

Plantae Chinenses Forrestianae.

Plants discovered and collected by George Forrest during his first exploration of Yunnan and Tibet in the years 1904, 1905, and 1906.

Enumeration and Description of Species of Rosa.

BY

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With Plate LXII.

Rosa Banksiae, R. Br., in Ait. Hort. Kew., ed. 2, iii, p. 258;
Franchet, in Plant. Delav. (1889), p. 219.

f. subinermis, fl. simpl.

"South end of Lang Kong valley. Alt. 8000 ft." G. Forrest. No. 214.

A freely fruiting specimen, evidently wild.

"Shrub of 5-10 ft. Flowers white, fragrant. Open situations in thickets along the base of the eastern flank of the Tali Range. Lat. 25° 40' N. Alt. 7-9000 ft. June-July 1906." G. Forrest. No. 4443 ex pte.

f. subinermis, fl. pleno v. semipleno albo.

"Semi-scandent shrub of 10-20 ft. Flowers pure white, fragrant. Shady and open situations on and amongst trees and scrub in the Lichiang-fu valley. Lat. 27° 10' N. Alt. 8200-10,000 ft. May 1906." G. Forrest. No. 2051.

f. subinermis, fl. pleno luteo.

"Spreading shrub of 6-8 ft. Flowers rich yellow, non-fragrant. Moist, shady situations in the Lichiang plain around the city. Lat. 26° 50' N. Alt. 8200 ft. May 1906." G. Forrest. No. 2048.

[Notes, R.B.G., Edin., No. XXIII. December 1911.]

f. *aculeata*, fl. pleno albo.

"Amongst scrub in open situations in the Lichiang valley. Lat. 27° N. Alt. 8-9000 ft. September 1904." G. Forrest. No. 155.

"Open situations in the Mekong valley above Teh Chih. Lat. $27^{\circ} 30'$ N. Alt. 8-9000 ft. September 1904." G. Forrest. No. 229.

f. *R. Banksiae* verosimile hybrida. *R. irridens*, form. nov.,
an *R. Banksiae* $\times$ *Soulieana*?

Habitus *R. Banksiae*, ita ut specimina promiscue cum ea asservata sint.

Foliolorum rete venosum, sicut in *R. Banksiae*, valde conspicuum, nervi secundarii vero hoc rete percurrentes saepissime vix distinguendi sunt. Rhachis foliorum hinc inde aculeata; stipulae (saltem in foliis inferioribus) magna ex parte petiolo adnatae, pars libera lanceolata. Flores subumbellati. Bractee lineari-lanceolatae, persistentes; pedunculi dense glandulosi. Styli in columnam teretem laxè villosam apice clavatam coaliti.

Folia et inflorescentia *R. Banksiae*; stipulae vero et styli columnam plantam ad *Synstylorum* sectionem remouent.

A very puzzling plant. An influence of *R. Soulieana* (or perhaps *R. moschata*?) would account for the stipules, the prickles, and the styles, but the densely glandular peduncles can only be considered as a new character of the hybrid. In *R. Soulieana* and *R. moschata* the glands are scattered.

Gathered with the simple flowering *R. Banksiae* on the eastern flank of the Tali Range in $25^{\circ} 40'$ N. G. Forrest. No. 4443 ex pte.

Rosa centifolia, Linn.

Garden plant with a double flower. A small damaged branch. Tali-fu. G. Forrest. No. 4449 ex pte.

Rosa damascena, Mill.f. *floribus simplicibus*.

"Semi-scandent shrub of 6-10 ft. Flowers rose-red, fragrant. Forming large clusters in shady, moist situations in the Lichiang valley around the city. Lat. $26^{\circ} 50'$ N. Alt. 8200 ft. May 1906." G. Forrest. No. 2053.

f. floribus semiplenis.

Doubtless escaped from gardens.

"Shrub of 6-10 ft. Clayey ground sides of streams and shady situations, Tali-fu. Alt. 6500 ft. December 1904." G. Forrest. No. 284.

"Shrub of 6-8 ft. Flowers lilac-rose. Shady situations amongst scrub around the city of Tali. Lat. 25° 40' N. Alt. 6700 ft. June-July 1906." G. Forrest. No. 4449 max. ex pte.

"Erect shrub of 6-8 ft. Flowers dark crimson. Shady situations around Lichiang. Lat. 26° 50' N. Alt. 8200 ft. May 1906." G. Forrest. No. 2052.

Somewhat different appears

f. brachyacantha (simpliciflora).

Prickles very short and small ; flowers white, clustered.

"Shrub of 4-8 ft. Open situations around the city of Tali." G. Forrest. No. 4444.

Looks a little more like a wild plant, but, as it grows in the neighbourhood of the town, it will probably be of garden origin like all other forms of *R. damascena*.

Rosa Forrestii, Focke. Plate lxii.

Sp. nov. vel. subsp. *R. microphyllae*, Roxb. *R. microphylla*, Crépín, Les Rosa de Yunnan, p. 10 ; Franchet, in Plant. Delav. (1889), p. 220.

Aculei ramorum gemini, validi, recti vel sursum inclinati. Folia in ramis fertilibus e foliolis 9 vel 11 composita ; rhachis parce et minute aculeata ; stipularum angustarum pars libera brevis, lanceolata ; foliola late elliptica vel obovata, 2-2.5 cm. longa, 1.5-2 cm. lata, glabriuscula, dentato-serrulata, dentibus brevibus. Flores (in ramis suppetentibus) solitarii, conspicui, diam. fere 7 cm. ; pedunculi inermes, eglandulosi ; cupula cum sepalorum parte media densissime setoso-aculeata ; sepala margine dilatato tomentoso-cincta, externa appendicibus foliaceis viridibus magnis multifidis lateralibus instructa ; petala magna, pallide rosea vel alba ; stamina numerosissima ; stigmata in capitulum conferta.

In *R. microphylla* carpella fundo solum urceoli inserta et fructus maturi cum pedunculis decidui sunt. *R. Forrestii* verosimile his signis, quae in omnibus aliis Rosis desiderantur, cum *R. microphylla* convenit. Haec species differt foliolorum numero

maiore (13 vel 15), foliis angustioribus (2 : 1 vel 2.5 : 1.2 cm.), pedunculis aculeatis, floribus vulgo minoribus, sepalorum appendicibus latioribus, parcius incis.

Habitu *R. Forrestii* species distincta videtur, sed forte formae intermediae eam cum *R. microphylla* conjungendam esse suadebunt.

"Shrub of 2-4 ft. Flowers pale rose or white. Dry, stony situations along the base of the eastern flank of the Tali Range. Lat. 25° 40' N. Alt. 7-8000 ft. June 1906." G. Forrest. No. 4450.

Rosa gigantea, Collett, in Journ. Linn. Soc. xxviii, p. 55, pl. ix.

f. *erubescens*, Focke.

Differt a planta typica floribus paullo minoribus (diam. fere 10 cm.) roseis (nec albis). Folia, supremo ternato excepto, quinata vel singula septenata; flores solitarii, odorati; sepala longa, integra, in flore reflexa.

"Semi-scandent shrub of 10-20 ft. Flowers rose pink, fragrant. Shady situations in the Lang Kong, Hoching, and Lichiang valleys; specimens from the Lichiang valley. Lat. 26° 50' N. Alt. 8200 ft. May 1906." G. Forrest. No. 2049.

"Shrub of 2-6 ft. Flowers rose, fragrant. Open, moist situations amongst scrub in the Tali valley. Lat. 25° 40' N. Alt. 6700-8000 ft. May-June 1906." G. Forrest. No. 4446.

"Shrub of 4-8 ft. Flowers rose-pink, fragrant. Moist, open situations amongst dwarf scrub in the Tali valley. Lat. 25° 40' N. Alt. 6700-8000 ft. May 1906." G. Forrest. No. 4452

Crépin does not mention the *R. gigantea* or an allied plant from Yunnan.

Rosa macrophylla, Lindl., Ros. Monogr., p. 35, t. 6; Franchet, in Plant. Delav. (1889), p. 219.

f. *robusta*.

"Shrub of 6-10 ft. Flowers various shades of rose, according to situation. Fruit large, $\frac{1}{2} \times \frac{3}{4}$ in., bright scarlet, glabrous, calyx persistent. Shady thickets and pine forests on the eastern flank of the Lichiang Range. Lat. 27° 15' N. Alt. 10-11,000 ft. June 1906." G. Forrest. No. 2504.

f. parce glandulosa.

"Branching shrub of 5-8 ft. Flowers bright rose, non-fragrant. Fruit bright scarlet, glabrous, long-shaped, calyx persistent. Very shady situations in a deep side valley on the eastern flank of the Lichiang Range. Lat. $27^{\circ} 20'$ N. Alt. 10-11,000 ft. June 1906." G. Forrest. No. 2402.

f. gracilis.

"Shrub of 4-6 ft. Flowers bright rose, non-fragrant. Open situations in thickets at the base of the eastern flank of the Lichiang Range. Lat. $27^{\circ} 10'$ N. Alt. 8000 ft. June 1906." G. Forrest. No. 2336.

"Shrub of 3-5 ft. Flowers crimson. Open, stony situations in the Tali valley, and on the base of the eastern flank of the Tali Range. Lat. $25^{\circ} 40'$ N. Alt. 6700-8000 ft. June 1906." G. Forrest. No. 4442.

"Shrub of 4-6 ft. Flowers pale rose. Open, stony ground in the Tali valley. Lat. $25^{\circ} 40'$ N. Alt. 6700 ft. May-June 1906." G. Forrest. No. 4445.

"Shrub of 3-6 ft. Flowers pale rose, fragrant. Shady situations by streams in the Tali valley. Lat. $25^{\circ} 40'$ N. Alt. 6700 ft. June-July 1906." G. Forrest. No. 4447.

"Shrub of 6-8 ft. Flowers pink. Amongst scrub on the eastern flank of the Tali Range. Lat. $25^{\circ} 40'$ N. Alt. 7-8000 ft. June 1906." G. Forrest. No. 4453.

Rosa moschata, Mill., var. *yunnanensis*, Crépín ex Franchet, in Plant. Delav. (1889), p. 218.

"Semi-scandent spinous shrub of 5-10 ft. Branches arched. Flowers white, fragrant. In shady situations on the banks of a stream on the plain at the north end of the Mechi-chiang valley. Lat. $27^{\circ} 10'$ N. Alt. 10,000 ft. June 1906." G. Forrest. No. 2370.

Rosa sericea, Lindl., Ros. Monogr., p. 105, tab. 12; Franchet, in Plant. Delav. (1889), p. 220.

f. inermis eglandulosa.

"Shrub of 2-6 ft. Flowers white, strongly fragrant. Stony, open situations amongst scrub on the eastern flank of the Tali Range. Lat. $25^{\circ} 40'$ N. Alt. 9-10,000 ft. May-June 1906." G. Forrest. No. 4451.

f. aculeata eglandulosa.

"Spreading shrub of 3-9 ft. Flowers yellowish-white, fragrant. Mountain meadows and on the edges of pine forests on the eastern flank of the Lichiang Range. Lat. $27^{\circ} 12' N$. Alt. 9500-11,000 ft. June 1906." G. Forrest. No. 2256.

"Shrub of 4-8 ft. Flowers white. Amongst scrub in side valleys on the eastern flank of the Tali valley. Lat. $25^{\circ} 40' N$. Alt. 8-9000 ft. June-July 1906." G. Forrest. No. 4448.

"Dwarf shrub of 2-4 ft. Flowers creamy white, fragrant. Amongst scrub in open, dry situations in the Sung Kwei, Hoching, and Lichiang valleys. Specimens from north end of Hoching valley. Lat. $26^{\circ} 40' N$. Alt. 8-9000 ft. April 1906." G. Forrest. No. 2022.

Some of the prickles very broad.

f. pteracantha, Franchet, in Plant. Delav. (1889), p. 220.

"Shrub of 6-10 ft. Flowers white. On the ascent of the Niu Chang pass from the Yangtze valley to the Chung Tien plateau. Lat. $27^{\circ} 50' N$. Alt. 11,000 ft. September 1904." G. Forrest. No. 219.

Sterile branch.

Rosa Soulieana, Crép.

"Shrub of 4-8 ft. Flowers white. Moist situations by the sides of streams in the Tali valley. Lat. $25^{\circ} 40' N$. Alt. 6700 ft. July-August 1906." G. Forrest. No. 4454.



Rosa Forrestii, Focke.

