



TWF/43/32

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INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

TECHNICAL WORKING PARTY FOR FRUIT CROPS**Forty-Third Session****Beijing, July 30 to August 3, 2012****DRAFT TEST GUIDELINES FOR PINEAPPLE***prepared by the Office of the Union*

1. The Technical Working Party for Fruit Crops (TWF), at its forty-second session, held in Hiroshima, Japan, from November 14 to 11, 2011, agreed to submit the draft Test Guidelines for Pineapple (document TG/PINEAP(proj.7)) to the Technical Committee (TC) for adoption at its forty-eighth session, held in Geneva from March 26 to 28, 2012 (see document TWF/42/26 Rev., "Revised Report", paragraph 70).
2. The TC considered the draft Test Guidelines for Pineapple (document TG/PINEAP(proj.9)) and agreed that, on the basis of the recommendation of the Enlarged Editorial Committee (TC-EDC), the draft Test Guidelines for Pineapple should be referred back to the TWF in order to resolve technical issues, as presented in the comments by the TC-EDC (see document TC/48/22 "Report on the conclusions", paragraph 151).
3. Annex I to this document contains the comments made by the TC-EDC and the proposals made by the Leading Expert in response to the requests of the TC, which are incorporated in document TG/PINEAP(proj.10).
4. Annex II to this document contains additional changes to the draft Test Guidelines proposed by the Leading Expert that have already been incorporated in document TG/PINEAP(proj.10) and additional comments made by interested experts to the Leading Expert, which have not been incorporated in document TG/PINEAP(proj.10).

[Annex I follows]

ANNEX I

CHANGES TO THE DRAFT TEST GUIDELINES PROPOSED BY THE TC-EDC

(a) Changes to document TG/PINEAP(proj.8) made on the basis of comments received from members of the Enlarged Editorial Committee in January 2012, which were already incorporated in the draft Test Guidelines (document TG/PINEAP(proj.9)), submitted to the TC:

1.	to correct 2nd sentence: "The characteristics in these Test Guidelines..."
3.3.2	to correct reference to chapter 8.3 (instead of 8.4)
5.4	to read "...document TGP/9 "Examining Distinctness"
Before char. 10	The line that divides the characteristic is missing.
Char. 10	to change the title of the char. to „ Only varieties with spines visible: Leaf: density of spines“ and the same for the char. 12 and 13 to include the type of char. and method of observation <i>Leading Expert: to be indicated as QN, VS, 1-7, (a)</i>
Chars. 12, 13	see char. 10
Char. 19	state (5) to read "red" instead of "medium red" <i>Leading Expert agreed</i>
Char. 24	to read "Plant: number of aerial suckers on stem (cloves)"
Char. 25	to read "Plant: size of aerial suckers on stem (cloves)"
Char. 27	to indicate type of char. and method of observation <i>Leading Expert: to be indicated as QN, VG/MS, (e)</i>
Char. 28	to read "Crown: number" (to delete "with states")
Char. 42	to delete (+)
8.1 (c), (d), (e)	to delete colon after brackets "(Characteristics...):- "
8.2	to correct spaces in the list of synonyms of example varieties
Ad. 2	to add full stop at the end of the sentence to improve explanation <i>Leading Expert provided improved explanation</i>
Ad. 26	to correct quotation marks to read 'Raised margins'
Ad. 37, 38	to correct position of "floral bract" and "eye" to correspond to the respective arrows
Ad. 43	to add „Can be assessed using a penetrometer or manually.“ or „to be assessed using a penetrometer“. <i>Leading Expert: to read "To be assessed using a penetrometer."</i>
9.	Collins and Kerns (1946) should be added since is cited in Ad. 8. <i>Leading Expert provided literature reference</i>

(b) Changes proposed by the TC-EDC in January and March 2012, which are to be included in the Test Guidelines submitted to the TC:

2.2	to read "The material is to be supplied in the form of aerial suckers, crowns, slips or young plants as specified by the authority." <i>Leading Expert agreed</i>
3.1.2	to read "The growing cycle is considered to be the period ranging from the beginning of active vegetative growth, continuing through active vegetative growth and fruit development and concluding with the harvesting of fruit." <i>Leading Expert agreed</i>
4.1.4	to read "Unless otherwise indicated, for the purposes of distinctness, 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, disregarding any off-type plants." <i>Leading Expert agreed</i>

5.3/TQ 5	<p>Grouping characteristics: 6 ,9, 34 and 39 TQ characteristics: 1, 8, 9, 11, 26, 31, 34, 37 and 39. They should be the same.</p> <p><i>Leading Expert checked and proposes the following Grouping and TQ characteristics:</i></p> <p>(a) <i>Plant: growth habit (characteristic 1) to be kept ?</i></p> <p>(b) <i>Leaf: anthocyanin coloration (characteristic 6)</i></p> <p>(c) <i>Leaf: raised margin (characteristic 8)</i></p> <p>(d) <i>Leaf: spines (characteristic 9)</i></p> <p>(e) <i>Fruit: shape (characteristic 31)</i></p> <p>(c) <i>Fruit: predominant color (characteristic 34)</i></p> <p>(d) <i>Fruit: color of flesh (characteristic 39)</i></p>
6.5	<p>to add reference to growth stages to be transferred from 8.1 and 8.3 and modified as below:</p> <ul style="list-style-type: none"> - 1-T: At fully vegetative growth stage, immediately before flower induction (or before flower emergence?) <p><i>Leading Expert proposes: At fully vegetative growth stage, before flower emergence</i></p> <ul style="list-style-type: none"> - 2-A: Anthesis stage - 3-I: Immature fruit stage, before physiologically ripe - 4-M: Maturity stage, when physiologically ripe]
Char. 10	<ul style="list-style-type: none"> - to replace VS by VG - to read "Only varieties with spines: Leaf: density of spines" <p><i>Leading Expert agreed*</i></p>
Char. 11	<p>to read "Only varieties with spines: Leaf: position of spines at margin"</p> <p><i>Leading Expert agree* for option 1 (see document TG/PINEAP(proj.10))</i></p>
Char. 12	<p>to read "Only varieties with spines: Leaf: color of spine"</p> <p><i>Leading Expert agreed*</i></p>
Char. 13	<p>to read "Only varieties with spines: Leaf: size of the spine"</p> <p><i>Leading Expert agreed*</i></p>
Chars. 21, 27	<p>to add (+)</p> <p><i>Leading Expert agreed</i></p>
Char. 24, 25	<ul style="list-style-type: none"> - to delete "(cloves)" - to add "(cloves)" behind "7. Aerial suckers" in Ad. 21, 24, 27, 29 <p><i>Leading Expert agreed</i></p>
Char. 25	<p>to add VG</p> <p><i>Leading Expert agreed</i></p>
Char. 28	<p>to delete MS</p> <p><i>Leading Expert agreed</i></p>
8.1	<ul style="list-style-type: none"> - to delete growth stages <p><i>Leading Expert agrees if transferred to Chapter 6.2</i></p> <ul style="list-style-type: none"> - (b) should leaf be in italics? <p><i>Leading Expert agreed</i></p>
8.1 (a)	<p>to be deleted</p> <p><i>Leading Expert proposes new wording ((see document TG/PINEAP(proj.10))</i></p>
8.2	<p>presentation of example varieties and synonyms to be improved</p> <p><i>Leading expert agreed (see document TG/PINEAP(proj.10))</i></p>
Ad. 2	<p>to read "Leaves produced between planting and floral induction."</p> <p><i>Leading Expert proposal: "Leaves produced between planting and floral emergence."</i></p>
Ad. 7	<p>Not clear. Does it mean: "The density of trichomes including hairs should be observed."?</p> <p><i>Leading Expert proposal: "Trichomes are to be observed including hairs. They are located on the lower side of the leaf."</i></p>
Ad. 8	<p>Rather: "The meaning of piping is thatthe upper surface to produce a narrow silvery stripe."</p> <p><i>Leading Expert agreed</i></p>
Ad. 11	<p>illustrations must be improved</p> <p><i>Leading Expert agreed (see document TG/PINEAP(proj.10))</i></p>
Ad. 14	<p>How can observations <u>on the fruit</u> be made <u>before fruit development</u>?</p> <p><i>Leading Expert proposal: "To be observed, before total fruit development. Floral bracts are borne on the fruit at the base of each fruitlet (eye)."</i></p>
Ad. 26	<p>to be deleted and to delete (+) in table of characteristics</p> <p><i>Leading Expert agreed</i></p>
Ad. 43	<p>to check whether explanation should be improved</p> <p><i>Leading Expert: to be done</i></p>

Ad. 47	to read "Free acid content is determined by titration of 10 ml filtered juice with 0.1 NaOH with phenolphthaleine as indicator." The dimension is not relevant for description and DUS. <i>Leading Expert confirmed the said characteristic is relevant for DUS (as char. 48 and others – see dry matter content in onion and so on.) Keep it as it is.</i>
Ad. 48	is "recorded with a " not "via refractometer" <i>Leading Expert agreed</i>
8.3	- 1-T to read "1-T: At fully vegetative growth stage, immediately before floral induction" - to provide explanation for "floral induction" <i>Leading Expert: See 8.1 (a) proposed to be deleted ?!</i> - to review other growth stages <i>Leading Expert transferred and modified in 6.2</i>
9.	to add "Bartholomew, D. P., Paul, R. E., and Rohrbach, K. G., eds. (2002): The Pineapple: Botany, Production and Uses; editors., University of Hawaii, Manoa, Honolulu, USA. 320 p." are two different references <i>Leading Expert: The correct one is: Bartholomew, D.P., Paull, R.E., and Rohrbach, K. G., eds., 2002: The Pineapple: Botany, Production and Uses; editors., University of Hawaii, Manoa, Honolulu, USA. 320 pp.</i>

* "visible" was proposed to be deleted by Germany at the TC-EDC. We can accept the proposal. Nevertheless remember that the subgroup added "visible" to do not confuse with "non visible hairy" ornamentations.

[Annex II follows]

ADDITIONAL CHANGES AND COMMENTS

Additional changes made by the Leading Expert:

2.2	to reduce quantity of material to be supplied from 20 to 10
3.4.1	to reduce number of plants from 20 to 10
Char. 43	VG deleted as it is assessed by penetrometer
Char. 47	VG deleted
Char. 48	VG deleted as it is assessed by refractrometer
8 (c), (d), (e)	to reduce number of plants from 20 to 10
9.	literature reference added: CNPMF (CUNHA, G. A. P. da; CABRAL, J. R. S; SOUZA, L. F. da S. (Organizadores). O abacaxizeiro – cultivo, agroindústria e economia. Brasília: Embrapa Comunicação para Transferência de Tecnologia, 1999. P. 17-51

Additional comments made to the Leading Expert

Char. 13	South Africa: Size of slips: is this the size of basal fruit slip or peduncle slip or does it correlate ?
Char. 29	South Africa: Crown attitude : This is not explained by the add (to improve diagram to show upright to spreading) Delete the 2 in the corner. <i>Leading Expert: the aim of the Add was only to show the localization of the crown, not to express the states of the attitude. Leave it as it is.</i>
Char. 37	South Africa: eye profile: Add please improve explanation include diagram ? not clear <i>Leading Expert: the aim of the Add, proposed by Japan, was only to show the localization of the eye profile, not to express the states of the eye. Let as it is.</i>

[End of Annex II and of document]