



TWF/46/28

ORIGINAL: English

DATE: August 10, 2015

INTERNATIONAL UNION FOR THE PROTECTION OF NEW VARIETIES OF PLANTS

Geneva

TECHNICAL WORKING PARTY FOR FRUIT CROPS

Forty-Sixth Session
Mpumalanga, South Africa, August 24 to 28, 2015

DEFINITION OF "RECURVED"

Document prepared by an expert from Israel

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1. The purpose of this document is to present a proposal for a revision of the term "recurved" and accompanying illustration as they appear in TGP/14/2: Section 2: Botanical Terms, Subsection 4: Definitions for Shape, Structure and Color Terms, and TGP/14/2: Section 2: Botanical Terms, Subsection 2: Shapes and Structures: II. Structure, respectively.

BACKGROUND

2. In document TGP/14 it is stated:

Recurved	Curving downwards (abaxially). Compare 'reflexed', which is bent downwards more abruptly.
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The accompanying illustration:



2. This definition is not correct and it causes a lot of unnecessary ambiguity in the Test Guidelines. The correct meaning of the verb recurve is to curve or bend back or backward. The origin of the verb is from Latin: *recurvāre*, meaning bent back on itself (the Etymology of the Latin word *recurvāre* can be found [here](#)).

Recurvāre = re- + *curvāre*

re-: a prefix, occurring originally in loanwords from Latin, used with the meaning "again" or "again and again" to indicate repetition, or with the meaning "back" or "backward" to indicate withdrawal or backward motion: regenerate; refurbish; retype; retrace; revert (more [here](#)).

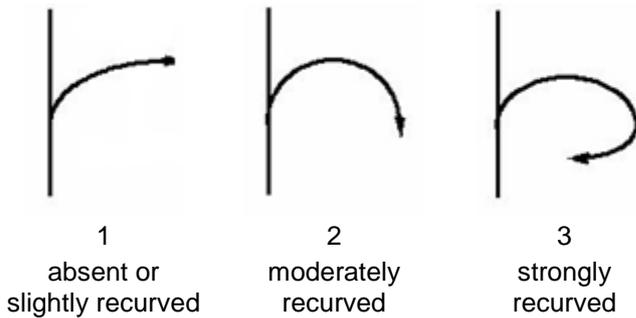
curvāre: to curve: a continuously bending line, without angles.

3. Examples from TG's using the term "recurve":

In TG/262/1 Gypsophila:

11.	Leaf: recurvature
(+)	
QN	(c) absent or slightly recurved
	moderately recurved
	strongly recurved

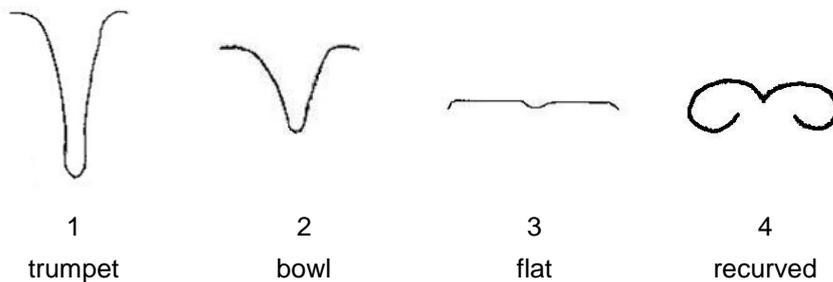
Ad. 11: Leaf: recurvature



In TG/59/7 Lily:

16.	Flower: shape of perianth (excluding pedicel)
(*)	
(+)	
PQ	trumpet
	bowl
	flat
	recurved

Ad. 16: Flower: shape of perianth (excluding pedicel)



3. In these 2 examples the shapes are not "recurved", they are simply "curved". There is no backward bending, the line continuously curves in the same direction to form an arc, and there is no change in the direction of the curvature.

PROPOSAL

4. It is proposed to change the wording and illustration for the term “recurved” in document TGP/14. The proposed changes are presented below in highlight and underline (insertion) and strikethrough (~~deletion~~).

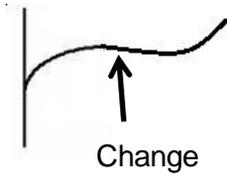
Current wording and illustration:

Recurved	Curving downwards (abaxially). Compare ‘reflexed’, which is bent downwards more abruptly.
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Proposed new wording and illustration:

Recurved	<u>Curving with a change in direction of curvature at some point</u>
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Example photo: Pitahaya fruit bract



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