Studies on Agrobiological OIV Descriptors of Table Grape Varieties Grown in Târnave Vineyard

Maria ILIESCU^{1*}, Anca BABEȘ^{2*}, Dan SEID¹

¹Research Station for Viticulture and Enology Blaj, 2 Gh. Baritiu Street, Blaj, 515400, Romania

² Faculty of Horticulture, University of Agricultural Sciences and Veterinary Medicine Cluj-Napoca, 3-5 Mănăştur Street, 400372, Romania.

^{*}Corresponding author, e-mail: marina_iliescu@yahoo.com / babesanca@yahoo.com

BulletinUASVM Horticulture 73(2) / 2016

Print ISSN 1843-5254, Electronic ISSN 1843-5394

DOI:10.15835/buasvmcn-hort:12298

Abstract

The OIV (International Organisation of Vine and Wine) descriptors of grapevine characteristics serve for standardization on description of grapevine varieties. The paper comprises characteristics distinguishing for the table grape varieties, but also indicates the agronomic aptitudes of table grape varieties, in Târnave vineyard.

Keywords: *ampelographic codes, leaves, shoots and grape berries descriptors.*

Introduction

The description of *Vitis* varieties through morphological characteristics has been the subject of many studies for a long time. The vine characteristics are useful to standardization and description of grapevine varieties.

Aims and objectives

The objective of the research carried out to highlight the ampelographic descriptors of some table grape varieties, cultivated at Research Station for Viticulture and Enology (RSVE) Blaj and their behavior in this vineyard area. The ampelographic codes are recommended to be used for a standard work of grapevine genetic resources and are useful to the scientists and the grapevine breeders.

Materials and methods

The table grape varieties studied are: 'Codreanca', 'Istrița', 'Someșan', 'Transilvania', 'Cetățuia', 'Splendid', 'Victoria' and 'Timpuriu de Pietroasa', and the observations on the shoots, leaves, grapes and berries have been made in viticultural center Blaj, Târnave vineyard. The ampelographic descriptors, to describing

each variety, are presented in accordance with the methodology created by the International Organization of Vine and Wine (OIV, 2001).

Results

The data obtained through the specified methodology (Țârdea and Rotaru, 2003; Dejeu, 2004) for young and adult leaves, shoot, inflorescence, grape and berry are presented in the next tables. The characteristics listed in the tables serve the purpose of a standardized and objective description, of grapevine varieties. It is a common basis for an international cooperation for description and evaluation of grapevines. The data for young and adult leaves, shoot, inflorescence, are presented in the table 1. At all grape varieties the aperture of the young shoot is fully open, the color of young leaves is green with the size medium (cod 1) at blade of mature leaf at the varieties: 'Codreanca', 'Someșan', 'Cetățuia', 'Splendid', 'Victoria' and size large (cod 7) at 'Transilvania'.

At four grape varieties the shape of teeth at mature leaf is with both sides straight (code 2), except the cultivar 'Codreanca' with shape of teeth convex at both sides (cod 3).

Tab. 1. Ampelographic OIV descriptors of shoot and leaves at some table grapes varieties, from Research Station for Viticulture and Enology Blaj

Cod OIV Variety	Descriptors				
	OIV 001 Young shoot: aperture of tip	OIV 017 Shoot: length of tendrils	OIV 051 Young leaf: color of upper side of blade	OIV 065 Mature leaf: size of blade	OIV 076 Mature leaf: shape of teeth
'Codreanca'	5 (fully open)	7 (long)	1 (green)	5 (medium)	3 (both sides convex)
'Someșan'	5 (fully open)	7 (long)	1 (green)	5 (medium)	2 (both sides straight)
'Transilvania'	5 (fully open)	5 (medium)	1 (green)	7 (large)	2 (both sides straight)
'Cetățuia'	5 (fully open)	5 (medium)	1 (green)	5 (medium)	2 (both sides straight)
'Splendid'	5 (fully open)	7 (long)	1 (green)	5 (medium)	2 (both sides straight)
'Victoria'	5 (fully open)	3 (short)	1 (green)	5 (medium)	2 (both sides straight)

Tab. 2. Ampelographic OIV descriptors at grape bunch and berry at some table grapes varieties, from Research Station for Viticulture and Enology Blaj

Cod OIV Variety	Descriptors				
	OIV 204: Bunch: density	OIV 208: Bunch: shape	OIV 225: Berry: color of skin	OIV 235: Berry: firmness of flesh	OIV 503: Berry: single berry weight (g)
'Codreanca'	3 (losse)	3 (funnel shaped)	6 (blue black)	3 (very firm)	5 (5g)
'Someșan'	5 (medium)	3 (funnel shaped)	6 (blue black)	3 (very firm)	5 (5g)
'Transilvania'	5 (medium)	3 (funnel shaped)	5 (dark red violet)	2 (slightly firm)	5 (5g)
'Cetățuia'	5 (medium)	2 (conical)	5 (dark red violet)	2 (slightly firm)	3 (3g)
'Splendid'	3 (losse)	3 (funnel shaped)	3 (red)	2 (slightly firm)	5/7 (5/7g)
'Victoria'	3 (losse)	3 (funnel shaped)	1 (green yellow)	3 (very firm)	7 (7g)

Photo 1. Young shoot, grape and leaf at 'Codreanca' and 'Transilvania' grape varieties **Photo 2.** Young shoot, grape and leaf at 'Splendid' and 'Victoria' grape varieties

Regarding the OIV descriptors of table grape bunch and berry (Tab. 2.), it can observe that the grape bunch density is medium (cod 3) at 'Someșan', 'Transilvania', 'Cetățuia' and the

varieties: 'Codreanca', 'Splendid', 'Victoria' have losse grape bunch density (cod 5). At the grapes the berries flesh is slightly firm or very firm, with a berry weight between 3 grams ('Cetățuia') and 7

grams at 'Victoria' variety. The tables and the photos characteristics comprise not only distinguishing characteristics of the grape varieties, but also some characteristics which indicate the technological aptitudes of grape cultivars.

Conclusion

The OIV Descriptors for grape varieties aims at identical descriptor definition and recording, to one comparability of data and promote an increased utilization of descriptor data. The results of this study will contribute to knowledge of the specific features of table varieties grown in the

vineyard Târnave, characterization, highlighting technological attributes and behavior depending on climatic conditions.

REFERENCES

1. Târdea C, Rotaru L (2003). Ampelografie. Vol. II p.84-194, Editura I.I.de la Brad, Iași.
2. Dejeu L (2004). Viticultura practică. Ed. Ceres, București.
3. Iliescu M, Farago M, Ranca A (2010). Evaluation of Environmental Quality in Vineyards Târnave and Murfatlar. Bulletin UASMV Cluj-Napoca Horticulture, 67(1):495.
4. ***2nd Edition of the OIV descriptor list for grape varieties and *Vitis species*, 2001.