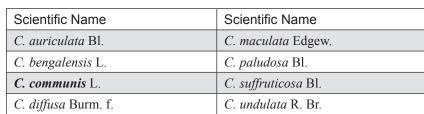
Commelina communis Asiatic dayflower

Introduction

The genus *Commelina* has approximately 100 species worldwide, distributed primarily in tropical and temperate regions. Eight species occur in China^{[60][167]}.

Species of *Commelina* in China





Family: Commelinaceae **Genus:** *Commelina* L.

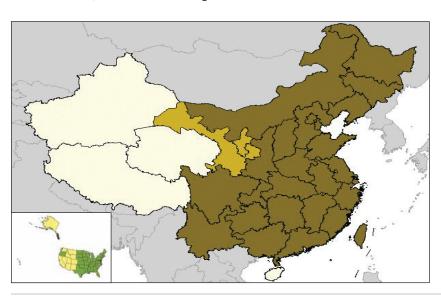
Description

Commelina communis is an annual herb with numerous branched, creeping stems, which are minutely pubescent distally, 1 m long. Leaves are lanceolate to ovate-lanceolate, 3–9 cm long and 1.5–2 cm wide. Involucral bracts grow opposite the leaves. Bracts are 1.2–2.5 cm long, folded and cordate when unfolded, with 1.5–4 cm long

stalk, often hirsute-ciliate marginally, and acute apically. Cyme inflorescence has one flower near the top, with dark blue petals and membranous sepals 5 mm long. Capsules are elliptic, 5–7 mm, and two-valved. The two seeds in each valve are brown-yellow, 2–3 mm long, irregularly pitted, flat-sided, and truncate at one end^{[60][167]}.

Habitat

C. communis prefers moist, shady forest edges. It is common in wet areas of crop fields, orchards, ditches, and



Flower of *Commelina communis*. (Photo provided by LBJWC, Albert, F. W. Frick, Jr.)

roadsides [60].

Distribution

C. communis is widely distributed in China, ^[60] but no records are reported for its distribution in Qinghai, Xinjiang, Hainan, and Tibet ^{[6][116][167]}.

Economic Importance

Commelina communis has caused serious damage in the orchards of northeastern China^[96]. C. communis is used in Chinese herbal medicine. ^[60].

Related Species

C. diffusa occurs in forests, thickets and moist areas of southern China and can be distinguished from *C. communis* by its lanceolate bracts and acuminate apex ^[60].

Natural Enemies of Commelina

Ten fungi have been found on members of the genus *Commelina*, four of which can infect Asiatic dayflower. *Kordyana commelinae* and *Phyllosticta commelinicola* are recorded to be host specific to *C. communis*. There are 12 arthropod species contained in four orders and six families that are associated with *C. communis*.

Fungi

Phylum	Family	Species	H. R.	Ref.
Ascomycota	Hyponectriaceae	Physalospora commelinae Sawada	mo	23
	Sclerotiniaceae	Sclerotinia sclerotiorum (Lib.) de Bary	po	23
Basidiomycota	Atheliaceae	Athelia rolfsii (Curzi) C.C. Tu & Kimbr.	po	23 [†]
	Brachybasidiaceae	Kordyana commelinae Sawada	m	23
	Ceratobasidiaceae	Thanatephorus cucumeris (A.B. Frank) Donk	po	23‡
	Phakopsoraceae	Phakopsora tecta H.S. Jacks. & Holw.	00	23
	Pucciniaceae	Puccinia adhikarii Ono	po	149
		Uromyces commelinae Cooke	р	23
	Ustilaginaceae	Ustilago commelinae (Kom.) Zundel	mo	23
			m	54
Anamorphic Guignardia		Phyllosticta commelinicola E. Young	m	195

Recorded as *Corticium centrifugum* (Lév.) Bres. Recorded as *Corticium sasakii* (Shirai) Matsum.

Arthropods

Order	Family	Species	H. R.	Ref.
Coleoptera	Crioceridae	Lema chujoi Gressitt et Kimoto	mo	65
			mo	139
		Lema concinnipennis Baly	р	65
			р	139
		Lema coromandeliana (Fabricius)	mo	139
		Lema coronata Baly	p	65
			p	139
		Lema delicatula Baly	m	65
			m	139
		Lema diversa Baly	p	65
			p	139
		Lema scutellaris (Kraatz)	m	139
	Eumolpidae	Acrothinium gaschkevitschii (Motschulsky)	р	139
	Hispidae	Cassida piperata Hope	po	140
Hemiptera	Pentatomidae	Aeschrocoris ceylonicus Distant	m	65
Homoptera	Aphididae	Aphis commelinae Shinji	m	65
			m	100
Lepidoptera	Sphingidae	Rhyncholaba acteus (Cramer)	po	206
			p	208