



DENOMINATIONS AND SYNONYMS:

(I. Trujillo, D. Barranco, P. Morello)

Becco di corvo, Borgese, Calabrese, Camignana, Camignaria, Caroleo, Catanzarese, Colarè, Convitè, Corbarica Coriolese, Cortalese, Cumignana, Marinotto, Muso di corvo', Nicastrese, Oliva dolce, Olivo di Calabria, Olivo di Sorta, Olivona, Pizzu i corvu, Policastrese, Squillaciota, Verdella, Becco di corvo, Borgese, Calabrese, Camignana, Camignaria, Caroleo, Catanzarese, Colarè, Convitè, Corbarica Coriolese, Cortalese, Cumignana, Marinotto, Muso di corvo', Nicastrese, Oliva dolce, Olivo di Calabria, Olivo di Sorta, Olivona, Pizzu i corvu, Policastrese, Squillaciota, Verdella,

ORIGIN AND DIFFUSION:

The genetic origin of this cultivar is unknown. It is the most important variety of Calabria Italian region, mainly diffused in the province of Catanzaro, but also widespread in the provinces of Cosenza and Crotone, and, in small percentages, also in the provinces of Vibo Valentia and Reggio Calabria. It currently occupies more than 50,000 ha.

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PURPOSE: Oil, Table olives

MORPHOLOGICAL CHARACTERISATION:

Tree	Vigour	Strong
	Growth habit	Upright
	Canopy density	Medium
Leaf blade	Length	Long
	Width	Medium
	Ratio length/width	Moderately elongated
	Curvature of longitudinal axis	Straight
Fruit	Weight	High
	Ratio length/width in position A	Moderately elongated
	Over colour at full maturity	Black
	Symmetry in position A	Strongly asymmetric
	Shape of apex in position A	Rounded
	Nipple	Strong
	Shape of base in position A	Rounded
Stone	Ratio length/width	Moderately elongated
	Weight	High
	Symmetry in position A	Weakly asymmetric
	Symmetry in position B	Symmetric
	Number of grooves on basal end	Between 7 and 10
	Distribution of grooves on basal end	Strongly grouped around suture
	Shape of apex in position A	Rounded
	Mucron	Present
	Shape of base in position A	Acute
	Rugosity of surface	Medium



MOLECULAR CHARACTERISATION (SSRs)

UDO-43	DCA3	DCA9	DCA16	GAPU-101
172/177	229/251	160/196	124/152	191/217

AGRONOMICAL CHARACTERISATION AND COMMERCIAL CONSIDERATIONS

Variety with medium rooting ability by cutting (40%). High sprouting capacity after severe pruning. The entry into production is late and its productivity is medium (cumulative production at the fifth year: 20 Kg) and alternate. It has a medium flowering period and the rate of self-fertility is low (around ~3%) with high ovary abortion (~40%). The fruit veraison is late and scalable with early and concentrated olive oil accumulation. This cultivar shows a medium-low fruit detachment force which facilitates its mechanical harvesting. It is highly appreciated for its high oil yield, variable from 18% to 22% of fresh fruit weight, related to the harvesting period. The chemical composition of the oil shows a medium content of oleic acid (73%) and total phenols. The rancidity induction time is on average (12,8 hours). Overall, the Carolea oil is of good quality for its sensorial and compositional characteristics. It is considered tolerant to cold but highly susceptible to olive fruit fly and olive leaf spot. It shows a low susceptibility to olive knot. References Rizzo S., Ripoli A.G., Lombardo L., Pellegrino M., Zaffina F., Godino G., Cruceli G., Perri E., Zelasco S. 2022 Valutazione dell'attitudine alla radicazione di 40 varietà di olivo italiane. V Convegno Nazionale dell'Olio e dell'Olio, 26-28 ottobre, Alghero. Mousavi S., Stanzione V., Mariotti R., Mastio V., Azariadis A., Passeri V., et al. (2022). Bioactive compound profiling of olive fruit: the contribution of genotype. *Antioxidants*, 11(4), 672. Lombardo N., Perri E., Muzzalupo A., Madeo A., Godino G., Pellegrino M., 2003. Il germoplasma olivicolo calabrese. Regione Calabria, Assessorato Agricoltura, Caccia e Pesca, Istituto Sperimentale per l'Olivicoltura, Rende (CS), Comunità Europea, Mi.P.A.F.: pp. 25. Perri E., Zelasco S., Benincasa C., Vizzarri V., Carbone F., Lo Feudo G., Salimonti A., Romano E., Pellegrino M., Godino G., Zaffina F., Rizzo M., Santilli E. 2022. Il germoplasma olivicolo del campo collezione del CREA Centro di Ricerca Olivicoltura, Frutticoltura e Agrumicoltura, sede di Rende. ISBN 9788833852027

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