

Albizia julibrissin

Mimosa, silk tree

Introduction

The genus *Albizia* (also *Albizzia*) consists of approximately 150 species distributed in Asia, Africa, Australia, and tropical and subtropical America. Most species are deciduous woody trees and shrubs. They are easily identified by their bipinnately compound leaves. Several *Albizia* species are planted as ornamentals or as a source of tannin extracts. Seventeen species of *Albizia* occur in China, primarily in the southwestern, southern, and southeastern provinces [74][155].

Species of *Albizia* in China^[155]



long, 1-4 mm wide, and obliquely acute towards the apex. From June to July, a head inflorescence of attractive pink flowers is produced at the top of the

Leaves and fruits of *Albizia julibrissin*. (Photo by Chuck Bargeron, UGA.)

northeastern, southwestern, and southern China^[155]. Due to its wide cultivation, *A. julibrissin* can be found in almost every province except Hainan^[159], Inner Mongolia^[119], Heilongjiang^[45], and Jilin provinces^[45].

Economic Importance

Because of its graceful flowers and umbrella-like canopy, *Albizia julibrissin* has been widely planted as an ornamental tree for landscaping along roads. Its wood can be used for building and

Scientific Name	Scientific Name
<i>A. attopeuensis</i> (Pierre) Nielsen	<i>A. kalkora</i> (Roxb.) Prain
<i>A. bracteata</i> Dunn	<i>A. lebbeck</i> (Linn.) Benth.
<i>A. calcarea</i> Y. H. Huang	<i>A. lucidior</i> (Steud.) Nielsen
<i>A. chinensis</i> (Osbeck) Merr.	<i>A. mollis</i> (Wall.) Boiv.
<i>A. corniculata</i> (Lour.) Druce	<i>A. odoratissima</i> (Linn. f.) Benth.
<i>A. crassiramea</i> Lace	<i>A. procera</i> (Roxb.) Benth.
<i>A. duclouxii</i> Gagnep.	<i>A. sherriffii</i> Baker
<i>A. falcataria</i> (Linn.) Fosberg	<i>A. simeonis</i> Harms
<i>A. julibrissin</i> Durazz.	

Taxonomy:

FAMILY: Leguminosae
(Fabaceae)

Genus: *Albizia* Durazz.

Description

Albizia julibrissin is a woody tree with a spreading crown and ridged twigs. It can grow to 16 m tall at maturity. The stems contain many stiff, appressed hairs. Leaves are fern-like, bipinnately compound with 4-12 pairs of pinnae (sometimes 20 pairs in cultivated specimens), with linear lance-shaped stipules and one gland near the base of the rachis (central petiole). Each pinna consists of 10-30 pairs of linear to oblong leaflets that are 6-12 mm

branch. The calyx is 3 mm long and tube-like; the corolla is 8 mm long and tri-lobed. The seeds are contained in elongate, flattened pods that mature from August to October, measuring 9-15 cm long and 1.5-2.5 wide^[155].

Habitat

Mimosa trees often grow on hillsides, in valleys, and on plains. Because it is fast-growing and drought-tolerant, *A. julibrissin* is also widely planted along roadways or in gardens for ornamental purposes. It is also grown in sandy areas to prevent erosion^{[74][111][155]}.

Distribution

A. julibrissin's native range covers

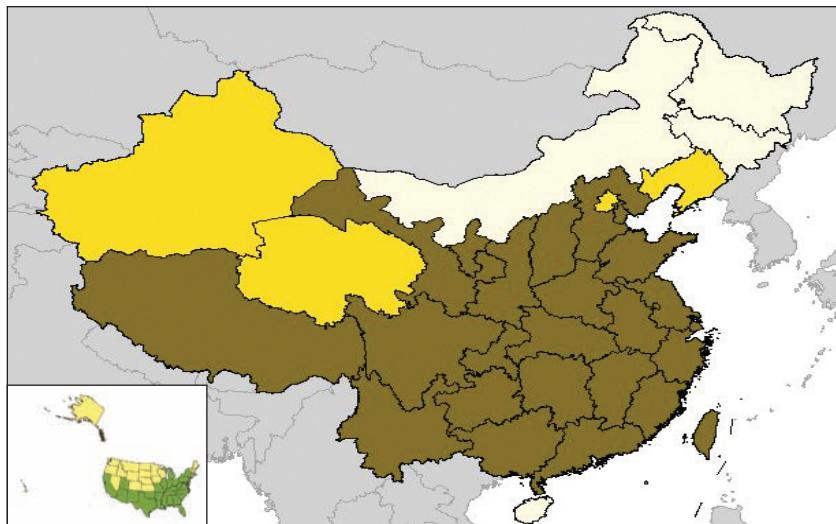


A. julibrissin flowers. (Photo Ted Bodner, Southern Weed Science Society.)

furniture-making. The young leaves are edible. The bark has been utilized as an insect repellent, and as medicine [74] [155].

Related Species

As a cultivated variety, *A. julibrissin* Durazz f. *rosae* (Carr.) Rehd grows in a relatively small form and produces light pink flowers. *Albizia chinensis* (Osbeck) Merr., with similar economic importance to *A. julibrissin*, is distinguished from mimosa by its semicordate stipules and greenish white flowers. *Albizia chinensis* occurs in the provinces of Fujian, Guangdong, Guangxi, Hunan, Tibet, and Yunnan^[155].



Seventy-five arthropod species belonging to 27 families and 6 orders are associated with *Albizia* spp. Five insects may be host-specific to *A. julibrissin*.

Natural Enemies of *Albizia*

Nine fungal species are recorded from plants of the genus *Albizia*. *Ravenelia japonica* is known to infect *A. julibrissin*.

Fungi

Phylum	Family	Species	H.R.	Ref.
Basidiomycota	Ganodermataceae	<i>Ganoderma tropicum</i> (Jungh.) Bres.	po	23
	Hymenochaetaceae	<i>Phellinus torulosus</i> (Pers.) Bourdot & Galzin	po	23
		<i>Xanthochrous hispidus</i> (Bull.) Pat.	po	23
	Polyporaceae	<i>Lenzites shichiana</i> (Teng & L. Ling) Teng	oo	23
	Raveneliaceae	<i>Ravenelia japonica</i> Dietel & P. Syd.	o	23
		<i>Ravenelia sessilis</i> Berk.	oo	23
	Sphaerophragmiaceae	<i>Sphaerophragmium acaciae</i> (Cooke) Magnus	oo	23
Anamorphic <i>Glomerella</i>		<i>Colletotrichum lebbek</i> (Syd.) Petr.	mo	23
Anamorphic <i>Mycosphaerella</i>		<i>Pseudocercospora glaucae</i> (Syd.) Y.L. Guo & X.J. Liu	mo	23 [†]
			oo	110

[†] Recorded as *Cercospora glauca* Syd.

Arthropods (next page)

Order	Family	Species	H. R.	Ref.
Coleoptera	Bruchidae	<i>Bruchidius terrenus</i> (Sharp)	m	139
		<i>Acalolepta permutans</i> (Pascoe)	po	158
		<i>Cacia cretifera</i> Hope	po	124
		<i>Ceresium leucosticticum</i> White	po	124
		<i>Chlorophorus miwai</i> Gressitt	p	85
		<i>Coptops leucostictica leucostictica</i> White	po	124
			po	124
	Cerambycidae	<i>Dere thoracica</i> White	p	9
			p	85
		<i>Derolus volvulus</i> (Fabricius)	po	9
		<i>Pterolophia rigida</i> (Bates)	p	9
		<i>Rhaphuma horsfieldi</i> (White)	po	124
		<i>Xystrocera festiva</i> Thomson	po	79
	Chrysomelidae	<i>Xystrocera globosa</i> (Olivier)	p	9
			m	85
	Crioceridae		m	65
		<i>Paropsides nigrofasciata</i> (Jacoby)	m	85
			mo	185
	Crioceridae	<i>Sagra fulgida janthina</i> Chen	p	85
	Eumolpidae	<i>Trichochrysea imperialis</i> (Baly)	po	65
			po	139
	Scolytidae	<i>Trichochrysea nitidissima</i> (Jacoby)	po	65
			po	139
Hemiptera	Coreidae	<i>Trypodendron lineatum</i> Olivier	p	85
		<i>Xyleborus andrewesi</i> Blandford	mo	182
			p	85
		<i>Anoplocnemis phasiana</i> (Fabricius)	p	140
			p	192
	Pentatomidae	<i>Homoeocerus striicornis</i> Scott	po	85
		<i>Homoeocerus walkeri</i> Kirby	p	192
		<i>Homoeocerus walkerianus</i> Lethierry et Severin	oo	192
		<i>Sinotagus nasutus</i> Kiritshenko	p	65
	Plataspidae		p	85
		<i>Erthesina fullo</i> (Thunberg)	p	193
		<i>Coptosoma davidi</i> Montandon	m	193
		<i>Coptosoma intermedia</i> Yang	p	193
		<i>Coptosoma notabilis</i> Montandon	p	65
		<i>Megacopta distanti</i> (Montandon)	p	65
Homoptera	Asterolecaniidae	<i>Paracopta maculata</i> Hsiao et Jen	mo	193
		<i>Paracopta rufiscuta</i> Hsiao et Jen	po	193
			p	85
	Coccidae	<i>Russellaspis pustulans</i> (Cockerell)	po	151
		<i>Eulecanium</i> sp.	m	85
	Fulgoridae	<i>Takahashia wuchangensis</i> Tseng	m	85
		<i>Lycorma delicatula</i> (White)	p	140
			p	204
	Lecanodiaspididae	<i>Cosmococcus albizziae</i> Borchsenius	mo	151
	Margarodidae	<i>Laccifer lacca</i> (Kerr)	p	85
	Pseudococcidae	<i>Paraputo albizzicola</i> Borchsenius	mo	150
	Psyllidae	<i>Acizzia albizzicola</i> Li et Yang	mo	140
		<i>Acizzia jamatonica</i> (Kuwayama)	m	65
			m	137
		<i>Psylla yamatonica</i> Kuwayama	m	85

Order	Family	Species	H. R.	Ref.
Isoptera	Termitidae	<i>Odontotermes formosanus</i> (Shiraki)	p	85
	Geometridae	<i>Culcula panterinaria</i> (Bremer et Grey)	p	66
		<i>Semiothisa defixaria</i> Walker	m	85
	Lycaenidae	<i>Amblopala avidiena avidiena</i> (Hewitson)	m	158
		<i>Leptotes plinius</i> (Fabricius)	po	203
		<i>Dinumma deponens</i> Walker	po	65
			po	85
		<i>Enmonodia feniseeca</i> Guenée	po	141
		<i>Hypopyra vespertilio</i> (Fabricius)	po	85*
		<i>Hypospila signipalpis</i> (Walker)	m	65
Lepidoptera	Noctuidae	<i>Selepa celtis</i> Moore	m	85
		<i>Speiredonia martha</i> (Butler)	m	85
			m	209
			m	85
		<i>Speiredonia retorta</i> Linnaeus	m	141
			m	205
		<i>Spirama martha</i> (Butler)	m	65
		<i>Spirama retorta</i> (Linnaeus)	m	65
			m	158
	Nymphalidae	<i>Charaxes bernardus</i> (Fabricius)	po	203
		<i>Neptis hylas</i> (Linnaeus)	p	85
		<i>Neptis sappho intermedia</i> (Pallas)	po	85
		<i>Pantoporia hordonia</i> (Stoll)	po	203
		<i>Polyura athamas</i> (Drury)	po	203
		<i>Polyura eudamippus cupidinus</i> (Fruhstorfer)	po	203
		<i>Polyura eudamippus</i> Doubleday	p	158
		<i>Polyura narcea</i> (Hewitson)	po	158
		<i>Polyura nepenthes</i> (Grose-Smith)	m	158
			p	85
Thysanoptera	Pieridae	<i>Eurema hecabe</i> (Linnaeus)	p	158
		<i>Eurema hecabe hobsoni</i> (Butler)	p	203
	Pyralidae	<i>Longiculcita vinacea abstractella</i> Roesler	po	65
	Saturniidae	<i>Attacus atlas</i> (Linnaeus)	po	65
			p	207
	Tortricidae	<i>Cryptophlebia ombrodelta</i> (Lower)	p	113
		<i>Pandemis corylana</i> (Fabricius)	p	113
	Phlaeothripidae	<i>Haplothrips chinensis</i> Priesner	p	132
		<i>Haplothrips kurdjumovi</i> Karny	p	132
		<i>Ajothrips</i> sp.	m	132
		<i>Frankliniella intonsa</i> (Trybom)	p	132
	Thripidae	<i>Thrips flavus</i> Schrank	p	132
		<i>Thrips florum</i> Schmutz	m	132

* Recorded as *Enmonoda vespertilio* Fabricius