Shoulder shape elev. to strongly elevated

Lower lemma

Beak curvature

Grain

Colour red

Colouration with phenol dark to very dark

Straw

Length long

Wall thickness @20cms below ear absent or very thin

Glaucosity

Flag leaf - sheath weak

Flag leaf- blade (lower side) very weak to weak

Culm - neck weak
Ear weak

Plant growth characters

Coleoptile - anthocyanin colouration absent or very weak
Plant - growth habit semi-erect to intermediate

Time of ear emergence early



GRAFFITI

CHARACTERS IN DETAIL

Ear

white Colour Length medium lax to medium Density parallel sided Shape-side profile Awns or scurs - presence scurs present Awns or scurs - distribution upper 1/4 Awns or scurs - length medium Apical rachis segment - convex face hairiness medium Anthers - anthocyanin colouration absent

Lower glume

External surface smooth

Extent of internal hairs strong - Group 3

Beak length medium

Beak curvature moderate to strongly curved

Shoulder width narrow
Shoulder shape elevated

Lower lemma

Beak curvature slightly curved

Grain

Colour red Colouration with phenol dark

Straw

Length medium to long
Wall thickness @20cms below ear very thick or filled

Glaucosity

Flag leaf - sheath very weak to weak
Flag leaf- blade (lower side) very weak to weak
Culm - neck very weak to weak
Ear weak

Plant growth characters

Coleoptile - anthocyanin colouration medium
Plant - growth habit semi-erect
Time of ear emergence medium



GRANARY

CHARACTERS IN DETAIL

Ear

Colour white Length medium medium Density parallel sided Shape-side profile Awns or scurs - presence scurs present Awns or scurs - distribution upper 1/4 Awns or scurs - length long Apical rachis segment - convex face hairiness medium

Anthers - anthocyanin colouration

Lower glume

External surface smooth

Extent of internal hairs strong - Group 3
Beak length short to medium
Beak curvature slightly curved
Shoulder width narrow to medium
Shoulder shape sl. sloping to straight

Lower lemma

Beak curvature slightly curved

Grain

Colour red Colouration with phenol dark

Straw

Length short to medium
Wall thickness @20cms below ear very thick or filled

Glaucosity

Flag leaf - sheath weak to medium
Flag leaf - blade (lower side) weak to medium
Culm - neck medium
Ear medium

Plant growth characters

Coleoptile - anthocyanin colouration weak to medium
Plant - growth habit semi-erect
Time of ear emergence medium



HATHAWAY

CHARACTERS IN DETAIL

Ear

Colour white

Lengthshort to mediumDensitylax to mediumShape-side profileparallel sidedAwns or scurs - presencescurs present

Awns or scurs - distribution

Awns or scurs - length medium
Apical rachis segment - convex face hairiness medium
Anthers - anthocyanin colouration absent

Lower glume

External surface smooth

Extent of internal hairs medium (group 2)
Beak length medium
Beak curvature slightly curved

Shoulder width narrow

Shoulder shape straight to elevated

Lower lemma

Beak curvature slightly curved

Grain

Colour red

Colouration with phenol medium to dark

Straw

Length medium Wall thickness @20cms below ear medium

Glaucosity

Flag leaf - sheath medium to strong

Flag leaf- blade (lower side) medium

Culm - neck medium to strong
Ear medium to strong

Plant growth characters

Coleoptile - anthocyanin colouration medium to strong
Plant - growth habit intermediate

Time of ear emergence late



HEALEY

CHARACTERS IN DETAIL

Ear

Colour white Length medium Density lax Shape-side profile tapering Awns or scurs - presence scurs present Awns or scurs - distribution upper 1/2 Awns or scurs - length long to very long Apical rachis segment - convex face hairiness medium to strong

Anthers - anthocyanin colouration

Lower glume

External surface smooth

Extent of internal hairs strong (group 3)

Beak length short

Beak curvature slightly curved

Shoulder width narrow Shoulder shape straight

Lower lemma

Beak curvature slightly to moderately curved

Grain

Colour red Colouration with phenol light

Straw

Length very long

Wall thickness @20cms below ear absent or very thin

Glaucosity

Flag leaf - sheath medium to strong

Flag leaf- blade (lower side) medium

Culm - neck medium to strong
Ear medium to strong

Plant growth characters

Coleoptile - anthocyanin colouration absent or very weak

Plant - growth habit semi-erect Time of ear emergence medium



HEXHAM

CHARACTERS IN DETAIL

Ear

Colour white

Length medium to long

Density lax

Shape-side profile parallel sided Awns or scurs - presence scurs present

Awns or scurs - distribution

Awns or scurs - length long to very long
Apical rachis segment - convex face hairiness medium to strong

Anthers - anthocyanin colouration

Lower glume

External surface smooth

Extent of internal hairs strong (group 3)

Beak length medium

Beak curvature slight to moderately curved

Shoulder width narrow
Shoulder shape elevated

Lower lemma

Beak curvature slightly curved

Grain

Colour red

Colouration with phenol medium to dark

Straw

Length long

Wall thickness @20cms below ear absent or very thin

Glaucosity

Flag leaf - sheath strong

Flag leaf- blade (lower side) medium to strong
Culm - neck medium to strong
Ear medium to strong

Plant growth characters

Coleoptile - anthocyanin colouration absent or very weak
Plant - growth habit semi-erect to intermediate

Time of ear emergence medium to late



INFINITY

CHARACTERS IN DETAIL

Ear

Colour white Length medium Density lax Shape-side profile tapering Awns or scurs - presence scurs present Awns or scurs - distribution upper 1/4 Awns or scurs - length medium to long Apical rachis segment - convex face hairiness weak to medium

Anthers - anthocyanin colouration

Lower glume

External surface smooth
Extent of internal hairs weak (1)
Beak length short to medium
Beak curvature slightly curved
Shoulder width medium
Shoulder shape elevated

Lower lemma

Beak curvature slightly curved

Grain

Colour red Colouration with phenol dark

Straw

Length long to very long Wall thickness @20cms below ear absent or very thin

Glaucosity

Flag leaf - sheath medium
Flag leaf - blade (lower side) weak
Culm - neck medium
Ear medium

Plant growth characters

Coleoptile - anthocyanin colouration strong
Plant - growth habit semi-erect
Time of ear emergence very early to early



INSIGNIA

CHARACTERS IN DETAIL

Ear

Colour white

Length short to medium

Density lax
Shape-side profile tapering
Awns or scurs - presence scurs present
Awns or scurs - distribution upper 1/2
Awns or scurs - length medium to long
Apical rachis segment - convex face hairiness medium to strong

Anthers - anthocyanin colouration

Lower glume

External surface smooth

Extent of internal hairs strong (group 3)
Beak length medium
Beak curvature slightly curved
Shoulder width narrow
Shoulder shape straight

Lower lemma

Beak curvature slightly to moderately curved

Grain

Colour red

Colouration with phenol medium to dark

Straw

Length short

Wall thickness @20cms below ear absent or very thin

Glaucosity

Flag leaf - sheath medium to strong
Flag leaf- blade (lower side) medium to strong
Culm - neck medium to strong
Ear medium to strong

Plant growth characters

Coleoptile - anthocyanin colouration absent or very weak

Plant - growth habit semi-erect Time of ear emergence medium



IVORY

CHARACTERS IN DETAIL

Ear

ColourwhiteLengthlongDensitylaxShape-side profiletaperingAwns or scurs - presencescurs presentAwns or scurs - distributionupper 1/2Awns or scurs - lengthlong

Apical rachis segment - convex face hairiness weak to medium

Anthers - anthocyanin colouration absent

Lower glume

External surface smooth

Extent of internal hairs strong (group 3)
Beak length medium
Beak curvature strongly curved
Shoulder width narrow
Shoulder shape elevated

Lower lemma

Beak curvature strongly curved

Grain

Colour white Colouration with phenol medium

Straw

Length short

Wall thickness @20cms below ear absent or very thin

Glaucosity

Flag leaf - sheath strong to very strong

Flag leaf- blade (lower side) strong
Culm - neck strong
Ear strong

Plant growth characters

Coleoptile - anthocyanin colouration medium
Plant - growth habit intermediate

Time of ear emergence late



KABOT

CHARACTERS IN DETAIL

Ear

Colour white

Length medium to long

Density lax
Shape-side profile tapering
Awns or scurs - presence scurs present
Awns or scurs - distribution upper 3/4
Awns or scurs - length medium to long
Apical rachis segment - convex face hairiness weak to medium

Anthers - anthocyanin colouration

Lower glume

External surface smooth

Extent of internal hairs medium to strong (group 2+)

Beak length medium

Beak curvature moderately curved

Shoulder width medium
Shoulder shape elevated

Lower lemma

Beak curvature slightly to moderately curved

Grain

Colour red

Colouration with phenol medium to dark

Straw

Length long

Wall thickness @20cms below ear absent or very thin

Glaucosity

Flag leaf - sheath strong

Flag leaf- blade (lower side) medium to strong

Culm - neck strong
Ear medium

Plant growth characters

Coleoptile - anthocyanin colouration weak
Plant - growth habit semi-erect
Time of ear emergence medium to late



KWS ALDERON

CHARACTERS IN DETAIL

Ear

ColourwhiteLengthshortDensitylax

Shape-side profile parallel sided
Awns or scurs - presence scurs present
Awns or scurs - distribution upper 1/2
Awns or scurs - length medium
Apical rachis segment - convex face hairiness strong

Anthers - anthocyanin colouration

Lower glume

External surface smooth

Extent of internal hairs strong - Group 3

Beak length short

Beak curvature slight to moderately curved

Shoulder width narrow Shoulder shape straight

Lower lemma

Beak curvature slightly curved

Grain

Colour red

Colouration with phenol dark to very dark

Straw

Length short Wall thickness @20cms below ear medium

Glaucosity

Flag leaf - sheath strong
Flag leaf - blade (lower side) strong
Culm - neck strong

Ear strong to very strong

Plant growth characters

Coleoptile - anthocyanin colouration absent or very weak

Plant - growth habit semi-erect Time of ear emergence medium



KWS ALICIUM

CHARACTERS IN DETAIL

Ear

Colour white Length medium Density medium Shape-side profile parallel sided Awns or scurs - presence scurs present Awns or scurs - distribution upper 1/4 Awns or scurs - length medium Apical rachis segment - convex face hairiness medium Anthers - anthocyanin colouration absent

Lower glume

External surface smooth

Extent of internal hairs strong (group 3)

Beak length short

Beak curvature v.slightly curved

Shoulder width narrow

Shoulder shape slightly elevated

Lower lemma

Beak curvature moderately curved

Grain

Colour reddish Colouration with phenol dark

Straw

Length long Wall thickness @20cms below ear thin

Glaucosity

Flag leaf - sheath strong

Flag leaf- blade (lower side) medium to strong

Culm - neck medium
Ear medium

Plant growth characters

Coleoptile - anthocyanin colouration weak
Plant - growth habit semi-erect
Time of ear emergence early to medium
Flag leaf - anthocyanin of auricles absent or very weak



KWS BEWLEY

CHARACTERS IN DETAIL

Ear

Colour white Length medium Density lax Shape-side profile tapering Awns or scurs - presence scurs present Awns or scurs - distribution upper 1/4 Awns or scurs - length medium to long Apical rachis segment - convex face hairiness weak to medium

Anthers - anthocyanin colouration

Lower glume

External surface smooth

Extent of internal hairs strong (group 3)
Beak length very short to short

Beak curvature straight
Shoulder width narrow
Shoulder shape elevated

Lower lemma

Beak curvature slightly curved

Grain

Colour white
Colouration with phenol medium

Straw

Length medium

Wall thickness @20cms below ear absent or very thin

Glaucosity

Flag leaf - sheath medium to strong
Flag leaf- blade (lower side) medium to strong
Culm - neck medium to strong
Ear medium to strong

Plant growth characters

Coleoptile - anthocyanin colouration absent to weak
Plant - growth habit semi-erect
Time of ear emergence medium to late



KWS BITTERN

medium to strong

CHARACTERS IN DETAIL

Ear

Colour white
Length medium
Density lax to medium
Shape-side profile parallel sided
Awns or scurs - presence scurs present
Awns or scurs - distribution upper 1/2
Awns or scurs - length medium to long

Apical rachis segment - convex face hairiness

Anthers - anthocyanin colouration

Lower glume

External surface smooth

Extent of internal hairs strong - Group 3
Beak length medium to long

Beak curvature slight to moderately curved

Shoulder width narrow

Shoulder shape sl. sloping to straight

Lower lemma

Beak curvature slightly curved

Grain

Colour red
Colouration with phenol medium

Straw

Length medium to long

Wall thickness @20cms below ear thin

Glaucosity

Flag leaf - sheath strong
Flag leaf - blade (lower side) strong
Culm - neck strong

Ear medium to strong

Plant growth characters

Coleoptile - anthocyanin colouration strong

Plant - growth habit semi-erect to intermediate

Time of ear emergence late



KWS CHARING

CHARACTERS IN DETAIL

Ear

ColourwhiteLengthshortDensitylax

Shape-side profile parallel sided
Awns or scurs - presence scurs present
Awns or scurs - distribution upper 1/2
Awns or scurs - length long

Apical rachis segment - convex face hairiness medium to strong

Anthers - anthocyanin colouration absent

Lower glume

External surface smooth
Extent of internal hairs strong

Beak length short to medium
Beak curvature slightly curved
Shoulder width narrow
Shoulder shape elevated

Lower lemma

Beak curvature slightly curved

Grain

Colour white

Colouration with phenol dark to very dark

Straw

Length medium Wall thickness @20cms below ear medium

Glaucosity

Flag leaf - sheath weak

Flag leaf- blade (lower side) very weak to weak
Culm - neck very weak to weak

Ear weak

Plant growth characters

Coleoptile - anthocyanin colouration medium
Plant - growth habit semi-erect
Time of ear emergence medium



KWS CHILHAM

CHARACTERS IN DETAIL

Ear

white Colour Length medium Density lax Shape-side profile tapering Awns or scurs - presence scurs present Awns or scurs - distribution upper 1/4 Awns or scurs - length long Apical rachis segment - convex face hairiness strong

Anthers - anthocyanin colouration

Lower glume

External surface smooth

Extent of internal hairs strong (group 3)
Beak length short to medium

Beak curvature slight to moderately curved

Shoulder width narrow to medium

Shoulder shape elevated

Lower lemma

Beak curvature moderately curved

Grain

Colour red
Colouration with phenol medium

Straw

Length medium to long Wall thickness @20cms below ear absent or very thin

Glaucosity

Flag leaf - sheath medium to strong

Flag leaf- blade (lower side) medium

Culm - neck medium to strong
Ear medium to strong

Plant growth characters

Coleoptile - anthocyanin colouration absent or very weak Plant - growth habit intermediate

Time of ear emergence late

KWS COCHISE

CHARACTERS IN DETAIL

Ear

ColourwhiteLengthmediumDensitylaxShape-side profiletaperingAwns or scurs - presencescurs presentAwns or scurs - distributionupper 3/4Awns or scurs - lengthvery long

Apical rachis segment - convex face hairiness medium to strong

Anthers - anthocyanin colouration

Lower glume

External surface smooth

Extent of internal hairs strong (group 3)
Beak length short to medium
Beak curvature slightly curved
Shoulder width medium
Shoulder shape elevated

Lower lemma

Beak curvature slightly to moderately curved

Grain

Colour red

Colouration with phenol medium to dark

Straw

Length very long

Wall thickness @20cms below ear absent or very thin

Glaucosity

Flag leaf - sheath strong
Flag leaf - blade (lower side) medium

Culm - neck medium to strong
Ear medium to strong

Plant growth characters

Coleoptile - anthocyanin colouration absent or very weak
Plant - growth habit semi-erect to intermediate

Time of ear emergence late



KWS COLLIER

CHARACTERS IN DETAIL

Ear

white Colour Length medium Density lax to medium Shape-side profile tapering Awns or scurs - presence scurs present Awns or scurs - distribution upper 1/2 Awns or scurs - length medium to long Apical rachis segment - convex face hairiness weak to medium absent

Anthers - anthocyanin colouration

Lower glume

External surface smooth Extent of internal hairs strong Beak length short

Beak curvature slightly curved Shoulder width narrow

Shoulder shape straight to elevated

Lower lemma

Beak curvature slightly curved

Grain

Colour white

Colouration with phenol dark to very dark

Straw

Length short to medium Wall thickness @20cms below ear absent or very thin

Glaucosity

Flag leaf - sheath strong

Flag leaf- blade (lower side) medium to strong

Culm - neck strong Ear strong

Plant growth characters

Coleoptile - anthocyanin colouration weak Plant - growth habit semi-erect Time of ear emergence early to medium



KWS FIXUM

CHARACTERS IN DETAIL

Ear

Colour white
Length medium
Density lax

Shape-side profile parallel sided
Awns or scurs - presence scurs present
Awns or scurs - distribution upper 3/4
Awns or scurs - length very long
Apical rachis segment - convex face hairiness strong
Anthers - anthocyanin colouration absent

Lower glume

External surface smooth

Extent of internal hairs strong to whole surface

Beak length medium

Beak curvature v.slightly curved

Shoulder width narrow

Shoulder shape straight to elevated

Lower lemma

Beak curvature moderately curved

Grain

Colour red Colouration with phenol dark

Straw

Length long

Wall thickness @20cms below ear absent or very thin

Glaucosity

Flag leaf - sheath strong
Flag leaf - blade (lower side) strong
Culm - neck strong

Ear medium to strong

Plant growth characters

Coleoptile - anthocyanin colouration absent or very weak
Plant - growth habit semi-erect to intermediate

Time of ear emergence medium to late
Flag leaf - anthocyanin of auricles absent or very weak



KWS FLINT

CHARACTERS IN DETAIL

Ear

white Colour Length medium medium Density parallel sided Shape-side profile Awns or scurs - presence scurs present Awns or scurs - distribution upper 1/4 Awns or scurs - length medium Apical rachis segment - convex face hairiness strong Anthers - anthocyanin colouration

Lower glume

External surface smooth

Extent of internal hairs strong - Group 3

Beak length short to medium

Beak curvature v.slightly curved

Shoulder width narrow

Shoulder width narrow
Shoulder shape elevated

Lower lemma

Beak curvature moderately curved

Grain

Colour red

Colouration with phenol dark to very dark

Straw

Length short Wall thickness @20cms below ear medium

Glaucosity

Flag leaf - sheath strong
Flag leaf- blade (lower side) strong
Culm - neck strong
Ear strong

Plant growth characters

Coleoptile - anthocyanin colouration medium
Plant - growth habit intermediate
Time of ear emergence medium



KWS GIRAFFE

CHARACTERS IN DETAIL

Ear

Colour white

medium to long Length lax to medium Density Shape-side profile tapering Awns or scurs - presence scurs present Awns or scurs - distribution upper 1/4 Awns or scurs - length long

Apical rachis segment - convex face hairiness strong to very strong

Anthers - anthocyanin colouration

Lower glume

External surface smooth

Extent of internal hairs strong to whole surface short to medium Beak length Beak curvature v.slightly curved Shoulder width narrow to medium

Shoulder shape straight

Lower lemma

Beak curvature straight to slightly curved

Grain

Colour red

medium to dark Colouration with phenol

Straw

Length medium to long Wall thickness @20cms below ear absent or very thin

Glaucosity

Flag leaf - sheath strong to very strong

Flag leaf- blade (lower side) strong

Culm - neck strong to very strong Ear strong to very strong

Plant growth characters

Coleoptile - anthocyanin colouration very weak to weak Plant - growth habit semi-erect to intermediate

medium to late

Time of ear emergence Flag leaf - anthocyanin of auricles



KWS HARSUM

CHARACTERS IN DETAIL

Ear

Colour white

Length short to medium
Density lax to medium
Shape-side profile parallel sided
Awns or scurs - presence scurs present
Awns or scurs - distribution upper 1/2

Awns or scurs - length long to very long Apical rachis segment - convex face hairiness medium to large

Anthers - anthocyanin colouration absent

Lower glume

External surface smooth

Extent of internal hairs strong (group 3)
Beak length medium to long
Beak curvature slightly curved
Shoulder width narrow to medium
Shoulder shape slightly elevated

Lower lemma

Beak curvature moderately to strongly curved

Grain

Colour reddish Colouration with phenol dark

Straw

Length long
Wall thickness @20cms below ear thin

Glaucosity

Flag leaf - sheath strong

Flag leaf- blade (lower side) medium to strong

Culm - neck medium Ear medium

Plant growth characters

Coleoptile - anthocyanin colouration weak

Plant - growth habit semi-erect to intermediate

Time of ear emergence medium to late
Flag leaf - anthocyanin of auricles absent or very weak



KWS HATTON

CHARACTERS IN DETAIL

Ear

ColourwhiteLengthmediumDensitylax

Shape-side profile parallel sided
Awns or scurs - presence scurs present
Awns or scurs - distribution upper 1/4
Awns or scurs - length medium
Apical rachis segment - convex face hairiness strong

Anthers - anthocyanin colouration

Lower glume

External surface smooth

Extent of internal hairs strong (group 3)

Beak length medium

Beak curvature slight to moderately curved

Shoulder width narrow
Shoulder shape elevated

Lower lemma

Beak curvature slightly to moderately curved

Grain

Colour red

Colouration with phenol medium to dark

Straw

Length long to very long

Wall thickness @20cms below ear medium

Glaucosity

Flag leaf - sheath medium to strong
Flag leaf - blade (lower side) medium to strong

Culm - neck medium
Ear medium

Plant growth characters

Coleoptile - anthocyanin colouration absent or very weak
Plant - growth habit semi-erect to intermediate

Time of ear emergence late



KWS JEFFERSON

CHARACTERS IN DETAIL

Ear

Colour white

Length medium to long

Density lax
Shape-side profile tapering
Awns or scurs - presence scurs present
Awns or scurs - distribution upper 1/4
Awns or scurs - length short to medium
Apical rachis segment - convex face hairiness medium to strong

Anthers - anthocyanin colouration

Lower glume

External surface smooth

Extent of internal hairs medium to strong (group 2+)

Beak length short to medium
Beak curvature slightly curved
Shoulder width narrow to medium

Shoulder shape straight

Lower lemma

Beak curvature

Grain

Colour red

Colouration with phenol medium to dark

Straw

Length

Wall thickness @20cms below ear absent or very thin

Glaucosity

Flag leaf - sheath medium
Flag leaf - blade (lower side) medium

Culm - neck medium to strong
Ear medium to strong

Plant growth characters

Coleoptile - anthocyanin colouration medium

Plant - growth habit semi-erect to intermediate

Time of ear emergence medium to late



KWS KILBURN

CHARACTERS IN DETAIL

Ear

white Colour Length medium very lax to lax Density Shape-side profile tapering Awns or scurs - presence scurs present Awns or scurs - distribution upper 1/2 Awns or scurs - length very long Apical rachis segment - convex face hairiness medium Anthers - anthocyanin colouration absent

Lower glume

External surface smooth

Extent of internal hairs strong - Group 3
Beak length short to medium
Beak curvature slightly curved
Shoulder width narrow to medium

Shoulder shape elevated

Lower lemma

Beak curvature slightly curved

Grain

Colour red

Colouration with phenol medium to dark

Straw

Length medium Wall thickness @20cms below ear thin

Glaucosity

Flag leaf - sheath medium to strong

Flag leaf- blade (lower side) medium
Culm - neck medium

Ear medium to strong

Plant growth characters

Coleoptile - anthocyanin colouration absent or very weak
Plant - growth habit semi-erect to intermediate

Time of ear emergence medium to late



KWS LADUM

CHARACTERS IN DETAIL

Ear

Colour white

Lengthshort to mediumDensitylax to mediumShape-side profiletaperingAwns or scurs - presencescurs presentAwns or scurs - distributionupper 1/4Awns or scurs - lengthmedium

Apical rachis segment - convex face hairiness medium to strong

Anthers - anthocyanin colouration absent

Lower glume

External surface smooth

Extent of internal hairs strong to whole surface

Beak length short

Beak curvature v.slightly curved

Shoulder width narrow

Shoulder shape straight to elevated

Lower lemma

Beak curvature slightly to moderately curved

Grain

Colour red
Colouration with phenol dark

Straw

Length medium

Wall thickness @20cms below ear absent or very thin

Glaucosity

Flag leaf - sheath very weak to weak
Flag leaf- blade (lower side) very weak to weak
Culm - neck very weak to weak
Ear very weak to weak

Plant growth characters

Coleoptile - anthocyanin colouration very weak to weak
Plant - growth habit very weak to weak
semi-erect to intermediate

Time of ear emergence medium

Flag leaf - anthocyanin of auricles absent or very weak



KWS LIGHTUM

CHARACTERS IN DETAIL

Ear

Colour white

Lengthshort to mediumDensitylax to mediumShape-side profiletaperingAwns or scurs - presencescurs presentAwns or scurs - distributionupper 1/4Awns or scurs - lengthmedium to long

Apical rachis segment - convex face hairiness large
Anthers - anthocyanin colouration absent

Lower glume

External surface smooth

Extent of internal hairs strong (group 3)
Beak length medium
Beak curvature v.slightly curved

Shoulder width narrow

Shoulder shape slightly elevated

Lower lemma

Beak curvature slightly to moderately curved

Grain

Colour reddish Colouration with phenol dark

Straw

Length long to very long

Wall thickness @20cms below ear thin

Glaucosity

Flag leaf - sheath strong

Flag leaf- blade (lower side) medium to strong

Culm - neck medium

Ear medium to strong

Plant growth characters

Coleoptile - anthocyanin colouration weak to medium

Plant - growth habit semi-erect to intermediate

Time of ear emergence medium

Flag leaf - anthocyanin of auricles absent or very weak



KWS MULLINS

CHARACTERS IN DETAIL

Ear

Colour white

Length short to medium
Density medium
Shape-side profile parallel sided
Awns or scurs - presence scurs present
Awns or scurs - distribution upper 1/4
Awns or scurs - length short to medium
Apical rachis segment - convex face hairiness medium to strong

Anthers - anthocyanin colouration

Lower glume

External surface smooth
Extent of internal hairs strong (3)
Beak length short to medium
Beak curvature v.slightly curved
Shoulder width narrow to medium

Shoulder shape elevated

Lower lemma

Beak curvature slightly curved

Grain

Colour red Colouration with phenol dark

Straw

Length very short Wall thickness @20cms below ear medium

Glaucosity

Flag leaf - sheath medium to strong

Flag leaf- blade (lower side) medium
Culm - neck medium
Ear medium

Plant growth characters

Coleoptile - anthocyanin colouration absent to weak

Plant - growth habit semi-erect to intermediate

Time of ear emergence late



KWS PENDULUM

CHARACTERS IN DETAIL

Ear

Colour white

Lengthmedium to longDensityvery lax to laxShape-side profiletaperingAwns or scurs - presencescurs presentAwns or scurs - distributionupper 1/4Awns or scurs - lengthmedium

Apical rachis segment - convex face hairiness medium to strong

Anthers - anthocyanin colouration absent

Lower glume

External surface smooth

Extent of internal hairs strong to whole surface
Beak length short to medium

Beak curvature slight to moderately curved

Shoulder width narrow to medium

Shoulder shape elevated

Lower lemma

Beak curvature slightly to moderately curved

Grain

Colour red

Colouration with phenol very light to light

Straw

Length long

Wall thickness @20cms below ear absent or very thin

Glaucosity

Flag leaf - sheath medium to strong
Flag leaf- blade (lower side) medium to strong
Culm - neck medium to strong
Ear medium to strong

Plant growth characters

Coleoptile - anthocyanin colouration weak to medium
Plant - growth habit intermediate

Time of ear emergence late

Flag leaf - anthocyanin of auricles absent or very weak



KWS RECOLETA

CHARACTERS IN DETAIL

Ear

Colour white

Length short to medium

Density lax
Shape-side profile tapering
Awns or scurs - presence scurs present
Awns or scurs - distribution upper 1/2
Awns or scurs - length long
Apical rachis segment - convex face hairiness strong

Anthers - anthocyanin colouration

Lower glume

External surface smooth

Extent of internal hairs strong - Group 3

Beak length short

Beak curvature v.slightly curved Shoulder width v.slightly curved narrow to medium

Shoulder shape straight

Lower lemma

Beak curvature slightly curved

Grain

Colour red

Colouration with phenol dark to very dark

Straw

Length short to medium

Wall thickness @20cms below ear thin

Glaucosity

Flag leaf - sheath strong

Flag leaf- blade (lower side) medium to strong

Culm - neck strong

Ear medium to strong

Plant growth characters

Coleoptile - anthocyanin colouration medium

Plant - growth habit semi-erect to intermediate

Time of ear emergence medium



KWS RHINUM

CHARACTERS IN DETAIL

Ear

Colour white

Lengthshort to mediumDensitymedium to denseShape-side profileparallel sidedAwns or scurs - presencescurs presentAwns or scurs - distributionupper 1/4Awns or scurs - lengthmedium

Apical rachis segment - convex face hairiness medium to large

Anthers - anthocyanin colouration absent

Lower glume

External surface smooth

Extent of internal hairs strong (group 3)

Beak length short

Beak curvature slightly curved

Shoulder width narrow

Shoulder shape slightly elevated

Lower lemma

Beak curvature slightly to moderately curved

Grain

Colour reddish

Colouration with phenol medium to dark

Straw

Length medium to long

Wall thickness @20cms below ear

Glaucosity

Flag leaf - sheath strong
Flag leaf - blade (lower side) strong
Culm - neck strong

Ear medium to strong

Plant growth characters

Coleoptile - anthocyanin colouration weak

Plant - growth habit semi-erect to intermediate

Time of ear emergence medium
Flag leaf - anthocyanin of auricles very weak



Variety Name: KWS SCIROCCO Crop: SPRING WHEAT

Breeder's Reference: AFP No: 1/

Breeder: KWS LOCHOW GMBH Translated from:

Origin: GERMANY Date: 22 March 2013

Code: KWSC

Coleoptile-anthocyanin colouration: ABSENT TO VERY WEAK

*Plant - growth habit: SEMI-ERECT TO INTERMEDIATE

*Time ear emergence: EARLY TO MEDIUM

Flag leaf - Anthocyanin colouration of auricles:

Frequency of plants with recurved flag leaves: LOW

*Flag leaf - Glaucosity of sheath: WEAK TO MEDIUM
Flag leaf - Glaucosity of leaf blade: VERY WEAK TO WEAK

Anthers - anthocyanin colouration:

Glaucosity of neck: WEAK TO MEDIUM

Hairiness of uppermost node:

*Plant - height: MEDIUM TO LONG

*Straw - wall thickness @ 20cms below ear: VERY THIN
*Ear - Glaucosity: WEAK

Ear - Supernumerary spikelets - frequency:

*Ear - Colour: WHITE

*Ear - Shape (side profile):

Ear - Length:

*Ear - Density:

*Awns or scurs - presence:

PARELLEL SIDED

SHORT TO MEDIUM

LAX TO MEDIUM

SCURS PRESENT

Awns or scurs - distibution:

*Scurs at tip of ear - length: SHORT

*Awns at tip of ear - length: Lower glume - Beak length:

Lower glume - Beak shape (curvature):

Lower glume - Beak tip:

Lower glume - Shoulder width: NARROW TO MEDIUM

Lower glume - Shoulder type: SLIGHTLY SLOPING TO STRAIGHT

Lower glume - External surface roughness:

Lower glume - Extent of internal hairs: WEAK

Lower glume - Internal imprint:

Lower lemma - Beak shape: SLIGHTLY CIRVED TO MODERATELY

Lower lemma - Beak length-: VERY SHORT TO SHORT

Lower lemma - Beak swelling:

Apical rachis segement - convex face hairiness:

*Grain - colour:

STRONG
RED

Grain - Shape:

Grain - Brush hair length in dorsal view:

Grain - Colouration with phenol: LIGHT TO MEDIUM

*Seasonal type: SPRING

Extra characters:



^{* =} Characteristics which should always be included in the description of the variety. 30 March 2015

Variety Name: KWS SHARKI Crop: Spring Wheat

Breeder's Reference: KW 535-2-12 **AFP No:**

Breeder: KWS LOCHOW GMBH Translated from: German

Origin: Date: 11 April 2019

Code: W2878

Coleoptile-anthocyanin colouration: Very weak to weak

*Plant - growth habit: Semi erect to intermediate

Strong

*Time ear emergence: Medium

Flag leaf - Anthocyanin colouration of auricles:

Frequency of plants with recurved flag leaves:

*Flag leaf - Glaucosity of sheath:

Strong
Flag leaf - Glaucosity of leaf blade:

Strong

Anthers - anthocyanin colouration:
Glaucosity of neck:

Hairiness of uppermost node:

*Plant - height: Medium to long
*Straw - wall thickness @ 20cms below ear: Absent or very thin

*Ear - Glaucosity: Strong

Ear - Supernumerary spikelets - frequency:

*Ear - Colour:

*Ear - Shape (side profile):

Ear - Length:

*Ear - Density:

*Awns or scurs - presence:

White

Parallel

Medium

*Scurs present

Awns or scurs - distibution:

*Scurs at tip of ear - length:

*Awns at tip of ear - length:

Lower glume - Beak length:

Short

Lower glume - Beak shape (curvature): Moderately curved

Lower glume - Beak tip:

Lower glume - Shoulder width:Narrow **Lower glume - Shoulder type:**Straight

Lower glume - External surface roughness:

Lower glume - Extent of internal hairs: Strong to very strong

Lower glume - Internal imprint: Lower lemma - Beak shape: Lower lemma - Beak length-: Lower lemma - Beak swelling:

Apical rachis segement - convex face hairiness:Medium to strong

*Grain - colour: Red

Grain - Shape:

Grain - Brush hair length in dorsal view:

Grain - Colouration with phenol:

*Seasonal type:

Light

Spring

Extra characters:



KWS SPINDRIFT

CHARACTERS IN DETAIL

Ear

Colour white

Lengthmedium to longDensityvery lax to laxShape-side profiletaperingAwns or scurs - presencescurs presentAwns or scurs - distributionupper 3/4Awns or scurs - lengthlong

Apical rachis segment - convex face hairiness weak to medium

Anthers - anthocyanin colouration absent

Lower glume

External surface smooth

Extent of internal hairs strong (group 3)
Beak length short to medium
Beak curvature slightly curved
Shoulder width narrow to medium
Shoulder shape straight to elevated

Lower lemma

Beak curvature slightly to moderately curved

Grain

Colour red

Colouration with phenol medium to dark

Straw

Length medium

Wall thickness @20cms below ear absent or very thin

Glaucosity

Flag leaf - sheath strong

Flag leaf- blade (lower side) medium to strong

Culm - neck strong
Ear strong

Plant growth characters

Coleoptile - anthocyanin colouration absent to weak

Plant - growth habit intermed. to semi-prostrate

Time of ear emergence late



Variety Name: KWS SUNNY Crop: Spring Wheat

Breeder's Reference: KWS W302 AFP No:

Breeder: KWS UK LTD Translated from: Polish

Origin: Date: 27 March 2018

Code: KSUN

Coleoptile-anthocyanin colouration:Strong*Plant - growth habit:Intermediate*Time ear emergence:Medium to lateFlag leaf - Anthocyanin colouration of auricles:Absent or very weak

Frequency of plants with recurved flag leaves:

*Flag leaf - Glaucosity of sheath:

Flag leaf - Glaucosity of leaf blade:

Medium

Anthers - anthocyanin colouration:

Glaucosity of neck: Strong

Hairiness of uppermost node:

*Plant - height: Short

*Straw - wall thickness @ 20cms below ear: Medium

*Ear - Glaucosity: Strong

Ear - Supernumerary spikelets - frequency:

*Ear - Colour: White

*Ear - Shape (side profile): Parallel
Ear - Length: Short

*Ear - Density: Medium to dense

*Awns or scurs - presence: Present

Awns or scurs - distibution:

*Scurs at tip of ear - length: Short to medium

*Awns at tip of ear - length:

Lower glume - Beak length: Short

Lower glume - Beak shape (curvature): Slightly curved

Lower glume - Beak tip:

Lower glume - Shoulder width: Broad

Lower glume - Shoulder type:

Lower glume - External surface roughness:

Lower glume - Extent of internal hairs: Strong

Lower glume - Internal imprint:

Lower lemma - Beak shape: Slightly curved

Lower lemma - Beak length-: Lower lemma - Beak swelling:

Apical rachis segement - convex face hairiness:

*Grain - colour: Red

Grain - Shape:

Grain - Brush hair length in dorsal view:

Grain - Colouration with phenol: Medium to dark

*Seasonal type: Spring

Extra characters:



^{* =} Characteristics which should always be included in the description of the variety. 28 March 2018

KWS SYWELL

CHARACTERS IN DETAIL

Ear

ColourwhiteLengthmediumDensitylaxShape-side profiletaperingAwns or scurs - presencescurs presentAwns or scurs - distributionupper 1/4Awns or scurs - lengthmedium to long

Apical rachis segment - convex face hairiness strong

Anthers - anthocyanin colouration

Lower glume

External surface smooth

Extent of internal hairs strong (group 3)

Beak length short

Beak curvature slightly curved Shoulder width narrow to medium

Shoulder shape straight

Lower lemma

Beak curvature slightly curved

Grain

Colour red
Colouration with phenol medium

Straw

Length medium

Wall thickness @20cms below ear absent or very thin

Glaucosity

Flag leaf - sheath weak
Flag leaf- blade (lower side) weak
Culm - neck weak
Ear weak

Plant growth characters

Coleoptile - anthocyanin colouration absent to weak
Plant - growth habit semi-erect
Time of ear emergence medium to late



KWS TALISKER

CHARACTERS IN DETAIL

Ear

ColourwhiteLengthmediumDensitylaxShape-side profiletaperingAwns or scurs - presencescurs present

Awns or scurs - distribution

Awns or scurs - length long
Apical rachis segment - convex face hairiness medium

Anthers - anthocyanin colouration

Lower glume

External surface smooth

Extent of internal hairs medium (group 2)
Beak length medium to long

Beak curvature slight to moderately curved

Shoulder width narrow
Shoulder shape elevated

Lower lemma

Beak curvature slightly to moderately curved

Grain

Colour red
Colouration with phenol dark

Straw

Length long to very long Wall thickness @20cms below ear absent or very thin

Glaucosity

Flag leaf - sheath medium to strong

Flag leaf- blade (lower side) medium

Culm - neck medium to strong
Ear medium to strong

Plant growth characters

Coleoptile - anthocyanin colouration absent or very weak
Plant - growth habit semi-erect to intermediate

Time of ear emergence medium



KWS TALLAND

CHARACTERS IN DETAIL

Ear

Colour white

Length medium to long

Density lax
Shape-side profile tapering
Awns or scurs - presence scurs present
Awns or scurs - distribution upper 1/2
Awns or scurs - length medium

Apical rachis segment - convex face hairiness medium to strong

Anthers - anthocyanin colouration

Lower glume

External surface smooth
Extent of internal hairs strong (3)
Beak length short to medium
Beak curvature v.slightly curved
Shoulder width narrow to medium

Shoulder shape elevated

Lower lemma

Beak curvature slightly to moderately curved

Grain

Colour red Colouration with phenol dark

Straw

Length short

Wall thickness @20cms below ear absent or very thin

Glaucosity

Flag leaf - sheath strong
Flag leaf- blade (lower side) medium

Culm - neck medium to strong

Ear strong

Plant growth characters

Coleoptile - anthocyanin colouration absent to weak
Plant - growth habit semi-erect
Time of ear emergence medium



KWS TORRIDON

CHARACTERS IN DETAIL

Ear

white Colour Length medium medium Density parallel sided Shape-side profile Awns or scurs - presence scurs present Awns or scurs - distribution upper 1/4 Awns or scurs - length short to medium Apical rachis segment - convex face hairiness medium to strong

Anthers - anthocyanin colouration absent

Lower glume

External surface smooth

Extent of internal hairs strong - Group 3
Beak length short to medium

Beak curvature slight to moderately curved

Shoulder width narrow to medium

Shoulder shape elevated

Lower lemma

Beak curvature moderately curved

Grain

Colour red Colouration with phenol dark

Straw

Length short Wall thickness @20cms below ear thin

Glaucosity

Flag leaf - sheath strong to very strong Flag leaf - blade (lower side) medium to strong

Culm - neck strong

Ear medium to strong

Plant growth characters

Coleoptile - anthocyanin colouration medium
Plant - growth habit semi-erect
Time of ear emergence early



KWS VALE

CHARACTERS IN DETAIL

Ear

Colour white

Lengthshort to mediumDensitylax to mediumShape-side profiletaperingAwns or scurs - presencescurs presentAwns or scurs - distributionupper 1/4Awns or scurs - lengthshort to mediumApical rachis segment - convex face hairinessmedium to strong

Anthers - anthocyanin colouration absent

Anthers - anthocyanin colouration

Lower glume

External surface smooth

Extent of internal hairs strong - Group 3
Beak length medium

Beak curvature moderately curved

Shoulder width narrow Shoulder shape elevated

Lower lemma

Beak curvature moderately curved

Grain

Colour red Colouration with phenol dark

Straw

Length medium Wall thickness @20cms below ear thin

Glaucosity

Flag leaf - sheath medium to strong

Flag leaf- blade (lower side) medium
Culm - neck medium

Ear medium to strong

Plant growth characters

Coleoptile - anthocyanin colouration strong

Plant - growth habit semi-erect to intermediate

Time of ear emergence medium to late



KWS WESTFIELD

CHARACTERS IN DETAIL

Ear

white Colour Length medium lax to medium Density parallel sided Shape-side profile Awns or scurs - presence scurs present Awns or scurs - distribution upper 3/4 Awns or scurs - length long Apical rachis segment - convex face hairiness medium Anthers - anthocyanin colouration absent

Lower glume

External surface smooth

Extent of internal hairs strong - Group 3
Beak length short to medium
Beak curvature slightly curved
Shoulder width narrow
Shoulder shape elevated

Lower lemma

Beak curvature moderately curved

Grain

Colour red

Colouration with phenol medium to dark

Straw

Length medium Wall thickness @20cms below ear thin

Glaucosity

Flag leaf - sheath medium to strong

Flag leaf- blade (lower side) medium
Culm - neck medium

Ear medium to strong

Plant growth characters

Coleoptile - anthocyanin colouration absent to weak
Plant - growth habit semi-erect
Time of ear emergence medium to late



KWS WILLOW

CHARACTERS IN DETAIL

Ear

white Colour Length medium lax to medium Density Shape-side profile tapering Awns or scurs - presence scurs present Awns or scurs - distribution upper 1/4 Awns or scurs - length short to medium Apical rachis segment - convex face hairiness medium to strong

Anthers - anthocyanin colouration

Lower glume

External surface smooth

Extent of internal hairs strong - Group 3

Beak length short

Beak curvature slight to moderately curved

Shoulder width narrow

Shoulder shape sl. sloping to straight

Lower lemma

Beak curvature strongly curved

Grain

Colour red
Colouration with phenol medium

Straw

Length medium Wall thickness @20cms below ear thin

Glaucosity

Flag leaf - sheath strong

Flag leaf- blade (lower side) weak to medium
Culm - neck medium to strong
Ear medium to strong

Plant growth characters

Coleoptile - anthocyanin colouration medium

Plant - growth habit intermed. to semi-prostrate

Time of ear emergence medium



LENNOX

CHARACTERS IN DETAIL

Ear

ColourwhiteLengthmediumDensitylaxShape-side profiletaperingAwns or scurs - presencescurs presentAwns or scurs - distributionupper 1/4Awns or scurs - lengthmedium

Apical rachis segment - convex face hairiness weak to medium

Anthers - anthocyanin colouration

Lower glume

External surface smooth

Extent of internal hairs strong - Group 3

Beak length short
Beak curvature straight
Shoulder width narrow
Shoulder shape elevated

Lower lemma

Beak curvature slightly curved

Grain

Colour red
Colouration with phenol very dark

Straw

Length short to medium

Wall thickness @20cms below ear thin

Glaucosity

Flag leaf - sheath strong
Flag leaf- blade (lower side) strong
Culm - neck strong
Ear strong

Plant growth characters

Coleoptile - anthocyanin colouration medium

Plant - growth habit semi-erect to intermediate

Time of ear emergence medium



LINTON

CHARACTERS IN DETAIL

Ear

Colour white

Lengthshort to mediumDensitymedium to denseShape-side profileparallel sidedAwns or scurs - presencescurs presentAwns or scurs - distributionupper 1/2Awns or scurs - lengthmedium

Apical rachis segment - convex face hairiness medium to strong

Anthers - anthocyanin colouration

Lower glume

External surface smooth
Extent of internal hairs strong (3)
Beak length short to medium
Beak curvature slightly curved
Shoulder width very narrow to narrow

Shoulder shape straight

Lower lemma

Beak curvature slightly to moderately curved

Grain

Colour red

Colouration with phenol medium to dark

Straw

Length short to medium

Wall thickness @20cms below ear medium

Glaucosity

Flag leaf - sheath weak
Flag leaf - blade (lower side) weak
Culm - neck weak
Ear weak

Plant growth characters

Coleoptile - anthocyanin colouration absent to weak

Plant - growth habit semi-erect to intermediate

Time of ear emergence late



MULIKA

CHARACTERS IN DETAIL

Ear

Colour white Length medium medium Density parallel sided Shape-side profile Awns or scurs - presence scurs present Awns or scurs - distribution upper 1/4 Awns or scurs - length medium Apical rachis segment - convex face hairiness strong

Anthers - anthocyanin colouration

Lower glume

External surface smooth

Extent of internal hairs strong - Group 3
Beak length medium

Beak curvature moderately curved

Shoulder width
Shoulder shape
Shoulder shape
Shoulder shape
Shoulder shape
Shoulder shape

Lower lemma

Beak curvature strongly curved

Grain

Colour red Colouration with phenol dark

Straw

Length short to medium

Wall thickness @20cms below ear medium

Glaucosity

Flag leaf - sheath weak
Flag leaf - blade (lower side) weak
Culm - neck weak

Ear weak to medium

Plant growth characters

Coleoptile - anthocyanin colouration weak

Plant - growth habit semi-erect to intermediate

Time of ear emergence medium



Variety Name: MV KARIZMA Crop: SPRING WHEAT

Breeder's Reference: AFP No: 1/

Origin: HUNGREY Date: 22 March 2013

Code: KRZM

Coleoptile-anthocyanin colouration: ABSENT OR VERY WEAK

*Plant - growth habit: SEMI ERECT TO INTERMEDIATE

*Time ear emergence: EARLY

Flag leaf - Anthocyanin colouration of auricles:

Frequency of plants with recurved flag leaves: LOW TO MEDIUM

*Flag leaf - Glaucosity of sheath: STRONG
Flag leaf - Glaucosity of leaf blade: MEDIUM

Anthers - anthocyanin colouration:

Glaucosity of neck: STRONG

Hairiness of uppermost node:

*Plant - height: MEDIUM

*Straw - wall thickness @ 20cms below ear: THIN TO MEDIUM

*Ear - Glaucosity: WEAK

Ear - Supernumerary spikelets - frequency:

*Ear - Colour: WHITE

*Ear - Shape (side profile): TAPERING
Ear - Length: LONG

*Ear - Density: VERY LAX TO LAX *Awns or scurs - presence: AWNS PRESENT

Awns or scurs - distibution: *Scurs at tip of ear - length:

*Awns at tip of ear - length: MEDIUM
Lower glume - Beak length: MEDIUM

Lower glume - Beak shape (curvature): SLIGHTLY CURVED

Lower glume - Beak tip:

Lower glume - Shoulder width:NARROW TO MEDIUMLower glume - Shoulder type:STRAIGHT TO ELEVATED

Lower glume - External surface roughness:

Lower glume - Extent of internal hairs: WEAK

Lower glume - Internal imprint: Lower lemma - Beak shape: Lower lemma - Beak length-: Lower lemma - Beak swelling:

Apical rachis segement - convex face hairiness: MEDIUM *Grain - colour: RED

Grain - Shape:

Grain - Brush hair length in dorsal view:

Grain - Colouration with phenol:

*Seasonal type:

DARK

SPRING

Extra characters:



^{* =} Characteristics which should always be included in the description of the variety. 30 March 2015

NISSABA

CHARACTERS IN DETAIL

Ear

Colour white Length medium lax to medium Density Shape-side profile parallel sided Awns or scurs - presence scurs present upper 1/4 Awns or scurs - distribution Awns or scurs - length short to medium Apical rachis segment - convex face hairiness strong to very strong

Anthers - anthocyanin colouration absent

Lower glume

External surface smooth

Extent of internal hairs strong (group 3)
Beak length medium to long

Beak curvature slight to moderately curved

Shoulder width narrow

Shoulder shape straight to elevated

Lower lemma

Beak curvature moderately to strongly curved

Grain

Colour red Colouration with phenol dark

Straw

Length medium Wall thickness @20cms below ear medium

Glaucosity

Flag leaf - sheath medium to strong
Flag leaf - blade (lower side) weak to medium
Culm - neck medium

Ear medium medium

Plant growth characters

Coleoptile - anthocyanin colouration absent or very weak
Plant - growth habit semi-erect to intermediate

Time of ear emergence medium to late
Flag leaf - anthocyanin of auricles absent or very weak



PARAGON

CHARACTERS IN DETAIL

Ear

Colour white Length long

Density lax to medium
Shape-side profile parallel sided
Awns or scurs - presence scurs present
Awns or scurs - distribution upper 1/4
Awns or scurs - length short
Apical rachis segment - convex face hairiness medium
Anthers - anthocyanin colouration absent

Lower glume

External surface smooth

Extent of internal hairs medium to strong - Group 2+

Beak length short

Beak curvature v.slightly curved

Shoulder width medium

Shoulder shape sl. sloping to straight

Lower lemma

Beak curvature straight to slightly curved

Grain

Colour red

Colouration with phenol medium to dark

Straw

Length medium Wall thickness @20cms below ear thin

Glaucosity

Flag leaf - sheath medium to strong

Flag leaf- blade (lower side)

Culm - neck medium to strong
Ear medium to strong

Plant growth characters

Coleoptile - anthocyanin colouration very strong
Plant - growth habit semi-erect
Time of ear emergence late to very late
Flag leaf - anthocyanin of auricles absent or very weak



Variety Name: Pexeso Crop: Wheat

Breeder's Reference: SG-S49-13 **AFP No:**

Breeder: SELGEN Translated from:

Origin: Date: 06 May 2021

Code: PEXE

Coleoptile-anthocyanin colouration: Weak to medium

*Plant - growth habit: Semi erect to intermediate

*Time ear emergence: Medium to late

Flag leaf - Anthocyanin colouration of auricles:

Frequency of plants with recurved flag leaves: High

*Flag leaf - Glaucosity of sheath: Medium to strong

Flag leaf - Glaucosity of leaf blade: Strong

Anthers - anthocyanin colouration:

Glaucosity of neck: Medium to strong

Hairiness of uppermost node:

*Plant - height: Medium to long

*Straw - wall thickness @ 20cms below ear: Absent or very thin

*Ear - Glaucosity: Strong

Ear - Supernumerary spikelets - frequency:

*Ear - Colour: White *Ear - Shape (side profile): Tapering

Ear - Length:

*Ear - Density:

Medium to long

Medium to dense

*Awns or scurs - presence:

Scurs present

Medium

Awns or scurs - distibution:

*Scurs at tip of ear - length:

*Awns at tip of ear - length:

Medium

Medium

Medium

Lower glume - Beak length:Short to mediumLower glume - Beak shape (curvature):Slightly curved

Lower glume - Beak tip:

Lower glume - Shoulder width: Medium

Lower glume - Shoulder type: Slightly sloping to straight

Lower glume - External surface roughness:

Lower glume - Extent of internal hairs: Weak

Lower glume - Internal imprint: Lower lemma - Beak shape:

Lower lemma - Beak length-: Lower lemma - Beak swelling:

Apical rachis segement - convex face hairiness:

*Grain - colour: Red

Grain - Shape:

Grain - Brush hair length in dorsal view:

Grain - Colouration with phenol:

*Seasonal type:

Medium dark
Spring

Extra characters:

Weak to medium



^{* =} Characteristics which should always be included in the description of the variety. 12 May 2021

RAFFLES

CHARACTERS IN DETAIL

Ear

Colour white

Length short to medium Density lax to medium parallel sided Shape-side profile Awns or scurs - presence scurs present Awns or scurs - distribution upper 1/2 Awns or scurs - length medium Apical rachis segment - convex face hairiness medium Anthers - anthocyanin colouration absent

Lower glume

External surface smooth

Extent of internal hairs strong - Group 3
Beak length short to medium
Beak curvature slightly curved

Shoulder width narrow

Shoulder shape straight to elevated

Lower lemma

Beak curvature slightly curved

Grain

Colour red Colouration with phenol dark

Straw

Length short Wall thickness @20cms below ear medium

Glaucosity

Flag leaf - sheath medium

Flag leaf- blade (lower side)

Culm - neck weak to medium

Ear medium

Plant growth characters

Coleoptile - anthocyanin colouration medium

Plant - growth habit semi-erect

Time of ear emergence medium to late

Flag leaf - anthocyanin of auricles very weak



RGT DOUBLESHOT

CHARACTERS IN DETAIL

Ear

ColourwhiteLengthmediumDensitylax to mediumShape-side profiletaperingAwns or scurs - presencescurs presentAwns or scurs - distributionupper 3/4Awns or scurs - lengthlong

Apical rachis segment - convex face hairiness medium to strong

Anthers - anthocyanin colouration

Lower glume

External surface slightly rough
Extent of internal hairs strong (3)
Beak length short

Beak curvature slightly curved
Shoulder width medium to broad

Shoulder shape straight

Lower lemma

Beak curvature moderately curved

Grain

Colour red
Colouration with phenol light

Straw

Length medium

Wall thickness @20cms below ear absent or very thin

Glaucosity

Flag leaf - sheath medium
Flag leaf - blade (lower side) medium
Culm - neck medium
Ear medium

Plant growth characters

Coleoptile - anthocyanin colouration weak to medium
Plant - growth habit semi-erect
Time of ear emergence medium to late



Variety Name: Servus

Crop: Spring wheat

Breeder's Reference: STRU 112230.1 **AFP No:**

Breeder: Strube Research GmbH & Co

Translated from: German

Origin: 28 April 2020

Code: SERV

Coleoptile-anthocyanin colouration:Medium to strong*Plant - growth habit:Intermediate*Time ear emergence:Medium

Flag leaf - Anthocyanin colouration of auricles:

Frequency of plants with recurved flag leaves: Low

*Flag leaf - Glaucosity of sheath: Strong to very strong Flag leaf - Glaucosity of leaf blade: Medium to strong

Anthers - anthocyanin colouration:

Glaucosity of neck: Strong to very strong

Hairiness of uppermost node:

*Plant - height: Short to medium

*Straw - wall thickness @ 20cms below ear: Very thick or filled

*Ear - Glaucosity: Strong to very strong

Ear - Supernumerary spikelets - frequency:

*Ear - Colour: White

*Ear - Shape (side profile): Parallel sided
Ear - Length: Short

*Ear - Density: Medium to dense

*Awns or scurs - presence: Scurs present

Awns or scurs - distibution:

*Scurs at tip of ear - length: Very short

*Awns at tip of ear - length:

Lower glume - Beak length: Very short

Lower glume - Beak shape (curvature): Straight to slightly curved

Lower glume - Beak tip:

Lower glume - Shoulder width:

Narrow
Lower glume - Shoulder type:

Straight

Lower glume - External surface roughness:

Lower glume - Extent of internal hairs: Strong to very strong

Lower glume - Internal imprint: Lower lemma - Beak shape: Lower lemma - Beak length-: Lower lemma - Beak swelling:

Apical rachis segement - convex face hairiness:

*Grain - colour:

Red

Grain - Shape:

Grain - Brush hair length in dorsal view:

Grain - Colouration with phenol:Medium to dark

*Seasonal type: Spring

Extra characters:



06 May 2020

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

SHACKLETON

CHARACTERS IN DETAIL

Ear

ColourwhiteLengthmediumDensitylax to mediumShape-side profiletaperingAwns or scurs - presencescurs presentAwns or scurs - distributiontip onlyAwns or scurs - lengthshort

Apical rachis segment - convex face hairiness strong to very strong

Anthers - anthocyanin colouration

Lower glume

External surface smooth

Extent of internal hairs strong to whole surface

Beak length short

Beak curvature slightly curved

Shoulder width narrow

Shoulder shape straight to elevated

Lower lemma

Beak curvature slightly curved

Grain

Colour red

Colouration with phenol medium to dark

Straw

Length short to medium Wall thickness @20cms below ear medium

Glaucosity

Flag leaf - sheath medium to strong
Flag leaf - blade (lower side) weak to medium

Culm - neck strong
Ear strong

Plant growth characters

Coleoptile - anthocyanin colouration medium to strong

Plant - growth habit semi-erect to intermediate

Time of ear emergence late



SLINKI

CHARACTERS IN DETAIL

Ear

Colour white

Lengthshort to mediumDensitymedium to denseShape-side profileparallel sidedAwns or scurs - presencescurs presentAwns or scurs - distributionupper 1/2Awns or scurs - lengthmedium to long

Apical rachis segment - convex face hairiness weak to medium

Anthers - anthocyanin colouration absent

Lower glume

External surface smooth
Extent of internal hairs strong
Beak length medium

Beak curvature slight to moderately curved Shoulder width very narrow to narrow

Shoulder shape straight

Lower lemma

Beak curvature moderately curved

Grain

Colour white Colouration with phenol dark

Straw

Length short

Wall thickness @20cms below ear very thick or filled

Glaucosity

Flag leaf - sheath weak
Flag leaf- blade (lower side) weak

Culm - neck weak to medium

Ear medium

Plant growth characters

Coleoptile - anthocyanin colouration weak

Plant - growth habit semi-erect to intermediate

Time of ear emergence medium to late



Variety Name: SONETT Crop: SPRING WHEAT

Breeder's Reference: AFP No: 1

Breeder: LANTMANNEN SW SEED **Translated from:**

Origin: GERMANY Date: 16 April 2013

Code: SONE

Coleoptile-anthocyanin colouration: STRONG

*Plant - growth habit: SEMI-ERECT TO INTERMEDIATE

*Time ear emergence: EARLY TO MEDIUM

Flag leaf - Anthocyanin colouration of auricles:

Frequency of plants with recurved flag leaves:

*Flag leaf - Glaucosity of sheath:

HIGH TO VERY HIGH

MEDIUM TO STRONG

Flag leaf - Glaucosity of leaf blade:

WEAK TO MEDIUM

Anthers - anthocyanin colouration:

Glaucosity of neck: MEDIUM

Hairiness of uppermost node:

*Plant - height: MEDIUM
*Straw - wall thickness @ 20cms below ear: VERY THIN

*Ear - Glaucosity: WEAK TO MEDIUM

Ear - Supernumerary spikelets - frequency:

*Ear - Colour: WHITE
*Ear - Shape (side profile): TAPERING

Ear - Length: MEDIUM TO LONG

*Ear - Density: LAX

*Awns or scurs - presence: SCURS PRESENT

Awns or scurs - distibution:

*Scurs at tip of ear - length: SHORT TO MEDIUM

*Awns at tip of ear - length: Lower glume - Beak length:

Lower glume - Beak shape (curvature):

Lower glume - Beak tip:

Lower glume - Shoulder width:

NARROW TO MEDIUM
Lower glume - Shoulder type:

SLIGHTLY SLOPING

Lower glume - External surface roughness:

Lower glume - Extent of internal hairs: STRONG TO VERY STRONG

Lower glume - Internal imprint:

Lower lemma - Beak shape: STRAIGHT
Lower lemma - Beak length-: VERY SHORT

Lower lemma - Beak swelling:

Apical rachis segement - convex face hairiness:*Grain - colour:

STRONG
RED

Grain - Shape:

Grain - Brush hair length in dorsal view:

Grain - Colouration with phenol: LIGHT TO MEDIUM

*Seasonal type: SPRING



^{* =} Characteristics which should always be included in the description of the variety. 30 March 2015

SPARROW

CHARACTERS IN DETAIL

Ear

Colour white Length medium lax to medium Density parallel sided Shape-side profile Awns or scurs - presence scurs present Awns or scurs - distribution upper 1/2 Awns or scurs - length long Apical rachis segment - convex face hairiness strong Anthers - anthocyanin colouration absent

Lower glume

External surface slightly rough
Extent of internal hairs strong - Group 3
Beak length medium
Beak curvature slightly curved
Shoulder width narrow
Shoulder shape elevated

Lower lemma

Beak curvature straight

Grain

Colour

Colouration with phenol medium to dark

Straw

Length long Wall thickness @20cms below ear thin

Glaucosity

Flag leaf - sheath weak
Flag leaf - blade (lower side) weak
Culm - neck medium
Ear medium

Plant growth characters

Coleoptile - anthocyanin colouration

Plant - growth habit semi-erect Time of ear emergence medium



STR CHEETAH

CHARACTERS IN DETAIL

Ear

ColourwhiteLengthmediumDensitylax to mediumShape-side profiletaperingAwns or scurs - presencescurs presentAwns or scurs - distributionupper 1/2Awns or scurs - lengthmedium

Apical rachis segment - convex face hairiness small to medium

Anthers - anthocyanin colouration absent

Lower glume

External surface smooth

Extent of internal hairs strong (group 3)

Beak length short

Beak curvature v.slightly curved
Shoulder width very narrow to narrow
Shoulder shape slightly elevated

Lower lemma

Beak curvature slightly curved

Grain

Colour reddish

Colouration with phenol dark to very dark

Straw

Length long Wall thickness @20cms below ear thin

Glaucosity

Flag leaf - sheath strong
Flag leaf - blade (lower side) strong
Culm - neck strong

Ear medium to strong

Plant growth characters

Coleoptile - anthocyanin colouration weak

Plant - growth habit semi-erect to intermediate

Time of ear emergence medium

Flag leaf - anthocyanin of auricles absent or very weak



STRAVINSKY

medium

CHARACTERS IN DETAIL

Ear

ColourwhiteLengthmediumDensitylax to mediumShape-side profiletaperingAwns or scurs - presencescurs presentAwns or scurs - distributionupper 1/2Awns or scurs - lengthmedium to long

Apical rachis segment - convex face hairiness

Anthers - anthocyanin colouration

Lower glume

External surface smooth
Extent of internal hairs strong (3)
Beak length medium

Beak curvature moderately curved

Shoulder width medium Shoulder shape elevated

Lower lemma

Beak curvature moderately to strongly curved

Grain

Colour red
Colouration with phenol medium

Straw

Length medium

Wall thickness @20cms below ear absent or very thin

Glaucosity

Flag leaf - sheath strong

Flag leaf- blade (lower side) medium to strong
Culm - neck medium to strong

Ear strong

Plant growth characters

Coleoptile - anthocyanin colouration absent to weak

Plant - growth habit semi-erect to intermediate

Time of ear emergence late



Variety Name: SU Ahab Crop: Spring Wheat

Breeder's Reference: STRU 093755s 15 **AFP No:**

Breeder: Strube Research GmbH & Co

Translated from: German

Origin: 28 April 2020

Code: AHAB

Coleoptile-anthocyanin colouration:Absent to very weak*Plant - growth habit:Semi prostrate*Time ear emergence:Early to medium

Flag leaf - Anthocyanin colouration of auricles:

Frequency of plants with recurved flag leaves: Low to medium

*Flag leaf - Glaucosity of sheath: Strong

Flag leaf - Glaucosity of leaf blade: Strong to very strong

Anthers - anthocyanin colouration:

Glaucosity of neck: Strong

Hairiness of uppermost node:

*Plant - height: Medium to long

*Straw - wall thickness @ 20cms below ear: Absent or very thin

*Ear - Glaucosity: Medium to strong

Ear - Supernumerary spikelets - frequency:

*Ear - Colour: White

*Ear - Shape (side profile): Tapering

Ear - Length: Short to medium

*Ear - Density: Medium

*Awns or scurs - presence: Scurs present

Awns or scurs - distibution:

*Scurs at tip of ear - length: Very short to short

*Awns at tip of ear - length:

Lower glume - Beak length: Short

Lower glume - Beak shape (curvature):Slightly curved to moderately curved

Lower glume - Beak tip:

Lower glume - Shoulder width: Narrow to medium

Lower glume - Shoulder type: Slightly sloping top straight

Lower glume - External surface roughness:

Lower glume - Extent of internal hairs: Strong to very strong

Lower glume - Internal imprint: Lower lemma - Beak shape: Lower lemma - Beak length-: Lower lemma - Beak swelling:

Apical rachis segement - convex face hairiness: Medium *Grain - colour: Red

Grain - Shape:

Grain - Brush hair length in dorsal view:

Grain - Colouration with phenol:Medium to dark

*Seasonal type: Spring



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

Variety Name: SU Alvius Crop: Spring Wheat

Breeder's Reference: STRU 05-500-01109 **AFP No:**

Breeder: Strube Research GmbH Translated from: German

Origin: Date: 20 April 2023

Code: SUAL

Coleoptile-anthocyanin colouration:*Plant - growth habit:
very weak to weak
semi-erect to intermediate

*Time ear emergence: early to medium

Flag leaf - Anthocyanin colouration of auricles:

Frequency of plants with recurved flag leaves: low *Flag leaf - Glaucosity of sheath: very strong

Flag leaf - Glaucosity of leaf blade: strong to very strong

Anthers - anthocyanin colouration:

Glaucosity of neck: very strong

Hairiness of uppermost node:

*Plant - height: medium
*Straw - wall thickness @ 20cms below ear: medium

*Ear - Glaucosity: strong to very strong

Ear - Supernumerary spikelets - frequency:

*Ear - Colour: white *Ear - Shape (side profile): parallel Ear - Length: short

*Ear - Density: dense to very dense

*Awns or scurs - presence: present

Awns or scurs - distibution:

*Scurs at tip of ear - length: very short to short

*Awns at tip of ear - length:

Lower glume - Beak length: very short to short

Lower glume - Beak shape (curvature): slightly to moderately curved

Lower glume - Beak tip:

Lower glume - Shoulder width: narrow

Lower glume - Shoulder type: slightly sloping to straight

Lower glume - External surface roughness:

Lower glume - Extent of internal hairs: strong

Lower glume - Internal imprint: Lower lemma - Beak shape: Lower lemma - Beak length-: Lower lemma - Beak swelling:

Apical rachis segement - convex face hairiness:

*Grain - colour: red

Grain - Shape:

Grain - Brush hair length in dorsal view:

Grain - Colouration with phenol: medium to dark

*Seasonal type: Spring



^{* =} Characteristics which should always be included in the description of the variety. 20 April 2023

Variety Name: SU Tarrafal

Crop: Spring wheat

Breeder's Reference: STRU 093744 s 15 **AFP No:**

Breeder: Strube Research GmbH & Co

Translated from: German

Origin: 28 April 2020

Code: TARR

Coleoptile-anthocyanin colouration: Strong

*Plant - growth habit: Intermediate to semi prostrate

*Time ear emergence: Early to medium

Flag leaf - Anthocyanin colouration of auricles:

Frequency of plants with recurved flag leaves: Medium

*Flag leaf - Glaucosity of sheath: Medium to strong

Flag leaf - Glaucosity of leaf blade: Medium

Anthers - anthocyanin colouration:

Glaucosity of neck: Medium to strong

Hairiness of uppermost node:

*Plant - height: Medium

*Straw - wall thickness @ 20cms below ear: Absent or very thin
*Ear - Glaucosity: Weak to medium

Ear - Supernumerary spikelets - frequency:

*Ear - Colour: White

*Ear - Shape (side profile): Tapering
Ear - Length: Medium

*Ear - Density: Medium

*Awns or scurs - presence: Scurs present

Awns or scurs - distibution:

*Scurs at tip of ear - length: Very short

*Awns at tip of ear - length: Lower glume - Beak length:

Lower glume - Beak shape (curvature):

Lower glume - Beak tip:

Lower glume - Shoulder width:Narrow to medium **Lower glume - Shoulder type:**Slightly sloping to straight

Lower glume - External surface roughness:

Lower glume - Extent of internal hairs: Strong to very strong

Lower glume - Internal imprint:

Lower lemma - Beak shape: Slightly curved
Lower lemma - Beak length-: Very short to short

Lower lemma - Beak swelling:

Apical rachis segement - convex face hairiness: Medium to strong

*Grain - colour: Red

Grain - Shape:

Grain - Brush hair length in dorsal view:

Grain - Colouration with phenol: Medium to dark

*Seasonal type: Spring



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

THURIO

CHARACTERS IN DETAIL

Ear

Colour white

Length medium to long

Density lax

Shape-side profile parallel sided
Awns or scurs - presence awns present
Awns or scurs - distribution whole length
Awns or scurs - length very long
Apical rachis segment - convex face hairiness medium

Apical rachis segment - convex face hairiness medium
Anthers - anthocyanin colouration absent

Lower glume

External surface slightly rough
Extent of internal hairs strong (3)

Beak length long to very long
Beak curvature moderately curved
Shoulder width absent or very narrow

Shoulder shape elevated

Lower lemma

Beak curvature slightly curved

Grain

Colour red
Colouration with phenol medium

Straw

Length medium

Wall thickness @20cms below ear very thick or filled

Glaucosity

Flag leaf - sheath medium to strong

Flag leaf- blade (lower side) medium

Culm - neck medium to strong
Ear medium to strong

Plant growth characters

Flag leaf - anthocyanin of auricles

Coleoptile - anthocyanin colouration weak to medium Plant - growth habit semi-erect

Time of ear emergence medium



TOLSTOY

CHARACTERS IN DETAIL

Ear

Colour white

Length short to medium

Density lax

Shape-side profile parallel sided
Awns or scurs - presence scurs present
Awns or scurs - distribution upper 1/4
Awns or scurs - length long
Apical rachis segment - convex face hairiness strong
Anthers - anthocyanin colouration absent

Lower glume

External surface smooth

Extent of internal hairs strong (group 3)
Beak length short to medium
Beak curvature slightly curved
Shoulder width medium
Shoulder shape straight

Lower lemma

Beak curvature slightly curved

Grain

Colour red
Colouration with phenol dark

Straw

Length short Wall thickness @20cms below ear medium

Glaucosity

Flag leaf - sheath strong to very strong
Flag leaf- blade (lower side) strong to very strong

Culm - neck strong
Ear strong

Plant growth characters

Coleoptile - anthocyanin colouration weak
Plant - growth habit intermediate
Time of ear emergence late to very late



TYBALT

CHARACTERS IN DETAIL

Ear

ColourwhiteLengthmediumDensitymediumShape-side profiletaperingAwns or scurs - presencescurs present

Awns or scurs - distribution

Awns or scurs - length short

Apical rachis segment - convex face hairiness absent or very weak

Anthers - anthocyanin colouration

Lower glume

External surface

Extent of internal hairs strong - Group 3

Beak length short

Beak curvature slightly curved Shoulder width medium

Shoulder shape sl. sloping to straight

Lower lemma

Beak curvature straight

Grain

Colour red
Colouration with phenol medium

Straw

Length short
Wall thickness @20cms below ear medium

Glaucosity

Flag leaf - sheath strong

Flag leaf- blade (lower side)

Culm - neck medium to strong
Ear medium to strong

Plant growth characters

Coleoptile - anthocyanin colouration weak
Plant - growth habit semi-erect
Time of ear emergence medium to late



VARSITY

CHARACTERS IN DETAIL

Ear

Colour white

Length medium to long

Density lax

Shape-side profile parallel sided
Awns or scurs - presence scurs present
Awns or scurs - distribution upper 1/2
Awns or scurs - length medium to long

Apical rachis segment - convex face hairiness strong

Anthers - anthocyanin colouration

Lower glume

External surface slightly rough
Extent of internal hairs strong (3)
Beak length medium

Beak curvature moderately curved Shoulder width marrow to medium

Shoulder shape elevated

Lower lemma

Beak curvature moderately curved

Grain

Colour red

Colouration with phenol medium to dark

Straw

Length very short to short

Wall thickness @20cms below ear medium

Glaucosity

Flag leaf - sheath medium to strong
Flag leaf - blade (lower side) medium to strong
Culm - neck medium to strong
Ear medium to strong

Plant growth characters

Coleoptile - anthocyanin colouration absent to weak
Plant - growth habit semi-erect
Time of ear emergence medium to late



WICKEN

CHARACTERS IN DETAIL

Ear

Colour white Length long

Density very lax to lax
Shape-side profile tapering
Awns or scurs - presence scurs present
Awns or scurs - distribution upper 1/2
Awns or scurs - length long to very long
Apical rachis segment - convex face hairiness medium to strong

Anthers - anthocyanin colouration

Lower glume

External surface smooth

Extent of internal hairs strong to whole surface

Beak length lor

Beak curvature slight to moderately curved

Shoulder width narrow to medium
Shoulder shape straight to elevated

Lower lemma

Beak curvature slightly curved

Grain

Colour red

Colouration with phenol medium to dark

Straw

Length long

Wall thickness @20cms below ear absent or very thin

Glaucosity

Flag leaf - sheath medium to strong
Flag leaf - blade (lower side) medium to strong
Culm - neck medium to strong

Ear strong

Plant growth characters

Coleoptile - anthocyanin colouration strong

Plant - growth habit semi-erect to intermediate

Time of ear emergence late



WPB ARCADE

CHARACTERS IN DETAIL

Ear

Colour white

Lengthshort to mediumDensitylax to mediumShape-side profiletaperingAwns or scurs - presencescurs presentAwns or scurs - distributionupper 1/4Awns or scurs - lengthmedium to long

Apical rachis segment - convex face hairiness strong
Anthers - anthocyanin colouration absent

Lower glume

External surface smooth

Extent of internal hairs strong to whole surface

Beak length short
Beak curvature straight

Shoulder width narrow to medium
Shoulder shape straight to elevated

Lower lemma

Beak curvature

Grain

Colour red

Colouration with phenol very light to light

Straw

Length medium

Wall thickness @20cms below ear absent or very thin

Glaucosity

Flag leaf - sheath strong to very strong

Flag leaf- blade (lower side) strong
Culm - neck strong
Ear strong

Plant growth characters

Coleoptile - anthocyanin colouration very weak to weak

Plant - growth habit semi-erect to intermediate

Time of ear emergence medium to late
Flag leaf - anthocyanin of auricles absent or very weak



WPB ESCAPE

CHARACTERS IN DETAIL

Ear

Colour white

Lengthmedium to longDensitylax to mediumShape-side profiletaperingAwns or scurs - presencescurs presentAwns or scurs - distributionupper 1/4Awns or scurs - lengthmedium to long

Apical rachis segment - convex face hairiness strong
Anthers - anthocyanin colouration absent

Lower glume

External surface smooth

Extent of internal hairs strong to whole surface

Beak length medium

Beak curvature v.slightly curved

Shoulder width narrow
Shoulder shape elevated

Lower lemma

Beak curvature slightly to moderately curved

Grain

Colour red

Colouration with phenol very light to light

Straw

Length medium

Wall thickness @20cms below ear absent or very thin

Glaucosity

Flag leaf - sheath medium to strong
Flag leaf - blade (lower side) medium to strong
Culm - neck medium to strong
Ear medium to strong

Plant growth characters

Coleoptile - anthocyanin colouration very weak to weak
Plant - growth habit very weak to weak
semi-erect to intermediate

Time of ear emergence medium to late
Flag leaf - anthocyanin of auricles absent or very weak



WPB PASCOE

CHARACTERS IN DETAIL

Ear

ColourwhiteLengthmediumDensitylaxShape-side profiletaperingAwns or scurs - presenceawns present

Awns or scurs - distribution

Awns or scurs - length long to very long

Apical rachis segment - convex face hairiness medium

Anthers - anthocyanin colouration

Lower glume

External surface smooth

Extent of internal hairs strong to whole surface
Beak length long to very long
Beak curvature v.slightly curved
Shoulder width very narrow to narrow
Shoulder shape straight to elevated

Lower lemma

Beak curvature slightly curved

Grain

Colour red

Colouration with phenol dark to very dark

Straw

Length medium to long Wall thickness @20cms below ear medium

Glaucosity

Flag leaf - sheath medium Flag leaf - blade (lower side) medium

Culm - neck medium to strong

Ear strong

Plant growth characters

Coleoptile - anthocyanin colouration very weak to weak
Plant - growth habit semi-erect to intermediate

Time of ear emergence medium



WPB POINTER

CHARACTERS IN DETAIL

Ear

Colour white
Length medium
Density lax
Shape-side profile tapering
Awns or scurs - presence scurs present
Awns or scurs - distribution upper 3/4
Awns or scurs - length long to very 1

Awns or scurs - length long to very long Apical rachis segment - convex face hairiness medium to strong

Anthers - anthocyanin colouration absent

Lower glume

External surface smooth
Extent of internal hairs strong (group 3)

Beak length medium
Beak curvature slightly curved
Shoulder width narrow

Shoulder shape straight to elevated

Lower lemma

Beak curvature slightly curved

Grain

Colour red
Colouration with phenol dark

Straw

Length long to very long Wall thickness @20cms below ear absent or very thin

Glaucosity

Flag leaf - sheath medium to strong

Flag leaf- blade (lower side) medium

Culm - neck medium to strong
Ear medium to strong

Plant growth characters

Coleoptile - anthocyanin colouration absent to weak
Plant - growth habit intermediate
Time of ear emergence medium



WPB ROVER

CHARACTERS IN DETAIL

Ear

Colour white

Lengthshort to mediumDensitymediumShape-side profileparallel sidedAwns or scurs - presencescurs presentAwns or scurs - distributionupper 1/4Awns or scurs - lengthmedium to long

Apical rachis segment - convex face hairiness large
Anthers - anthocyanin colouration absent

Lower glume

External surface smooth

Extent of internal hairs strong (group 3)
Beak length medium
Beak curvature slightly curved
Shoulder width narrow to medium
Shoulder shape slightly elevated

Lower lemma

Beak curvature moderately curved

Grain

Colour reddish Colouration with phenol dark

Straw

Length short
Wall thickness @20cms below ear medium

Glaucosity

Flag leaf - sheath strong

Flag leaf- blade (lower side) medium to strong
Culm - neck medium to strong
Ear medium to strong

Plant growth characters

Coleoptile - anthocyanin colouration weak
Plant - growth habit semi-erect
Time of ear emergence medium

Flag leaf - anthocyanin of auricles absent or very weak



YUNUHE

CHARACTERS IN DETAIL

Ear

Colour white
Length medium
Density medium
Shape-side profile tapering
Awns or scurs - presence scurs present
Awns or scurs - distribution upper 1/4
Awns or scurs - length short

Apical rachis segment - convex face hairiness small to medium

Anthers - anthocyanin colouration absent

Lower glume

External surface smooth

Extent of internal hairs strong (group 3)
Beak length short to medium

Beak curvature slight to moderately curved

Shoulder width narrow
Shoulder shape horizontal

Lower lemma

Beak curvature moderately to strongly curved

Grain

Colour reddish

Colouration with phenol dark to very dark

Straw

Length long

Wall thickness @20cms below ear

Glaucosity

Flag leaf - sheath strong
Flag leaf - blade (lower side) strong
Culm - neck strong
Ear strong

Plant growth characters

Coleoptile - anthocyanin colouration weak
Plant - growth habit intermediate
Time of ear emergence medium to late
Flag leaf - anthocyanin of auricles absent or very weak



ZIRCON

CHARACTERS IN DETAIL

Ear

ColourwhiteLengthmediumDensitylax to mediumShape-side profileparallel sidedAwns or scurs - presencescurs presentAwns or scurs - distributionupper 1/4Awns or scurs - lengthmedium

Apical rachis segment - convex face hairiness weak to medium

Anthers - anthocyanin colouration absent

Lower glume

External surface smooth

Extent of internal hairs medium - Group 2

Beak length short

Beak curvature slightly curved Shoulder width medium

Shoulder shape straight to elevated

Lower lemma

Beak curvature slightly curved

Grain

Colour red
Colouration with phenol medium

Straw

Length short to medium

Wall thickness @20cms below ear medium

Glaucosity

Flag leaf - sheath strong

Flag leaf- blade (lower side)

Culm - neck strong
Ear strong

Plant growth characters

Coleoptile - anthocyanin colouration

Plant - growth habit intermediate
Time of ear emergence medium to late
Flag leaf - anthocyanin of auricles absent or very weak



ZOLA

CHARACTERS IN DETAIL

Ear

Colour white Length medium Density lax Shape-side profile tapering Awns or scurs - presence scurs present Awns or scurs - distribution upper 1/2 medium Awns or scurs - length Apical rachis segment - convex face hairiness medium Anthers - anthocyanin colouration absent

Lower glume

External surface smooth

Extent of internal hairs strong (group 3)
Beak length medium
Beak curvature strongly curved
Shoulder width medium

Shoulder shape straight to elevated

Lower lemma

Beak curvature slightly curved

Grain

Colour red

Colouration with phenol dark to very dark

Straw

Length short

Wall thickness @20cms below ear absent or very thin

Glaucosity

Flag leaf - sheath strong
Flag leaf - blade (lower side) strong
Culm - neck medium
Ear medium

Plant growth characters

Coleoptile - anthocyanin colouration medium

Plant - growth habit semi-erect to intermediate

Time of ear emergence medium

