

Species of *Styrax* in Herb. Léveillé.

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THE following notes are in the nature of a supplement to the preceding paper on the Asiatic *Styracaceae*. They give the results of a survey of the species of *Styrax* described or recorded from China by the late Monseigneur Léveillé. The meagreness of the material on which Léveillé founded many of his species and the correspondingly inadequate descriptions render it difficult for any botanist to appraise the validity or sometimes even to recognise the affinity of the species concerned. The possession of the types makes a review of his species possible, but many of these must still be classed among the "imperfectly known." Of his species of *Styrax* there are one or two which I can neither relegate to a previously known species nor confirm the validity of. In his floras of Kweichow and of Yunnan Léveillé has recorded various species of *Styrax*. In so far as these are represented in his collection I have given an opinion as to the correctness or otherwise of the record. One species I have failed to trace—*Styrax Esquirolii*, Lévl. in Fedde, Repert., ix (1911), 446. It is not in his herbarium. In his Flore du Kouy-Tchéou this species is omitted from the key and from the list of his species of *Styrax*, perhaps by accident or possibly by design. The double omission suggests that the specimen may have been lost—it is No. 22 Esquirol, one of that collector's earliest specimens—or the validity of the species perhaps became a matter of doubt to the author. If Esquirol's number is not in any other herbarium the species is fated to remain a dubious quantity.

The following is the list of the named species of *Styrax* in Léveillé's herbarium. I have appended my comments on each species. I have failed to come to any definite decision regarding *S. Argyi*, Lévl. and *S. Cavaleriei*, Lévl.

1. *S. Argyi*, Lévl. in Fedde, Repert., xi (1912), 64. Type. Province of Kiangsu. Coll. d'Argy.

There are no details of locality or date. Material consists of twigs with fruits and of twigs with flowers in bud only.

[Notes, R.B.G., Edin., No. LIX, May 1920.]

Probably a form of *S. Faberi*, Perk., but the specimens are too incomplete to warrant a decision.

2. *S. Bodinieri*, Lév. in Fedde, Repert., iv (1907), 332. Type. Province of Kweichow. "Environs de Kouy-Yang, mont du Collège; grande arbuste à fleurs blanches odorantes; fin avril 1898. No. 2221. Emile Bodinier."

This is *S. japonicus*, Sieb. et Zucc. The stamens are not glabrous.

3. *S. Cavaleriei*, Lév. in Fedde, Repert., iv (1907), 331. Type. Province of Kweichow. "Long-ly, 7 mai 1903; fl. blanches. No. 997. Jul. Cavalerie."

This is closely allied to *S. grandiflorus*, Griff., differing in the more glabrous pedicels and more deeply cut calyx. It may be only a form of that species, but without more material than the one twig available I can only leave the point undecided.

4. *S. hypoglaucus*, Perk. Recorded for Province of Kweichow in Léveillé's Flore du Kouy-Tchéou, p. 407. "Environs de Kouy-Yang, mont du Collège; arbuste; fleurs blanches, odorantes; fin avril 1898. Emile Bodinier. No. 2222."

This is not *S. hypoglaucus*, Perk. It belongs to the section *Valvatae*, closely allied to *S. dasyanthus*, Perk. and probably only a form of it.

5. *S. japonicus*, Sieb. et Zucc. Korea: "Quelpaert, Taquet, Nos. 1109, 3033, 3034; U. Faurie, Nos. 725, 726, 727, 729, 1876." Kweichow:—"Pinfa, bois, petit arbre; août 1908. J. Cavalerie. No. 3319."

These are all referable to the species.

6. *S. Leveillei*, Fedde ex Lév., Flore du Kouy-Tchéou (1915), 407.

S. Cavaleriei, Lév. in Fedde, Repert., ix (1911), 447, nec *S. Cavaleriei*, Lév. in Fedde, Repert., iv (1907), 331.

In describing this plant Léveillé overlooked the fact that he had given the name of *S. Cavaleriei* to an entirely different plant four years before. As it happens his type plant is *Pterostyrax hispidus*, Sieb. et Zucc. Therefore all that is necessary is to transfer Léveillé's original name for this plant and Fedde's emendation to the synonymy of *Pt. hispidus*.

7. *S. Obassia*, Sieb. et Zucc. "Korea:—Quelpaert. Taquet, Nos. 1108, 3035, 3036; U. Faurie, Nos. 728, 1875."

This is the species.

8. *S. odoratissimus*, Champ. "Hong-kong. Bel arbuste, souvent d'assez grande taille, à belles fleurs blanches; ça et là dans la mont.; spécial à l'île. 3 avril 1899. Emile Bodinier. No. 1099."

This is the species.

9. *S. prunifolius*, Perk. Yunnan:—"Nord; petit arbre—feuilles caduques, fl. blanches pendantes; forêts de montagnes à Ku-long-tchang; alt. 800 m. E. E. Maire."
"Nord; arbre moyen—feuilles caduques, fleurs decombantes—blanches; forêts des collines à Long-ky; alt. 750 m. E. E. Maire."

"Kweichow:—Gan chouen; mai 1912. J. Cavalerie. No. 3319."

"Kien-lin-chang, mai 1904. J. Esquirol. No. 21."

Recorded by Léveillé for Yunnan and Kweichow.

All are referable to *S. japonicus*, Sieb. et Zucc. *S. prunifolius*, Perk. is a synonym of *S. odoratissimus*, Champ. according to Perkins, *Styracaceae*, p. 69.

10. *S. suberifolius*, Hook. et Arn. "Hong-kong; grand arbuste commun dans les bois, la mont.; spécial au sud de la Chine. Emile Bodinier. No. 1122."

This is the species.

11. *S. touchanensis*, Lévl. in Fedde, Repert., xi (1912), 64. Type. Province of Kweichow. "Tou-chan, avril 1902. E. Bodinier." "Diffère du *Bodinieri* par calice velu et par calice et pedicelles blanchâtres."

This is *S. grandiflorus*, Griff.