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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

DRAFT

WITLOOF, CHICORY

UPOV Code: CICHO_INT
excluding CICHO_INT_SAT*Cichorium intybus* L. partim

GUIDELINES

FOR THE CONDUCT OF TESTS

FOR DISTINCTNESS, UNIFORMITY AND STABILITY

*prepared by experts from France**to be considered by the**Technical Working Party for Vegetables**at its forty-seventh session, to be held in Nagasaki, Japan, from May 20 to 24, 2013*Alternative Names:^{*}

<i>Botanical name</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Spanish</i>
<i>Cichorium intybus</i> L. partim	Witloof, Chicory	Endive	Zichorie	Endivia

The purpose of these guidelines ("Test Guidelines") is to elaborate the principles contained in the General Introduction (document TG/1/3), and its associated TGP documents, into detailed practical guidance for the harmonized examination of distinctness, uniformity and stability (DUS) and, in particular, to identify appropriate characteristics for the examination of DUS and production of harmonized variety descriptions.

ASSOCIATED DOCUMENTS

These Test Guidelines should be read in conjunction with the General Introduction and its associated TGP documents.

^{*} These names were correct at the time of the introduction of these Test Guidelines but may be revised or updated. [Readers are advised to consult the UPOV Code, which can be found on the UPOV Website (www.upov.int), for the latest information.]

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1. Subject of these Test Guidelines

These Test Guidelines apply to all varieties of *Cichorium intybus* L. partim excluding industrial chicory (TG/172/4) and leaf chicory (TG/154/3).

2. Material Required

2.1 The competent authorities decide on the quantity and quality of the plant material required for testing the variety and when and where it is to be delivered. Applicants submitting material from a State other than that in which the testing takes place must ensure that all customs formalities and phytosanitary requirements are complied with.

2.2 The material is to be supplied in the form of seed.

2.3 The minimum quantity of plant material, to be supplied by the applicant, should be:

50g (30 000 seeds).

The seed should meet the minimum requirements for germination, species and analytical purity, health and moisture content, specified by the competent authority. In cases where the seed is to be stored, the germination capacity should be as high as possible and should, be stated by the applicant.

2.4 The plant material supplied should be visibly healthy, not lacking in vigor, nor affected by any important pest or disease.

2.5 The plant material should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If it has been treated, full details of the treatment must be given.

3. Method of Examination

3.1 *Number of Growing Cycles*

The minimum duration of tests should normally be two independent growing cycles.

3.2 *Testing Place*

Tests are normally conducted at one place. In the case of tests conducted at more than one place, guidance is provided in TGP/9 "Examining Distinctness".

3.3 *Conditions for Conducting the Examination*

The tests should be carried out under conditions ensuring satisfactory growth for the expression of the relevant characteristics of the variety and for the conduct of the examination.

3.4 *Test Design*

3.4.1 Each test should be designed to result in a total of at least 100 plants, which should be divided between at least 2 replicates."

3.4.2 The design of the tests should be such that plants or parts of plants may be removed for measurement or counting without prejudice to the observations which must be made up to the end of the growing cycle.

3.5 *Additional Tests*

Additional tests, for examining relevant characteristics, may be established.

4. Assessment of Distinctness, Uniformity and Stability

4.1 *Distinctness*

4.1.1 General Recommendations

It is of particular importance for users of these Test Guidelines to consult the General Introduction prior to making decisions regarding distinctness. However, the following points are provided for elaboration or emphasis in these Test Guidelines.

4.1.2 Consistent Differences

The differences observed between varieties may be so clear that more than one growing cycle is not necessary. In addition, in some circumstances, the influence of the environment is not such that more than a single growing cycle is required to provide assurance that the differences observed between varieties are sufficiently consistent. One means of ensuring that a difference in a characteristic, observed in a growing trial, is sufficiently consistent is to examine the characteristic in at least two independent growing cycles.

4.1.3 Clear Differences

Determining whether a difference between two varieties is clear depends on many factors, and should consider, in particular, the type of expression of the characteristic being examined, i.e. whether it is expressed in a qualitative, quantitative, or pseudo-qualitative manner. Therefore, it is important that users of these Test Guidelines are familiar with the recommendations contained in the General Introduction prior to making decisions regarding distinctness.

4.1.4 Number of Plants / Parts of Plants to be Examined

Unless otherwise indicated, for the purposes of distinctness, all observations on single plants should be made on 60 plants or parts taken from each of 60 plants and any other observations made on all plants in the test, disregarding any off-type plants.

All observations on the leaf should be made on the full-grown leaf.

All observations on the head should be made at the time of harvesting of the heads before exposure to daylight.

4.1.5 Method of Observation

The recommended method of observing the characteristic for the purposes of distinctness is indicated by the following key in the second column of the Table of Characteristics (see document TGP/9 "Examining Distinctness", Section 4 "Observation of characteristics"):

MG: single measurement of a group of plants or parts of plants

MS: measurement of a number of individual plants or parts of plants

VG: visual assessment by a single observation of a group of plants or parts of plants

VS: visual assessment by observation of individual plants or parts of plants

Type of observation: visual (V) or measurement (M)

"Visual" observation (V) is an observation made on the basis of the expert's judgment. For the purposes of this document, "visual" observation refers to the sensory observations of the experts and, therefore, also includes smell, taste and touch. Visual observation includes observations where the expert uses reference points (e.g. diagrams, example varieties, side-by-side comparison) or non-linear charts (e.g. color charts). Measurement (M) is an objective observation against a calibrated, linear scale e.g. using a ruler, weighing scales, colorimeter, dates, counts, etc.

Type of record: for a group of plants (G) or for single, individual plants (S)

For the purposes of distinctness, observations may be recorded as a single record for a group of plants or parts of plants (G), or may be recorded as records for a number of single, individual

plants or parts of plants (S). In most cases, "G" provides a single record per variety and it is not possible or necessary to apply statistical methods in a plant-by-plant analysis for the assessment of distinctness.

In cases where more than one method of observing the characteristic is indicated in the Table of Characteristics (e.g. VG/MG), guidance on selecting an appropriate method is provided in document TGP/9, Section 4.2.

4.2 *Uniformity*

4.2.1 It is of particular importance for users of these Test Guidelines to consult the General Introduction prior to making decisions regarding uniformity. However, the following points are provided for elaboration or emphasis in these Test Guidelines:

4.2.2 The assessment of uniformity for open-pollinated varieties should be according to the recommendations for cross-pollinated varieties in the General Introduction.

4.2.3 The assessment of uniformity for hybrid varieties depends on the type of hybrid and should be according to the recommendations for hybrid varieties in the General Introduction. A population standard of 1% with an acceptance probability of at least 95% should be applied to off-types excluding clearly recognisable inbred plants. In addition a population standard of 3% with the same acceptance probability should be applied to clearly recognisable inbred plants in hybrids where male sterility has been used; a population standard of 5% with the same acceptance probability should be applied to clearly recognisable inbred plants in hybrids where male sterility has not been used.

4.3 *Stability*

4.3.1 In practice, it is not usual to perform tests of stability that produce results as certain as those of the testing of distinctness and uniformity. However, experience has demonstrated that, for many types of variety, when a variety has been shown to be uniform, it can also be considered to be stable.

4.3.2 Where appropriate, or in cases of doubt, stability may be further examined by testing a new seed stock to ensure that it exhibits the same characteristics as those shown by the initial material supplied.

5. Grouping of Varieties and Organization of the Growing Trial

5.1 The selection of varieties of common knowledge to be grown in the trial with the candidate varieties and the way in which these varieties are divided into groups to facilitate the assessment of distinctness are aided by the use of grouping characteristics.

5.2 Grouping characteristics are those in which the documented states of expression, even where produced at different locations, can be used, either individually or in combination with other such characteristics: (a) to select varieties of common knowledge that can be excluded from the growing trial used for examination of distinctness; and (b) to organize the growing trial so that similar varieties are grouped together.

5.3 The following have been agreed as useful grouping characteristics:

- (a) Leaf: length (characteristic 6)
- (b) Leaf: intensity of green color (characteristic 10)
- ~~(c) Time of flowering (characteristic 22)~~
- (d) Male sterility (characteristic 28)
- (e) Head: length (characteristic 29)
- (f) Head: shape in longitudinal section (characteristic 32)

5.4 Guidance for the use of grouping characteristics, in the process of examining distinctness, is provided through the General Introduction and document TGP/9 "Examining Distinctness".

6. Introduction to the Table of Characteristics

6.1 *Categories of Characteristics*

6.1.1 Standard Test Guidelines Characteristics

Standard Test Guidelines characteristics are those which are approved by UPOV for examination of DUS and from which members of the Union can select those suitable for their particular circumstances.

6.1.2 Asterisked Characteristics

Asterisked characteristics (denoted by *) are those included in the Test Guidelines which are important for the international harmonization of variety descriptions and should always be examined for DUS and included in the variety description by all members of the Union, except when the state of expression of a preceding characteristic or regional environmental conditions render this inappropriate.

6.2 *States of Expression and Corresponding Notes*

6.2.1 States of expression are given for each characteristic to define the characteristic and to harmonize descriptions. Each state of expression is allocated a corresponding numerical note for ease of recording of data and for the production and exchange of the description.

6.2.2 In the case of qualitative and pseudo-qualitative characteristics (see Chapter 6.3), all relevant states of expression are presented in the characteristic. However, in the case of quantitative characteristics with 5 or more states, an abbreviated scale may be used to minimize the size of the Table of Characteristics. For example, in the case of a quantitative characteristic with 9 states, the presentation of states of expression in the Test Guidelines may be abbreviated as follows:

State	Note
small	3
medium	5
large	7

However, it should be noted that all of the following 9 states of expression exist to describe varieties and should be used as appropriate:

State	Note
very small	1
very small to small	2
small	3
small to medium	4
medium	5
medium to large	6
large	7
large to very large	8
very large	9

6.2.3 Further explanation of the presentation of states of expression and notes is provided in document TGP/7 "Development of Test Guidelines".

6.3 *Types of Expression*

An explanation of the types of expression of characteristics (qualitative, quantitative and pseudo-qualitative) is provided in the General Introduction.

6.4 *Example Varieties*

Where appropriate, example varieties are provided to clarify the states of expression of each characteristic.

6.5 *Legend*

(*) Asterisked characteristic – see Chapter 6.1.2

QL Qualitative characteristic – see Chapter 6.3

QN Quantitative characteristic – see Chapter 6.3

PQ Pseudo-qualitative characteristic – see Chapter 6.3

MG, MS, VG, VS – see Chapter 4.1.5

(a)-(c) See Explanations on the Table of Characteristics in Chapter 8.1

(+) See Explanations on the Table of Characteristics in Chapter 8.2.

7. Table of Characteristics/Tableau des caractères/Merkmalstabelle/Tabla de caracteres

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
1.	VG Cotyledon: shape					
QL PQ	rounded				Bea, Flash, Magnum , Toner	1
	elliptic				Aline, Daliva, Final	2
2.	VG Cotyledon: shape of tip					
QL PQ	truncate				Aline, Conrad, Janus , Jaz , Magnum	1
	rounded				Bergère, Videna	2
3. (*) (+)	VG Plant: height at vegetative stage					
QL	short				Carla	3
	medium				Flash , Marriott , Ecrine , Selkis	5
	tall				Dirv, Topmodel , Zilia	7
4. (*)	VG Foliage: attitude					
QL	erect				Dirv	1
	semi-erect				Flash , Turbo , Ecrine , Ombline	3
	horizontal				Perfo	5
5.	VG Leaf: attitude of tip					
QL	erect				Platine	1
	semi erect				Turbo , Crenoline , Ecrine	3
	horizontal				??	5
6. (*) (+)	VG Leaf: length					
QN	short				Carla, Conrad	3
	medium				Elsa , Flash , Marriott , Ecrine , Ombline	5
	long				Turbo , Atlas , Platine	7
	very long				Vilmorin No 5 , Zilia	9
7. (*) (+)	VG Leaf: width					
QL	narrow				Carla	3
	medium				Baccara , Bea , Extra , Flash , Zoom	5
	broad				Atlas , Nica , Quartz , Symphonie	7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
8.	VG	Leaf: ratio length/width				
QL	small				Carla, Vitessa	3
	medium				Baccara, Bea, Ecrine	5
	large				Senator, Zilia	7
9. (*)	VG	Leaf: color				
QL PQ	only green				Zoom	1
	only red				Carla	2
	green and red				Festive, Rubina	3
10. (*)	VG	Leaf: intensity of green color				
QL	light				Jaz	3
	medium				Bea, Toner, Omblin	5
	dark				Conrad, Magic, Zoom, Genis	7
11.	VG	Leaf: glossiness				
QL	absent or very weak				Quartz	1
	weak				Abellis, Flash, Rinof	3
	medium				Baccara, Fakir, Toner	5
	strong				Dirv, Magic, Quartz, Rikita	7
12. (*)	VG	Leaf: shape in cross section				
QL PQ	concave				Abellis, Crenoline	1
	flat				Excellence, Perfo, Zilia, Zoom	2
	convex				Dirv	3
13. (*)	VG	Leaf: blistering				
QN	absent or very weak				Quartz, Rinof	1
	weak				Abellis, Flash, Platine, Quartz	3
	medium				Alliance, Carla, Ecrine,	5
	strong				Monitor, Rikita, Zoom	7
14.	VG	Leaf: anthocyanin coloration of midrib				
QN	absent or very weak				Baccara, Carla, Excellence, Dirv, Jaz, Spectra	1
	weak				Abellis, Flash, Jocker	3
	medium				Carla, Sigma, Zoom	5
	strong				Victoria	7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
15.	VG	Leaf: undulation of margin				
QN	weak				Venus	3
	medium				Atlas, Baccara, Platine	5
	strong				Montblanc, Sigma	7
16.	VG	Leaf: incisions of basal part				
QN	absent or very weak				??	1
	weak				Crenoline, Selkis, Monitor	3
	medium				Alliance, Bea, Topscore	5
	strong				Atlas, Final, Victoria, Zilia	7
17. (*)	VG	Leaf: incisions of margin of upper third				
QN	absent or very weak				Carla, Selkis	1
	weak				Abellis, Flash, Janus, Toner, Topscore	3
	medium				Baccara, Jocker, Symphonie, Zoom	5
	strong				Platine, Victoria	7
18.	VG	Leaf: depth of incisions of margin of upper third				
QN	shallow				Abellis, Desir, Flash, Zoom	3
	medium				Baccara, Omblin, Symphonie	5
	deep				Rikita	7
19. (+)	VG	Leaf: shape of tip				
QL PQ	rounded				Abellis, Magnum, Rumba, Topscore	1
	weakly pointed				Atlas, Fakir, Mona, Takine	2
	strongly pointed				Magic, Platine	3
20.	VG	Root: size				
QN	small					3
	medium				Bea	5
	large				Focus	7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
21.	VG	Bolting tendency (from an early sowing)				
QN	absent or very weak				Carla	1
	weak				Bea, Montblanc	3
	medium				Flash, Omblin	5
	strong				Quartz, Topmodel	7
	very strong				Vilmorin No. 5	9
22.	VG	Time of beginning of flowering				
(+)						
QN	very early				??	1
	early				Jadore, Prestance, Takine	3
	medium				Abellis, Ecrine, Hermès	5
	late				??	7
	very late				??	9
23. (old 22)	MG	Flowering stem: height				
(+)						
QN	short				??	3
	medium				Samba, Désir, Perfo	5
	tall				Atlas, Festive, Final, Selkis	7
24. (old 23)	VG	Flowering stem: branching				
(+)						
QN	weak				??	3
	medium				Atlas, Ecrine, Jaz, Perfo	5
	strong				Abellis, Final	7
25. (old 24)	MS	Flowering stem: size of stipule				
QN	small				Crenoline, Excellence, Magnum	3
	medium				Bea, Desir, Festive, Topmodel	5
	large				Isatis, Maraichere	7
26. (old 25)	VG	Flowering stem: dentation of stipule				
QN	small				Alliance, Elegance, Flash, Jadore	3
	medium				Abellis, Platine, Terosa	5
	large				??	7

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
27. (old 26)	VG	Flower: color				
QL	white				??	1
	pink				Isatis, Selkis	2
	blue				Bea, Flash	3
28. (*)	VG	Male sterility				
QL	absent				Flash	1
	present				Omblin	9
29. (old 27) (*)	MS	Head: length				
QN	very short				Carla	1
	short				Mona	3
	medium				Bea, Monitor, Omblin	5
	long				Faro, Focus, Perfo, Prestance, Revor	7
	very long				Normale	9
30. (old 28) (*)	MS	Head: maximum diameter				
QN	small				Carla	3
	medium				Bea, Ecrine	5
	large				Mona, Zilia	7
31. (old 29)	MS	Head: ratio length/diameter				
QL	small				Isatis, Mona, Opale	3
	medium				Bea, Désir, Panache	5
	large				Atlas, Final, Focus	7
32. (old 30) (*)	VG	Head: shape in longitudinal section				
QL	narrow elliptic				Symphonie	1
	elliptic				Dirv, Excellence, Jocker, Rinof	2
	broad elliptic				Crenoline, Topmodel	3
	ovate				Abellis, Histera, Selkis, Zoom	4
33. (old 31) (*)	VG	Head: shape of apex				
QL PQ	rounded				Abellis, Crenoline, Mona	1
	weakly pointed				Baccara, Elegance, Toner	2
	strongly pointed				Fakir, Symphonie, Zoom	3

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
34. (old 32)	VG Head: creamish hue of midrib					
QL	absent				Zoom	4
	present				Caressa	9
35. (old 33) (*)	VG Head: color of leaf blade (outer side)					
PQ	only yellow				Flexine	1
	only red				Carla	2
	yellow and red					3
36. (old 34) (*)	VG Head: intensity of color of leaf blade					
QL	light				Elegance, Perfo	3
	medium				Baccara, Omblin	5
	dark				Abellis, Ecrine	7
37. (old 35)	VG Head: blistering of leaf blade					
QN	absent or very weak				Hermès, Topmodel	1
	weak				Tabor	3
	medium				Baccara, Festive, Ivora, Zoom	5
	strong				Roelof	7
38. (old 36)	VG Head: closure of apex					
QN	fully open					1
	half open				Abellis, Zilia	2
	closed				Baccara, Hermès	3
39. (old 37)	VG Head: firmness					
QN PQ	loose				Abellis, Zilia	3
	medium				Bea, Crenoline, Jadore	5
	firm				Baccara, Ecrine, Zoom	7
40. (old 38)	VG Seed: color					
QL	white				Atlas, Opale	1
	brown				Abellis, Isatis	2
	black				Carla, Festive	3

8. Explanations on the Table of Characteristics

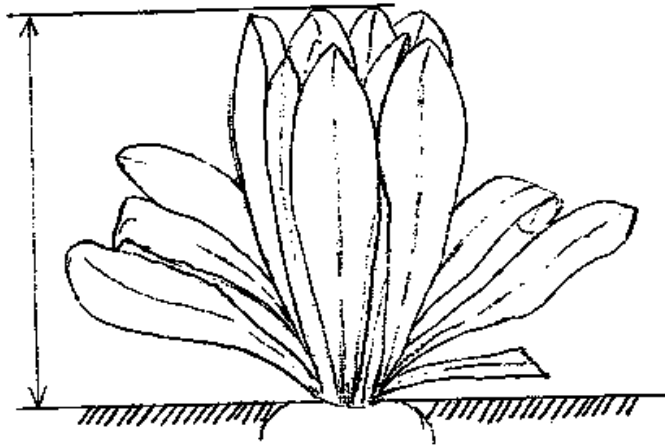
8.1 *Explanations covering several characteristics*

Characteristics containing the following key in the second column of the Table of Characteristics should be examined as indicated below:

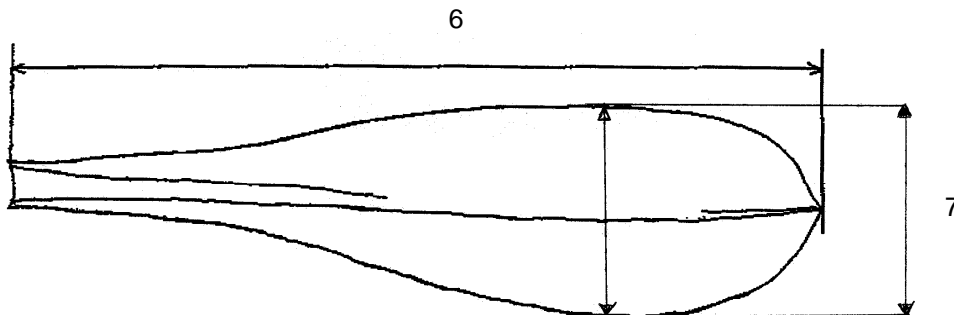
- (a) Leaf: all observations on the leaf should be done in the vegetative stage in the field.
- (b) Head: all observations on the head should be done after a forcing period in a complete dark environment.
- (c) Bolting and flowering characteristics: all observations on these characteristics should be done in a special bolting trial in which a flowering stem is formed.

8.2 *Explanations for individual characteristics*

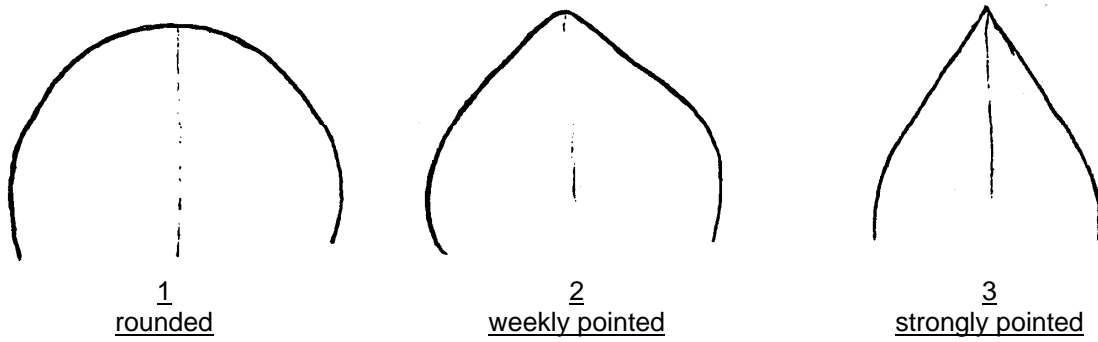
Ad. 3: Plant: height



- Ad. 6: Leaf: length
- Ad. 7: Leaf: width



Ad. 19: Leaf: shape of tip

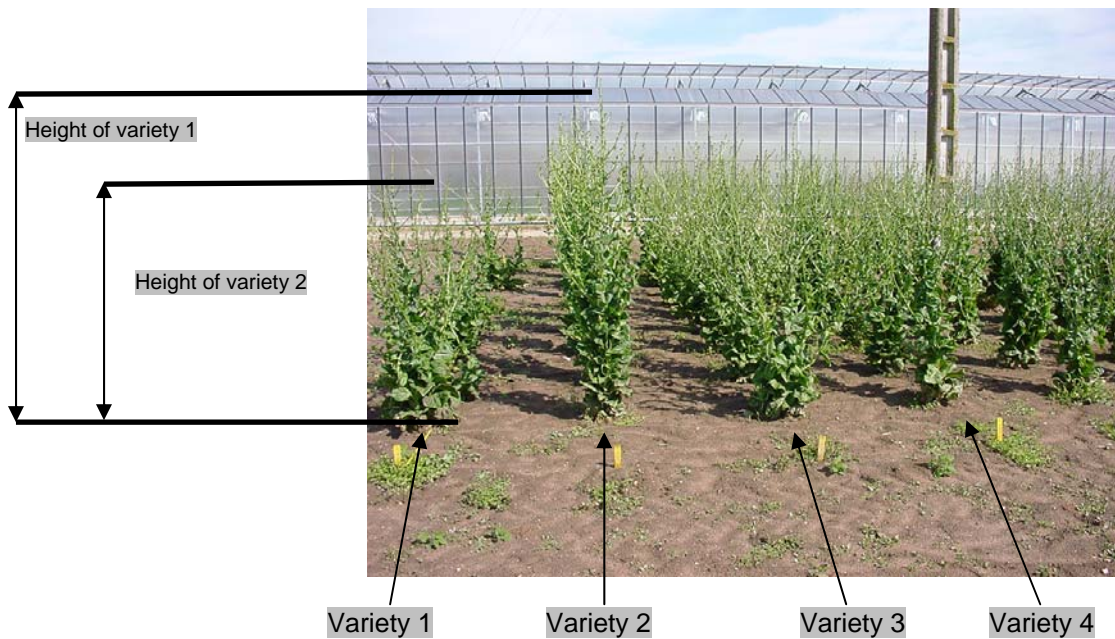


Ad. 22: Time of beginning of flowering

Observations are made on flowering at the first open flower.
Based on such method, the time of beginning of flowering of a variety is the average of the dates recorded on the plants.

Ad. 23: Flowering stem: height

To be observed for each variety individually when the first flowers are open.



Ad. 24: Flowering stem: branching

Observations are conducted individually when the first flowers are open

9. Literature

Annon, C. R., 1970: "La chicorée de Bruxelles," Symposium International à Gembloux (B), 17 et 18 février (Eucarpia), Ed. Min. de l'Agriculture, Recherche Agronomique, Bruxelles

Ryder, E. J., 1979: Leafy Salad Vegetables, AVI Publishing Company, Westport, Connecticut

Leteinturier, J. E. A., 1983: "L'endive (chicorée witloof)," 3e ed., CTIEF, Paris, France

10. Technical Questionnaire

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
		Application date: (not to be filled in by the applicant)
TECHNICAL QUESTIONNAIRE to be completed in connection with an application for plant breeders' rights		
1. Subject of the Technical Questionnaire		
1.1 Botanical name	<input type="text" value="Cichorium intybus L. partim."/>	
1.2 Common name	<input type="text" value="Witloof, Chicory"/>	
2. Applicant		
Name	<input type="text"/>	
Address	<input type="text"/>	
Telephone No.	<input type="text"/>	
Fax No.	<input type="text"/>	
E-mail address	<input type="text"/>	
Breeder (if different from applicant)	<input type="text"/>	
3. Proposed denomination and breeder's reference		
Proposed denomination (if available)	<input type="text"/>	
Breeder's reference	<input type="text"/>	

4. Information on the breeding scheme and propagation of the variety

4.1 ~~Breeding scheme~~

~~Variety resulting from:~~

~~4.1.1 Crossing~~

~~(a) controlled cross []~~

~~(b) partially known cross []~~

~~(c) unknown cross []~~

~~4.2~~ Method of propagating the variety

~~4.2.1.1~~ Seed-propagated varieties

(a) Self-pollination []

(b) Cross-pollination []
(i) population []

(ii) synthetic variety []

(c) Hybrid []

(d) Other []
(please provide details)

.....

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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5. Characteristics of the variety to be indicated (the number in brackets refers to the corresponding characteristic in Test Guidelines; please mark the note which best corresponds).

Characteristics	Example Varieties	Note
5.1 Leaf: length (6)		
very short		1 []
very short to short		2 []
short	Carla	3 []
short to medium		4 []
medium	Ecrine, Omblin	5 []
medium to long		6 []
long	Atlas, Platine	7 []
long to very long		8 []
very long	Zilia	9 []
5.2 Leaf: color (9)		
only green	Zoom	1 []
only red	Carla	2 []
green and red	Festive, Rubina	3 []
5.3 Leaf : intensity of green color (10)		
very light		1 []
very light to light		2 []
light	Jaz	3 []
light to medium		4 []
medium	Omblin	5 []
medium to dark		6 []
dark	Genis	7 []
dark to very dark		8 []
very dark		9 []

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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Characteristics	Example Varieties	Note
5.4 Time of flowering (22)		
very early	??	1 []
very early to early		2 []
early	Jadore, Prestance, Takine	3 []
early to medium		4 []
medium	Abellis, Ecrine, Hermès	5 []
medium to late		6 []
late	??	7 []
late to very late		8 []
very late	??	9 []
5.5 Male sterility (28)		
absent	Flash	1 []
present	Omblin	9 []
5.6 Head: length (29)		
very short	Carla	1 []
very short to short		2 []
short	Mona	3 []
short to medium		4 []
medium	Bea, Monitor, Omblin	5 []
medium to long		6 []
long	Faro, Focus, Perfo, Prestance, Revor	7 []
long to very long		8 []
very long	Normale	9 []
5.7 Head: shape in longitudinal section (32)		
narrow elliptic	Symphonie	1 []
elliptic	Dirv, Excellence, Jocker, Rinof	2 []
broad elliptic	Crenoline, Topmodel	3 []
ovate	Abellis, Selkis	4 []

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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6. Similar varieties and differences from these varieties

Please use the following table and box for comments to provide information on how your candidate variety differs from the variety (or varieties) which, to the best of your knowledge, is (or are) most similar. This information may help the examination authority to conduct its examination of distinctness in a more efficient way.

Denomination(s) of variety(ies) similar to your candidate variety	Characteristic(s) in which your candidate variety differs from the similar variety(ies)	Describe the expression of the characteristic(s) for the similar variety(ies)	Describe the expression of the characteristic(s) for your candidate variety
<i>Example</i>	<i>Leaf: length</i>	<i>short</i>	<i>medium</i>

Comments:

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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#7. Additional information which may help in the examination of the variety

7.1 In addition to the information provided in sections 5 and 6, are there any additional characteristics which may help to distinguish the variety?

Yes [] No []

(If yes, please provide details)

7.2 Are there any special conditions for growing the variety or conducting the examination?

Yes [] No []

(If yes, please provide details)

7.3 Other information

8. Authorization for release

(a) Does the variety require prior authorization for release under legislation concerning the protection of the environment, human and animal health?

Yes [] No []

(b) Has such authorization been obtained?

Yes [] No []

If the answer to (b) is yes, please attach a copy of the authorization.

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
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9. Information on plant material to be examined or submitted for examination.

9.1 The expression of a characteristic or several characteristics of a variety may be affected by factors, such as pests and disease, chemical treatment (e.g. growth retardants or pesticides), effects of tissue culture, different rootstocks, scions taken from different growth phases of a tree, etc.

9.2 The plant material should not have undergone any treatment which would affect the expression of the characteristics of the variety, unless the competent authorities allow or request such treatment. If the plant material has undergone such treatment, full details of the treatment must be given. In this respect, please indicate below, to the best of your knowledge, if the plant material to be examined has been subjected to:

- | | | |
|---|---------|--------|
| (a) Microorganisms (e.g. virus, bacteria, phytoplasma) | Yes [] | No [] |
| (b) Chemical treatment (e.g. growth retardant, pesticide) | Yes [] | No [] |
| (c) Tissue culture | Yes [] | No [] |
| (d) Other factors | Yes [] | No [] |

Please provide details for where you have indicated "yes".

.....

10. I hereby declare that, to the best of my knowledge, the information provided in this form is correct:

Applicant's name

Signature

Date

[Annex follows]

ANNEX

Comments from the Netherlands

Add to all MS characteristics also VG

Char 5: if no examples for 1 and 5, then delete this characteristic.

Furthermore some explanations concerning the individual shape characteristics could be added

[End of Annex and of document]