# Souri





#### **DENOMINATIONS AND SYNONYMS:**

#### **ORIGIN AND DIFFUSION:**

The Souri cultivar, which is autochthonous to the eastern Mediterranean region, is the major olive variety cultivated traditionally under rain-fed conditions in Israel for hundreds of years. Even today, this cultivar occupies approximately two-thirds of the olive-planted area in the country and is based on rain-fed traditional cultivation. The Cv Souri is also distributed in Lebanon, Jordan, Syria.

Giora Ben Ari

**PURPOSE:** Oil, Table olives

### **MORPHOLOGICAL CHARACTERISATION:**

Tree Growth habit Spreading Dense  Length Medium Medium  Width Medium  Radio length/width Moderately elongated  Curvature of longitudinal axis  Weight Medium  Radio length/width in position A  Over colour at full maturity  Symmetry in position A  Nipple Moderate  Shape of apex in position A  Nipple Moderate  Shape of base in position A  Ratio length/width  Weight Medium  Acute  Truncate  Ratio length/width  Weight Medium  Redium  Moderate  Truncate		h ##		
Canopy density  Dense  Length  Width  Radio length/width  Radio length/width  Radio length/width in position A  Over colour at full maturity  Symmetry in position A  Nipple  Shape of apex in position A  Nipple  Shape of base in position A  Ratio length/width  Weight  Ratio length/width  Weight  Symmetry in position A  Ratio length/width  Weight  Symmetry in position A  Ratio length/width  Weight  Symmetry in position A  Symmetry in position A  Symmetry in position B  Stone  Stone  Number of grooves on basal end  Distribution of grooves on basal end  Shape of apex in position A  Mucron  Shape of base in position A  Mucron  Present  Shape of base in position A  Mucron  Shape of base in position A  Mucron  Present  Acute		Vigour		
Leaf blade Radio length/width Medium Radio length/width Medium Moderately elongated Curvature of longitudinal axis Weight Radio length/width in Moderately elongated Over colour at full maturity Black Symmetry in position A Nipple Shape of apex in position A Nipple Shape of base in position A Ratio length/width Weight Symmetry in position A Ratio length/width Weight Symmetry in position A Symmetry in position A Symmetry in position B Stone Stone Stone Stone Stone Distribution of grooves on basal end Shape of apex in position A Cute Number of grooves on basal end Shape of apex in position A Mucron Shape of base in position A	Tree		Spreading	
Width Radio length/width Radio length/width Radio length/width Radio length/width in position A Over colour at full maturity Symmetry in position A Nipple Shape of apex in position A Ratio length/width Weight Shape of base in position A Ratio length/width Weight Symmetry in position A Ratio length/width Weight Symmetry in position A Symmetry in position A Symmetry in position B Stone Stone Stone Stone  Number of grooves on basal end Distribution of grooves on basal end Shape of apex in position A Cute Number of grooves on basal end Shape of apex in position A Cute Nucron Shape of base in position A Cute Nucron Shape of base in position A Cute				
Radio length/width   Moderately elongated				
blade  Radio length/width elongated  Curvature of longitudinal axis  Weight Medium  Radio length/width in position A  Over colour at full maturity  Symmetry in position A  Nipple Moderate  Shape of apex in position A  Nipple Moderate  Shape of base in position A  Ratio length/width  Weight Medium  Symmetry in position A  Symmetry in position A  Symmetry in position Symmetric  Symmetry in position Between 7 and 10  Strongly grouped around suture  Shape of apex in position A  Number of grooves on basal end  Distribution of grooves on basal end  Shape of apex in position A  Mucron Present  Shape of base in position A  Acute		Width	Medium	
Weight Radio length/width in position A Over colour at full maturity  Black Symmetry in position A Nipple Shape of apex in position A Nipple Shape of base in position A Ratio length/width Weight Symmetry in position A Ratio length/width Weight Symmetry in position A Symmetry in position A Symmetry in position B Stone  Stone  Stone  Stone  Stone  Stone  Stone  Strongly asymmetric  Fruncate  Medium  Weakly asymmetric  Symmetric  Between 7 and 10  Strongly grouped around suture  Shape of apex in position A Mucron Shape of base in position A Present  Shape of base in position A  Mucron Shape of base in position A  Acute		Radio length/width	,	
Radio length/width in position A  Over colour at full maturity  Symmetry in position A  Nipple Shape of base in position A  Ratio length/width  Weight Medium  Symmetry in position A  Symmetry in position A  Symmetry in position A  Symmetry in position B  Number of grooves on basal end  Distribution of grooves on basal end  Shape of apex in position A  Mucron  Shape of base in position A  Mucron  Shape of base in position A  Mucron  Shape of base in position A  Acute			J	
Pruit  Pruit  Symmetry in position A  Nipple Shape of base in position A  Ratio length/width Weight Symmetry in position A  Symmetry in position A  Symmetry in position B  Number of grooves on basal end Distribution of grooves on basal end Shape of base in position A  Retute  Moderate  Truncate  Medium  Symmetry in position Between 7 and 10  Strongly grouped around suture  Shape of apex in position A  Mucron  Present  Shape of base in position A  Acute		Weight	Medium	
Fruit  Symmetry in position A Shape of apex in position A Nipple Shape of base in position A  Ratio length/width Weight Symmetry in position A Symmetry in position B Number of grooves on B Number of grooves on basal end Distribution of grooves on basal end Shape of apex in position A  Mucron Shape of base in position A  Mucron Shape of base in position A  Mucron Shape of base in position A  Acute		position A	_	
Shape of apex in position A  Nipple Shape of base in position A  Ratio length/width Weight Symmetry in position A  Symmetry in position B  Number of grooves on basal end Distribution of grooves on basal end Shape of apex in position A  Mucron Shape of base in position A  Mucron Shape of base in position A  Acute		maturity	Black	
position A Nipple Shape of base in position A Ratio length/width Weight Symmetry in position A Symmetry in position B Number of grooves on basal end Distribution of grooves on basal end Shape of apex in position A Mucron Shape of base in position A Acute Acute	Fruit			
Shape of base in position A  Ratio length/width Weight Symmetry in position A  Symmetry in position Symmetric  Symmetry in position Symmetric  Number of grooves on basal end Distribution of grooves on basal end Shape of apex in position A  Mucron Shape of base in position A  Acute			Acute	
Ratio length/width Weight Medium Symmetry in position A Symmetry in position B Number of grooves on basal end Distribution of grooves on basal end Shape of apex in position A Mucron Present Shape of base in position A		Nipple	Moderate	
Weight Symmetry in position A Symmetry in position B Number of grooves on basal end Distribution of grooves on basal end Shape of apex in position A Mucron Shape of base in position A  Medium Weakly asymmetric Symmetric Symmetric Strongly grouped around suture Acute Present Acute			Truncate	
Symmetry in position Symmetry in position B  Number of grooves on basal end Distribution of grooves on basal end Shape of apex in position A  Mucron Shape of base in position A  A Cute  Symmetry in position Symmetric  Symmetric  Symmetric  Symmetry  Symmetry  Strongly grouped around suture  Acute  Acute  Acute  Acute		Ratio length/width		
Symmetry in position B Number of grooves on basal end Distribution of grooves on basal end Shape of apex in position A Mucron Shape of base in position A  Mucron Shape of base in position A  Mucron Shape of base in position A		Weight	Medium	
Stone  Number of grooves on basal end  Distribution of grooves on basal end  Strongly grouped around suture  Shape of apex in position A  Mucron  Shape of base in position A  Acute			Weakly asymmetric	
Stone  basal end Distribution of grooves on basal end Shape of apex in position A  Mucron Shape of base in position A  Acute Acute Acute Acute			Symmetric	
Distribution of grooves on basal end around suture  Shape of apex in position A  Mucron  Shape of base in position A  Acute  Acute  Acute	Stone		Between 7 and 10	
position A  Mucron  Shape of base in position A  Acute  Acute	Stolle			
Shape of base in position A Acute			Acute	
position A		Mucron	Present	
Rugosity of surface Weak			Acute	
		Rugosity of surface	Weak	



## **MOLECULAR CHARACTERISATION (SSRs)**

UDO-43	DCA3	DCA9	DCA16	GAPU-101
172/214	234/243	192/192	124/154	189/205

# AGRONOMICAL CHARACTERISATION AND COMMERCIAL CONSIDERATIONS

The cv. Souri is characterized by its high adaptability to semiarid conditions and occasional droughts, shallow and stony marginal soils, and varying climatic conditions. The cv. Souri olives are also highly appreciated as green natural fermented table olives, particularly because of their firm grainy aromatic mesocarp. The tree vigor is relatively low. Souri trees are usually traditionaly cultivated. It has a low yield with high rate of alternate bearing. Souri is partially grafted and partially propagated from cuttings that root hardly. Flowering is in mid-season, as is green maturation. Full black maturation is in mid-season. The oil content in mature Souri olives reaching up to 25% percent in irrigated plots and 25-30% in rain-fed plots. The quality of Souri olive oil is accepted as being strong and aromatic. Souri trees are highly sensitive to Spilocea oleagina and resistant to Leopard moth larvae (Ben-Ari, Biton et al. 2014).Ben-Ari, G., et al. (2014). "The Diversity in Performance of Commercial Olive Clones Selected from the Autochthonous cv. Souri Population for Intensive Irrigated Cultivation." HortScience horts 49(4): 425-429.

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