

UPOV

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## INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

GENEVA

DRAFT

## BUCKWHEAT \*

UPOV Code: FAGOP\_ESC

*(Fagopyrum esculentum Moench)*

## GUIDELINES

## FOR THE CONDUCT OF TESTS

## FOR DISTINCTNESS, UNIFORMITY AND STABILITY

*prepared by an expert from Japan**to be considered by the**Technical Working Party for Agricultural Crops**at its thirty-sixth session, to be held in Budapest, Hungary, from May 28 to June 1, 2007*

Alternative Names: \*

<i>Botanical name</i>	<i>English</i>	<i>French</i>	<i>German</i>	<i>Spanish</i>
<i>Fagopyrum esculentum Moench</i>	.Buckwheat	Blé noir, Sarrasin.	Buchweizen	Alforfón

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](http://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 *Fagopyrum esculentum* Moench.

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:

2,000 seeds

2.4 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.”

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

2.6 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 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*

3.3.1 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.

3.3.2 *Type of observation*

The recommended method of observing the characteristic is indicated by the following key in the second column of the Table 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”

### 3.4 *Test Design*

Each test should be designed to result in a total of at least 60 plants, which should be divided between 2 replicates.

### 3.5 *Number of Plants / Parts of Plants to be Examined*

Unless otherwise indicated, all observations on single plants should be made on 10 plants or parts taken from each of 10 plants and any other observations made on all plants in the test. In the case of observations of parts taken from single plants, the number of parts to be taken from each of the plants should be 1.

### 3.6 *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.

## 4.2 *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 should be according to the recommendations for cross-pollinated varieties in the General Introduction.”

## 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 tested, either by growing a further generation, or by testing a new seed stock to ensure that it exhibits the same characteristics as those shown by the previous 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) Plant: height (characteristic 2)
- (b) Inflorescence: flower color (characteristic 12)
- (c) Seed: color (characteristic 19)

5.4 Guidance for the use of grouping characteristics, in the process of examining distinctness, is provided through the General Introduction.

## 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*

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.

### 6.3 *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 3.3.2

(a)-(d) 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
<b>1.</b>	<b>VS Plant: attitude</b>					
(+)						
<b>PQ</b>	<b>(a)</b> upright short				Shinano-natusoba	1
	upright long				Shinano No.1	2
	spreading long				Miyazaki-outsubu	3
	spreading short					4
<b>2.</b>	<b>MS Plant: height</b>					
(*)						
(+)						
<b>QN</b>	<b>(c)</b> short				Shinano-natusoba	3
	medium				Shinano No.1	5
	tall				Miyazaki-outsubu	7
<b>3.</b>	<b>MS Plant: number of primary branches</b>					
(*)						
(+)						
<b>QN</b>	<b>(c)</b> few				Kitawase-soba	3
	medium				Shinano No.1	5
	many				Takane ruby	7
<b>4.</b>	<b>MS Plant: length of main stem</b>					
(+)						
<b>QN</b>	<b>(c)</b> short				Shinano-natusoba	3
	medium				Shinano No.1	5
	long					7
<b>5.</b>	<b>MS Stem: number of nodes on main stem</b>					
(*)						
(+)						
<b>QN</b>	<b>(c)</b> few				Shinano-natusoba	3
	medium				Shinano No.1	5
	many				Takane ruby	7

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
<b>6.</b>	<b>MS</b>					
	(+)					
<b>QN</b>	<b>(c)</b>	small			Shinano-natusoba	3
		medium			Shinano No.1	5
		large				7
<b>7.</b>	<b>VS</b>	<b>Stem: anthocyanin coloration</b>				
<b>QN</b>	<b>(c)</b>	absent or very weak				1
		weak				3
		medium			Shinano No.1	5
		strong				7
<b>8.</b>	<b>VS</b>	<b>Leaf blade: length</b>				
<b>QN</b>	<b>(a)</b>	short				3
		medium			Shinano No.1	5
		long				7
<b>9.</b>	<b>MS</b>	<b>Leaf blade: width</b>				
<b>QN</b>	<b>(a)</b>	narrow				3
		medium			Shinano No.1	5
		broad				7
<b>10.</b>	<b>VS</b>	<b>Leaf blade:intensity of green color</b>				
<b>QN</b>	<b>(a)</b>	light				3
		medium			Shinano No.1	5
		dark				7



	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota	
<b>11.</b>	<b>VS</b>	<b>Time of flowering</b>					
(*)							
<b>QN</b>	<b>(a)</b>	early			Kitawase-soba	3	
		medium			Shinano No.1, Shinano-natusoba	5	
		late			Shinei-red	7	
<b>12.</b>	<b>VS</b>	<b>Inflorescence:flower color</b>					
(*)							
<b>PQ</b>	<b>(b)</b>	white			Shinano No.1	1	
		light pink			Shinei red	2	
		medium red			Takane ruby	3	
		dark red				4	
<b>13.</b>	<b>VS</b>	<b>Inflorescence: number of flower clusters on tip of main stem</b>					
(+)							
<b>QN</b>	<b>(b)</b>	few				3	
		medium				5	
		many			Shinano No.1	7	
<b>14.</b>	<b>MS</b>	<b>Inflorescence: number of flower clusters</b>					
(+)							
<b>QN</b>	<b>(c)</b>	few			Shinano-natusoba	3	
		medium			Shinano No.1	5	
		many				7	
<b>15.</b>	<b>VS</b>	<b>Time of maturity</b>					
(*)							
<b>QN</b>	<b>(c)</b>	early			Shinano-natusoba	3	
		medium			Shinano No.1	5	
		late			Shinei red	7	

	English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota	
<b>16.</b>	<b>VS</b>	<b>Seed: shape</b>					
	(+)						
<b>PQ</b>	<b>(d)</b>	elliptic				1	
		ovate				2	
		triangular			Shinano No.1	3	
		alate				4	
<b>17.</b>	<b>MS</b>	<b>Seed: length</b>					
<b>QN</b>	<b>(d)</b>	short				3	
		medium			Shinano No.1	5	
		long				7	
<b>18.</b>	<b>MS</b>	<b>Seed: width</b>					
<b>QN</b>	<b>(d)</b>	narrow				3	
		medium			Shinano-natusoba	5	
		broad				7	
<b>19.</b>	<b>VS</b>	<b>Seed: color</b>					
	(*)						
<b>PQ</b>	<b>(d)</b>	white silver				1	
		grey				2	
		medium brown			Takane ruby	3	
		dark brown			Shinano No.1	4	
		black			Shinano-natusoba	5	
<b>20.</b>	<b>MS</b>	<b>Seed: weight per</b>					
	(*)	<b>1000 seeds</b>					
<b>QN</b>	<b>(d)</b>	low			Shinei red	3	
		medium			Shinano No.1	5	
		high			Kitawase-soba	7	

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English	français	deutsch	español	Example Varieties/ Exemples/ Beispielssorten/ Variedades ejemplo	Note/ Nota
<b>21. MS</b>	<b>Seed: one liter</b>				
	<b>weight</b>				
<b>QN (d)</b>	low				3
	medium			Shinano No.1	5
	high				7

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8. Explanations on the Table of Characteristics

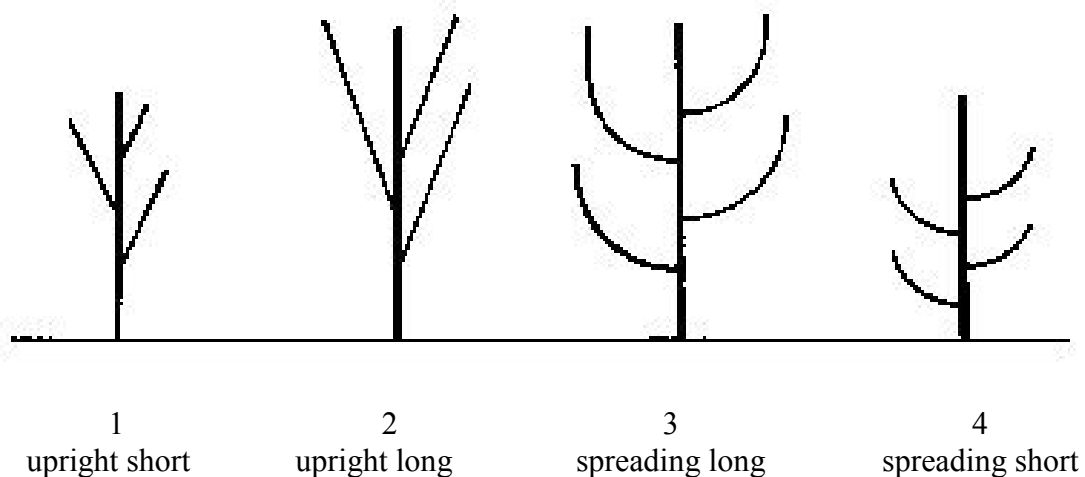
8.1 *Explanations covering several characteristics*

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

- (a) Observations at beginning of inflorescence emergence
- (b) Observations on full flowering: (50% of the plants)
- (c) Observations on physiological maturity: (80% of mature seed)
- (d) Observations on harvest dry seeds time

8.2 *Explanations for individual characteristics*

Ad. 1: Plant: attitude



Ad. 2: Plant: height

Ad. 3: Number of primary branches

To be counted primary branches with more than two nodes only.

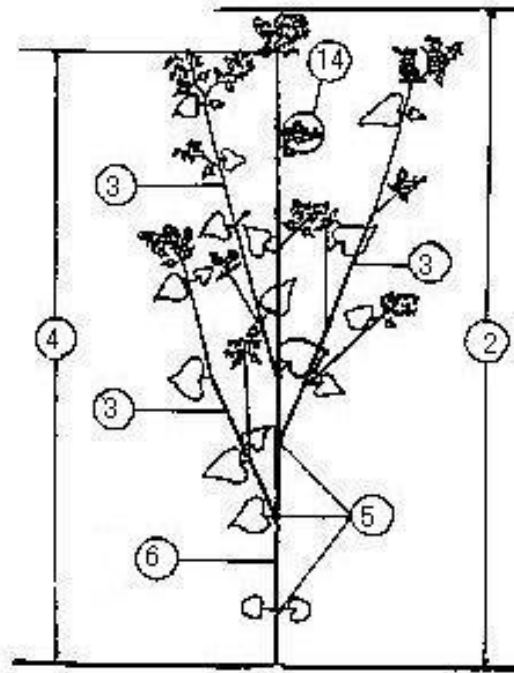
Ad. 6: Stem: diameter

To be measured on central part of internode between first and second node on main stem.

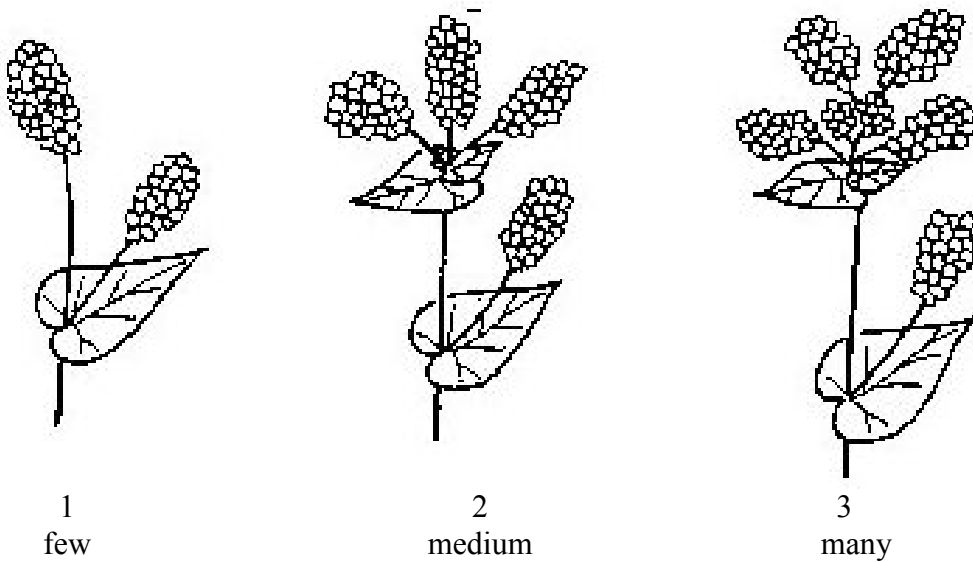
Ad. 11: Time of flowering

Time of flowering is the time of beginning of inflorescence emergence.

Ad. 2: Plant: height, 3: Plant: number of primary branches, 4: Plant: length of main stem, 5: Stem: number of nodes on main stem, 6: Stem: diameter, 14: Inflorescence: number of flower clusters



Ad. 13: Inflorescence: number of flower clusters on tip of main stem



Ad. 14: Inflorescence: number of flower clusters

To be excluded the flower clusters on tip of main stem.

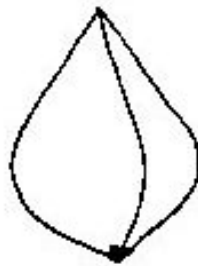
Ad. 16: Seed: shape



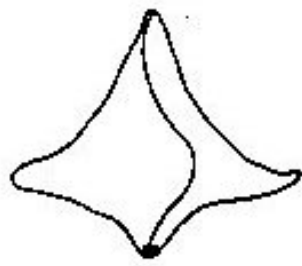
1  
elliptic



2  
ovate



3  
triangular



4  
alate

9. Literature

Hoshikawa, K., 1980: Buckwheat in New Agricultural Crops. Yokendo. Tokyo, Japan, pp 400-409.

Shigemori, I., Honda, Y., *etc.*, 2003: Test Guideline for Buckwheat. Ando. Nagano, Japan, pp 5-47.

Hayashi, H., Honda, Y., Katsuta, M., *etc.*, 2004: Varieties of Buckwheat. The Japan Buckwheat Association. Tokyo, Japan

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="Fagopyrum esculentum Moench"/>	
1.2 Common name	<input type="text" value="Buckwheat"/>	
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"/>	



TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
<b>#4. Information on the breeding scheme and propagation of the variety</b>		
4.1 Breeding scheme		
Variety resulting from:		
4.1.1 Crossing		
(a) controlled cross (please state parent varieties)	[ ]	
(b) partially known cross (please state known parent variety(ies))	[ ]	
(c) unknown cross	[ ]	
4.1.2 Mutation (please state parent variety)	[ ]	
4.1.3 Discovery and development (please state where and when discovered and how developed)	[ ]	
4.1.4 Other (please provide details)	[ ]	
<div style="border: 1px solid black; height: 40px; width: 440px; margin: 0 auto;"></div>		

# Authorities may allow certain of this information to be provided in a confidential section of the Technical Questionnaire.



TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
<p>4.2 Method of propagating the variety</p> <p>4.2.1 Seed-propagated varieties</p> <p>(a) Self-pollination [ ]</p> <p>(b) Cross-pollination (i) population [ ] (ii) synthetic variety [ ]</p> <p>(c) Hybrid [ ] {...see GN 32 for example...}</p> <p>(d) Other [ ] (please provide details)</p>		

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:	
<p>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).</p>			
Characteristics	Example Varieties	Note	
<p><b>5.1 Plant: height</b> (2)</p> <p>short</p> <p>medium</p> <p>tall</p>	<p>Shinano-natusoba</p> <p>Shinano No.1</p> <p>Miyazaki-outsubu</p>	<p>3 [ ]</p> <p>5 [ ]</p> <p>7 [ ]</p>	
<p><b>5.2 Plant: number of primary branches</b> (3)</p> <p>few</p> <p>medium</p> <p>many</p>	<p>Kitawase-soba</p> <p>Shinano No.1</p> <p>Takane ruby</p>	<p>3 [ ]</p> <p>5 [ ]</p> <p>7 [ ]</p>	
<p><b>5.3 Stem: number of nodes on main stem</b> (5)</p> <p>few</p> <p>medium</p> <p>many</p>	<p>Shinano-natusoba</p> <p>Shinano No.1</p> <p>Takane ruby</p>	<p>3 [ ]</p> <p>5 [ ]</p> <p>7 [ ]</p>	
<p><b>5.4 Time of flowering</b> (11)</p> <p>early</p> <p>medium</p> <p>late</p>	<p>Kitawase-soba</p> <p>Shinano No.1, Shinano-natusoba</p> <p>Shinei red</p>	<p>3 [ ]</p> <p>5 [ ]</p> <p>7 [ ]</p>	
<p><b>5.5 Inflorescence: flower color</b> (12)</p> <p>white</p> <p>light pink</p> <p>medium red</p> <p>dark red</p>	<p>Shinano No.1</p> <p>Shinei red</p> <p>Takane ruby</p>	<p>1 [ ]</p> <p>2 [ ]</p> <p>3 [ ]</p> <p>4 [ ]</p>	

TECHNICAL QUESTIONNAIRE		Page {x} of {y}	Reference Number:
Characteristics		Example Varieties	Note
<b>5.6 Time of maturity</b> <b>(15)</b>			
early		Shinano-natsusoba	3 [ ]
medium		Shinano No.1	5 [ ]
late		Shinei red	7 [ ]
<b>5.7 Seed: color</b> <b>(19)</b>			
white silver			1 [ ]
gray			2 [ ]
medium brown		Takane ruby	3 [ ]
dark brown		Shinano No.1	4 [ ]
black		Shinano-natsusoba	5 [ ]
<b>5.8 Seed: weight per 1000 seeds</b> <b>(20)</b>			
low		Shinei red	3 [ ]
medium		Shinano No.1	5 [ ]
high		Kitawase-soba	7 [ ]

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:	
<p>6. Similar varieties and differences from these varieties</p> <p><i>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.</i></p>			
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 <b>similar</b> variety(ies)	Describe the expression of the characteristic(s) for <b>your</b> candidate variety
<i>Example</i>	<i>Plant: height</i>	<i>short</i>	<i>medium</i>
<p>Comments:</p>			

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:
<p>#7. Additional information which may help in the examination of the variety</p> <p>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?</p> <p>Yes [ ] No [ ]</p> <p>(If yes, please provide details)</p> <p>7.2 Are there any special conditions for growing the variety or conducting the examination?</p> <p>Yes [ ] No [ ]</p> <p>(If yes, please provide details)</p> <p>7.3 Other information</p>		
<p>8. Authorization for release</p> <p>(a) Does the variety require prior authorization for release under legislation concerning the protection of the environment, human and animal health?</p> <p>Yes [ ] No [ ]</p> <p>(b) Has such authorization been obtained?</p> <p>Yes [ ] No [ ]</p> <p>If the answer to (b) is yes, please attach a copy of the authorization.</p>		

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# Authorities may allow certain of this information to be provided in a confidential section of the Technical Questionnaire.

TECHNICAL QUESTIONNAIRE	Page {x} of {y}	Reference Number:												
<p>9. Information on plant material to be examined or submitted for examination.</p> <p>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.</p> <p>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:</p> <table><tr><td>(a) Microorganisms (e.g. virus, bacteria, phytoplasma)</td><td>Yes [ ]</td><td>No [ ]</td></tr><tr><td>(b) Chemical treatment (e.g. growth retardant, pesticide)</td><td>Yes [ ]</td><td>No [ ]</td></tr><tr><td>(c) Tissue culture</td><td>Yes [ ]</td><td>No [ ]</td></tr><tr><td>(d) Other factors</td><td>Yes [ ]</td><td>No [ ]</td></tr></table> <p>Please provide details for where you have indicated "yes".</p> <p>.....</p>			(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 [ ]
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(d) Other factors	Yes [ ]	No [ ]												
<p>10. I hereby declare that, to the best of my knowledge, the information provided in this form is correct:</p> <table><tr><td>Applicant's name</td><td colspan="2"><input type="text"/></td></tr><tr><td>Signature</td><td><input type="text"/></td><td>Date <input type="text"/></td></tr></table>			Applicant's name	<input type="text"/>		Signature	<input type="text"/>	Date <input type="text"/>						
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