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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS
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**TECHNICAL WORKING PARTY
FOR
ORNAMENTAL PLANTS AND FOREST TREES**

**Thirty-Seventh Session
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COMMENTS ON THE
TEST GUIDELINES FOR AMARANTH (DOCUMENT TG/AMARANT(PROJ.3))
MADE BY THE TECHNICAL WORKING PARTY FOR AGRICULTURAL CROPS

Document prepared by the Office of the Union

1. The annex to this document presents the comments made on the Test Guidelines for Amaranth (document TG/AMARANT(proj.3)), by the Technical Working Party for Agricultural Crops at its thirty-third session, held in Poznań, Poland, from June 28 to July 2, 2004.

[Annex follows]

ANNEX

*Amaranth (document TG/AMARANT(proj.3))*1. *Subject of these Guidelines*

To read: “1.1 These Test Guidelines apply to all varieties of *Amaranthus* L. excluding ornamental types.”

3. *Method of examination*

3.3.3 To delete “B: row plot”

5. *Grouping characteristics*

To have the following grouping characteristics

- (a) Seedling: anthocyanin pigmentation of hypocotyl (characteristic 3)
- (b) Plant: growth type (characteristic 10)
- (c) Leaf: anthocyanin pigmentation on petiole (characteristic 17)
- (d) Leaf: presence of patch (characteristic 21)
- (e) Inflorescence: type (characteristic 33)
- (f) Seed type (characteristic 43)

7. *Table of characteristics*

Char.No.	Type of expression	Method of assessment	Comment
1			To delete the whole characteristic
2		VS – A	
3		VS – A	
4		VS – A	To add example varieties
5	QN	VS – A	To read: “Leaf blade: intensity of green (ground) color on the <u>upper side</u> ” with states of expression “light” (3), “medium” (5) and “dark” (7), and to add example varieties
6		VS – A	To read: “Leaf blade: intensity of ground color on the <u>lower side</u> ” with states of expression “green” (1), “red” (2) and “purple” (3)
7		VS – A	To read: “Leaf blade: secondary color at beginning of growth”, to delete the stage of “other” (7) and to add an explanation. To define the stage of development for assessment

- 8 VS – A To read: “Leaf blade: distribution of secondary color at beginning of growth”, to add an explanation.
To define the stage of development for the assessment and to add an explanation/illustration
- 9 To delete the whole characteristic No. 9
- 10 VG – A
- 11 VS – A
- 12 VS – A To delete state “other: state type”(4)
- 13 To delete the whole characteristic
- 14 MS – A
- 15 MS – A
- 16 To delete the whole characteristic
- 17 VS – A
- 18 QN VS – A State (1) to read: “very weak”
- 19 VS – A To delete “(b)”
- 20 VS – A To read: “Leaf blade: secondary color”
- 21 VS – A To read: “Leaf blade: presence of patch”
- 22 (+) VS – A To read: “Leaf blade: size of patch in relation to blade” and to add an illustration and example varieties
- 23 VS – A To read: “Leaf blade: color of patch”
- 24 (+) VS – A Mexico to provide illustration
- 25 (+) MS – A To add an explanation
- 26 VS – A To split the characteristic on the basis of absence and presence of stripes and to delete stage “striped” (6)
- 27 VS – A To check if it is really QL
- 28 QL VS – A
- 29 QN VS – A
- 30 MS – A To verify the time of observation
- 31 VS – A To verify the time of observation
- 32 VS – A
- 33 VG – A To read: “inflorescence: type”, with states “amaranth form” (1) and “glomerule forms”
- 34 QN MS – A To add example varieties
- 35 VS – A To read: “Inflorescence, size of inflorescence; size of bract related to utricul
- 36 (+) MS – A To read: “Inflorescence: time of beginning of emergence of inflorescence” and to add an explanation
- 37 VS – A
- 38 (+) MS – A To add an explanation
- 39 MS – A
- 40 MS – C To read: “Seed: weight per 1000 grains (at 10 % moisture)”
- 41 VG – C

- 42 (+) VG – C To add drawing and to reword the states of expression
43 VG – C
44 VG – C

8. *Explanations on the Table of Characteristics*

8.1 Explanations covering several characteristics

- To read
- (a) observations on the seedling which should be made 3-6 days after to emergence
 - (b) observations of the growth habit, leaf, root and stem which should be made at full flowering (50% of the plants)
 - (c) observations of inflorescence which should be made on the main inflorescence
 - (d) observations on the seed which should be made on dry seed at harvest time

8.2 Explanations for individual characteristics

Ad 4 To add explanation

Ad 7 To add explanation

Ad 44 Ad. 44: Seed: pop percent (relative increase of volume)

The moisture content must be between 14 and 16%; if necessary, the seeds should be soaked.

To delete the Code to identify some food species of the family Amaranthaceae

10. *Technical Questionnaire*

- 1 To add a box to specify the species
4 To delete 4.1 (ii)
4.2 To delete the references to GN 31 y GN 32

The subgroup agreed that experts from Brazil and Japan would, if possible, send seed samples to the expert from Mexico to be included in a field trial jointly with varieties from Mexico and Hungary. It further agreed that a new draft should be prepared for the next session of the TWA in 2005.

[End of Annex and of document]