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GENEVA

TECHNICAL WORKING PARTY FOR AGRICULTURAL CROPS

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REVISION OF THE DRAFT TEST GUIDELINES FOR RICE, PROPOSED IN THE TECHNICAL COORDINATION MEETING FOR ASIAN PLANT VARIETY PROTECTION SYSTEMS, IN TSUKUBA, JAPAN, FROM MAY 17 TO 19, 2000

prepared by the Office of the Union

1. The draft Test Guidelines for Rice (TG/16/5(proj.)) was discussed during the Technical Coordination Meeting for Asian Plant Variety Protection Systems held in Tsukuba, Japan, from May 17 to 19, 2000. This document describes revisions of that Test Guidelines as proposed by experts from eight Asian countries.

2. The Meeting proposed the following main changes in document TG/16/5(proj.):

(i) Material Required: The minimum quantity of seed should be changed to a smaller one, considering the amount necessary for testing and inclusion in the reference collection. One expert suggested 1.5 kg for the minimum quantity of seed to be supplied and, if required, 30 panicles (instead of 100 panicles).

(ii) Conduct of Tests: The third sentence of the third paragraph should read "As a minimum, each test should include a total of 300 plants which should be divided between two or more replicates."

(iii) Methods and Observations: The third and fourth paragraphs should be replaced by the following paragraph:

"3. For the assessment of uniformity of characteristics, a population standard of 1% with an acceptance probability of at least 95% should be applied. In the case of a sample size of 300 plants (visual assessment on the plot by a single observation of a group of plants or parts of plants), the maximum number of off-types allowed should be 6. In the case of a sample size of 50 plants (actual measurement or visual assessment by observations of a number of individual panicle-rows, plants or parts of plants), the maximum number of off-types allowed should be 2."

(iv) Table of Characteristics:

1 To have the following three new characteristics before characteristic 1:

"Leaf sheath: anthocyanin coloration (Stage: 15-17)	absent	1
	present	9
Leaf sheath: intensity of anthocyanin coloration (Stage 15-17)	very weak	1
	weak	3
	medium	5
	strong	7
	very strong	9
Culm: angle (Stage 40-70)	erect	1
	semi-erect	3
	open	5
	spreading	7
	procumbent	9"

2a To have a new characteristic "Leaf: thickness (Stage 40)" with states "thin (3)", "medium (5)" and "thick (7)"

7a To have a new characteristic “Leaf: erectness (2-3 leaves below the flag leaf)” proposed by the expert from the Republic of Korea with states “erect (1)”, “semi-erect (2)”, “intermediate (3)” and “droopy (4)”

9 To be kept as it is because male sterility could not be examined by presence or absence of pollen and to have the method for the examination of male sterility added

11,12 To have the stage (65) reconsidered

13 To be moved to before characteristic 10

18a,b To have the following two new characteristics:

“Penultimate leaf blade: length:	short	3
	medium	5
	long	7
Penultimate leaf blade: width	narrow	3
	medium	5
	broad	7”

19 To have two new states of expression, “very short (1)” and “very long (9)” added.

22 One expert suggested that characteristic 22 be replaced by two characteristics “Lemma: intensity of pubescence” and “Lemma: length of hair”

25, 26 To have the order of these two characteristics reversed

26a To have the following new characteristic:

“Panicle: color of awns (Stage 90)	yellowish white	1
	yellowish brown	2
	brown	3
	reddish brown	4
	light red	5
	red	6
	light purple	7
	purple	8
	black	9”

27 To have the notes renumbered from 1 to 5

28 To have the states of expression replaced by states, “ very strongly exserted (1)”, “strongly exserted (3)”, “just exserted (5)”, “partly exserted (7)” and “enclosed (9)”

32a To have a new characteristic “Grain: phenol reaction of lemma (stage 92)” with states “absent (1)” and “present (9)” to distinguish between indica and japonica

36 To have an additional state “dark purple (7)” with an example variety “Asamurasaki”

37a To have a new characteristic “Endosperm: type” with states “non-waxy (1)” and “waxy (9)” with example varieties “Hitomebore, Nipponbare” and “Akanemochi” respectively

37b To have a new characteristic “Non-waxy type varieties only: Polished grain: size of white belly (stage 92) with states “very small (1)”, “small (3)”, “medium (5)”, “large (7)” and “very large (9)”

38 To read “Non-waxy type varieties only: Endosperm: content of amylose” and to have the states of expression and explanation replaced by the following:

	Note	Example varieties	Explanation (amylose content)
very low	1		<5%
low	2	Aya, Miara, Milky-Queen	5-15%
medium	3	Inca	15-21%
high	4	Thaibonnet	21-25%
very high	5		>25%

(vi) Explanations on the Table of Characteristics: Explanations of characteristics “Grain: phenol reaction of lemma” and “Male sterility” to be provided.

Ad. 28 The drawings to be replaced by those in the IRRI/IPGRI Variety Descriptors for Rice.

(v) Literature: To read as follows:

“T. Matsuo (edit.) (1993-97): “Science of the Rice Plant (volume 1-3)” Rural Culture Association, Tokyo, Japan.

Vol. 1 Morphology (1993)
Vol. 2 Physiology (1995)
Vol. 3 Genetics (1997)
Indices (1997)

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