THE GENUS

Fraxinus L. (Oleaceae)

VEGETATIVE KEY TO SPECIES CULTIVATED IN WESTERN EUROPE

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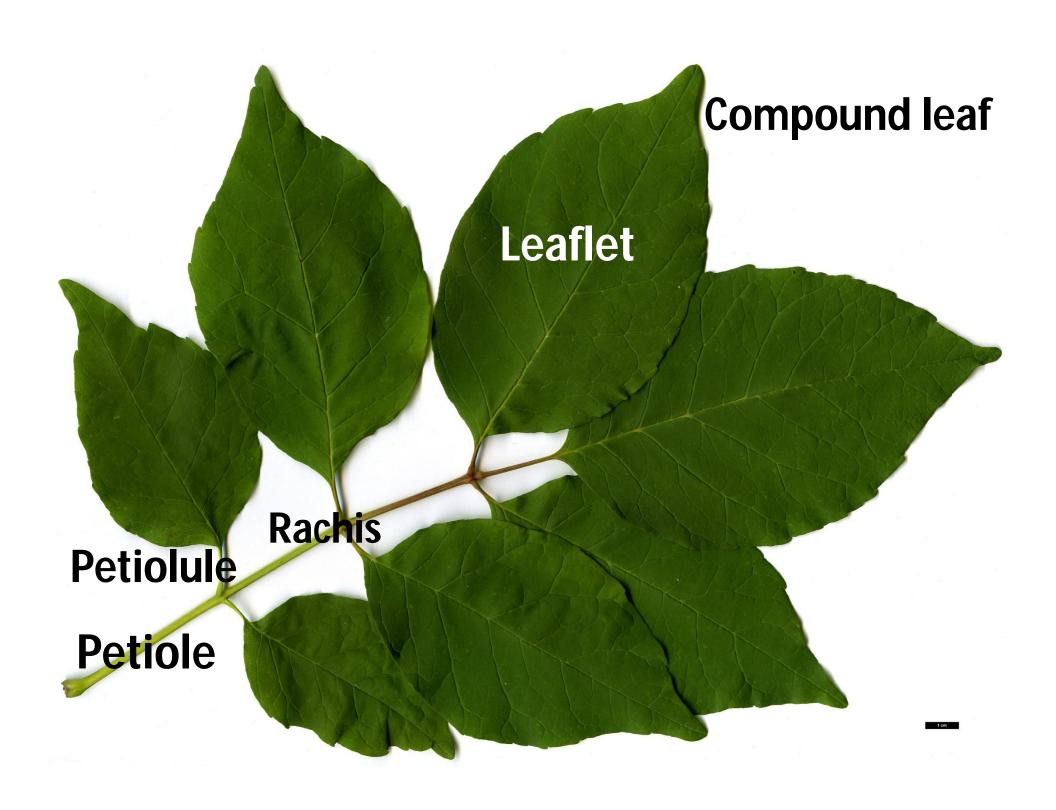
www.arboretumwespelaar.be

Identification Keys *Fraxinus* (a.o.)

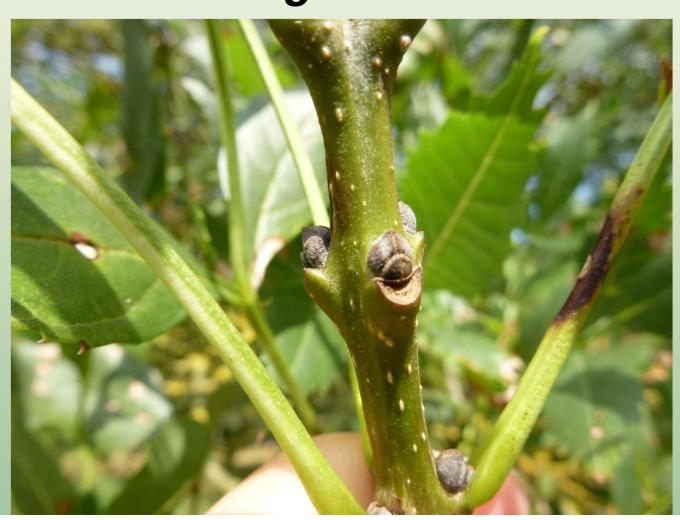
- + comprehensive
- + vegetative characters
- experience needed

Look at the ENTIRE plant (Beware of hybridisation)

www.oleaceae.info



01a Shoot at least in part with lateral buds in whorls of three. F. angustifolia



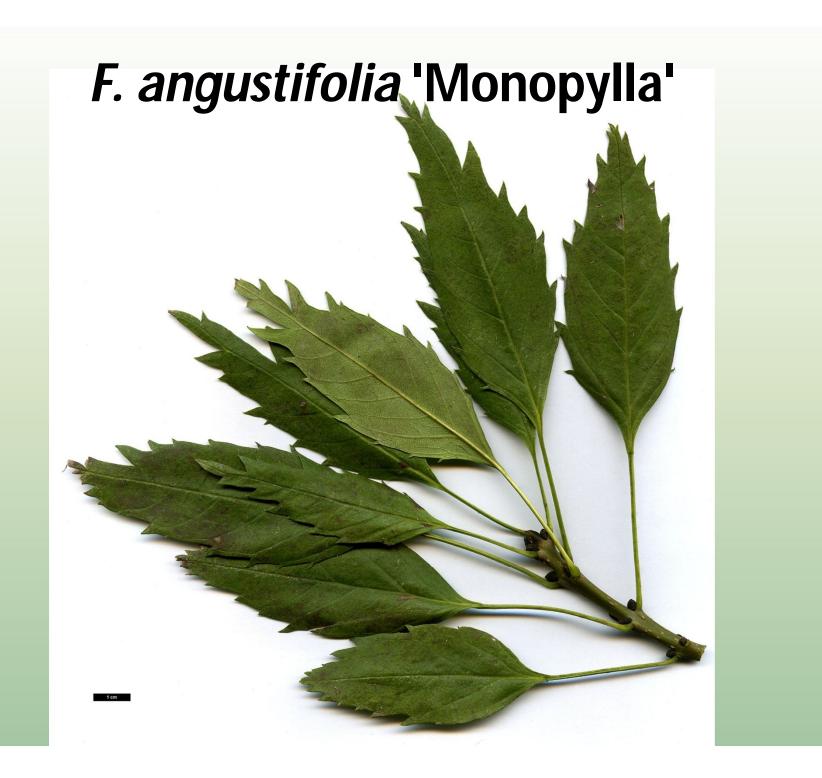
Shoot, petiole and rachis densely softly pubescent.

F. angustifolia subsp. oxycarpa



Leaflet predominately 1, margin acutely serrate-dentate with 5-8 large teeth/side (teeth often >5mm). Sometimes lamina 1-2 lobed at base or with 2 small lateral leaflets at base.

F. angustifolia 'Monopylla'



Leaflets predominately 3-5(1-7) and at least part of the shoot ends with short successive internodes ≤0,5-10 mm.

F. angustifolia subsp. syriaca

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O2 Current year shoot 4-ribbed. Second year shoot often with internodes 4-ribbed. (5 species)

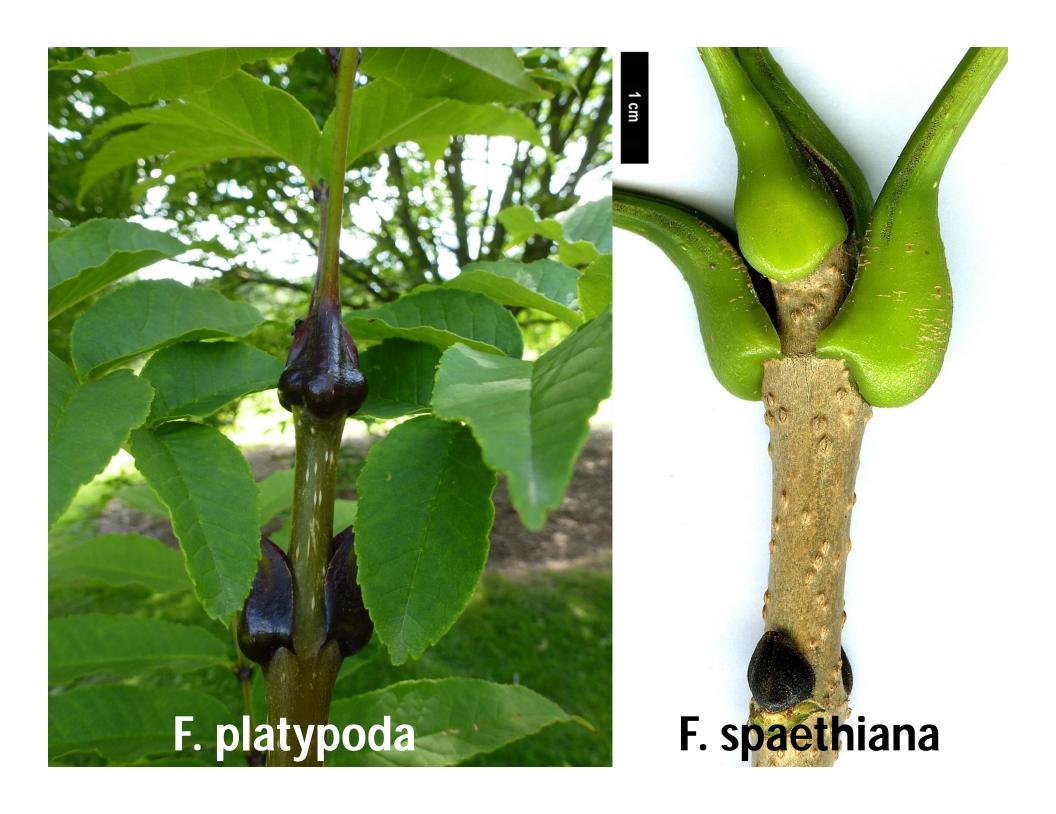


e.g.

F. quadrangulata



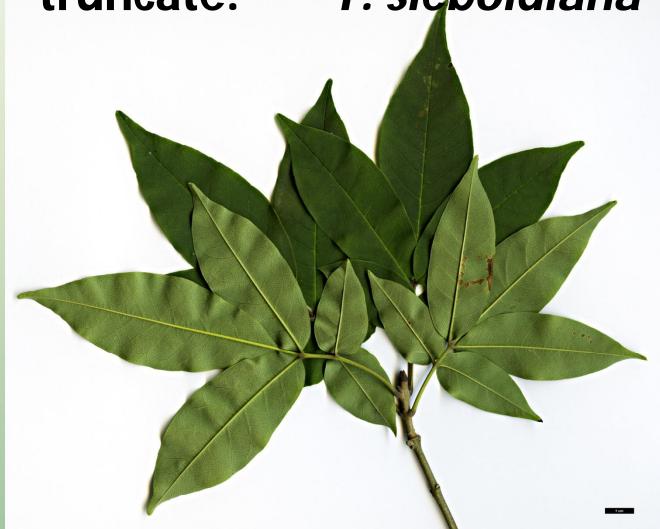
08 a Petiole base remarkably swollen (at least 3-4 × the petiole width) AND partly clasping/covering its bud, often clustering at and hiding shoot end (2 species)



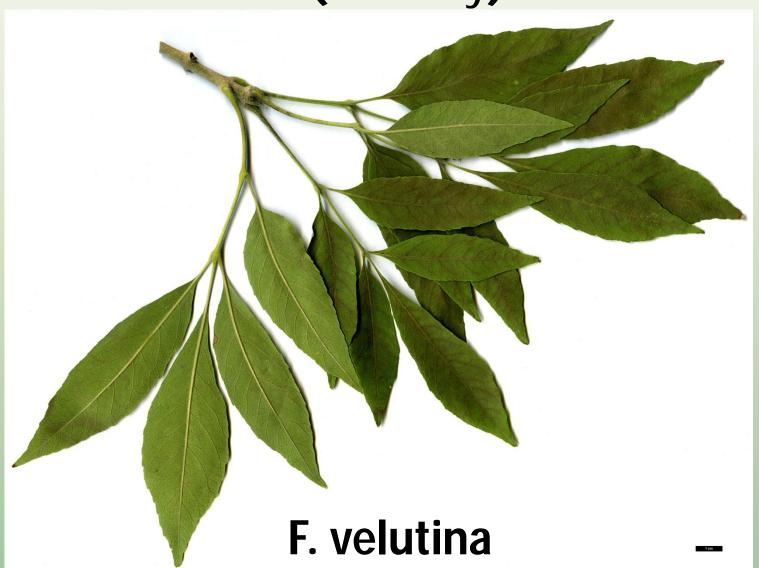
10 a All leaves small, average size (including petiole) <5 cm. Leaflets 3-7,



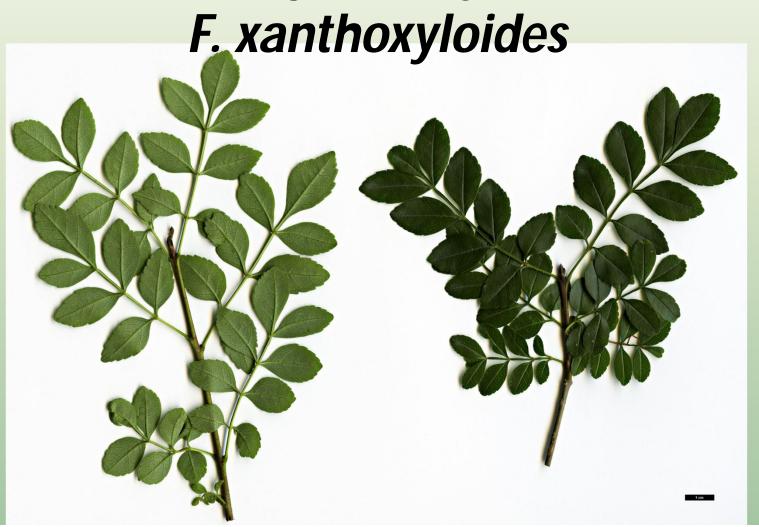
14 a Terminal bud grey. Basal leaflet base rounded to obliquely truncate. *F. sięboldiana*



14 b Terminal bud brown. Basal leaflet base (broadly) cuneate.



22 a Leaflet apex obtuse or varying from acute to obtuse. Leaflets 7-11, margin finely dentate.







27 a Terminal bud and first lateral buds distantly placed. *F. nigra*



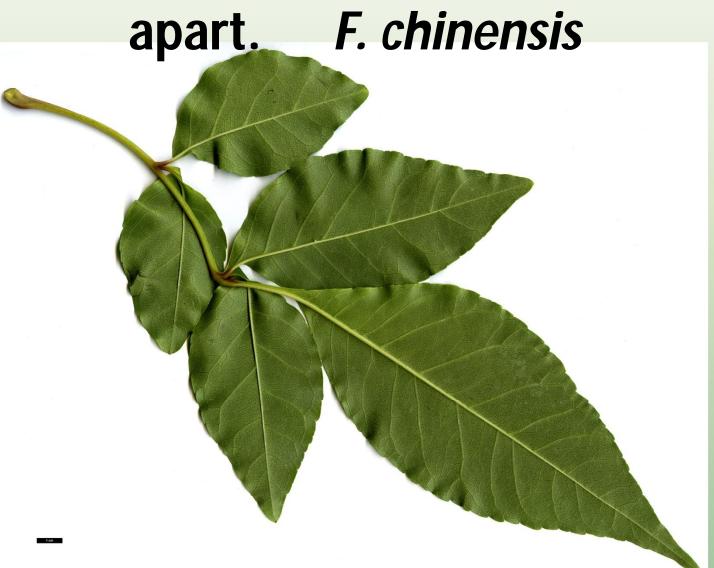
29 b Base of petiolule LS clearly dense to cushion-like rusty pubescent. *F. mandshurica*



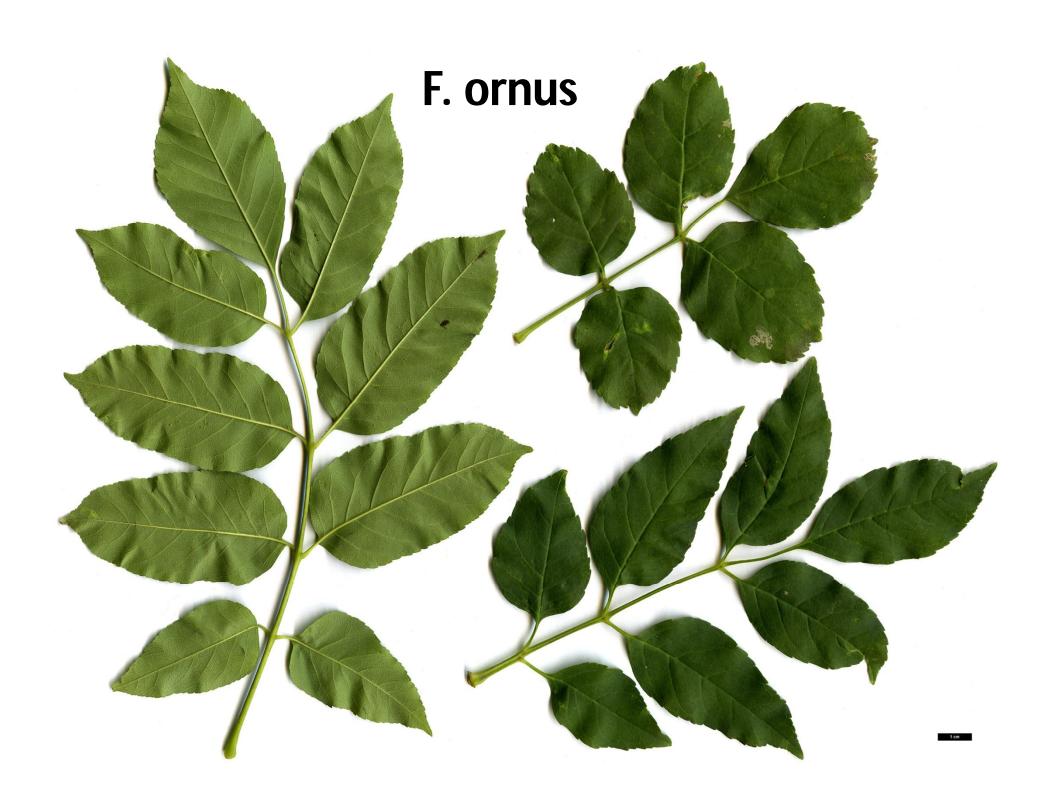
39 a Terminal leaflet with secondary veins ≤6/side.



41 a Leaflets with secondary veins irregularly placed <u>AND/OR</u> 5-15 mm apart *F chinensis*



42 a Leaflets ovate to oblong elliptic <u>AND</u> apex obtuse to (abruptly) acute, <u>BUT</u> sometimes extremely variable on the same tree from obtuse to acuminate. *F. ornus*



43 a Leaf scar apex predominantly truncate, not enclosing lateral bud. e.g. F. pennsylvanica

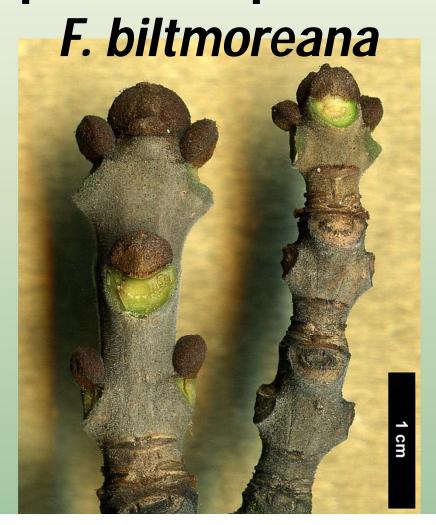


43 b Leaf scar apex predominantly clearly notched to concave and partly enclosing lateral bud.



e.g. F. americana

44 a Terminal bud apex obtuse AND length ≤ width (shoot, petiole and petiolules pubescent).



44 b Terminal bud apex acute <u>AND</u> length > width e.g. F. pennsylvanica



