

***Ficus carica* Morphology Attributes For Genetic SNP Comparisons**

To date there are no studies correlating genetic loci to observable traits of *F. carica*. The following survey targets an upcoming SNP study of eight or more *F. carica* cultivar tree specimens grown outdoors rooted in the ground for at least 5 years. Elements of the lists have been assimilated from Condit[1,2], studies at NCGR Davis (e.g. [3]) and Caliskan et al[14]. Descriptors can be found in [2].

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Send submissions in zipped file to: **fcarica.id@gmail.com**

Sources of accepted submissions will be contacted at the end of each calendar year for genetic sample. Diversity of specimens is key to this study. Incomplete submissions will be discarded.

Contact Name _____ Contact email _____

Specimen name _____ Years in ground _____

Lat., Long. within 1mi. _____ (for meteorological data)

Soil report (attach) _____ (e.g., A&L Western - Soil Analysis Report)

*indicates PNG format photo file required, with X-rite Colorchecker and rule included in photo for color and size rectification. Examples:



Tree structure	descriptive	photo
tree bark texture		*
tree bark color		
tree nodal swelling		
tree branch relative size		
tree twig relative size		

Tree growth	descriptive	photo
tree growth habit		*entire tree, no x-rite
tree growth vigor		
tree branch density		
tree foliage density		
tree mosaic virus susceptibility		

Tree bud color	descriptive	photo
lateral bud scale color		*
lateral bud tip color		
terminal bud scale color		*
terminal bud tip color		

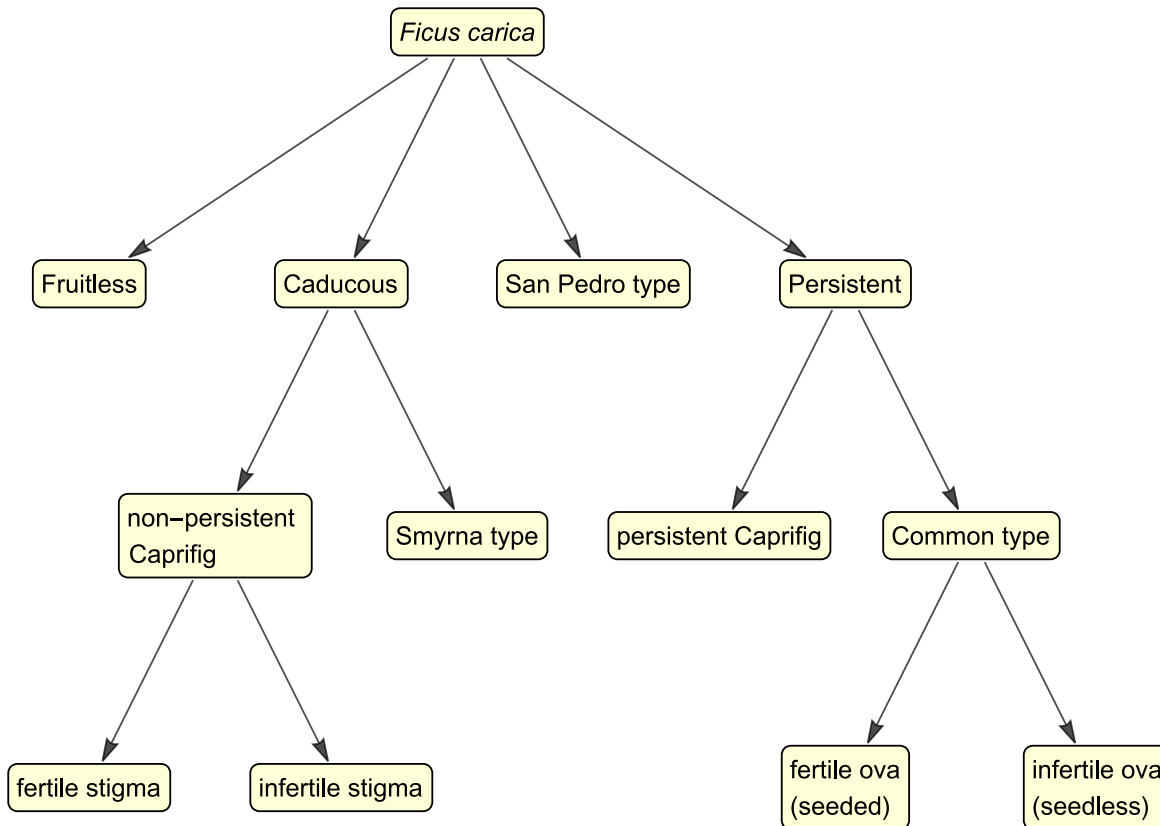
Leaf at 3 rd node of at least 6 from base of branch	descriptive	photo
leaf front	n/a	*
leaf back	n/a	*
leaf relative size		
leaf shape		
leaf color		
leaf petiole relative length		
leaf petioles, twig color		
leaf petioles, twig pubescent		
leaf base		
leaf upper side		
number of leaf nodes		
leaf middle lobe shape		
leaf lateral sinuses		
leaf petiolar sinuses		
leaf petiolar sinus relative width		
leaf upper margins		
leaf lower margins		
leaf rust susceptibility		

Syconia: Caprifigs Only		
Spring crop sprouted on prior year's wood (profichi)	descriptive	photo
relative gall bloom volume		*
relative anther bloom volume		
relative pollen germination		
relative pollen viability		
abundance of blanks (empty syconia) per tree		
mm/dd/yyyy wasps begin entry		
mm/dd/yyyy wasps ~complete exit		

Syconia: All Sexual Types[†]

Observable	Spring crop sprouted on prior year's wood		Summer crop sprouted on new wood		Over-winter crop sprouted too late to ripen in current year	
	descriptive	photo	descriptive	photo	descriptive	photo
exists?						
parthenocarpic (i.e. persistent)?						
productivity						
mm/dd/yyyy ripens						
exterior	n/a	*	n/a	*	n/a	*
interior	n/a	*	n/a	*	n/a	*
relative size						
relative weight						
shape						
relative hirsute						
skin thickness						
immature skin color						
mature skin color						
skin gloss						
skin tinged						
tinge color						
ribs						
rib relative width						
rib color						
white flecks						
fleck relative size						
fleck distribution						
skin checking						
eye relative size						
eye 3D shape						
eye scale color						
rind color						
rind thickness						
pulp main color						
pulp secondary color						
pulp texture						
pulp moisture						
cavity relative size						
stem/stalk relative length		*		*		*
stem/stalk shape						
neck relative length						
neck relative size						
neck curved						
neck flattened						
apex 2D shape						
apex 3D shape						
seed abundance						
mature splitting		* if any		* if any		* if any
fungi susceptibility						

‡Various observed states of sexuality for *F. carica*.



References

1. Condit I. Fig varieties: a monograph. Hilgardia. 1955;23(11):323-538.
2. Condit I. Fig characteristics useful in the identification of varieties. Hilgardia. 1941;14(1):1-69.
3. DFIC 102 GRIN-Global: U.S. National Plant Germplasm System; [updated July 2, 2020. Details for: DFIC 102, *Ficus carica* L., UCR 284-11]. Available from: <https://npgsweb.ars-grin.gov/gringlobal/accessiondetail?id=1002737>.
4. Caliskan O, Bayazit S, Ilgin M, Karatas N. Morphological diversity of caprifig (*Ficus carica* var. *caprificus*) accessions in the eastern Mediterranean region of Turkey: Potential utility for caprification. *Scientia Horticulturae*. 2017;222:46-56.