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GENEVA

TECHNICAL WORKING PARTY FOR VEGETABLES

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WORKING PAPER ON TEST GUIDELINES FOR CHIVES

Document prepared by experts from Czech Republic

TABL	E OF CONTENTS	<u>PAGE</u>
I.	Subject of these Guidelines	3
II.	Material Required	3
III.	Conduct of Tests	3
IV.	Methods and Observations	3
V.	Grouping of Varieties	4
VI.	Characteristics and Symbols	4
VII.	Table of Characteristics	5
VIII.	Explanations on the Table of Characteristics	11
IX.	Literature	12
X.	Technical Questionnaire	13

I. <u>Subject of these Guidelines</u>

These Guidelines apply to all varieties of Allium schoenoprasum L.

II. Material Required

1. The competent authorities decide when, where and in what quantity and quality the seed required for testing the variety is to be delivered. Applicants submitting material from a State other than that in which the testing takes place must make sure that all custom formalities are complied with. As a minimum, for each year of test the following quantity of seed is recommended:

6 g.

The quality of the seed to be delivered should not be below the standards of seeds for certification or marketing in the country concerned, especially in regard to germination capacity and moisture content.

2. The plant material must not have undergone any treatment unless the competent authorities allow or request such treatment. If it has been treated, full details of the treatment must be given.

III. <u>Conduct of Tests</u>

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

2. The tests should normally be conducted at one place. If any important characteristics of the variety cannot be seen at that place, the variety may be tested at an additional place.

3. The tests should be carried out under conditions ensuring normal growth. The size of the plots should be such that plants or parts of plants may be removed for measurement and counting without prejudice to the observations which must be made up to the end of the growing period. Each test should include a total of 60 plants, which should be divided between two or more replicates. Separate plots for observation and for measuring can only be used if they have been subject to similar environmental conditions.

4. Additional tests for special purposes may be established.

IV. Methods and Observations

1. All observations determined by measurement, weighing or counting should be made on 60 plants or parts taken from each of 60 plants.

2. For the assessment of uniformity of open pollinated and hybrid varieties relative uniformity, standards should be applied.

3. Unless otherwise indicated, all observations on the plant, the leaf and the head should be made at harvest maturity.

4. Unless otherwise indicated, all observations on the flower should be made at full flowering.

V. <u>Grouping of Varieties</u>

1. The collection of varieties to be grown should be divided into groups to facilitate the assessment of distinctness. Characteristics which are suitable for grouping purposes are those which are known from experience not to vary, or to vary only slightly, within a variety. Their various states of expression should be fairly evenly distributed throughout the collection.

2. It is recommended that the competent authorities use the following characteristics for grouping varieties:

- (a) Leaf: color (characteristic 6)
- (b) Flower: color (characteristic 15)

VI. Characteristics and Symbols

1. To assess distinctness, uniformity and stability, the characteristics and their states as given in the Table of Characteristics should be used.

2. Notes (numbers), for the purposes of electronic data processing, are given opposite the states of expression for each characteristic.

3. <u>Legend</u>:

(*) Characteristics that should be used on all varieties in every growing period over which the examinations are made and always be included in the variety descriptions, except when the state of expression of a preceding characteristic or regional environmental conditions render this impossible.

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

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
1.	Plant: height					
	short				Fitlau	3
	medium				Polyvert, Wilau	5
	tall				NOE-198	7
2.	Plant: numbe leaves	er of				
	few				Polyvert	3
	medium				Fitlau ,Wilau	5
	many					7
UK:	2. Plant: number	r of leaves: 3 few 5 med	ium 7 many			
CZ:	We agree					
PL:	Char. 2 to be rep	laced by two character	istics:			
2.	Plant: numbe tillers	er of				
	few					
	medium					
	many					
2a.	Plant: numbe leaves in tiller	er of r				
	few					
	medium					
	many					
CZ: vege	we do not have a tation	any experience with the	counting of tillers and	comparing with numb	er of leaves. We try to observe	it during this

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

3.	Leaf: attitude		
	erect	Fitlau, Polyvert	1
	semi-erect	NOE-198, Pražská, Wilau	3
	horizontal	Jemná	5

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
4.	Leaf: curvate					
	absent or very weak	5			Bohemia, Polyvert	1
	weak				Wilau	3
	medium				Pražská	5
	strong				Kirgo	7
	very strong					9
UK:	Leaf: curvature (edito	orial remark)				
5.	Leaf: waxiness					
	weak					3
	medium				Bohemia	5
	strong				Fitlau	7
6. (*)	Leaf: color					
	yellowgreen					1
	green				Bohemia, Kirgo, Pražská	2
	bluegreen				Moravia, Polyvert	3
7.	Leaf: intensity of color					
	light				Kirgo	3
	medium				Bohemia, Pražská	5
	dark					7
8.	Leaf: anthocyanin coloration at the base					
	absent					1
	present				Kirgo, Polyvert	9

	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
9.	Leaf: length					
	short				Fitlau	3
	medium				NOE-198	5
	long					7
10.	Leaf: thickness					
	thin				Wilau	3
	medium				Bohemia	5
	thick				Polyvert	7
11. (+)	Leaf: shape of cros section	s				
	round				Bohemia, Kirgo	1
	semi-round				Jemná	2
	dish shape				Moravia, Polyvert	3

UK: definitely needs a drawing

CZ: we agree with a drawing and we propose to make following accurate: 11. Leaf: shape of cross section (in the middle of the leaf)

12.	Bud: shape		
	elliptic	Fitlau, Pražská, Wilau	1
	round	Jemná	2
	broad ovate	Bohemia, Kirgo, NOE-198	3
13.	Bud: size		
	small	Fitlau, Kirgo	3
	medium	Polyvert	5
	large		7

page	8
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	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
14.	Bud: anthocyanin coloration					
	absent					1
	present					9
15. (*)	Flower: color					
	whitish					1
	purple				Bohemia, Fitlau, Pražská	2
PL: I	15. Flower: color to re	place by 15. Inflor	escence: color of flower	rs		
CZ: v	ve agree					
16.	Flower: size					
	small				Fitlau, Wilau	3
	medium				Polyvert	5
	large				Bohemia	7
PL: I	16. Flower: size to rep	lace by 16. Inflore	scence: size of head			
CZ: v	ve agree					
17.	Plant: height in flower stage					
	short				Bohemia, Wilau	3
	medium				NOE-198, Pražská	5
	tall				Polyvert	7
UK:	17. Plant: height at flo	owering stage				
PL: I	7. Plant: height (flowe	ering plant)				
CZ: 1	CZ: we agree with UK (editorial remark)					

page	9
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	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota	
18.	Time of sprouting (10% of the plants show new green sprouts)						
	early					3	
	medium					5	
	late					7	
PL: 1	PL: 18. Time of sprouting (10% of the plants show new green sprouts) to replace 18. Time of shooting						

(10% of the plants show new green shoots)

CZ: we are not sure, there is editorial remark

19.	Time of bud formation (10% of the plants show a bud)		
	early	Bohemia	3
	medium		5
	late	Polyvert	7
20.	Time of beginning of flowering (10% of the plants show a first inflorescence)		
	early	Bohemia	3
	medium		5

page 1	0
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	English	français	deutsch	español	Example Varieties Exemples Beispielssorten Variedades ejemplo	Note/ Nota
21.	Time of drawing in of leaves (10% of the plants draw in leaf shoots)					
	early					3
	medium					5
	late					7

UK: 21. Time of drawing in of leaves (10% of the plants draw in leaf shoots) to replace by 21. Time of senescence (10% of the plants becomes senescence)

PL: 21. Time of drawing in of leaves (10% of the plants draw in leaf shoots) to replace by 21. Time of falling down in of leaves (10% of the plants fallen in leaf shoots)

CZ: we agree with UK, we think there is editorial remark

22. (*) (+)	Male sterility	
	absent or very weakly expressed	1
	weakly expressed	2
	strongly expressed	3
CZ: cl	haracteristic 22. was added after distribution to the participating experts of the sub group on the base of recommenda	tion of

breeders

VIII. Explanations on the Table of Characteristics

Ad. 11: Leaf: shape of cross section

will be added

Ad. 22: Male sterility

absent or very weakly expressed
weakly expressed
strongly expressed

less than 10% of plants 10% to 50% of plants more than 50% of plants

IX. Literature

JONS, H.A. and MANN, L.K. (1963): Onions and Their Allies: Botany, Cultivation and Utilisation, Hill Leonard (Books) London Interscience Publishers INC., New York

BREWSTER, J.L. (1994): Crop Production Science in Horticulture 3: Onions and other vegetables *Alliums*, CAB International

KONVICKA, O. (1998): Cesnek, Základy biologie a pestování, obsahové látky a lécivé úcinky, Tešínská tiskárna a.s. Ceský Tešín

VOGEL, G. (1996): Handbuch des Speziiellen Gemüsebaues, Ulmer Verlag Stuttgart

	to be comple	TECHNICAL QUESTIONI ted in connection with an application	Reference Number (not to be filled in by the applicant) NAIRE on for plant breeders' rights
1.1	Species	Allium schoenoprasum L. CHIVES	
2.	Applicant (Name	and address)	
3.	Proposed denomin	nation or breeder's reference	
4.	Information on or	igin, maintenance and reproduction	of the variety
4.1	Method of maintenance and reproduction		
	(i)	hybrid	[]
	(ii)	open-pollinated variety	[]
4.2	Other information	1	

	Characteristics	Example Varieties	Note		
5.1 1)	Plant: height				
	short	Fitlau	3[]		
	medium	Polyvert, Wilau	5[]		
	tall	NOE-198	7[]		
5.2 3)	Leaf: attitude				
	erect	Fitlau, Polyvert	1[]		
	semi-erect	NOE-198, Pražská, Wilau	3[]		
	horizontal	Jemná	5[]		
5.3 6)	Leaf: color				
	yellowgreen		1[]		
	green	Bohemia, Kirgo, Pražská	2[]		
	bluegreen	Moravia, Polyvert	3[]		
5.4 (10)	Leaf: thickness				
	thin	Wilau	3[]		
	medium	Bohemia	5[]		
	thick	Polyvert	7[]		
5.5 15)	Flower: color				
	whitish		1		
	purple	Bohemia, Fitlau, Pražská	2		

page	15
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	Characteristics	Example Varieties	Note
5.6 (22)	Male sterility		
	absent or very weakly expressed		1[]
	weakly expressed		2[]
	strongly expressed		3[]
CZ: ci breed	haracteristic 22 was added after distribution to the participati ers' recommendation	ng experts of the subgroup on the ba	sis of Czech
6.	Similar varieties and differences between these va	rieties	
D	enomination of Characteristic in State similar variety which the similar of sin variety is different ^{o)}	of expression State of expr milar variety candidate	ession of variety
o)	In the case of identical states of expressions of bo the difference.	th varieties, please indicate the	e size of
7.	Additional information which may help to disting	uish the variety	
7.1	Resistance to pests and diseases		
7.2	Special conditions for the examination of the varie	ety	
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 th	he answer to that question is yes, please attach a copy of such an authorization.	

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