

***Ampelopsis heterophylla*
var. *brevipedunculata*
(*Ampelopsis brevipedunculata*)
Porcelain-berry**

Introduction

The genus *Ampelopsis* contains approximately 30 species, most of which are woody vines distributed in Asia and North and Middle America. Seventeen species of the genus occur nationwide in China^[89].

Taxonomy:

Family: Vitaceae

Genus: *Ampelopsis* Michaux



Brightly colored fruits of *Ampelopsis heterophylla* var. *brevipedunculata*. (Photo by Jil W. Swearingen, USDI, National Park Service.)

Species of *Ampelopsis* in China

Scientific Name	Scientific Name
<i>A. acerifolia</i> W. T. Wang	<i>A. heterophylla</i> (Thunb.) Sieb. et Zucc.
<i>A. aconitifolia</i> Bge.	<i>A. humulifolia</i> Bge.
<i>A. acutidentata</i> W. T. Wang	<i>A. hypoglauca</i> (Hance) C. L. Li
<i>A. bodinieri</i> (Lévl et Vant.) Rehd.	<i>A. japonica</i> (Thunb.) Makino
<i>A. cantoniensis</i> (Hook. et Arn.) Planch.	<i>A. megalophylla</i> Diels et Gilg
<i>A. chaffanjoni</i> (Lévl. et Vant.) Rehd.	<i>A. mollifolia</i> W. T. Wang
<i>A. delavayana</i> Planch.	<i>A. rubifolia</i> (Wall.) Planch.
<i>A. gongshanensis</i> C. L. Li	<i>A. tomentosa</i> Planch.
<i>A. grossedentata</i> (Hand.-Mazz.) W. T. Wang	

Description

Ampelopsis heterophylla var. *brevipedunculata* is a pubescent woody vine. Twigs are cylindrical, pubescent,

and grooved. Opposite the two-to-three branched tendrils, leaves are simple, heart-shaped or ovate, often 3 - 5 lobed or dissected, densely serrate, 3.5-14 cm

long and 3-11 cm wide, with abruptly acute apex and cordate base. The upper leaf surface is glabrous and shiny; lower leaf surface is pubescent with fine hairs along the veins. Flowers are produced from July to August. Flower buds are ovate and 1-2.5 cm long. Slightly lobed in the edges, the calyx is disc-shaped with slightly lobed edges, and the five petals are ovate and 0.8-1.8 mm long. Fruits containing two to four oblong seeds are bright turquoise, subglobose berries, 0.5-0.8 in diameter, appearing from September to October^[89].

Habitat

Porcelain-berry occurs in forests, in valleys, or on hillsides at elevations of 150-600 m^[89].

Distribution

A. heterophylla var. *brevipedunculata* occurs in Heilongjiang, Jilin, and Liaoning, China's northeast provinces^[89].

Economic Importance

The roots and leaves of *A. heterophylla* var. *brevipedunculata* are used medicinally^[89].

Related Species

In addition to *Ampelopsis heterophylla* var. *brevipedunculata*, there are four other varieties recorded in Chinese floras^[89]:

- 1) *A. heterophylla* (Thunb.) Sieb.



et Zucc. var. *heterophylla* occurs at elevations of 200-1800 m in Anhui, Fujian, Guangdong, Guangxi, Hubei, Hunan, Jiangsu, Jiangxi, Sichuan, and Zhejiang;

2) *A. heterophylla* (Thunb.) Sieb. et Zucc. var. *vestita* Rehd. occurs in forests, valleys, and shady thickets along slopes, at elevations ranging from 50 to 2000 m in Anhui, Fujian, Guangdong, Guangxi, Guizhou, Hebei, Henan, Jiangxi, Sichuan, Yunnan, and Zhejiang;

3) *A. heterophylla* (Thunb.) Sieb.

et Zucc. var. *hancei* Planch. occurs at elevations of 50-60 m in Fujian, Guangdong, Guangxi, Guizhou, Henan, Hunan, Jiangsu, Jiangxi, Shandong, Sichuan, and Yunnan;

4) *A. heterophylla* (Thunb.) Sieb. et Zucc. var. *kulingensis* (Rhed.) C. L. Li has a distribution range similar to *A. heterophylla* (Thunb.) Sieb. et Zucc. var. *vestita* Rehd., but at elevations of 300-1600 m, in Anhui, Fujian, Guangdong, Guizhou, Hunan, Jiangsu, Jiangxi, Sichuan, and Zhejiang.

Natural Enemies of *Ampelopsis*

Nine species of fungi and thirteen species of arthropods have been recorded for *Ampelopsis* species.

Fungi

Phylum	Family	Species	H.R.	Ref.
Ascomycota	Erysiphaceae	<i>Phyllactinia ampelopsidis</i> Y.X. Yu & Y.Q. Lai	po	22
		<i>Phyllactinia corylea</i> (Pers.) P. Karst.	po	23
Basidiomycota	Phragmidiaceae	<i>Hamaspora hashiokai</i> Hirats. f.	oo	23 [†]
Oomycota	Peronosporaceae	<i>Plasmopara viticola</i> (Berk. & M.A. Curtis) Berl. & De Toni	p	23
	Pythiaceae	<i>Physopella ampelopsidis</i> (Dietel & P. Syd.) Cummins & Ramachar	p	23
Anamorphic <i>Mycosphaerella</i>		<i>Pseudocercospora brachypus</i> (Ellis & Everh.) Y.L. Guo & X.J. Liu	po	110
		<i>Pseudocercospora vitis</i> (Lév.) Speg.	po	110
		<i>Septoria ampelina</i> Berk. & M.A. Curtis	p	23
		<i>Septoria ampelopsidis-heterophyllae</i> Miura	mo	23

[†] Recorded as *Pucciniostele hashiokai* (Hirats. f.) Cumm.

Arthropods

Order	Family	Species	H. R.	Ref.
Acariformes	Tetranychidae	<i>Eotetranychus smithi</i> Pritchard et Baker	po	143
Acarina	Phytoseiidae	<i>Amblyseius ruiliensis</i> Wu et Li	po	65
		<i>Phytoseius silvaticus</i> Wu et Li	po	65
Coleoptera	Chrysomelidae	<i>Gallerucida gloriosa</i> (Baly)	oo	185
	Eumolpidae	<i>Aoria scutellaris</i> Pic	mo	65
Homoptera	Cercopidae	<i>Cosmoscarta dorsimacula</i> (Walker)	po	65
Lepidoptera	Drepaniidae	<i>Oreta eminens</i> (Bryk)	po	65
		<i>Oreta pulchripes</i> Butler	po	65
		<i>Oreta vatama acutula</i> Waston	mo	65
	Geometridae	<i>Eclipopera umbrosaria</i> (Motschulsky)	p	177
	Sphingidae	<i>Sphecodina caudata</i> (Bremer et Grey)	po	208
	Thyrididae	<i>Rhodoneura fasciata</i> (Moore)	mo	207
Thysanoptera	Thripidae	<i>Thrips flavidulus</i> Bagnall	po	56