

Variety Name: **Explorer**

Crop: Spring Barley

Breeders Reference:

AFP No:

Breeder: Secobra Recherches

Translated from: French

Origin:

Date: 11 March 2014

Code: EXPL

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

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

30 March 2015



Item #2: Morphological characteristics and variants

VARIETY OBJECTIVE DESCRIPTION

Barley ~~WHEAT~~ (~~Triticum aestivum~~) hordeum

Variety Name: ~~LCS-Bianco~~ Explorer

1. KIND OF WHEAT: Barley

Common Durum _____ Emmer _____ Spelt _____ Malt
Polish _____ Poulard _____ Club _____

If Common, state kernel characteristics: Soft White

2. SEASONAL GROWTH HABIT:

Winter Spring Other _____

3. COLEOPTILE COLOR:

White _____ Red Other _____

4. JUVENILE GROWTH HABIT:

Prostrate _____ Semi-Erect Erect _____

5. LEAF COLOR AT BOOT:

Yellow-Green _____ Green

Blue-Green Gray-Blue _____

6. FLAG LEAF AT BOOT: (Multiple descriptors may be selected)

Erect Re-curved _____

Twisted _____ Not-Twisted

Wax Absent _____ Wax Present

7. AURICLE COLOR:

White Purple _____ Other Red

8. HEADING DATE / ANTHESIS:

Average number of days to 50% heading ¹⁵² ~~133~~ (Julian)

This averages ³⁴ days Earlier Later (select one, using X)
than ~~LCS-Ardico~~ (known variety)

Sebastian

9. ANTHOR COLOR:

Yellow x Purple **STEM CHARACTERISTICS**

10. ANTHOCYANIN:

Absent M Present X

11. PLANT HEIGHT:

Averages 70 Centimeters:

Average in centimeters (insert height in Item 5.11 of Summary Description, page 7)

This is cm TALLER 5 cm SHORTER (select one, using X)than Same as LCS Artdeeo (known variety)
 sebastian

12. INTERNODES:

Hollow X Solid Semi-solid X **SPIKE CHARACTERISTICS (at maturity)**

13. SHAPE:

Tapering x Oblong Clavate Elliptical

14. DENSITY:

Lax Mid Dense x Dense

15. CURVATURE (Orientation at maturity):

Erect Inclined x Nodding

16. AWNS:

Awnless Apically awnletted M Awnletted Awned X

17. AWN COLOR:

White x Black Brown Tan **GLUME CHARACTERISTICS (at maturity)**

18. COLOR:

Tan White/Amber x Other

19. LENGTH:

Short Medium x Long

20. SHOULDER SHAPE:

Wanting _____ Oblique _____ Rounded _____
Square _____ Elevated x Apiculate _____

21. SHOULDER WIDTH:

Narrow _____ Medium A Wide _____

22. BEAK SHAPE:

Acuminate _____ Obtuse _____ Acute A

23. BEAK LENGTH:

Short A Medium _____ Long _____ Very long _____

24. PUBESCENCE:

Present _____ Absent (glabrous) A

SEED CHARACTERISTICS

25. COLOR:

White x Amber _____ Red _____ Other _____

26. SHAPE:

Ovate A Oval X Elliptical _____

N/A 27. CHEEK:

Rounded _____ Angular A

N/A 28. BRUSH:

Short A Medium _____ Long _____

29. AVERAGE 1,000-KERNEL WEIGHT (Insert weight and X for comparison)

56 gm. - which is: Lighter than A Same as _____ Heavier than _____
LCS Antee (Known variety)

30. OTHER:

List any other traits or special markers that may be helpful in identifying the variety, including characteristics determined by molecular or bioassay methods that might be required as a condition of eligibility for final certification. None at this time

Development of sterile spikelets (non or rudimentary)

Ear : glaucosity weak

G.E.V.E.S. La Minière
F - 78285 Guyancourt Cedex
☎ : + 33 (0)1.30.83.36.11
fax : + 33 (0)1.30.83.36.29

FORMULAIRE N°2

D.H.S. ORGE

à établir en 4 exemplaires rédigés en français
/ in 4 copies, in french

QUESTIONNAIRE TECHNIQUE
à remplir en relation avec une demande

TECHNICAL QUESTIONNAIRE
to be completed in connection with an application

1. ESPECE / SPECIES <p style="text-align: center;"><u>Hordeum vulgare L. sensu lato</u> ORGE / BARLEY</p>
2. DEPOSANT (nom et adresse) / APPLICANT (name and address) <p>SECOBRA Recherches Centre de Bois-Henry 78580 MAULE</p>
3. DENOMINATION PROPOSEE ou REFERENCE DE L'OBTENTEUR / Proposed denomination or breeder's reference <ul style="list-style-type: none">• Référence de l'obteneur / Breeder's reference : 65/03 NZ 22G• Dénomination proposée / Proposed denomination :
4. RENSEIGNEMENTS SUR L'ORIGINE, LE MAINTIEN ET LA REPRODUCTION DE LA VARIETE / Information on origin, maintenance and reproduction of the variety <p>ORIGINE: MARNIE x BEATRIX MAINTIEN: Sélection généalogique conservatrice.....</p>
<p>Pour les variétés hybrides, indiquer le nom des constituants. Fournir une description à l'aide du formulaire n°2 "D.H.S. Orge" pour tout constituant qui n'a pas encore subi avec succès l'épreuve D.H.S., en veillant à préciser son origine génétique. / In case of hybrid varieties, please indicate the name of each component. This form n°2 DUS is to be completed for each new component (for which DUS test has not been carried out) in separate sheets, with information on genetic origin.</p>

5. **Caractères de la variété à indiquer (le chiffre entre parenthèses renvoie au caractère correspondant dans les principes directeurs d'examen ref. TG/19/10 version 04/11/94; prière de marquer d'une croix le niveau d'expression approprié)**
Characteristics of the variety to be given (the number in brackets refers to the corresponding characteristics in the Test Guidelines ref. TG /19/10; please mark the state of expression which best corresponds)

	Caractères <i>Characteristics</i>		Variétés témoins <i>Example varieties</i>	Note
5.1	TYPE DE DEVELOPPEMENT :	Type hiver / Winter type	-, INTRO	1 <input type="checkbox"/>
(29)	SEASONAL TYPE	Type alternatif / Alternative type	-, ESTEREL	2 <input type="checkbox"/>
		Type printemps / Spring type	SCARLETT, -	3 <input checked="" type="checkbox"/>
5.2	FEUILLES DE LA BASE : Pilosité des gaines	Absente / Absent	SCARLETT, ORELIE	1 <input checked="" type="checkbox"/>
(2)	LOWEST LEAVES : Hairiness of leaf sheaths	Présente / Present	CERES, ESTEREL	9 <input type="checkbox"/>
-	DERNIÈRE FEUILLE :			
(3)	Pigmentation anthocyanique des oreillettes	Absente / Absent	FLIKA, NIKEL	1 <input type="checkbox"/>
	FLAG LEAF : Anthocyanin coloration of auricles	Présente / Present	SCARLETT, ESTEREL	9 <input checked="" type="checkbox"/>
5.3	EPOQUE D'ÉPIAISON : (premier épillet visible sur 50% des épis; indiquer la date moyenne d'épiaison de la variété et de deux variétés comparables bien connues)	<i>65/03 NZ 22G : 5/06/08</i>		
(7)	TIME OF EAR EMERGENCE (first spikelet visible on 50% of ears; quote mean date of heading of variety as well as of two well-known comparable varieties)	<i>HENLEY : 6/06/08</i>		
		<i>SEBASTIAN : 7/06/0</i>		
5.4	BARBES : Pigmentation anthocyanique des pointes	Absente / Absent	FLIKA, NIKEL	1 <input type="checkbox"/>
(8)	AWNS : Anthocyanin coloration of tips	Présente / Present	SCARLETT, ESTEREL	9 <input checked="" type="checkbox"/>
5.5	PLANTE : Hauteur (tige et épi; indiquer la hauteur de la variété et de deux variétés comparables bien connues)	<i>65/03 NZ 22G : 83 cm</i>		
(12)	PLANT : Height (stem and ear; quote height of variety as well as of two well-known comparable varieties)	<i>HENLEY : 82 cm</i>		
		<i>SEBASTIAN : 70 cm</i>		
5.6	EPI : Nombre de rangs	Deux / Two	SCARLETT, PLATINE	1 <input checked="" type="checkbox"/>
(13)	EAR : Number of rows	Plus de deux / More than two	SPINET, ESTEREL	2 <input type="checkbox"/>
-	EPI : Glaucescence	Nulle ou très faible / Absent or very weak	EUNOVA, EPIC	1 <input type="checkbox"/>
(10)	EAR : Glauco-sity	Faible / Weak	BACCARA, FLAMENCO	3 <input checked="" type="checkbox"/>
		Moyenne / Medium	HANKA, NIKEL	5 <input type="checkbox"/>
		Forte / Strong	CORK, ESTEREL	7 <input type="checkbox"/>
		Très forte / Very strong	LAMBA, QUANTIS	9 <input type="checkbox"/>

Caractères <i>Characteristics</i>		Variétés témoins <i>Example varieties</i>		Note
(15)	EPI : Compacité <i>EAR : Density</i>	Très lâche / <i>Very lax</i>	-, -	1 <input type="checkbox"/>
		Lâche / <i>Lax</i>	CORK, ESTEREL	3 <input type="checkbox"/>
		Demi-lâche à demi-compact / <i>Medium</i>	ASPEN, OROSTAR	5 <input checked="" type="checkbox"/>
		Compact / <i>Dense</i>	FELICIE, MICCUCIO	7 <input type="checkbox"/>
		Très compact / <i>Very dense</i>	-, -	9 <input type="checkbox"/>
5.7 (22)	GRAIN : Type de pilosité de la baguette <i>GRAIN : Rachilla hair type</i>	Courte / <i>Short</i>	ASPEN, BARAKA	1 <input type="checkbox"/>
		Longue / <i>Long</i>	SCARLET, ESTEREL	2 <input checked="" type="checkbox"/>
(25)	GRAIN : Denticulation des nervures dorsales internes de la glumelle inférieure <i>GRAIN : Spiculation of inner lateral nerves of dorsal side of lemma</i>	Nulle ou très faible / <i>Absent or very weak</i>	SCARLET, OROSTAR	1 <input checked="" type="checkbox"/>
		Faible / <i>Weak</i>	NEVADA, PLATINE	3 <input type="checkbox"/>
		Moyenne / <i>Medium</i>	CARESSE, EMERAUDE	5 <input type="checkbox"/>
		Forte / <i>Strong</i>	OPTIC, ESTEREL	7 <input type="checkbox"/>
		Très forte / <i>Very strong</i>	-, NIKEL	9 <input type="checkbox"/>
5.8 (26)	GRAIN : pilosité du sillon <i>GRAIN : Hairiness of ventral furrow</i>	Absente / <i>Absent</i>	SCARLET, NIKEL	1 <input checked="" type="checkbox"/>
		Présente / <i>Present</i>	PROSA, ESTEREL	9 <input type="checkbox"/>
(28)	GRAIN NU : Couleur de l'aleurone <i>KERNEL : Color of aleurone layer</i>	Blanchâtre / <i>Whitish</i>	SCARLET, ESTEREL	1 <input checked="" type="checkbox"/>
		Colorée / <i>Colored</i>	CELLAR, NIKEL	2 <input type="checkbox"/>

6. VARIETES VOISINES et DIFFERENCES PAR RAPPORT A CES VARIETES / SIMILAR VARIETIES AND DIFFERENCES FROM THESE VARIETIES

Dénomination des variétés / <i>Denomination of varieties</i>	Différences / <i>Differences</i>
.....

7. RENSEIGNEMENTS COMPLEMENTAIRES POUVANT FACILITER LA DISTINCTION DE LA VARIETE / ADDITIONAL INFORMATION WHICH MAY HELP TO DISTINGUISH THE VARIETY

7.1 RESISTANCE AUX PARASITES ET AUX MALADIES / RESISTANCE TO PESTS AND DISEASES
.....

7.2 CONDITIONS PARTICULIERES POUR L'EXAMEN DE LA VARIETE / SPECIAL CONDITIONS FOR THE EXAMINATION OF THE VARIETY

.....

7.3 AUTRES RENSEIGNEMENTS / OTHER INFORMATION

.....

8. AUTORISATION DE DISSÉMINATION / AUTHORIZATION FOR RELEASE

a) La législation en matière de protection de l'environnement et de la santé de l'homme et de l'animal soumet-elle la variété à une autorisation préalable pour la dissémination ? (1) / Does the variety require prior authorisation for release under legislation concerning the protection of the environment, human and animal health ?

Oui / yes **Non / no**

b) Dans l'affirmative, une telle autorisation a-t-elle été obtenue ? (1) / Has such authorisation been obtained ?

Oui / yes **Non / no**

Si oui, veuillez joindre une copie de l'autorisation // If the answer to that question is yes, please attach a copy of such an authorisation.

(1) Prière de marquer d'une croix la case correspondante / Please mark the relevant box

[Fin du document / End of document]