Buddleja davidii Butterfly bush

Introduction

The genus *Buddleja* includes 100 species occurring from tropical to temperate regions of the Americas, Africa and Asia^[86]. Twenty-nine species and 4 varieties occur in most provinces of China except Xinjiang and those of northeastern China.



Species of Buddleja in China

Scientific Name	Scientific Name		
<i>B. adenantha</i> Diels	<i>B. hastata</i> Prain ex Marq. [†]		
<i>B. alata</i> Rehd. & Wilson [†]	<i>B. heliophila</i> W. W. Smith [†]		
<i>B. albiflora</i> Hemsl.	<i>B. limitallea</i> W. W. Smith [†]		
<i>B. alternifolia</i> Maxim. [†]	<i>B. lindleyana</i> Fortune		
<i>B. asiatica</i> Lour.	B. macrostachya Wall. ex Benth.		
B. brachystachya Diels	B. madagascariensis Lamk.		
<i>B. candida</i> Dunn	<i>B. myriantha</i> Diels		
<i>B. caryopteridifolia</i> W. W. Smith [†]	<i>B. nivea</i> Duthie		
B. colvilei Hook.f. & Thoms.	B. officinalis Maxim.		
<i>B. crispa</i> Benth.	<i>B. paniculata</i> Wall.		
B. curviflora Hook. & Arn.	B. purdomii W. W. Smith [†]		
B. davidii Franch.	B. taliensis W. W. Smith [†]		
B. delavayi Gagnep.	<i>B. wardii</i> Marq. [†]		
B. fallowiana Balf. f. & W.W. Smith	B. yunnanensis Gagnep. [†]		
B. forrestii Diels			
Not included or accepted as hybrid in revised <i>Flora</i> of <i>China</i> ^[88]			

Leaves and flowers of *Buddleja davidii*. (Photo by Richard A. Casagrande, University of Rhode Island.)

becoming glabrous, with 9-14 lateral veins. Ovate or semicircular, and occasionally caducous, two stipules may be present between the leafstalks, which are 1-5 mm long. Flowering from May to October, the inflorescence occurs terminally as a raceme or in a panicle-like cyme arrangement, 4-30 cm long and 2-5 mm wide. The calyx is bell-shaped and 2-3 mm long. Each lobe is membranous and triangular. The fragrant corollas are 7.5-14 mm long, light violet, then yellowish white to white, with an orange-yellow throat and suborbicular lobes. The fruit is a capsule, which is narrowly ellipsoid to narrowly ovoid, 5-9 mm long and 1.5–2 mm wide, appearing from September to December. Seeds are ellipsoid, 2-4 mm in length and about

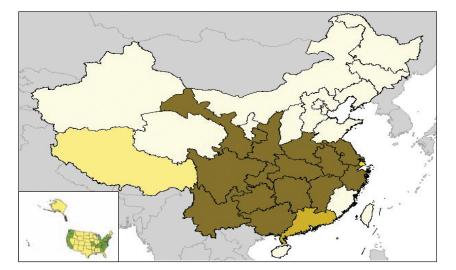
[†] Not included or accepted as hybrid in revised *Flora of China*^[88]

Taxonomy

Family: Loganiaceae Genus: *Buddleja* L.

Description

B. davidii is a shrub 1-5 m in height. The branches are somewhat drooping. Most parts of the plant are covered with white stellate hairs. Opposite leaves are membranous or thin papery, narrowly ovate, narrowly elliptic to ovate-lance shaped, 1-20 cm long and 0.3-7.5 cm wide, with serrate margin, acuminate apex, and base obtuse to broadly cuneate. The upper leaf surface is hair-covered



0.5 mm in diameter, with long wings at both ends^{[88][86]}.

Habitat

B. davidii occurs in thickets on hillsides and trenches, at elevations of 800-3,000 m^[86].

Distribution

B. davidii occurs in Anhui, Gansu, Guizhou, Henan, Hubei, Hunan, Jiangsu,

Fungi

Jiangxi, Shaanxi, Sichuan, Yunnan, Zhejiang, and possibly Guangdong [26][31][50][88][86][156][162].

Economic Importance

The entire plant is used medicinally. Fragrant essential oils can be extracted from the flower. It is also grown as an ornamental plant for its graceful flowers and down-swept twigs ^[86].

Natural Enemies of Buddleja

Three fungi and thirteen arthropods are reported for *Buddleja* speceis. One fungal species, *Pseudocercospora buddleiae*, is reported to infect *B. davidii*.

Phylum	Family	Species	H. R.	Ref.
Ascomycota	Meliolaceae	Irenina buddlejae Hansf.	00	23
		<i>Pseudocercospora buddleiae</i> (W. Yamam.) Goh & W.H. Hsieh	00	23†
Anamorphic Mycosphaerella	0		110	
		Septoria merrillii Syd.	mo	23

[†]Recorded as *Cercospora buddlejae* Yamam

Arthropods

Order	Family	Species	H. R.	Ref.
	Hemipyxis lusca (Fabricius)	ро	185	
			ро	65
Coleoptera Chrysomelidae	Hemipyxis plagioderoides (Motschulsky)		158	
		Hemipyxis tonkinensis (Chen)	ро	185
		Hespera bipilosa Chen et Wang	00	140
		Hespera univestis Chen et Wang	00	140
		Stenoluperus nipponensis (Laboissiere)	р	65
	Chrysomelidae		ро	140
				158
		Tugebugn hthoug hidentata Chon at Wong	00	140
		Trachyaphthona bidentata Chen et Wang		185
		Trachyaphthona buddlejae Wang	ро	185
		Trachuanhthong anguag (Chan)	00	140
		Trachyaphthona cyanea (Chen)		185
		Trachyaphthona fulva Wang	00	140
Homoptera	Pseudococcidae	Pedronia planococcoides Borchsenius	ро	150
	rseudococcidae	Planococcus sinensis Borchsenius	ро	150
Thysanoptera	Thripidae	Dendrothrips stannardi (Ananthakrishnan)	ро	56