

17. **DEUTZIA** Thunberg, Nov. Gen. Pl. 19. 1781.

溲疏属 sou shu shu

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Neodeutzia Small.

Shrubs stellate hairy. Branchlets opposite; buds enclosed by imbricate scales. Leaves opposite, exstipulate, subdeciduous. Inflorescences racemose, paniculate, corymbose, or cymose, rarely a solitary flower. Calyx tube adnate to ovary, campanulate, 5-lobed. Petals 5, induplicate, valvate, or imbricate. Stamens 10(–15), 2-seriate; filaments subulate, flat, or dilated and apex 2-dentate; anthers shortly stalked, subglobose. Ovary inferior, rarely subinferior, 3–5-loculed; ovules numerous, in many series on fleshy placenta. Styles 3(–5), free; stigma terminal or decurrent. Fruit a capsule, subglobose, 3(–5)-valved, dehiscing loculicidally or between styles. Seeds numerous, oblong, compressed; testa membranous, reticulate, apex winged; embryo borne in middle of fleshy endosperm.

About 60 species: warm temperate regions of the N hemisphere; 50 species (41 endemic, two introduced) in China.

Several species are cultivated as ornamentals.

- 1a. Petals imbricate, usually broadly ovate, obovate, or orbicular.
- 2a. Filaments subulate, toothless or only inner ones dentate; petals white, rarely pink.
- 3a. Plants glabrous, except bud scales and leaf blades sometimes stellate hairy adaxially 1. *D. glabrata*
- 3b. Plants ± stellate hairy.
- 4a. Leaf blade adaxially 5(or 6)-rayed stellate hairy, abaxially 6–12-rayed stellate hairy; filaments subulate, toothless or only inner 2 dentate; petals white 2. *D. parviflora*
- 4b. Leaf blade adaxially 4- or 5(or 6)-rayed stellate hairy, abaxially 5–8-rayed stellate hairy, central rays usually long; filaments subulate, toothless; petals pink 3. *D. mollis*
- 2b. Outer filaments dentate, inner ones variable, usually apex acuminate or 2-lobed; petals pink, rarely white.
- 5a. Teeth of outer filaments subequaling or longer than anther stalks; inflorescences 5–15(–21)-flowered; stellate hairs of inflorescences and leaf blade veins without papilliform base.
- 6a. Leaf blade abaxially glaucous, glabrous or 3–5-rayed stellate hairy; petals white or pinkish at apex; branchlets and inflorescences glabrous 4. *D. hypoglaucous*
- 6b. Leaf blade abaxially greenish, 5- or 6(or 7)-rayed stellate hairy; petals pink; branchlets and inflorescences stellate hairy.
- 7a. Pedicel slender, 1–2 cm; inflorescences 5–10-flowered; leaf blade oblong or ovate-oblong, rarely lanceolate, apex acute; flowering branchlets usually 4-leaved 5. *D. rubens*
- 7b. Pedicel robust, 8–12 mm; inflorescences 11–21-flowered; leaf blade ovate-lanceolate or elliptic-lanceolate, apex acuminate; flowering branchlets usually 6-leaved 6. *D. muliensis*
- 5b. Teeth of outer filaments shorter than anther stalks; inflorescences 15–80-flowered; stellate hairs of inflorescences and leaf blade veins with papilliform base.
- 8a. Outer anther stalks ca. 2 mm, ca. 1/2 as long as filaments; inner anther stalks borne between filament teeth 9. *D. bomiensis*
- 8b. Outer anther stalks 1–1.5 mm, less than 1/2 as long as filaments; inner anther stalks borne at middle of filaments abaxially.
- 9a. Leaf blade abaxially sparsely 6–8-rayed stellate hairy, hairs of 2 types (minute and larger ones) 7. *D. compacta*
- 9b. Leaf blade abaxially densely 8–10(–15)-rayed stellate hairy, hairs uniform 8. *D. hookeriana*
- 1b. Petals induplicate or valvate, oblong or ovate-oblong, rarely obovate.
- 10a. Filaments all 2-dentate at apex, teeth not reaching anthers or, if longer, horizontal or recurved, falcate; anthers borne between filament teeth.
- 11a. Flowering branchlets to 4 cm; inflorescences 1–3(–5)-flowered; filament teeth horizontal or recurved, falcate, exceeding anthers.
- 12a. Leaf blade abaxially densely 7–11-rayed stellate hairy, indumentum continuous 20. *D. grandiflora*
- 12b. Leaf blade abaxially sparsely 5- or 6(or 7)-rayed stellate hairy, indumentum discontinuous 21. *D. baroniana*
- 11b. Flowering branchlets more than 4 cm; inflorescences more than 5-flowered; filament teeth not reaching anthers.
- 13a. Inflorescences cymose; calyx lobes subequaling or longer than tube, rarely shorter.

- 14a. Leaf blade abaxially greenish gray, elliptic-lanceolate or oblong-lanceolate, 5–10 × 2–3 cm; filament
teeth acute at apex 18. *D. discolor*
- 14b. Leaf blade abaxially gray, ovate or elliptic-ovate, 3–5 × 1.5–2 cm; filaments teeth obtuse at
apex 19. *D. silvestrii*
- 13b. Inflorescences paniculate, racemose, or cymose paniculate; calyx lobes ca. 1/2 as long as calyx
tube.
- 15a. Leaf blade adaxially 3- or 4-rayed stellate hairy, abaxially 4- or 5(or 6)-rayed stellate hairy.
- 16a. Inflorescences slender, racemose or narrowly paniculate, glabrous; calyx sparsely hairy;
filaments
2-dentate at apex or outer ones toothless 10. *D. gracilis*
- 16b. Inflorescences robust, cymose paniculate, hairy; calyx densely hairy; filaments all 2-dentate
at apex.
- 17a. Petiole less than 2 mm on flowering branchlets or almost absent; hairs on leaf blade veins
with long central rays and papilliform base 11. *D. faberi*
- 17b. Petiole 2–4 mm on flowering branchlets; hairs on leaf blade veins with neither long central
rays
nor papilliform base 12. *D. taiwanensis*
- 15b. Leaf blade adaxially 4- or 5(–7)-rayed stellate hairy, abaxially 10–22-rayed stellate hairy,
rarely
glabrous on both surfaces or only abaxially sparsely stellate hairy.
- 18a. Flowering branchlets glabrous; leaf blade abaxially glabrous, or if hairy then rather sparsely
so 13. *D. glauca*
- 18b. Flowering branchlets stellate hairy; leaf blade hairy on both surfaces, abaxially more densely
so.
- 19a. Leaf blade abaxially grayish green, densely stellate hairy, indumentum continuous.
- 20a. Petiole 5–15 mm on flowering branchlets; leaf blade adaxially 6–12-rayed stellate hairy;
petals
10–12 mm; capsule 6–7 mm in diam. 14. *D. pulchra*
- 20b. Petiole 1–2 mm on flowering branchlets; leaf blade adaxially 4–7(or 8)-rayed stellate
hairy;
petals 5–8 mm; capsule 4–5 mm in diam. 15. *D. ningpoensis*
- 19b. Leaf blade abaxially green, sparsely stellate hairy, indumentum discontinuous.
- 21a. Calyx yellowish brown stellate hairy; calyx tube ca. 2.5 × 2 mm, lobes ovate 16. *D. crenata*
- 21b. Calyx grayish green stellate hairy; calyx tube ca. 3 × 4 mm, lobes deltoid 17. *D. schneideriana*
- 10b. Only outer filaments 2-dentate at apex, teeth ± level with or exceeding anthers, rarely shorter; inner
filaments not 2-dentate at apex; anthers borne at middle or near apex of filaments abaxially.
- 22a. Capsule globose or subglobose, with persistent, incurved calyx lobes.
- 23a. Leaf blade adaxially reticulate rugose when dry 44. *D. crassifolia*
- 23b. Leaf blade adaxially not rugose when dry.
- 24a. Leaf blade abaxially grayish, densely 8–16-rayed stellate hairy, indumentum continuous 45. *D. multiradiata*
- 24b. Leaf blade abaxially greenish or grayish green, sparsely 5–9(or 10)-rayed stellate hairy,
indumentum discontinuous.
- 25a. Leaf blade glossy, leathery, margin thorny serrate 46. *D. coriacea*
- 25b. Leaf blade not glossy, papery or membranous, margin serrulate.
- 26a. Stellate hairs of branchlets and leaf blades with long central rays; calyx lobes ovate or
ovate-
lanceolate; petiole 1–3 mm 47. *D. pilosa*
- 26b. Stellate hairs of branchlets and leaf blades without long central rays, except those on leaf
blade
veins; calyx lobes deltoid or ovate deltoid; petiole 3–5 mm.
- 27a. Leaf blade narrowly lanceolate, 2.5–4.5 × 0.4–0.6(–1.2) cm, base rounded 48. *D. esquirolii*
- 27b. Leaf blade ovate, ovate-oblong, or -lanceolate, 3–7(–12) × 1.5–3 cm, base rounded or
broadly
cuneate.
- 28a. Stellate hairs of abaxial leaf surface with papilliform base 50. *D. setchuenensis*
- 28b. Stellate hairs of abaxial leaf surface without papilliform base.
- 29a. Leaf blade abaxially densely grayish green stellate hairy, reticulate veins
conspicuously
elevated; petals 3–4.5 mm 49. *D. cinerascens*

- 29b. Leaf blade abaxially sparsely yellow-green or greenish stellate hairy, reticulate veins inconspicuous; petals 5–12 mm 50. *D. setchuenensis*
- 22b. Capsule hemispheric, rarely obconical or campanulate, with persistent, erect, rarely recurved calyx lobes.
- 30a. Calyx lobes shorter than tube.
- 31a. Inflorescences 3–5(–11)-flowered; leaf blade abaxially greenish, sparsely 5–8(–10)-rayed stellate hairy.
- 32a. Inflorescences corymbose cymes, pedicels 1–2 cm; teeth of outer filaments exceeding anthers 23. *D. cymuligera*
- 32b. Inflorescences cymes, pedicels 3–5 mm; teeth of outer filaments \pm level with anthers 22. *D. rehderiana*
- 31b. Inflorescences 6–25-flowered; leaf blade abaxially grayish green, densely 8–14-rayed stellate hairy.
- 33a. Styles slightly longer than stamens; inner anthers borne near apex of filaments abaxially.
- 34a. Petals pink; calyx tube 3.5–4 \times 4–4.5 mm, lobes deltoid or broadly ovate; styles 4(or 5) 31. *D. wardiana*
- 34b. Petals white; calyx tube ca. 3 \times 2.5 mm, lobes ovate or ovate-oblong; styles 3(or 4).
- 35a. Capsule hemispheric, persistent calyx lobes erect; margin of leaf blade regularly serrulate 29. *D. staminea*
- 35b. Capsule obconical or obcampanulate, persistent calyx lobes recurved; margin of leaf blade alternately coarsely serrate and serrulate 30. *D. crassidentata*
- 33b. Styles shorter than or subequaling stamens; inner anthers borne at middle of filaments abaxially, rarely between teeth.
- 36a. Leaves dimorphic, suborbicular on basal flowering branchlets; petals 13–14 mm 28. *D. heterophylla*
- 36b. Leaves monomorphic, not suborbicular on basal flowering branchlets; petals 6–12 mm.
- 37a. Leaf blade subleathery; petals narrowly elliptic, obovate-oblong, or oblong, ca. 3 \times as long as wide.
- 38a. Apex of outer filaments shouldered, subrounded, or 2-lobed with lobes not reaching anthers 24. *D. obtusilobata*
- 38b. Apex of outer filaments 2-dentate, teeth oblong, \pm level with anthers 25. *D. monbeigii*
- 37b. Leaf blade papery; petals broadly elliptic or obovate, ca. 2 \times as long as wide.
- 39a. Petals 10–12 \times 5–6 mm; stellate hairs of leaf blade with long central rays 26. *D. yunnanensis*
- 39b. Petals ca. 8 \times 4 mm; stellate hairs leaf of blade without long central rays 27. *D. breviloba*
- 30b. Calyx lobes subequaling or longer than tube.
- 40a. Styles shorter than inner stamens; petals 4.5–7 mm.
- 41a. Leaf blade abaxially gray-white, densely stellate hairy, indumentum continuous; calyx lobes narrowly lanceolate, base less than 1 mm wide 32. *D. albida*
- 41b. Leaf blade abaxially greenish, sparsely stellate hairy, indumentum discontinuous; calyx lobes lanceolate, base ca. 1 mm wide 33. *D. taibaiensis*
- 40b. Styles subequaling or longer than stamens; petals more than 7 mm.
- 42a. Stellate hairs of branchlets and inflorescences with papilliform base.
- 43a. Leaf blade 3–10 \times 1.5–3 cm, abaxially 5–9(–11)-rayed stellate hairy, indumentum discontinuous; calyx lobes subequaling tube, leathery 34. *D. aspera*
- 43b. Leaf blade 1–2.5 \times 0.7–1.4 cm, abaxially densely stellate hairy, indumentum continuous; calyx lobes longer than tube, membranous 35. *D. glaucophylla*
- 42b. Stellate hairs of branchlets and inflorescences without papilliform base.
- 44a. Leaf blade 2–5(–8) \times 0.6–2 cm; inflorescences 3–4(–5) cm in diam.
- 45a. Calyx lobes lanceolate, membranous; leaf blade abaxially greenish, indumentum discontinuous 36. *D. glomeruliflora*
- 45b. Calyx lobes subulate, subleathery; leaf blade abaxially grayish green, indumentum continuous 37. *D. subulata*
- 44b. Leaf blade (3–)5–12(–15) \times (1–)1.5–3 cm; inflorescences 4.5–8 cm in diam.
- 46a. Calyx lobes 5–8 mm, ca. 2 \times as long as tube, membranous 43. *D. calycosa*
- 46b. Calyx lobes 2.5–5 mm, subequaling or slightly longer than tube, leathery.
- 47a. Leaf blade papery or thinly leathery, abaxially sparsely stellate hairy.
- 48a. Leaf blade oblong-lanceolate or lanceolate, adaxially 4–6-rayed stellate hairy, abaxially yellowish brown, 7–9(–13)-rayed stellate hairy, indumentum appressed . 41. *D. nanchuanensis*
- 48b. Leaf blade broadly ovate-lanceolate or ovate-oblong, adaxially 4- or 5-rayed stellate hairy, abaxially greenish, 4–8(–10)-rayed stellate hairy, indumentum not appressed 42. *D. purpurascens*

47b. Leaf blade leathery, abaxially densely stellate hairy.

49a. Leaf blade ovate; flowering branchlets 18–22 cm; petals white 40. *D. zhongdianensis*

49b. Leaf blade lanceolate or elliptic-lanceolate; flowering branchlets 5–15 cm; petals purplish.

50a. Leaf blade adaxially 4–6(or 7)-rayed stellate hairy, abaxially 8–12-rayed stellate hairy,

hairs along veins with long central rays 38. *D. longifolia*

50b. Leaf blade adaxially 6–8-rayed stellate hairy, abaxially 12–16-rayed stellate hairy, hairs

without long central rays 39. *D. squamosa*

1. *Deutzia glabrata* Komarov, Trudy Imp. S.-Peterburgsk. Bot. Sada 22: 433. 1904.

光萼溲疏 *guang e sou shu*

Shrubs ca. 3 m tall. Flowering branchlets red-brown, 6–8 cm, 4–6-leaved, glabrous. Petiole 2–4 mm or very short to absent; leaf blade ovate to ovate-lanceolate, 5–10 × 2–4 cm, membranous, abaxially glabrous, adaxially glabrous or 3- or 4(or 5)-rayed stellate hairy, veins in 3 or 4 pairs, base broadly cuneate or subrounded, margin serrulate, apex acuminate. Inflorescences corymbose, 3–8 cm in diam., 5–20(–30)-flowered, glabrous; pedicels 1–1.5 cm. Calyx tube cupular, ca. 2.5 × 3 mm, glabrous; lobes ovate-deltoid, ca. 1 mm, apex obtuse. Petals imbricate, white, orbicular or broadly obovate, ca. 6 × 4 mm, base attenuate, apex obtuse. Stamens 4–5 mm; filaments subulate. Styles 3, subequaling stamens. Capsule globose, 4–5 mm, glabrous. Fl. Jun–Jul, fr. Aug–Sep. Mixed forests, thickets, mountain slopes; 300–1300 m. Heilongjiang, Henan, ?Hubei, Hunan, Jilin, ?Liaoning, Shaanxi, Shandong [Korea, Russia].

1a. Leaf blade ovate or ovate-lanceolate, adaxially sometimes 3- or 4(or 5)-rayed stellate hairy; petiole 2–4 mm 1a. var. *glabrata*

1b. Leaf blade broadly ovate-lanceolate, glabrous on both surfaces; petiole very short to absent 1b. var. *sessilifolia*

1a. *Deutzia glabrata* var. *glabrata*

光萼溲疏(原变种) *guang e sou shu* (*yuan bian zhong*)

Deutzia fauriei H. Léveillé; *D. glaberrima* Koehne.

Petiole 2–4 mm; leaf blade ovate or ovate-lanceolate, adaxially sometimes 3- or 4(or 5)-rayed stellate hairy.

Fl. Jun–Jul, fr. Aug–Sep.

Mixed forests, mountain slopes; 300–1300 m. Heilongjiang, Henan, Jilin, Shandong [Korea, Russia].

1b. *Deutzia glabrata* var. *sessilifolia* (Pampanini) Zaikonnikova, Deitsii-Dekorativn. Kust. [Ornamental Trees & Shrubs] (Monogr. *Deutzia*) 21. 1966.

无柄溲疏 *wu bing sou shu*

Deutzia sessilifolia Pampanini, Nuovo Giorn. Bot. Ital., n.s., 18: 119. 1911.

Petiole very short to absent; leaf blade broadly ovate-lanceolate, glabrous on both surfaces.

• Thickets, mountain slopes. Henan, ?Hubei, Hunan, Shaanxi, Shandong.

2. *Deutzia parviflora* Bunge, Enum. Pl. China Bor. 31. 1833.

小花溲疏 *xiao hua sou shu*

Shrubs ca. 2 m tall. Flowering branchlets 3–8 cm, 4–6-leaved, stellate hairy. Petiole grayish brown or gray, 3–8 mm; leaf blade elliptic-ovate or ovate-lanceolate, 3–6(–10) × 2–4.5 cm, papery, abaxially 6–12-rayed stellate hairy, hairs along midvein usually with long central rays, adaxially 5(or 6)-rayed stellate hairy, base broadly cuneate or rounded, margin serrulate, apex acute or acuminate. Inflorescences corymbose, 2–5 cm in diam., usually many flowered; peduncle villous or stellate hairy; pedicels 2–12 mm. Calyx tube cupular, ca. 3.5 × 3 cm, densely stellate hairy; lobes deltoid, shorter than tube, apex obtuse. Petals imbricate, white, broadly ovate or suborbicular, 2.5–7.5 mm, hairy on both surfaces, base attenuate, apex obtuse. Outer stamens 4–4.5 mm; inner stamens 3–4 mm; filaments subulate, toothless or inner ones 2-dentate, teeth (if present) not reaching anthers; anthers stalked, globose. Styles 3, shorter than stamens. Capsule hemispheric, 2–3 mm in diam. Fl. Apr–Jun, fr. Jul–Oct.

Mixed forests and thickets, mountain slopes, valleys; 300–1800 m.

Gansu, Hebei, Heilongjiang, Henan, Hubei, Jilin, Liaoning, Nei Mongol, Shaanxi, Shanxi [Korea, Russia].

1a. Stellate hairs of leaf blade abaxial midvein without long central rays 2c. var. *amurensis*

1b. Stellate hairs of leaf blade abaxial midvein with long central rays.

2a. Petals 2.5–3.5 mm; filaments all toothless 2b. var. *micrantha*

2b. Petals (3–)4–7.5 mm; filaments all toothless or inner ones 2-dentate 2a. var. *parviflora*

2a. *Deutzia parviflora* var. *parviflora*

小花溲疏(原变种) *xiao hua sou shu* (*yuan bian zhong*)

Deutzia corymbosa R. Brown ex G. Don var. *parviflora* (Bunge) C. K. Schneider; *D. parviflora* var. *mongolica* Franchet; *D. parviflora* var. *ovatifolia* Rehder.

Stellate hairs of leaf blade abaxial midvein with long central rays. Inflorescences many flowered. Petals (3–)4–7.5 mm. Filaments all toothless or inner ones 2-dentate. Fl. Apr–Jun, fr. Aug–Oct.

Mixed forests, mountain slopes, valleys; 1000–1500 m. Gansu, Hebei, Henan, Hubei, Jilin, Liaoning, Nei Mongol, Shaanxi, Shanxi [Korea, Russia].

2b. *Deutzia parviflora* var. *micrantha* (Engler) Rehder, J. Arnold Arbor. 5: 157. 1924.

碎花溲疏 sui hua sou shu

Deutzia micrantha Engler in Diels, Bot. Jahrb. Syst. 36 (Beibl. 82): 51. 1905.

Stellate hairs of leaf blade abaxial midvein with long central rays. Inflorescences many flowered. Petals 2.5–3.5 mm. Filaments all toothless. Fl. Jun, fr. Jul–Sep.

• Mixed thickets, valleys; 1100–1800 m. Hebei, Henan, Shaanxi, Shanxi.

2c. *Deutzia parviflora* var. *amurensis* Regel, Mém. Acad. Imp. Sci. Saint Pétersbourg, Sér. 7, 4(4): 63. 1861.

东北溲疏 dong bei sou shu

Deutzia amurensis (Regel) Airy Shaw; *D. parviflora* var. *bungei* Franchet.

Stellate hairs of leaf blade abaxial midvein without long central rays. Inflorescences few flowered. Petals 5–7.5 mm. Filaments all toothless or inner ones 2-dentate. Fl. Jun, fr. Sep.

• Mixed forests, thickets, mountain slopes; 300–800 m. Jilin, Liaoning.

3. *Deutzia mollis* Duthie, Gard. Chron., ser. 3, 40: 238. 1906.

钻丝溲疏 zuan si sou shu

Shrubs 1–2 m tall. Flowering branchlets red-brown, 6–12 cm, 4–6-leaved, sparsely stellate hairy. Petiole 3–6 mm; leaf blade ovate-lanceolate or broadly lanceolate, 5–10 × 2.5–5.5 cm, papery, abaxially densely 5–8-rayed stellate hairy, hairs with long central rays, adaxially 4- or 5(or 6)-rayed stellate hairy, hairs usually with long central rays, indumentum continuous, base broadly cuneate or subrounded, margin serrulate, apex acute or acuminate. Inflorescences corymbose, 5–8 cm in diam., 60–100-flowered; pedicels ca. 1 mm. Calyx tube ca. 3.5 × 3 mm; lobes ovate or broadly so, shorter than tube. Petals imbricate, pink, broadly obovate, ca. 4.5 × 4 mm. Stamens 4–5 mm; filaments subulate, toothless; anthers shortly stalked. Styles 3, subequaling stamens. Capsule hemispheric, ca. 5 mm in diam. Fl. Apr–Aug.

• Thickets, cliffs, mountain slopes; 1000–1800 m. W Hubei (Xingshan Xian).

4. *Deutzia hypoglauca* Rehder in Sargent, Pl. Wilson. 1: 24. 1911.

粉背溲疏 fen bei sou shu

Shrubs ca. 2.5 m tall. Branchlets red-brown, 8–14 cm, 4–8-leaved, glabrous. Petiole purplish, 2–5 mm; leaf blade abaxially green or grayish green and glaucous, ovate- or elliptic-lanceolate, 3–9 × 0.7–2.5 cm, subpapery, abaxially glabrous or 3- or 4-rayed stellate hairy, adaxially 3–5-rayed stellate hairy, base rounded

to broadly cuneate, margin serrulate, apex acuminate. Cymes 3–6 cm in diam., 5–15-flowered, glabrous; pedicels 0.5–1.5 cm. Calyx tube ca. 2.5 mm in diam.; lobes broadly ovate, shorter than tube. Petals imbricate, white or pinkish apically, ovate, 6–10 × 5–6 mm. Outer stamens 6–7 mm; filaments 2-dentate at apex, teeth ± level with anthers; anthers borne between filament teeth, stalked. Inner stamens 5–6 mm; filaments obtuse or 2-lobed at apex; anthers borne near middle of filaments abaxially. Styles 3, 6–7 mm. Capsule hemispheric, 3–4 mm in diam. Fl. Mar–Jul, fr. Aug–Oct. $2n = 26^*$.

• Dense forests, thickets, mountain slopes; 1000–2500 m. Gansu, W Hubei, S Shaanxi, Sichuan.

- 1a. Leaf blade abaxially grayish green, glaucous, glabrous; corolla 1.5–2 cm in diam. 4a. var. *hypoglauca*
- 1b. Leaf blade abaxially green, 3- or 4-rayed stellate hairy; corolla less than 1 cm in diam. 4b. var. *shawiana*

4a. *Deutzia hypoglauca* var. *hypoglauca*

粉背溲疏(原变种) fen bei sou shu (yuan bian zhong)

Leaf blade abaxially grayish green, glaucous, glabrous. Corolla 1.5–2 cm in diam. Fl. Apr–Jul, fr. Aug–Oct.

• Thickets, mountain slopes; 1000–2200 m. Gansu, W Hubei, S Shaanxi, Sichuan.

4b. *Deutzia hypoglauca* var. *shawiana* (Zaikonnikova) Zaikonnikova, Deitsii-Dekorativ. Kust. [Ornamental Trees & Shrubs] (Monogr. *Deutzia*) 23. 1966.

青城溲疏 qing cheng sou shu

Deutzia shawiana Zaikonnikova, Bot. Zhurn. (Moscow & Leningrad) 47: 207. 1962; *D. hypoglauca* var. *viridis* S. M. Hwang.

Leaf blade abaxially green, 3- or 4-rayed stellate hairy. Corolla less than 1 cm in diam. Fl. Mar–May.

• Dense forests; 1800–2500 m. Sichuan.

5. *Deutzia rubens* Rehder in Sargent, Pl. Wilson. 1: 13. 1911.

粉红溲疏 fen hong sou shu

Shrubs ca. 1 m tall. Flowering branchlets red-brown, 4–6 cm, ca. 4-leaved, stellate hairy. Petiole 2–4 mm; leaf blade abaxially greenish, oblong or ovate-oblong, rarely lanceolate, 4–7 × 1.5–3 cm, membranous, abaxially 5- or 6(or 7)-rayed stellate hairy, adaxially 4- or 5-rayed stellate hairy, base broadly truncate or subrounded, margin serrulate, apex acute. Inflorescences cymose, 5–10-flowered, stellate hairy; pedicels slender, 1–2 cm. Calyx tube ca. 4.5 × 4 mm; lobes purple, ovate. Petals imbricate, pink, obovate, 5–10 × 7–8 mm. Outer stamens ca. 7 mm; filaments 2-dentate at apex; anthers borne between filament teeth, shortly stalked. Inner stamens shorter than outer ones; filaments rounded or emarginate at apex; inner anthers borne at middle of filaments abaxially. Styles 3, subequaling stamens. Capsule 4–5 mm in diam. Fl. Apr–Jul, fr. Aug–Oct.

• Thickets, mountain slopes; 2100–3000 m. Gansu, Hubei, Shaanxi, Sichuan.

6. *Deutzia muliensis* S. M. Hwang, Acta Bot. Austro Sin. 8: 1. 1992.

木里溲疏 mu li sou shu

Shrubs ca. 1.5 m tall. Flowering branchlets brown, 4–9 cm, ca. 6-leaved, sparsely stellate hairy. Petiole 1–2 mm; leaf blade ovate- or elliptic-lanceolate, 1.5–4.5 × 0.8–1.5 cm, papery, abaxially 5- or 6-rayed stellate hairy, adaxially 4- or 5-rayed stellate hairy, base rounded or subtruncate, margin serrulate, apex acuminate. Corymbose cymes 3–5 cm in diam., 11–21-flowered; pedicels robust, 0.8–1.2 cm. Calyx tube ca. 3 × 3.5 mm; lobes ovate-deltoid, shorter than tube. Petals imbricate, pink, broadly obovate or suborbicular, ca. 0.7 × 1.5 cm. Outer stamens 4–5 mm; filaments 2-dentate at apex, teeth ± level with or exceeding anthers; anthers stalked, globose. Inner stamens shorter than outer ones; filaments obtuse at apex; anthers borne at middle of filaments abaxially. Styles 3, subequaling stamens. Capsule unknown. Fl. Jul.

• Mixed forest margins; ca. 3000 m. Sichuan.

7. *Deutzia compacta* Craib, Bull. Misc. Inform. Kew 1913: 264. 1913.

密序溲疏 mi xu sou shu

Shrubs 2–3 m tall. Flowering branchlets brown or reddish brown, 10–12 cm, 6–10(–12)-leaved, stellate hairy. Petiole ca. 1 mm; leaf blade ovate-lanceolate or oblong-lanceolate, 1.5–6.5 (–10) × 0.8–2.5(–4) cm, papery, abaxially 6–8-rayed stellate hairy, hairs of 2 types (numerous, minute, contiguous ones and less numerous, larger ones with long central rays when along leaf veins), base rounded or broadly cuneate, margin serrulate, apex acute or acuminate. Inflorescences terminal, corymbose, 5–10 cm in diam., 20–80-flowered, stellate hairy, hairs with papilliform base; pedicels 3–10 mm. Calyx tube ca. 2.5 × 2 mm; lobes broadly ovate, ca. 1.5 mm. Petals imbricate, pink, broadly obovate or suborbicular, ca. 6 × 5 mm. Outer stamens 4–5 mm; filaments 2-dentate at apex; anthers globose, stalk 1–1.5 mm. Inner stamens 3–4 mm; filaments 2-lobed or acuminate at apex; anther stalks borne at middle of filaments abaxially. Styles 3 or 4, ca. 4 mm. Capsule hemispheric, ca. 3 mm in diam. Fl. Apr–May, fr. Jun–Jul. $2n = 26^*$.

• Mixed forest margins, mountain slopes; 2000–4200 m. S Xizang, NW Yunnan.

8. *Deutzia hookeriana* (C. K. Schneider) Airy Shaw, Bull. Misc. Inform. Kew 1934: 180. 1934.

西藏溲疏 xi zang sou shu

Deutzia corymbosa R. Brown ex G. Don var. *hookeriana* C. K. Schneider, Mitt. Deutsch. Dendrol. Ges. 13: 184. 1904; *D. compacta* Craib var. *multiradiata* J. T. Pan; *D. corymbosa* var. *purpurascens* C. K. Schneider; *D. corymbosa* var. *yunnanensis* Franchet ex Rehder; *D. hookeriana* var. *macrophylla* S. M. Hwang; *D. hookeriana* var. *ovatifolia* S. M. Hwang.

Shrubs ca. 2 m tall. Flowering branchlets reddish brown, 5–15 cm, 6–8-leaved, stellate hairy, hairs with conical, papilliform base. Petiole 1–4 mm; leaf blade ovate- or oblong-lanceolate, elliptic- or oblong-ovate, or ovate, or 2–8 × 1–4 cm, papery, abaxially densely 8–10(–15)-rayed stellate hairy, adaxially densely 4–6(–8)-rayed stellate hairy, indumentum continuous and grayish, base rounded or broadly cuneate, margin serrulate, apex acuminate or acute. Inflorescences corymbose, 6–12 cm in diam., 20–80-flowered, stellate hairy, hairs with papilliform base; pedicels 3–10 mm. Calyx tube ca. 2 × 2.5 mm; lobes broadly ovate, ca. 2 × 2 mm. Petals imbricate, white, broadly ovate, 6–7 × 5–6 mm. Outer stamens 6–7 mm; filaments 2-dentate at apex; anthers globose, stalks 1–1.5 mm. Inner stamens shorter than outer ones; filaments 2-lobed or truncate at apex; anthers borne near middle of filaments abaxially. Styles 3 or 4, ca. 4 mm. Capsule ca. 4 mm in diam. Fl. May–Aug, fr. Jul–Sep.

Mixed forest margins, thickets; 2000–3500 m. S Xizang, NW Yunnan [Bhutan, ?Myanmar, Sikkim].

9. *Deutzia bomiensis* S. M. Hwang, Acta Bot. Austro Sin. 8: 3. 1992.

波密溲疏 bo mi sou shu

Deutzia bomiensis var. *dinggyensis* (J. T. Pan) S. M. Hwang; *D. corymbosa* R. Brown ex G. Don var. *dinggyensis* J. T. Pan.

Shrubs ca. 1.5 m tall. Flowering branchlets brownish, 4–9 cm, 6–10-leaved, stellate hairy, hairs with papilliform base. Petiole 1–3 mm; leaf blade ovate or ovate-lanceolate, 10–30 × 5–15 cm, papery, abaxially 8–10(–13)-rayed stellate hairy, adaxially 4–6(or 7)-rayed stellate hairy, indumentum continuous, base broadly cuneate, margin serrulate, apex acute. Inflorescences corymbose, 3–4 cm in diam., 9–40-flowered, stellate hairy, hairs with papilliform base; pedicels ca. 5 mm. Calyx tube 1.5–1.2 mm; lobes broadly ovate, 1–1.7 mm. Petals imbricate, white, ovate or broadly so, ca. 5 × 4 mm, margin erose, apex rounded. Outer stamens 3–4 mm; filaments 2-dentate or truncate at apex, teeth (if present) not reaching anthers; anthers globose, stalk ca. 2 mm. Inner filaments 2–3 mm, apex unequally 2-lobed; anther borne between filament teeth, stalked. Styles 3 or 4, subequaling stamens. Capsule globose, ca. 2.5–3 mm in diam. Fl. Jun, fr. Aug–Oct.

• Forests, thickets, mountain slopes; ca. 2500 m. S Xizang (Bomi Xian, Dinggyè Xian).

10. *Deutzia gracilis* Siebold & Zuccarini, Fl. Jap. 1: 22. 1835.

细梗溲疏 xi geng sou shu

Shrubs ca. 1.5 m tall. Flowering branchlets brown, 5–17 cm, ca. 4-leaved, glabrous. Petiole 2–4 mm; leaf blade lanceolate, elliptic-lanceolate, or broadly ovate-lanceolate, 3–3.5 × 1–1.2 cm, papery, abaxially appressed 4- or 5(or 6)-rayed stellate hairy, adaxially 3- or 4-rayed stellate hairy, veins in 3 or 4 pairs, base

cuneate, margin serrulate, apex acuminate. Inflorescences racemose or narrowly paniculate, 8–12 cm, 12–25-flowered, glabrous; pedicels slender, 5–10 mm. Calyx tube 2.5–3 × ca. 2.5 mm; lobes ovate or ovate-deltoid, ca. 1.5 cm, glabrous or sparsely hairy. Petals imbricate, white, oblong or oblong-lanceolate, 10–12 × 4–6 mm. Outer stamens 5–6 mm; filaments 2-dentate at apex or subulate and toothless, teeth (if present) not reaching anthers; anthers stalked, ovoid. Inner filaments all 2-dentate at apex. Styles 3, subequaling or longer than outer stamens. Capsule hemispheric, ca. 5 mm in diam. Fl. Mar–Apr.

Cultivated. Shaanxi, Zhejiang [native to Japan].

11. *Deutzia faberi* Rehder in Sargent, Pl. Wilson. 1: 18. 1911.

浙江溲疏 zhe jiang sou shu

Shrubs 1–2 m tall. Flowering branchlets purple-brown, 4–8 cm, 4–6-leaved, stellate hairy. Petiole 2–4 mm, on flowering branchlets less than 2 mm or almost absent; leaf blade oblong, ovate-oblong, or ovate-lanceolate, 4–8 × 1.5–2.5 cm, membranous or subpapery, both surfaces 3- or 4- (or 5)-rayed stellate hairy, hairs along veins with long central rays and papilliform base, veins in 7–9 pairs, base subcordate, rounded, or cuneate, margin serrulate, apex acute or acuminate. Cymose panicles 7–10 × 3–5 cm, many flowered; pedicels 3–5 mm. Calyx tube ca. 3 × 5 mm; lobes deltoid, densely 6- or 7-rayed stellate hairy. Petals induplicate, white, oblong, 6–8 × 5–4 mm. Outer stamens 6–8 mm; filaments 2-dentate or shouldered at apex, teeth (if present) not reaching anthers; anthers stalked, oblong. Inner stamens shorter than outer ones; filaments all 2-dentate at apex. Styles 3 or 4, longer than outer stamens, hairy. Capsule hemispheric, ca. 3 mm. Fl. Apr–May, fr. Aug–Oct.

• Thickets, mountain slopes; 1000–1700 m. Zhejiang.

12. *Deutzia taiwanensis* (Maximowicz) C. K. Schneider, Mitt. Deutsch. Dendrol. Ges. 13: 177. 1904.

台湾溲疏 tai wan sou shu

Deutzia crenata Siebold & Zuccarini var. *taiwanensis* Maximowicz, Mém. Acad. Imp. Sci. Saint Pétersbourg, Sér. 7, 10: 23. 1867; *D. cordatula* H. L. Li; *D. gracilis* Siebold & Zuccarini subsp. *arisanensis* Zaikonnikova; *D. kelungensis* Hayata.

Shrubs 3–5 m tall. Flowering branchlets purplish red, 8–14 cm, 4–6-leaved, stellate hairy. Petiole 6–8 mm, those on flowering branchlets 2–4 mm; leaf blade ovate-oblong or -lanceolate, 5–8 × 2–3 cm, papery or thinly leathery, both surfaces appressed 4- or 5- (or 6)-rayed stellate hairy, veins in 4–6 pairs, base cuneate or rounded, margin irregularly serrulate, apex acuminate. Cymose panicles 6–8 × 3–4 cm, many flowered; pedicels 3–5 mm. Calyx tube ca. 2.5 × 3 mm; lobes deltoid, densely 8–12-stellate hairy. Petals induplicate, white, oblong, 9–13 × 3–4 mm. Outer stamens ca. 1.2 cm; filaments 2-dentate at apex, teeth not reaching anthers; anthers borne between filament teeth, stalked, oblong.

Inner stamens shorter than outer ones. Styles 3 or 4, longer than outer stamens. Capsule hemispheric, ca. 3.5 mm in diam. Fl. Mar–Jul, fr. Aug–Oct.

• Mixed forests, thickets, mountain slopes; 300–2500 m. Taiwan.

13. *Deutzia glauca* Cheng, Contr. Biol. Lab. Chin. Assoc. Advancem. Sci., Sect. Bot. 10: 71. 1935.

黄山溲疏 huang shan sou shu

Shrubs 1.5–2 m tall. Flowering branchlets gray-brown or purplish brown, 8–20 cm, 4–6 leaved, glabrous. Petiole 5–9 mm, glabrous; leaf blade ovate-oblong, -elliptic, or -lanceolate, 5–10 × 2–4.5 mm, papery, abaxially glabrous or rather sparsely 10–16(–18) rayed stellate hairy, adaxially sparsely 5- or 6(–8)-rayed stellate hairy, veins in 4–8 pairs, base cuneate or rounded, margin serrulate, apex acute or acuminate. Panicles narrow, 5–10 × ca. 4 cm, many flowered; pedicels 2–5 mm. Calyx tube sometimes purple spotted, ca. 3 × 4 mm, densely 12–19-rayed stellate hairy, glabrous, or only lobes sparsely stellate hairy; lobes broadly deltoid, ca. 1.5 × 2.5 mm, apex acute. Petals induplicate, white, oblong or narrowly elliptic, 10–15 × 5–6 mm, apex obtuse or acute. Outer stamens ca. 8 mm; filaments 2-dentate at apex, teeth not reaching anthers; anthers borne between filament teeth, stalked, oblong. Inner stamens ca. 5 mm. Styles 3, ca. 1.2 cm. Capsule hemispheric, ca. 4 × 7 mm. Fl. May–Jul, fr. Aug–Sep.

• Mixed forests, mountain slopes, valleys; 600–1200 m.

Anhui, ?Fujian, Henan, Hubei, Jiangxi, Zhejiang.

- 1a. Calyx tube purple spotted, glabrous or only lobes sparsely stellate hairy 13b. var. *decalvata*
1b. Calyx tube unspotted, densely 12–19-rayed stellate hairy 13a. var. *glauca*

13a. *Deutzia glauca* var. *glauca*

黄山溲疏(原变种) huang shan sou shu (yuan bian zhong)

Calyx tube unspotted, densely 12–19-rayed stellate hairy. Fl. May–Jul, fr. Aug–Sep.

• Mixed forests, mountain slopes; 600–1200 m. Anhui, Henan, Hubei, Jiangxi, Zhejiang.

13b. *Deutzia glauca* var. *decalvata* S. M. Hwang, Acta Bot. Austro Sin. 8: 22. 1992.

斑萼溲疏 ban e sou shu

Calyx tube purple spotted, glabrous or only lobes sparsely stellate hairy. Fl. Jun–Jul.

• Forests, valleys; ca. 600 m. Zhejiang.

One of the present authors (Ohba) believes that var. *decalvata* is only an extreme form of *Deutzia glauca*.

14. *Deutzia pulchra* S. Vidal, Revis. Pl. Vasc. Filip. 124. 1886.

美丽溲疏 mei li sou shu

Deutzia acuminata Merrill; *D. bartlettii* Yamamoto; *D. hayatae* Nakai; *D. pulchra* var. *bartlettii* (Yamamoto) S. S. Ying; *D. pulchra* var. *formosana* Nakai; *D. pulchra* var. *hayatae* (Nakai) Zaikonnikova.

Shrubs or small trees 2–3 m tall. Flowering branchlets gray-brown, 10–18 cm, 4–6-leaved, stellate hairy. Petiole 0.5–1.5 cm; leaf blade abaxially grayish green, adaxially greenish, ovate-oblong or oblong, 5–12 × 2.5–4.5 cm, subleathery, abaxially densely 18–22-rayed stellate hairy, indumentum continuous, adaxially sparsely 6–12-rayed stellate hairy, veins in 8–12 pairs, reticulate veins indistinct on both surfaces, base cuneate or subrounded, margin crenate or subentire, apex acuminate. Cymose panicles ca. 15 × 3–4 cm, many flowered; pedicels ca. 8 mm. Calyx tube ca. 2.5 × 5 mm; lobes deltoid, ca. 1 × 1 mm, densely 18–22-rayed stellate hairy. Petals induplicate, white, oblong or narrowly elliptic, 10–12 × 3–4 mm. Outer stamens ca. 1 cm; filaments 2-dentate at apex, teeth horizontal, not reaching anthers; anthers borne between filament teeth, stalked, oblong. Inner stamens shorter than outer ones. Styles 5, longer than stamens. Capsule hemispheric, ca. 4 × 6–7 mm, densely stellate hairy. Fl. Mar–May, fr. Aug–Sep. $2n = 104^*$.

Mixed forests; 300–2500 m. Taiwan [Philippines].

15. *Deutzia ningpoensis* Rehder in Sargent, Pl. Wilson. 1: 17. 1911.

宁波溲疏 ning bo sou shu

Deutzia chunii Hu; *D. ningpoensis* f. *integrifolia* D. T. Liu & J. Han.

Shrubs 1–2.5 m tall. Flowering branchlets red-brown, 10–18 cm, ca. 6-leaved, stellate hairy. Petiole 5–10 mm, those on flowering branchlets 1–2 mm; leaf blade abaxially grayish green, adaxially greenish, ovate-oblong or -lanceolate, 3–9 × 1.5–3 cm, papery, abaxially densely 12–15-rayed stellate hairy, indumentum continuous, hairs sometimes with central rays, adaxially sparsely 4–7 (or 8)-rayed stellate hairy, veins in 5 or 6 pairs, base rounded or broadly cuneate, margin sparsely serrate or subentire, apex acuminate or acute. Cymose panicles narrow, 5–12 × 2.5–6 cm, many flowered; pedicels 3–5 mm. Calyx tube 3–4 × ca. 3 mm; lobes ovate or deltoid, 1.5–2 × 1.5–2 mm, densely 10–15-rayed stellate hairy. Petals induplicate, white, oblong, 5–8 × ca. 2.5 mm. Outer stamens 3–4 mm; filaments 2-dentate at apex, teeth horizontal, not reaching anthers; anthers borne between filament teeth, stalked, globose. Inner stamens shorter than outer ones. Styles 3 or 4, ca. 6 mm. Capsule hemispheric, 4–5 mm in diam., densely stellate hairy. Fl. May–Jul, fr. Sep–Oct.

• Mixed forests, mountain slopes, valleys; 500–800 m. Anhui, Fujian, Hubei, Jiangxi, Shaanxi, Zhejiang.

16. *Deutzia crenata* Siebold & Zuccarini, Fl. Jap. 1: 19. 1835.

齿叶溲疏 chi ye sou shu

Deutzia scabra Thunberg var. *crenata* (Siebold & Zuccarini) Maximowicz.

Shrubs 1–3 m tall. Flowering branchlets red-brown, 8–12 cm, 4–6-leaved, stellate hairy, hairs sometimes

with central rays. Petiole 3–8 mm; leaf blade abaxially green, ovate or ovate-lanceolate, 5–8 × 1–3 cm, papery, abaxially sparsely 10–15-rayed stellate hairy, indumentum discontinuous, hairs along veins usually with central rays, adaxially sparsely 4- or 5-rayed stellate hairy, veins in 3–5 pairs, base rounded or broadly cuneate, margin serrulate and slightly revolute, apex acuminate or abruptly so. Cymose panicles 5–10 × 3–6 cm, many flowered; pedicels 3–5 mm. Calyx tube ca. 2.5 × 2 mm; lobes ovate, ca. 1.2 × 1 mm, densely yellow-brown stellate hairy. Petals induplicate, white, narrowly elliptic, 0.8–1.5 cm × ca. 6 mm. Outer stamens 8–10 mm; filaments 2-dentate at apex, teeth horizontal, not reaching anthers; anthers borne between filament teeth, stalked, oblong. Inner stamens shorter than outer ones; filaments 2-dentate at apex, rarely ligulate. Styles 3 (or 4), longer than stamens. Capsule hemispheric, ca. 4 mm in diam., sparsely stellate hairy. Fl. Apr–May, fr. Aug–Oct. $2n = 130$.

Cultivated, sometimes naturalized. Anhui, Fujian, Hubei, Jiangsu, Shandong, Yunnan, Zhejiang [native to Japan].

17. *Deutzia schneideriana* Rehder in Sargent, Pl. Wilson. 1: 7. 1911.

长江溲疏 chang jiang sou shu

Deutzia schneideriana var. *laxiflora* Rehder.

Shrubs 1–2 m tall. Flowering branchlets purplish red, 8–12 cm, 4–6-leaved, sparsely stellate hairy. Petiole 3–4 mm; leaf blade abaxially grayish-ovate or elliptic-ovate, 3.5–7 × 1.5–3 cm, papery, abaxially 12–15-rayed stellate hairy, indumentum discontinuous, hairs along veins with central rays, adaxially sparsely 5- or 6-rayed stellate hairy, veins in 4–6 pairs, base rounded or broadly cuneate, margin serrulate, apex acute or abruptly acuminate. Cymose panicles 3–15 × 3–4 cm; pedicels 3–8 mm. Calyx tube ca. 3 × 4 mm, densely greenish gray stellate hairy; lobes deltoid, ca. 1 × 1 mm. Petals induplicate, white, oblong, 1–1.2 cm × 4–5 mm, apex acute. Outer stamens 8–10 mm; filaments 2-dentate at apex, teeth not reaching anthers; anthers borne between filament teeth, stalked, oblong. Inner anthers borne between filament teeth or near middle of filaments abaxially. Styles 3, slender, longer than stamens. Capsule grayish brown, hemispheric, 5–7 mm in diam., stellate hairy. Fl. May–Jun, fr. Aug–Oct.

• Thickets; 600–2000 m. Anhui, Gansu, Hubei, Hunan, Jiangxi, ?Zhejiang.

18. *Deutzia discolor* Hemsley in F. B. Forbes & Hemsley, J. Linn. Soc., Bot. 23: 275. 1887.

异色溲疏 yi se sou shu

Deutzia densiflora Rehder; *D. discolor* var. *bicruristylis* P. He; *D. discolor* f. *compacta* Diels; *D. discolor* var. *gannanensis* L. C. Wang & X. G. Sun; *D. discolor* var. *major* Veitch; *D. globosa* Duthie; *D. longifolia*

Franchet var. *farreri* Airy Shaw; *D. reflexa* Duthie; *D. vilmorinae* Lemoine & Bois.

Shrubs 2–3 m tall. Flowering branchlets brownish, 5–15 cm, 2–4(–6) leaved, sparsely stellate hairy. Petiole 3–6 mm; leaf blade abaxially greenish gray, adaxially greenish, elliptic-lanceolate or oblong-lanceolate, 5–10 × 2–3 cm, papery, abaxially densely 10–12(or 13)-rayed stellate hairy, adaxially sparsely 4–6-rayed stellate hairy, hairs with central rays on both surfaces, veins in 5 or 6 pairs, base cuneate or broadly so, margin serrulate, apex acute. Cymes 6–10 × 5–8 cm, 12–20-flowered; pedicels 1–1.5 cm. Calyx tube 3–3.5 × 3.5–4 mm, densely 10–12-rayed stellate hairy; lobes oblong-lanceolate, subequaling or slightly longer than tube. Petals induplicate, white, elliptic, 10–12 × 5–6 mm. Outer stamens 5.5–7 mm; filaments 2-dentate at apex, teeth not reaching anthers, acute at apex; anthers stalked, ovoid or globose. Inner stamens 3.5–5 mm. Styles 3 or 4, subequaling or slightly longer than stamens. Capsule brown, hemispheric, 4.5–6 mm in diam., with persistent, recurved calyx lobes. Fl. Jun–Jul, fr. Aug–Oct.

• Mixed thickets, mountain slopes, stream banks; 1000–2500 m. Gansu, Henan, Hubei, Shaanxi, Sichuan.

19. *Deutzia silvestrii* Pampanini, Nuovo Giorn. Bot. Ital., n.s., 17: 282. 1910.

红花溲疏 hong hua sou shu

Shrubs ca. 2 m tall. Flowering branchlets purplish brown, 5–7(–11) cm, ca. 4-leaved, sparsely stellate hairy. Petiole 3–4 mm, stellate hairy; leaf blade abaxially gray, adaxially grayish green, ovate or elliptic-ovate, 3–5 × 1.5–2 cm, papery, abaxially somewhat densely 5–8(–10)-rayed stellate hairy, hairs along veins with long central rays, adaxially sparsely 3–5-rayed stellate hairy, veins in 4 or 5 pairs, base cuneate or rounded, margin serrulate, apex acuminate. Cymes 1.5–1.8 × 3–6.5 cm, 15–40 (–100)-flowered; pedicels 3–5 mm. Calyx tube 3–3.5 × 2.5–3 mm, 14–17-rayed stellate hairy; lobes ovate-deltoid, 1.5–2.5 mm. Petals induplicate, pink, elliptic, 6.5–7(–9) × 1.7–2.5(–3.5) mm. Outer stamens 4–6 mm; filaments 2-dentate or shouldered at apex, teeth (if present) not reaching anthers, obtuse at apex; anthers borne between filament teeth, stalked, ovoid. Inner stamens 2–4 mm. Styles 3(or 4), subequaling outer stamens. Capsule hemispheric, ca. 3.5 mm, with persistent, incurved calyx lobes. Fl. Jun–Jul.

• Mixed forests; 300–1900 m. Hubei.

No specimens of *Deutzia silvestrii* have been seen by the present authors, one of whom (Ohba) doubts the distinctness of this species.

20. *Deutzia grandiflora* Bunge, Enum. Pl. China Bor. 30. 1833.

大花溲疏 da hua sou shu

Deutzia baroniana Diels var. *insignis* Pampanini; *D. grandiflora* var. *glabrata* Maximowicz; *D. grandiflora* var. *minor* Maximowicz.

Shrubs ca. 2 m tall. Flowering branchlets yellow-brown, very short initially, elongating to ca. 4 cm, 2–4-leaved, stellate hairy, hairs with central rays. Petiole 1–4 mm; leaf blade abaxially grayish, ovate-rhomboid or elliptic-ovate, 2–5.5 × 1–3.5 cm, papery, abaxially appressed 7–11-rayed stellate hairy, indumentum continuous, hairs along veins with central rays, adaxially 4–6-rayed stellate hairy, veins in 5 or 6 pairs, base cuneate or broadly so, margin irregularly serrulate, apex acute. Cymes 1–3 × 1–3 cm, 1–3(–5)-flowered; pedicels 3–12 mm. Calyx tube ca. 2.5 × 4 mm, densely gray-yellow stellate hairy, hairs sometimes with central rays; lobes linear-lanceolate, longer than tube, 1–1.5 mm wide. Petals induplicate, white, oblong or ovate-oblong, ca. 1.5 × 7 mm. Outer stamens 6–7 mm; filaments 2-dentate at apex, teeth horizontal or recurved, falcate; anthers stalked, ovoid-oblong. Inner stamens shorter than outer ones. Styles 3(or 4), subequaling stamens. Capsule hemispheric, 4–5 mm in diam., stellate hairy, with persistent, recurved calyx lobes. Fl. Apr–Jun, fr. Sep–Nov.

• Thickets, mountain slopes, valleys; 800–1600 m. Gansu, Hebei, Henan, ?Hubei, Hunan, ?Jiangsu, Liaoning, ?Nei Mongol, Shaanxi, Shandong, Shanxi.

21. *Deutzia baroniana* Diels, Bot. Jahrb. Syst. 29: 372. 1900.

钩齿溲疏 gou chi sou shu

Deutzia grandiflora Bunge var. *baroniana* (Diels) Rehder; *D. hamata* Koehne ex Gilg & Loesener; *D. hamata* var. *baroniana* (Diels) Zaikonnikova; *D. prunifolia* Rehder.

Shrubs 0.3–1 m tall. Flowering branchlets brownish, 1–4 cm, 2–4 leaved, stellate hairy. Petiole 3–5 mm, stellate hairy; leaf blade ovate-rhomboid or ovate-elliptic, 2–5(–7) × 1.5–3 (–4) cm, abaxially sparsely 5- or 6(or 7)-rayed stellate hairy, indumentum discontinuous, hairs along veins with central rays, adaxially 4- or 5-rayed stellate hairy, veins in 4 or 5 pairs, base cuneate or broadly so, margin irregularly serrulate or with alternating large and small teeth, apex acute. Cymes 1–1.5 × 1–1.5 cm, (1 or)2- or 3-flowered. Calyx tube ca. 2 × 4 mm, densely 4–6-rayed stellate hairy, hairs with central rays; lobes linear-lanceolate, 5–9 mm. Petals induplicate, white, obovate-oblong or lanceolate, 1.5–2.0 × 5–7 mm. Outer stamens 6–7 mm; filaments 2-dentate at apex, teeth horizontal or recurved, falcate; anthers stalked, oblong. Inner stamens 3.5–4.5 mm. Styles 3 or 4, ca. 1.2 cm. Capsule hemispheric, ca. 4 mm in diam., with persistent, recurved calyx lobes. Fl. Apr–May, fr. Sep–Oct.

• Thickets, mountain slopes; 500–1200 m. Hebei, Henan, Jiangsu, Liaoning, Shaanxi, Shandong, Shanxi.

22. *Deutzia rehderiana* C. K. Schneider, Bot. Gaz. 63: 398. 1917.

灌丛溲疏 *guan cong sou shu*

Deutzia dumicola W. W. Smith; *D. setosa*
Zaikonnikova.

Shrubs ca. 2 m tall. Flowering branchlets brown, 1–2(–3) cm, 2–4-leaved; sterile branchlets to 20 cm, 14–16-leaved; all branchlets densely stellate hairy, hairs with papilliform base. Petiole 1–3 mm; leaf blade ovate, broadly so, or elliptic-ovate, 1.5–2.5 × 0.8–1.8 cm, papery, abaxially densely 5–8(–10)-rayed stellate hairy, adaxially sparsely 4–6(or 7)-rayed stellate hairy, veins in 3 or 4 pairs, base rounded or broadly cuneate, margin serrulate, apex obtuse to acute. Cymes 1–2(–3) × ca. 2 cm, (1–)3–5(–11)-flowered; pedicels 3–5 mm. Calyx tube ca. 3 × 3 mm, densely 8–10-rayed stellate hairy; lobes ovate or oblong, ca. 1.5 × 1 mm. Petals induplicate, white, obovate-elliptic, 6–7 × ca. 3 mm. Outer stamens ca. 3.5 mm; filaments 2-dentate at apex, teeth ± level with anthers. Inner stamens ca. 3 cm; filaments acute or irregularly 2-lobed at apex; anthers borne at middle of filaments abaxially, stalked. Styles 3(or 4), ca. 2 mm. Capsule hemispheric, 3–4 mm in diam., with persistent, erect calyx lobes. Fl. May, fr. Jul–Aug.

• Thickets, mountain slopes; 500–2000 m. Guizhou, Sichuan, Yunnan.

23. *Deutzia cymuligera* S. M. Hwang, Acta Bot. Austro Sin. 8: 6. 1992.

小聚花溲疏 *xiao ju hua sou shu*

Shrubs ca. 1.5 m. Flowering branchlets 0.5–1 cm, 2–4-leaved. Petiole ca. 2 mm; leaf blade ovate or elliptic-ovate, 2–2.5 × 1–1.3 cm, papery, abaxially slender 4(or 5)-rayed stellate hairy, indumentum continuous, adaxially 3- or 4-rayed stellate hairy, veins in 3 or 4 pairs, base broadly cuneate, margin serrulate, apex acute or acuminate. Corymbose cymes 1.5–2.5 × 2–3 cm, 3–5-flowered; pedicels slender, 1–2 cm. Calyx tube ca. 2.5 × 3 mm, 7–10-rayed stellate hairy; lobes ovate, ca. 1 mm, apex acute. Petals induplicate, white, elliptic or broadly so, 6–7 × 4–5 mm, margin crisped. Outer stamens ca. 3 mm; filaments 2-dentate at apex, teeth slightly exceeding anthers; anthers shortly stalked, ovoid. Inner stamens shorter than outer ones; filaments acuminate at apex, unequally 2-lobed; anthers borne at middle of filaments abaxially, shortly stalked. Styles 3, ca. 3 mm. Capsule unknown. Fl. May.

• Thickets, valleys. E Sichuan (Wuxi Xian).

24. *Deutzia obtusilobata* S. M. Hwang, Acta Bot. Austro Sin. 8: 4. 1992.

钝裂溲疏 *dun lie sou shu*

Shrubs ca. 1.5 m tall. Flowering branchlets red-brown, 6–10 cm, 6–8-leaved. Petiole 2–3 cm; leaf blade abaxially grayish green, ovate or elliptic-ovate, 2–4 × 1.6–1.8 cm, subleathery, abaxially densely 8–11-rayed

stellate hairy, indumentum continuous, adaxially sparsely 5–8(or 9)-rayed stellate hairy, veins in 3 or 4 pairs, base broadly cuneate, margin slightly serrate, apex acute. Cymes lax, 5–8 × 3–5 cm, 9–15-flowered; pedicels 1–2 cm. Calyx tube ca. 2.5 × 3 mm; lobes ovate or ovate-deltoid, ca. 1.5 × 1.5 mm, densely 8–11-rayed stellate hairy. Petals induplicate, white, oblong or obovate-elliptic, 7–9 × 2–3 mm. Outer stamens ca. 4 mm; filaments subrounded, shouldered, or 2-lobed at apex, lobes (if present) not reaching anthers; anthers stalked, ovoid. Inner stamens ca. 2 mm; filaments slightly 2-lobed at apex; anthers borne between filament lobes or near apex of filaments abaxially. Styles 3, subequaling stamens. Capsule unknown. Fl. Mar.

• Mixed forests; ca. 2000 m. W Sichuan (Jiulong Xian).

One of the present authors (Ohba) doubts the distinctness of this species.

25. *Deutzia monbeigii* W. W. Smith, Notes Roy. Bot. Gard. Edinburgh 11: 205. 1919.

维西溲疏 *wei xi sou shu*

Deutzia monbeigii var. *lanceolata* S. M. Hwang.

Shrubs 1–1.5 m tall. Flowering branchlets brown, 3–8 cm, 4–6-leaved. Petiole 1–2 mm; leaf blade abaxially grayish green, ovate, ovate-elliptic, or lanceolate, 1–3.5(–5) × 0.3–1.8(–2) cm, subleathery, abaxially densely 11–14-rayed stellate hairy, indumentum continuous, hairs usually with central rays, adaxially scabrous and sparsely 5–8-rayed stellate hairy, hairs usually with papilliform base, veins in 3 or 4 pairs, base broadly cuneate, margin serrulate, apex obtuse, acute, or acuminate. Cymes 3–6 × 3–4 mm, 5–15-flowered; pedicels 5–10 mm. Calyx tube ca. 2.5 × 3 mm, densely stellate hairy; lobes ovate-oblong, ovate, or lanceolate, 1–2 mm, apex acute. Petals induplicate, white, narrowly elliptic or obovate-oblong, 10–12 × 3.5–4 mm, margin entire or crisped. Outer stamens ca. 5 mm; filaments 2-dentate at apex, teeth oblong; anthers stalked, ovoid. Inner stamens shorter than outer ones; filaments acute or 2- or 3-lobed at apex; anthers borne near middle of filaments abaxially. Styles 3 or 4, shorter than stamens. Capsule gray-yellow, hemispheric or subcampanulate, 3–4 mm in diam., with persistent, erect calyx lobes. Fl. May, fr. Sep.

• Thickets; 2000–3000 m. Sichuan, Xizang, Yunnan.

26. *Deutzia yunnanensis* S. M. Hwang, Acta Bot. Austro Sin. 8: 9. 1992.

云南溲疏 *yun nan sou shu*

Shrubs. Flowering branchlets brown, 3–5 cm, ca. 4-leaved, stellate hairy. Petiole 3–5 mm; leaf blade abaxially grayish green, ovate or ovate-oblong, 2–4.5 × 1.2–1.8 cm, papery, abaxially 8–10(–12)-rayed stellate hairy, hairs usually with long central rays, adaxially 4- or 5-rayed stellate hairy, veins in 3–5 pairs, base broadly cuneate, margin serrulate, apex acute or

acuminate. Cymes or corymbose cymes 2–4 × 1.5–2.5(–3) cm, 9–12-flowered; pedicels 5–8 cm. Calyx tube ca. 3 × 2.5 mm, densely 12–15-rayed stellate hairy; lobes ovate or ovate-oblong, ca. 2 × 1 mm. Petals induplicate, broadly elliptic, 1–1.2 cm × 5–6 mm, margin crisped. Outer stamens ca. 6 mm; filaments 2-dentate at apex, teeth ± level with anthers; anthers stalked, ovoid or globose. Inner stamens shorter than outer ones; filaments oblong or ligulate, 2- or 3-lobed or obtuse at apex; anthers borne near middle of filaments abaxially. Styles 3, shorter than inner stamens. Capsule hemispheric, 4–5 mm in diam., with persistent, erect calyx lobes.

• Thickets. NW Yunnan.

27. *Deutzia breviloba* S. M. Hwang, Acta Bot. Austro Sin. 8: 11. 1992.

短裂溲疏 duan lie sou shu

Shrubs ca. 1 m tall. Flowering branchlets gray-brown, 4–5 cm, ca. 4-leaved, stellate hairy. Petiole 3–5 mm, sparsely stellate hairy; leaf blade abaxially grayish green, ovate or ovate-lanceolate, 1.5–3 × 0.6–1.3 cm, papery, abaxially densely 8–14-rayed stellate hairy, adaxially sparsely 5–7-rayed stellate hairy, base broadly cuneate, margin serrulate, apex acuminate. Cymes ca. 2 × 3 cm, 6–9-flowered; pedicels 8–10 mm. Calyx tube ca. 2.5 × 3 mm, densely 10–14-rayed stellate hairy; lobes deltoid or ovate-deltoid, 1–1.5 mm. Petals white, obovate or broadly elliptic, ca. 8 × 4 mm, margin crisped, apex obtuse. Outer stamens ca. 4 mm; filaments 2-dentate at apex, teeth ± level with anthers. Inner stamens ca. 3 mm; filaments subacute or unequally 2-lobed at apex; anthers borne near middle of filaments abaxially. Styles 3(or 4), shorter than stamens. Capsule hemispheric, ca. 3 mm in diam., with persistent, erect calyx lobes. Fl. Mar, fr. Jun.

• *Pinus* forests, stream banks; 1200–3100 m. Sichuan.

28. *Deutzia heterophylla* S. M. Hwang, Acta Bot. Austro Sin. 8: 8. 1992.

异叶溲疏 yi ye sou shu

Shrubs ca. 2 m tall. Flowering branchlets 7–9 cm, ca. 6-leaved. Petiole 3–4 mm; leaf blade dimorphic: those of basal branchlets suborbicular, 0.8–2.5 × 0.8–2.5 cm, base truncate, margin irregularly serrulate; those of middle and distal branchlets abaxially grayish green, ovate or ovate-lanceolate, 3–5 × 1.5–2.5 cm, papery, abaxially densely 8–12-rayed stellate hairy, adaxially sparsely 4–8-rayed stellate hairy, veins in 3 or 4 pairs, base cuneate or broadly so, apex obtuse or acuminate. Corymbose cymes 3–4 × 4 cm, 9-flowered; pedicels slender, 1–1.2 cm. Calyx tube ca. 4 × 4 mm, densely 10–14-rayed stellate hairy; lobes ovate-lanceolate, ca. 3 mm, apex acuminate. Petals valvate, white, elliptic, 1.3–1.4 cm × 8 mm, apex obtuse. Outer stamens ca. 6 mm; filaments 2-dentate at apex, teeth ± level with anthers, obtuse at apex; anthers stalked. Inner stamens ca. 4 mm; filaments 2-lobed at apex; anthers borne at

middle of filaments abaxially. Styles 3, shorter than stamens. Capsule unknown. Fl. Aug.

• Mixed forests, valleys; ca. 2300 m. SW Sichuan (Muli Zang Zu Zizhixian).

29. *Deutzia staminea* R. Brown ex Wallich, Pl. Asiat. Rar. 2: 82. 1831.

长柱溲疏 chang zhu sou shu

Deutzia brunoniana Wallich ex G. Don; *D. staminea* var. *brunoniana* (Wallich ex G. Don) J. D. Hooker & Thomson; *D. staminea* var. *sikkimensis* C. K. Schneider. Shrubs 2–5 m tall. Flowering branchlets 2–5 cm, 2–6-leaved. Petiole 1.5–2.5 mm; leaf blade abaxially grayish green, adaxially green, ovate or narrowly so, 2.5–5 × 1–3.5 cm, papery, abaxially densely 9–14-rayed stellate hairy, indumentum continuous, hairs usually with long central rays, adaxially 4–6-rayed stellate hairy, veins in 4–6 pairs, base rounded or broadly cuneate, margin serrulate, apex obtuse or subacute. Cymes 2–4 cm, 9–25-flowered; pedicels 2–2.5 mm. Calyx tube ca. 3 × 2.5 mm, gray-yellow stellate hairy; lobes ovate or ovate-lanceolate, 1–2 cm, apex acute. Petals induplicate, white, oblong or elliptic, 6–8 × 3–4 mm, apex obtuse. Outer stamens ca. 5 mm; filaments unequally 2-dentate at apex, teeth exceeding anthers; anthers stalked, globose. Inner stamens ca. 2.5 mm; filaments unequally 2- or 3-lobed at apex; anthers borne near apex of filaments abaxially, stalked. Styles 3 or 4, ca. 7 mm. Capsule hemispheric, 3.5–4 mm, with persistent, erect calyx lobes. Fl. Jun, fr. Aug. $2n = 26^*$.

Thickets, mountain slopes; 2000–3000 m. SW Sichuan (Muli Zang Zu Zizhixian), S Xizang, NW Yunnan [Bhutan, Kashmir, Nepal, Sikkim].

30. *Deutzia crassidentata* S. M. Hwang, Acta Bot. Austro Sin. 8: 12. 1992.

粗齿溲疏 cu chi sou shu

Shrubs ca. 2 m tall. Flowering branchlets 4–6 cm, ca. 4-leaved. Petiole 3–5 mm; leaf blade abaxially grayish green, ovate or elliptic-ovate, 2–5.5 × 1.5–3.5 cm, papery, abaxially densely 8–10-rayed stellate hairy, hairs along veins usually with central rays, adaxially sparsely 4- or 5-rayed stellate hairy, base rounded or broadly cuneate, margin alternately coarsely serrate and serrulate, apex acute; leaf blade on sterile branchlets usually large, margin alternately coarsely serrate and serrulate. Cymes 4–6 × 3–5 cm, 5–15-flowered; pedicels 0.8–1.2 cm. Calyx tube grayish, ca. 3 × 2.5 mm, densely 10–12-rayed stellate hairy; lobes ovate-lanceolate, ca. 2 × 1 mm. Petals induplicate, white, ovate-oblong or elliptic, 6–10 × 4–5 mm, apex obtuse or acute. Outer stamens ca. 4 mm; filaments 2-dentate at apex, teeth ± level with anthers, obtuse at apex; anthers subovoid or globose. Inner stamens ca. 3 mm; filaments 2- or 3-lobed at apex; anthers borne near apex of filaments abaxially. Styles 3 or 4, 4.5–5 mm. Capsule obconical or obcampanulate, 3–4 × ca. 3 mm, with persistent, recurved calyx lobes. Fl. Jul–Sep.

• Thickets, stream banks; 2000–2300 m. Sichuan.

One of the present authors (Ohba) believes that this species may be synonymous with *Deutzia staminea*.

31. *Deutzia wardiana* Zaikonnikova, Deitsii-Dekorat Kust. [Ornamental Trees & Shrubs] (Monogr. *Deutzia*) 97. 1966.

宽萼溲疏 kuan e sou shu

Shrubs 2–3 m tall. Flowering branchlets brown, 4–7 cm, angular, ca. 4-leaved. Petiole 3–5 mm; leaf blade abaxially grayish green, ovate-lanceolate or elliptic-ovate, 4.5–7 × 1.7–2.5 cm, abaxially densely 9–13-rayed stellate hairy, indumentum continuous, hairs on young leaf blade with central rays, adaxially 4- or 5-rayed stellate hairy, veins in 4 or 5 pairs, base rounded or broadly cuneate, margin serrulate, apex acuminate; leaf blade on proximal branchlets ovate, small, apex acute. Cymes or paniculate cymes ovate or pyramidal, 3–5 × 3–6 cm, 9–15-flowered; pedicels 5–10 mm. Calyx tube broadly cupular, 3.5–4 × 4–4.5 mm, densely 16–18-rayed stellate hairy; lobes broadly ovate or deltoid, ca. 1.5 × 1.5 mm. Petals induplicate, pink, elliptic, ca. 1.3 cm × 7 mm. Outer stamens 6–8 mm; filaments 2-dentate at apex; anthers stalked, globose. Inner stamens shorter than outer ones; filaments unequally 2- or 3-lobed at apex; anthers borne near apex of filaments abaxially. Styles 4 (or 5), 9–10 mm. Capsule hemispheric, ca. 4 mm in diam., with persistent, erect calyx lobes. Fl. Apr–May, fr. Jun–Aug.

Coniferous forests, thickets, valleys; 1500–2000 m. Xizang [India].

32. *Deutzia albida* Batalin, Trudy Imp. S.-Peterburgsk. Bot. Sada 13: 97. 1893.

白溲疏 bai sou shu

Deutzia discolor Hemsley var. *albida* (Batalin) C. K. Schneider.

Shrubs ca. 3 m tall. Flowering branchlets brown, 4–6 cm, 4–6-leaved, stellate hairy. Petiole 2–3 mm; leaf blade abaxially gray-white, ovate or elliptic-ovate, 4–6.5 × 1.2–3 cm, abaxially densely 5–9-rayed stellate hairy, indumentum continuous, adaxially sparsely 4- or 5-rayed stellate hairy, hairs with central rays, veins in 4 or 5 pairs, conspicuously elevated abaxially, base rounded or broadly cuneate, margin serrulate, apex obtuse or acute. Cymes 3–4 × 4–5 cm, 9–30-flowered; pedicels slender, 3–10 mm. Calyx tube ca. 2.5 × 2.5 mm; lobes narrowly lanceolate, 2.5–3 mm, less than 1 mm wide at base, apex acuminate. Petals induplicate, white, elliptic or obovate-elliptic, ca. 7 × 4 mm, margin crisped, apex acute. Outer stamens 3–3.5 mm; filaments 2-dentate at apex, teeth slightly divergent, ± level with or exceeding anthers; anthers stalked, globose. Inner stamens 2–2.5 mm; filaments obtuse or 2- or 3-lobed at apex; anthers borne near middle of filaments abaxially. Styles 3, ca. 1.5 mm. Capsule hemispheric, 3–3.5 mm, with persistent, recurved calyx lobes. Fl. Jun, fr. Sep.

• Mixed forests; 1300–1700 m. S Gansu, ?Shaanxi (Qin Ling).

33. *Deutzia taibaiensis* W. T. Wang ex S. M. Hwang, Acta Bot. Austro Sin. 8: 14. 1992.

太白溲疏 tai bai sou shu

Shrubs 1–2 m tall. Flowering branchlets brownish, 4–6 (–12) cm, ca. 6-leaved, stellate hairy, hairs with papilliform base. Petiole 1–3 mm; leaf blade abaxially greenish, ovate, elliptic-ovate, or ovate-lanceolate, 4–6 × 1.5–2.5 cm, papery, abaxially sparsely 5–7 (or 8)-rayed stellate hairy, indumentum discontinuous, hairs along veins with papilliform base, adaxially 4- or 5-rayed stellate hairy, hairs with central rays, veins in 4 or 5 pairs, elevated abaxially, base rounded or broadly cuneate, margin serrulate, apex obtuse or acute. Cymes 3–8 × 4–6 cm, 9–40-flowered; pedicels 3–5 mm. Calyx tube 2.5–3 × ca. 1 mm; lobes lanceolate, 2.5–3 × ca. 1 mm. Petals white, elliptic or obovate-elliptic, 4.5–7 × 3.5–5 cm, margin erose, apex obtuse. Outer stamens 2.5–3.5 mm; filaments 2-dentate at apex, teeth exceeding anthers; anthers stalked, ovoid. Inner stamens 1.5–2 mm; filaments 2- or 3-lobed or obtuse at apex; anthers borne at middle of inner filaments abaxially. Styles 3, ca. 1 mm. Capsule hemispheric, 3–3.5 mm in diam., with persistent, recurved calyx lobes. Fl. May–Jun, fr. Aug–Sep.

• Forests; ca. 1200 m. Gansu, Shaanxi.

34. *Deutzia aspera* Rehder in Sargent, Pl. Wilson. 1: 149. 1912.

马桑溲疏 ma sang sou shu

Deutzia aspera var. *fedorovii* (Zaikonnikova) S. M. Hwang; *D. fedorovii* Zaikonnikova.

Shrubs 2–3 m tall. Flowering branchlets 5–15 cm, 4–6-leaved, stellate hairy, hairs with papilliform base. Petiole 4–5 mm; leaf blade ovate, ovate-elliptic or lanceolate, or oblong, 3–10 × 1.5–3 cm, thinly leathery or papery, abaxially sparsely 5–9 (–11)-rayed stellate hairy, indumentum discontinuous, adaxially (3 or) 4–6-rayed stellate hairy, veins in 5 or 6 pairs, base broadly cuneate or rounded, margin serrulate, apex acuminate. Cymes 3–7 × 4–5 cm, 9–45-flowered; pedicels 3–5 mm. Calyx tube ca. 3 mm in diam., 8–14-rayed stellate hairy; lobes lanceolate or oblong-lanceolate, ca. 3 × 2 mm, leathery, 1-veined. Petals induplicate, white or pink, broadly elliptic or obovate-elliptic, 0.7–1.4 cm × 4–6 mm. Outer stamens 5–8 mm; filaments 2-dentate at apex, teeth ± level with anthers; anthers stalked. Inner stamens 3.5–4 mm; filaments obtuse or acuminate at apex; anthers borne near middle of filaments abaxially. Styles 3 (or 4), subequaling stamens. Capsule hemispheric, ca. 5 mm in diam., with persistent, erect calyx lobes. Fl. Apr–Nov, fr. Nov–Dec.

• Thickets, forests, mountain slopes; 500–2500 m. S Xizang, Yunnan.

35. *Deutzia glaucophylla* S. M. Hwang, Acta Bot. Austro Sin. 8: 16. 1992.

灰绿溲疏 hui lu sou shu

Shrubs ca. 2 m tall. Flowering branchlets brown, 3–8 cm, 4–6-leaved, stellate hairy, hairs with papilliform base. Petiole 2–3 mm; leaf blade abaxially grayish green, ovate-lanceolate or elliptic-lanceolate, 1–2.5 × 0.7–1.4 cm (basal ones broadly ovate and smaller), papery, abaxially densely 12–14-rayed stellate hairy, indumentum continuous, adaxially sparsely 4- or 5-rayed stellate hairy, veins in 3 or 4 pairs, base broadly cuneate, margin serrulate, apex acuminate. Cymes 2–4 × 2–4 cm, 9–12-flowered; pedicels slender, 0.5–1.5 cm, stellate hairy, hairs with papilliform base. Calyx tube ca. 3 × 3.5 mm, densely 8–12-rayed stellate hairy; lobes oblong-lanceolate, ca. 5 mm, membranous, midvein prominent. Petals induplicate, white or pink, obovate-elliptic, 8–10 × 5–6 mm. Outer stamens 4–6 mm; filaments 2-dentate at apex, teeth exceeding anthers; anthers stalked. Inner stamens shorter than outer ones; filaments obtuse or 2- or 3-lobed at apex; anthers borne at middle of filaments abaxially. Styles 3(or 4), subequaling stamens. Capsule gray, hemispheric, ca. 3 mm in diam. Fl. Jun–Jul, fr. Aug–Sep.

• Thickets; 2000–2500 m. Sichuan, Xizang.

36. *Deutzia glomeruliflora* Franchet, *Nouv. Arch. Mus. Hist. Nat.*, sér. 2, 8: 236. 1886.

球花溲疏 qiu hua sou shu

Deutzia glomeruliflora var. *lichiangensis*

(Zaikonnikova) S. M. Hwang; *D. longifolia* Franchet var. *sikangensis* (W. P. Fang) P. He; *D. purpurascens* (Franchet ex L. Henry) Rehder var. *lichiangensis* Zaikonnikova; *D. sikangensis* W. P. Fang; *D. subsessilis* Rehder.

Shrubs 1–2 m. Flowering branchlets red-brown, 3–12 cm, 4–6-leaved, stellate hairy. Petiole 1–5 mm; leaf blade abaxially greenish, ovate lanceolate or lanceolate, 2–5(–8) × 0.6–1.5(–2) cm, papery, abaxially 4–10-rayed stellate hairy, indumentum continuous, hairs with or without long central rays, adaxially sparsely 4–6(or 7)-rayed stellate hairy, veins in 3–6 pairs, base broadly cuneate, margin serrulate, apex acuminate. Cymes aggregate, short, 3–8 × 3–4 cm, 3–18-flowered; pedicels 5–10 mm. Calyx tube ca. 3 × 3 mm, densely stellate hairy, hairs with central rays; lobes purplish or green, lanceolate, subequaling tube, membranous. Petals induplicate, white, obovate-elliptic, 8–12 × 4–5 mm. Outer stamens 5–6 mm; filaments 2-dentate at apex, teeth exceeding anthers; anthers oblong. Inner stamens 3–4 mm; filaments irregularly 2- or 3-lobed at apex; anthers borne near middle of filaments abaxially. Styles 3, subequaling stamens. Capsule brown, hemispheric, ca. 4.5 mm in diam., with persistent, recurved calyx lobes. Fl. Apr–Jun, fr. Aug–Oct.

• *Picea* forests, mixed forests, thickets; 2000–3600 m. W Sichuan, N Yunnan.

37. *Deutzia subulata* Handel-Mazzetti, *Symb. Sin.* 7: 439. 1931.

钻齿溲疏 zuan chi sou shu

Deutzia glomeruliflora Franchet var. *forrestiana* Zaikonnikova.

Shrubs 1–2.5 m tall. Flowering branchlets 3–10 cm, 2–4(–6)-leaved, stellate hairy. Petiole 1.5–2.5 mm; leaf blade abaxially grayish green, ovate-lanceolate or lanceolate, ovate or broadly so on basal branchlets, 2.5–5 × 1–2 cm, papery, abaxially densely 7–11(–14)-rayed stellate hairy, indumentum continuous, hairs along veins and on young leaf blade usually with central rays, adaxially 5- or 6-rayed stellate hairy, veins in 4–6 pairs, base cuneate or broadly so, margin serrulate, apex acute or acuminate. Cymes aggregate, 5–7 × 3–4 cm, 9–20-flowered; pedicels 3–10 mm. Calyx tube ca. 3.5 × 3 mm; lobes subulate, subequaling tube, slightly leathery, apex acuminate. Petals white, narrowly elliptic, 8–12 × 3–5 mm, margin crisped, apex acute. Outer stamens 5–7 mm; filaments 2-dentate at apex, teeth ± level with or exceeding anthers; anthers stalked, oblong. Inner stamens 4–6 mm; filaments obtuse or acute at apex; anthers borne near apex of filaments abaxially. Styles 3 or 4, 4–6 mm. Capsule gray-brown, hemispheric, 4–4.5 mm in diam., with persistent, recurved calyx lobes. Fl. Jun–Jul, fr. Aug–Oct.

• Forest margins, thickets, mountain slopes; 2000–2500 m. S Sichuan, NW Yunnan.

38. *Deutzia longifolia* Franchet, *Nouv. Arch. Mus. Hist. Nat.*, sér. 2, 8: 235. 1886.

长叶溲疏 chang ye sou shu

Shrubs 2–2.5 m tall. Flowering branchlets 5–15(–20) cm, 4–6-leaved. Petiole 3–8 mm; leaf blade abaxially grayish green, lanceolate or elliptic-lanceolate, 3–11 × 1–4 cm, leathery, abaxially densely 8–12-rayed stellate hairy, hairs along veins with central rays, adaxially sparsely 4–6(or 7)-rayed stellate hairy, veins in 4–6 pairs, base cuneate or broadly so, margin serrulate, apex acuminate. Cymes 4.5–8 × 2.5–6 cm, 9–12-flowered; pedicels 3–12 mm. Calyx tube 3.5–4.5 × 3–4 mm, densely grayish 12–14-rayed stellate hairy; lobes lanceolate, oblong-lanceolate, deltoid, or long deltoid, shorter than or subequaling tube, leathery, 1–3-veined. Petals purplish, elliptic or obovate-elliptic, 1–1.3 cm × 6–8 mm. Outer stamens 5–9 mm; filaments 2-dentate at apex, teeth ± level with or exceeding anthers; anthers stalked, oblong. Inner stamens 4–7 mm; filaments obtuse or unequally 2- or 3-lobed at apex; anthers borne near middle of filaments abaxially. Styles 3 or 4(–6), subequaling stamens. Capsule brown, hemispheric, ca. 5 mm in diam., with persistent, recurved calyx lobes. Fl. Jun–Aug, fr. Sep–Nov.

• Forests, thickets, mountain slopes, stream banks; 1800–3200 m. Gansu, Guizhou, Sichuan, Yunnan.

1a. Leaf blade 5–11 × 1.5–4 cm; corolla 2–2.4 cm in diam.; calyx tube ca.

4.5 × 4 mm, lobes lanceolate or oblong-

lanceolate, subequaling tube 38a. var. *longifolia*

1b. Leaf blade 3–5 × 1–1.2 cm; corolla 1.5–2 cm in diam.; calyx tube ca. 3.5 × 3 mm, lobes deltoid or long deltoid, shorter than tube 38b. var. *pingwuensis*

38a. *Deutzia longifolia* var. *longifolia*

长叶溲疏(原变种) chang ye sou shu (yuan bian zhong)

Deutzia longifolia var. *elegans* Rehder; *D. longifolia* var. *veitchii* Rehder.

Leaf blade 5–11 × 1.5–4 cm. Calyx tube ca. 4.5 × 4 mm; lobes lanceolate or oblong-lanceolate, subequaling tube. Corolla 2–2.4 cm in diam. Fl. Jun–Aug, fr. Sep–Nov.

• Forests, thickets, mountain slopes; 1800–3200 m. Gansu, Guizhou, Sichuan, NE Yunnan.

38b. *Deutzia longifolia* var. *pingwuensis* S. M. Hwang, Acta Bot. Austro Sin. 8: 22. 1992.

平武溲疏 ping wu sou shu

Leaf blade 3–5 × 1–1.2 cm. Calyx tube ca. 3.5 × 3 mm; lobes deltoid or long deltoid, shorter than tube. Corolla 1.5–2 cm in diam.

• Thickets, mountain slopes, stream banks; 2300–2900 m. Sichuan, Yunnan.

39. *Deutzia squamosa* S. M. Hwang, Acta Bot. Austro Sin. 8: 19. 1992.

鳞毛溲疏 lin mao sou shu

Deutzia longifolia Franchet var. *densitomentosa* P. He & L. C. Hu.

Shrubs 1–2 m tall. Flowering branchlets 5–15 cm, 4–6-leaved. Petiole 3–5 mm; leaf blade abaxially grayish, lanceolate or elliptic-lanceolate, 5–8 × 1–1.5 cm, leathery, abaxially densely 12–16-rayed stellate hairy, indumentum continuous, hairs without long central rays, adaxially sparsely 6–8-rayed stellate hairy, veins in 4 or 5 pairs, base cuneate, margin serrulate, apex acuminate. Cymes aggregate, 4.5–5 × 3–6 cm, 9–18-flowered; pedicels 1–1.5 cm. Calyx purplish; tube ca. 3 × 3 mm, densely 12–18 rayed stellate hairy; lobes ovate-lanceolate, subequaling tube, leathery, midvein prominent. Petals induplicate, pink, obovate-elliptic, 8–10 × 4–6 mm. Outer stamens ca. 6 mm; filaments 2-dentate at apex, teeth exceeding anthers; anthers stalked, oblong. Inner stamens shorter than outer ones; filaments acute at apex; anthers borne near middle of filaments abaxially. Styles 3, subequaling stamens. Capsule brown, hemispheric, ca. 5 mm in diam., with persistent, recurved calyx lobes. Fl. Jun.

• Mixed forests; ca. 2000 m. S Sichuan (Leibo Xian).

40. *Deutzia zhongdianensis* S. M. Hwang, Acta Bot. Austro Sin. 8: 18. 1992.

中甸溲疏 zhong dian sou shu

Shrubs ca. 1 m tall. Flowering branchlets 18–22 cm, ca. 6-leaved, Petiole 5–10 mm; leaf blade abaxially

brownish, ovate, 5–10 × 2–5 cm, leathery, abaxially densely 8–10(–12)-rayed stellate hairy, hairs along veins with central rays, adaxially sparsely 4- or 5-rayed stellate hairy, veins in 4 or 5 pairs, prominently elevated abaxially, base rounded, rarely broadly cuneate, margin serrulate, apex acuminate. Panicle cymes 6–7 × 5–6 cm, many flowered; pedicels 2–4 mm. Calyx tube ca. 3 × 4 mm, densely 10–12-rayed stellate hairy; lobes oblong-lanceolate, 4–5 mm, leathery. Petals induplicate, white, obovate or elliptic, 7–8 × 4–5 mm, margin crisped, apex obtuse. Outer stamens 6–7 mm; filaments 2-dentate at apex, teeth ± level with anthers, obtuse at apex; anthers stalked, oblong. Inner stamens 4–5 mm; filaments obtuse or 2- or 3 lobed at apex; anthers borne near middle of filaments abaxially. Styles 3, shorter than stamens. Capsule unknown.

• Thickets; 2100–3500 m. NW Yunnan (Zhongdian Xian).

41. *Deutzia nanchuanensis* W. T. Wang, Bull. Bot. Res., Harbin 3(2): 85. 1983.

南川溲疏 nan chuan sou shu

Deutzia jinyangensis P. He & L. C. Hu.

Shrubs 1.5–2.5 m tall. Flowering branchlets purplish, 5–8 cm, 4–6 leaved. Petiole 2.5–5(–10) mm; leaf blade abaxially yellowish brown, oblong-lanceolate or lanceolate, 5–7(13) × 1.6–3(–4.5) cm, thinly leathery or papery, abaxially sparsely appressed 7–9(–13)-rayed stellate hairy, indumentum discontinuous, hairs along veins with central rays, adaxially sparsely 4–6-rayed stellate hairy, veins in 5 or 6 pairs, base cuneate or broadly so, margin serrulate, apex acute or abruptly acuminate. Cymes 3–8 × 4–7 cm, 15–50-flowered; pedicels 3–14 mm. Calyx purplish; tube ca. 3.5 × 3 mm, gray stellate hairy; lobes lanceolate or elliptic-lanceolate, ca. 3.5 mm, leathery, midvein prominent. Petals induplicate, pink, oblong, 1–1.2 cm × 4–5 mm, margin crisped, apex rounded or acute. Outer stamens 6–7 mm; filaments 2-dentate at apex, teeth ± level with or exceeding anthers; anthers stalked. Inner stamens shorter than outer ones; filaments 2-lobed or obtuse at apex; anthers borne near middle of filaments abaxially. Styles 3, subequaling stamens. Capsule brown, hemispheric, ca. 4 mm, with persistent, recurved calyx lobes. Fl. Jun.

• Forests, mixed thickets, mountain slopes. SE Sichuan, NE Yunnan.

42. *Deutzia purpurascens* (Franchet ex L. Henry) Rehder in Sargent, Pl. Wilson. 1: 19. 1911.

紫花溲疏 zi hua sou shu

Deutzia discolor Hemsley var. *purpurascens* Franchet ex L. Henry, Jardin 8: 147. 1894.

Shrubs 1–2 m tall. Flowering branchlets 5–12 cm, 2–4-leaved. Petiole 2–6 mm; leaf blade abaxially greenish, broadly ovate-lanceolate or ovate-oblong, 4–9.5 × 2–2.8 cm, thinly leathery or papery, abaxially sparsely 4–8(–10)-rayed stellate hairy, hairs along veins with

central rays, adaxially sparsely 3–5-rayed stellate hairy, hairs with central rays, veins in 4 or 5 pairs, base broadly cuneate or rounded, margin serrulate, apex acuminate, rarely acute. Corymbose cymes 4–6 × 5–7 cm, 3–12-flowered; pedicels 0.5–3 cm. Calyx tube 2.5–3.5 × ca. 4 mm; lobes lanceolate or oblong-lanceolate, 4–4.5 mm, leathery. Petals induplicate, pink, obovate or oblong, 1.2–1.7 cm × 5–8 mm, apex obtuse. Outer stamens 5–8 mm; filament teeth exceeding anthers; anthers stalked, oblong. Inner stamens shorter than outer ones; filaments 2-lobed at apex; anthers borne near middle of filaments abaxially. Styles 3 or 4, subequaling stamens. Capsule hemispheric, ca. 4.5 mm in diam., with persistent, recurved calyx lobes. Fl. Apr–Jun, fr. Jun–Oct.

Thickets; 2600–3500 m. Sichuan, SE Xizang, Yunnan [India, Myanmar].

43. *Deutzia calycosa* Rehder in Sargent, Pl. Wilson. 1: 149. 1912.

大萼溲疏 da e sou shu

Shrubs ca. 2 m tall. Flowering branchlets purplish brown, 5–7.5 cm, 2–4-leaved. Petiole 3–5 mm; leaf blade abaxially grayish green or gray, adaxially greenish, ovate-lanceolate, ovate-oblong, ovate, or broadly ovate, 1.5–8(–10) × 0.8–3.5 (–4.5) cm, leathery, papery, or thinly papery, abaxially sparsely 7–10(–12)-rayed stellate hairy, adaxially sparsely 4–6-rayed stellate hairy, hairs sometimes with central rays on both surfaces, veins in 5 or 6 pairs, base rounded or broadly cuneate, margin sparsely serrate or densely serrulate, apex acuminate. Corymbose cymes aggregate or spreading, 3–4 × 4–5 cm, 9–12-flowered; peduncle elongate and slender, sometimes obscure; pedicels 0.5–1.5(–2) cm. Calyx tube 3–3.5 × 3.5–4 mm, densely 8–10-rayed stellate hairy; lobes lanceolate or oblong-lanceolate, 5–8 × ca. 1.5 mm, membranous. Petals induplicate, white or pink, ovate-oblong, 0.8–1.5 × 0.4–1.1 cm. Outer stamens 6–8 mm; filaments 2-dentate at apex, teeth spreading, ± level with anthers. Inner stamens shorter than outer ones; filaments obtuse, acuminate, or 2-lobed, at apex; anthers borne near middle of filaments abaxially. Styles 3(or 4), subequaling stamens. Capsule globose, ca. 4 mm in diam., with persistent, recurved calyx lobes. Fl. Mar–Apr, fr. Jul–Aug.

• Mixed forests, forest margins, thickets, mountain slopes; 1400–3000 m. SW Sichuan, Yunnan.

1a. Leaf blade papery or leathery; petals 1.2–1.5 × 0.8–1.1 cm 43c. var. *macropetala*

1b. Leaf blade thinly papery; petals 0.8–1.2 × 0.4–0.8 cm.

2a. Leaf blade ovate-lanceolate or ovate-oblong, 5–8(–10) × 1.2–3.5(–4.5) cm, margin sparsely serrate 43a. var. *calycosa*

2b. Leaf blade ovate or broadly so, 1.5–2.7 × 0.8–1.2 cm, margin densely serrulate 43b. var. *xerophyta*

43a. *Deutzia calycosa* var. *calycosa*

大萼溲疏(原变种) da e sou shu (yuan bian zhong)

Deutzia calycosa var. *brachytricha* Handel-Mazzetti; *D. calycosa* var. *longisepala* Zaikonnikova.

Leaf blade ovate-lanceolate or ovate-oblong, 5–8(–10) × 1.2–3.5(–4.5) cm, thinly papery, margin sparsely serrate. Petals 0.8–1.2 × 0.4–0.8 cm. Fl. Mar–Apr, fr. Jul–Aug.

• Mixed forests, thickets, mountain slopes; 2000–3000 m. SW Sichuan, W Yunnan.

43b. *Deutzia calycosa* var. *xerophyta* (Handel-Mazzetti) S. M. Hwang, Acta Bot. Austro Sin. 8: 26. 1992.

旱生溲疏 han sheng sou shu

Deutzia longifolia Franchet var. *xerophyta* Handel-Mazzetti, Symb. Sin. 7: 440. 1931; *D. glomeruliflora* Franchet var. *xerophyta* (Handel-Mazzetti) Zaikonnikova.

Leaf blade ovate or broadly so, 1.5–2.7 × 0.8–1.2 cm, thinly papery, margin densely serrulate. Petals 0.8–1.2 × 0.4–0.8 cm.

• Forest margins, thickets; 1400–1900 m. SW Sichuan (Yanyuan Xian).

43c. *Deutzia calycosa* var. *macropetala* Rehder, J. Arnold Arbor. 1: 208. 1920.

大瓣溲疏 da ban sou shu

Deutzia longifolia var. *grandiflora* Franchet ex H. Léveillé; *D. longifolia* var. *macropetala* (Rehder) Zaikonnikova.

Leaf blade papery or leathery, abaxially stellate hairy, hairs without central rays. Calyx similarly stellate hairy. Petals 1.2–1.5 × 0.8–1.1 cm.

• Forests; 1400–2300 m. Yunnan.

44. *Deutzia crassifolia* Rehder in Sargent, Pl. Wilson. 1: 148. 1912.

厚叶溲疏 hou ye sou shu

Deutzia crassifolia var. *pauciflora* (Rehder) S. M. Hwang; *D. pauciflora* (Rehder) Zaikonnikova; *D. purpurascens* (Franchet ex L. Henry) Rehder var. *pauciflora* Rehder.

Shrubs semievergreen, 1–3 m tall. Flowering branchlets 2–4 cm, stellate hairy, hairs with papilliform base. Petiole 1–5 mm; leaf blade abaxially red-brown, adaxially green, ovate or oblong-ovate, 1.5–9 × 1–4.5 cm, leathery or papery, abaxially 5–8-rayed stellate hairy, adaxially reticulate rugose when dry, 4- or 5-rayed stellate hairy, veins in 5 or 6 pairs, elevated abaxially, impressed adaxially, base rounded, margin thorny serrate or serrulate, apex acuminate. Cymes 2–3 × 3–4 cm, 1–35-flowered; pedicels 3–10 mm. Calyx tube gray-green, ca. 3.5 × 2.5 mm, appressed 7- or 8-rayed

stellate hairy; lobes ovate or deltoid, rarely ovate-oblong, 1.5–2 × ca. 2 mm, apex obtuse or acute. Petals induplicate, white, elliptic or oblong, 6–8 × 3–5 mm. Outer stamens 5–6 mm, filaments 2-dentate at apex, teeth ± level with or exceeding anthers. Inner stamens 4–5 mm; anthers borne near middle of filaments abaxially, stalked. Styles 3 or 4, 2.5–3 mm, glabrous. Capsule dark gray, subglobose, ca. 4 mm in diam., with persistent, incurved calyx lobes. Fl. Mar–Apr, fr. May–Jun.

• Forests, valleys; 1700–2400 m. Xizang, S Yunnan.

45. *Deutzia multiradiata* W. T. Wang, Bull. Bot. Res., Harbin 3(2): 84. 1983.

多辐线溲疏 duo fu xian sou shu

Deutzia nitidula W. T. Wang.

Shrubs ca. 3 m tall. Flowering branchlets purplish brown, terete, 4–12 cm, 4–6-leaved. Petiole 3–5 mm; leaf blade abaxially grayish, adaxially glossy, ovate-lanceolate or ovate, 3.5–5.5 × 1.7–2.3 cm, leathery, abaxially densely 8–16-rayed stellate hairy, indumentum continuous, adaxially 5–7-rayed stellate hairy, veins in 4 or 5 pairs, reticulate veins sparsely conspicuous on both surfaces, base rounded or broadly cuneate, margin sparsely serrulate or slightly revolute, apex acuminate or caudate. Cymes 3–4 × 3–4.5 cm, 12–19-flowered; pedicels 3–6 mm. Calyx tube ca. 2.5 × 3 mm, densely 12–16-rayed stellate hairy; lobes deltoid, ca. 1 × 1 mm. Petals induplicate, white, oblong, ca. 6 × 3 mm. Outer stamens ca. 4 mm; filaments 2-dentate at apex, ± level with anthers. Inner stamens ca. 3.5 mm; anthers borne near middle of filaments abaxially, stalked. Styles 3, ca. 3.5 mm. Capsule unknown. Fl. Apr–Jun.

• Mixed forests, mountain slopes, roadsides; 500–1600 m. SE Sichuan (Nanchuan Xian).

46. *Deutzia coriacea* Rehder in Sargent, Pl. Wilson. 1: 9. 1911.

革叶溲疏 ge ye sou shu

Shrubs ca. 1 m tall. Flowering branchlets grayish brown or yellow-brown, angular, glabrous. Petiole 5–7 mm; leaf blade abaxially yellow-green, adaxially glossy, ovate or ovate-lanceolate, 3–5.5 × 2–3 cm, leathery, abaxially sparsely 5–7-rayed stellate hairy, adaxially glabrous or sparsely 4- or 5-rayed stellate hairy, veins in 4–6 pairs, base rounded or broadly cuneate, margin thorny serrate and slightly revolute, apex acuminate or caudate. Flowers unknown. Fruiting cymes ca. 3 × 2 cm, 9–18-fruited. Capsule globose, ca. 4 mm, with persistent, incurved or erect calyx lobes; pedicel 1–1.5 cm. Fr. Jun.

• Thickets, mountain slopes, calcareous soils; ca. 600 m. E Sichuan (Wuxi Xian).

47. *Deutzia pilosa* Rehder in Sargent, Pl. Wilson. 1: 8. 1911.

褐毛溲疏 he mao sou shu

Deutzia pilosa var. *longiloba* P. He & L. C. Hu; *D. pilosa* var. *longiloba* W. T. Wang ex S. M. Hwang (1992), not P. He & L. C. Hu (1990).

Shrubs 1–1.8 m. Flowering branchlets 6–8 cm, 4–6-leaved, stellate hairy, hairs with long central rays. Petiole 1–3 mm; leaf blade abaxially greenish, ovate, ovate-lanceolate, or oblong-ovate, 3–9.5 × 1.5–5 cm, papery, abaxially 6- or 7- (or 8)-rayed stellate hairy, hairs with long central rays, adaxially 4- or 5- (or 6)-rayed stellate hairy, veins in 3 or 4 pairs, reticulate veins slightly sparse, elevated abaxially, base rounded or broadly cuneate, margin serrulate, apex acuminate or caudate. Corymbose cymes 3–5 × 4–6 cm, 3- or 4-flowered; pedicels 3–10 mm. Calyx tube ca. 3 × 3.5 mm, densely 8–12-rayed stellate hairy, hairs with central rays; lobes ovate or ovate-lanceolate, 1.5–4 mm, apex acute or acuminate. Petals induplicate, white, ovate-oblong, 8–10 mm. Outer stamens 4–5 mm; filaments 2-dentate at apex, teeth spreading, exceeding anthers. Inner stamens 3–4 mm; filaments 2-lobed or acuminate at apex; anthers borne near middle on filaments abaxially. Styles 3 (or 4), ca. 2.5 mm. Capsule subglobose, ca. 5 mm in diam., with persistent, incurved calyx lobes. Fl. Apr–May, fr. Jun–Aug.

• Forest margins, mountain slopes; 400–2000 m. Gansu, Guizhou, ?Shaanxi (Qin Ling), Sichuan, Yunnan.

48. *Deutzia esquirolii* (H. Léveillé) Rehder, J. Arnold Arbor. 14: 202. 1933.

狭叶溲疏 xia ye sou shu

Styrax esquirolii H. Léveillé, Repert. Spec. Nov. Regni Veg. 9: 446. 1911; *Deutzia chaffanjonii* H. Léveillé; *D. lanceifolia* Rehder.

Shrubs 1–2 m tall. Flowering branchlets purple, 8–11 cm, 4–6-leaved, sparsely stellate hairy. Petiole 3–4 mm; leaf blade abaxially greenish, lanceolate or narrowly so, 2.5–4.5 cm × 4–6 (–12) mm, papery, abaxially 5–7-rayed stellate hairy, indumentum discontinuous, adaxially sometimes rugose, sparsely 4 (or 5)-rayed stellate hairy, veins in 4 or 5 pairs, base cuneate, margin serrulate, apex acuminate or narrowly so. Cymes 1.5–5 × 2–3 cm, 3–5 (–9)-flowered; peduncle slender; pedicels 4–8 (–15) mm. Calyx tube ca. 4 × 4 mm, densely 4–8-rayed stellate hairy; lobes deltoid, 1–2 mm. Petals induplicate, white, ovate-oblong, 5–8 × 4–5 mm. Outer stamens 4–5 mm; filament teeth exceeding anthers; anthers stalked, globose. Inner stamens 3–4 mm; filaments acuminate or unequally 2- or 3-lobed at apex; anthers borne near middle of filaments abaxially. Styles 3, 2–3 mm. Capsule subglobose, ca. 3 mm in diam., densely 5–10-rayed stellate hairy, with persistent, incurved calyx lobes. Fl. Apr–May, fr. Sep–Oct.

• Mixed forests, mountain slopes; 1000–2000 m. C Guizhou (Guiyang Shi).

49. *Deutzia cinerascens* Rehder in Sargent, Pl. Wilson. 1: 146. 1912.

灰叶溲疏 *hui ye sou shu*

Shrubs ca. 2 m tall. Flowering branchlets 2–6(–20) cm, 4–6-leaved. Petiole 3–5 mm; leaf blade abaxially grayish green, ovate or ovate-oblong, 3–9 × 1.5–4 cm, papery, abaxially densely 5- or 6-rayed stellate hairy, hairs along veins with central rays, adaxially slightly rugose, 4- or 5(or 6)-rayed stellate hairy, veins in 6–8 pairs, reticulate veins conspicuously elevated abaxially, base rounded or subcordate, margin serrulate, apex acuminate. Cymes aggregate, 1.5–8 × 3–10 cm, 12–100-flowered; pedicels 1–2 mm. Calyx purple; tube ca. 3 × 3 mm; lobes ovate-deltoid or ovate, 1–1.5 mm, apex acute or acuminate. Petals induplicate, white, ovate-oblong, 3–4.5 mm, margin erose. Outer stamens 2–2.5 mm; filament teeth ± level with anthers; anthers stalked, ovoid. Inner stamens shorter than outer ones; filaments obtuse, erose, or 2-lobed at apex; anthers borne near middle or near apex of filaments abaxially. Styles 3, 2–2.5 mm, subequaling stamens. Capsule unknown.

• Thickets, river banks. W Guizhou (Zhenning Bouyei-Miao Zu Zizhixian).

50. *Deutzia setchuenensis* Franchet, J. Bot. (Morot) 10: 282. 1896.

四川溲疏 *si chuan sou shu*

Shrubs ca. 2 m tall. Flowering branchlets brown or yellow-brown, 8–12(–20) cm, 4–6-leaved. Petiole 3–5 mm; leaf blade abaxially yellow-green or greenish when dry, ovate, ovate-oblong, or -lanceolate, 3–8 × 1–5 cm, papery or membranous, abaxially 4–7(or 8)-rayed stellate hairy, hairs with papilliform base, adaxially 3–5(or 6)-rayed stellate hairy, hairs rarely with central rays, veins in 3 or 4 pairs, conspicuously elevated abaxially, base rounded or broadly cuneate, margin serrulate, apex acuminate. Cymes few to many branched, 1.5–6 × 2–8 cm, 6–50-flowered; peduncle slender; pedicels 3–10 mm. Calyx tube ca. 3 × 3 mm, densely 10–12-rayed stellate hairy; lobes broadly deltoid, ca. 1.5 × 2–3 mm, apex acute. Petals induplicate, white, ovate-oblong, 5–12 × 2–3 mm. Outer stamens 5–6 mm, filament teeth spreading, oblong or lanceolate, ± level with or exceeding anthers. Inner stamens shorter than outer ones; filaments 2-lobed at apex; anthers borne near middle of filaments abaxially. Styles 3. Capsule globose, 4–5 mm in diam., with persistent, incurved calyx lobes. Fl. Apr–Jul, fr. Jun–Sep.

• Dense forests, thickets, mountain slopes; 300–2000 m. W Fujian, N Guangdong, N Guangxi, Guizhou, Hubei, Hunan, Jiangxi, W Sichuan, NW Yunnan.

1a. Cymes many branched, 4–6 × 5–8 cm, 12–50-flowered 50c. var. *corymbiflora*

1b. Cymes few branched, 1.5–4 × 2–5 cm, 6–12-flowered.

2a. Outer filament teeth oblong, ± level with anthers 50a. var. *setchuenensis*

2b. Outer filament teeth lanceolate, exceeding anthers 50b. var. *longidentata*

50a. *Deutzia setchuenensis* var. *setchuenensis*

四川溲疏(原变种) *si chuan sou shu* (yuan bian zhong)

Deutzia bodinieri Rehder; *D. cyanocalyx* H. Léveillé; *D. leiboensis* P. He & L. C. Hu; *D. pilosa* Rehder var. *ochrophloeos* Rehder.

Cymes few branched, 1.5–4 × 2–5 cm, 6–12-flowered. Outer filament teeth oblong, ± level with anthers. Fl. Apr–Jul, fr. Jun–Sep.

• Thickets, mountain slopes; 300–2000 m. W Fujian, N Guangdong, N Guangxi, Guizhou, Hubei, Hunan, Jiangxi, NW Yunnan.

50b. *Deutzia setchuenensis* var. *longidentata* Rehder in Sargent, Pl. Wilson. 1: 8. 1911.

长齿溲疏 *chang chi sou shu*

Cymes few branched, 1.5–4 × 2–5 cm, 6–12-flowered. Outer filament teeth lanceolate, exceeding anthers. Fl. Apr–Jul.

• Thickets, mountain slopes. W Sichuan.

50c. *Deutzia setchuenensis* var. *corymbiflora* (Lemoine ex André) Rehder in Sargent, Pl. Wilson. 1: 9. 1911.

多花溲疏 *duo hua sou shu*

Deutzia corymbiflora Lemoine ex André, Rev. Hort. 69: 401. 1898; *D. fargesii* Franchet.

Cymes many branched, 4–6 × 5–8 cm, 12–50-flowered. Fl. May, fr. Jul–Aug.

• Dense forests; 800–1500 m. Hubei, Sichuan.

