



## *Stewartia* L. (Theaceae)

VEGETATIVE KEY TO SPECIES  
CULTIVATED IN WESTERN EUROPE

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## Vegetative key.

This key is based on characteristics visible during the longest period of the year.

### List of taxa and synonyms: see page 3.

To improve accuracy:

- **Examine only mature leaves** unless otherwise mentioned.  
Depending the taxon, all other leaves can differ enormously in size and shape!!!  
Juvenile specimens can key out wrong, also exclude strong shoots.
- Beware of hybridisation, especially with plants raised from seed gathered in collections.

Features based on:

- JDL herbarium specimens
- living specimens, in various arboreta, botanic gardens and collections, especially these from wild origin
- literature:

- Bean, W.J. - (1981) - *Stewartia* (as '*Stuartia*) in Trees and Shrubs hardy in the British Isles I, p. 507-513.  
de Spoelberch, P. - (2002) - Les stewartias à feuilles caduques rustiques en Europe de l'Ouest. *Belgische Dendrologie Belge* 2001, p. 8-22.  
Hillier, J. & Coombes, A. - (2002) - *Stewartia* in The Hillier Manual of Trees & Shrubs, p. 355-356.  
Hsu E., Boland T. & Camelbeke K. - (2008) - *Stewartia* in cultivation. *The Plantsman* 7, p. 78-87.  
Krüssmann, G. - (1978) - *Stewartia* in Handbuch der Laubgehölze vol. 3, p. 384-386.  
Kurata. - (1964) - *Stewartia* in Illustrated Important Forest Trees Of Japan, vol. 1, p. 180-181.  
Kurata. - (1968) - *Stewartia* in Illustrated Important Forest Trees Of Japan, vol. 2, p. 128-129.  
Kurata. - (1971) - *Stewartia* in Illustrated Important Forest Trees Of Japan, vol. 3, p. 100-101.  
Ohwi. - (1965) - *Stewartia* Flora of Japan, p. 628-629.  
Bartholomew, B., & Min, T. - (2007) - *Stewartia* in Flora of China, vol. 12, p. 424-429.  
Rehder, A. - (1940) - *Stewartia* in Manual of cultivated trees and shrubs hardy in North America, p. 634-635.  
Spongberg, S.A. - (1974) - A review of deciduous-leaved species of *Stewartia* (Theaceae). *J. Arnold Arbor.* 55, p. 182-214.

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<http://www.plantentuin.ugent.be>

- 01 a Plant evergreen, lamina +/- leathery and thick. .... ***S. pteropetiolata***
- b Plant deciduous, lamina not leathery, thin. .... 02
- 02 a Bark often smooth and/or attractive flaking/peeling, later with alternating pale (crème to beige) and dark (cinnamon- to reddish brown) patches not unlike a London Plane bark. .... 03
- b Bark striate, fissured or ridged later, pale grey to sombre greyish brown. .... 05
- 03 a Lamina LS shiny, tertiary venation obscure. .... ***S. monadelpha***
- S. pseudocamellia* hybrid, lamina often larger, LS +/- shiny and venation obscure. .... ***S. × henryae***
- b Lamina LS dull and reticulate. .... 04
- 04 a Lamina (broadly) elliptic. .... ***S. pseudocamellia***
- S. monadelpha* hybrid, lamina often smaller, LS +/- shiny and venation obscure. .... ***S. × henryae***
- b Lamina elliptic to lanceolate. .... ***S. sinensis***
- Trunk fissured at base, with flaking and smooth parts higher up. .... ***S. rostrata × S. sinensis***
- 05 a Lamina margin regularly and finely dentate (sometimes basal 1/3 +/- entire) LS and margin glabrous or finely adpressed pubescent. .... 06
- b Lamina appearing entire but distantly and minutely dentate, LS and margin clearly loosely pubescent. .... 07
- 06 a Lamina LS tertiary veins prominent AND noticeable by touch. .... ***S. serrata***
- b Lamina LS tertiary veins visible but not noticeable by touch. .... ***S. rostrata***
- Trunk fissured at base, with flaking and smooth parts higher up. .... ***S. rostrata × S. sinensis***
- 07 a Bark striate to fissured. Petiole ≤5 mm. .... ***S. malacodendron***
- b Bark deeply ridged. Petiole 5-10(-15) mm. .... ***S. ovata***

## List of taxa treated in this identification key.

*S. ×henryae* (*S. monadelpha* × *S. pseudocamellia*)  
*S. malacodendron*  
*S. monadelpha*  
*S. ovata*  
*S. pseudocamellia*

*S. pteropetiolata*  
*S. rostrata*  
*S. rostrata* × *S. sinensis*  
*S. serrata*  
*S. sinensis*

## List of taxa referred to synonymy in this identification key.

*S. gemmata* = *S. sinensis*  
*S. koreana* = *S. pseudocamellia*

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	cm
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