Great Willowherb Epilobium hirsutum

Great Willowherb ranges across much of Asia, North Africa and Europe but is absent from Scandinavia and north-west Scotland. It grows in damp areas such as river and ditch banks where it forms dense clusters. Like Meadowsweet, the other flower in Mary Findell's painting, it develops rhizomatous root-mats, allowing it to compete with other strong-growing herbs such as nettles. It does not tolerate much shade so occurs early in successional habitats.

The flowers are normally pollinated by bees and hoverflies that feed on the abundant nectar and pollen but the stigmas and anthers ripen together and the plant is capable of self-pollination. Insect cross-pollination is aided by the more prominent position of the stigmas. In the absence of insects the stigmas curl back and touch the anthers.



A number of insects feed on the leaves including the larvae of Elephant Hawkmoth, Deilephila elpenor, one of our largest moths. The 3 inch long caterpillars are eaten by birds and the spectacularly coloured adults, with a wing span of almost 3 inches, are taken by some bat species. Another herbivore is the Chrysomelid flea-beetle Altica lythri. It feeds almost exclusively on the Great Willowherb. The beetle



Meadowsweet and Great Willow Herb Paining by Mary Findell

is, in turn, parasitized by wasps of the *Perilitus* genus and the tachinid fly, *Degeeria luctuosa*, nematodes and *Verticillium* fungi. The bug, Dicyphus epilobii, is a predator, feeding on A. lythri eggs, and the shield beetle, Zicrona caerulea, attacks the larvae, so are typically found on the Great Willowherb. *Epilobium Hirsutum* supports a complex ecosystem.

[Epilobium] WILLOWHERB HYBRID CHART													
[Epilobium] WILLOWHERB HYBRIDS BSBI MAPS	Chickweed Willowherb (alsinifolium)	Alpine Willowherb (anagallidifolium)	New Zealand Willow-herb (brunnescens)	American Willowherb (ciliatum)	Creat Willowherb (hirsutum)	Spear-leaved Willowherb (lancsolatum)	Broad-leaved Willowherb (montanum)	Short-fruited Willow-herb (obsecurum)	Marsh Willowherb (palustre)	Hoary Willowherb (parviflorum)	Rockery Willowherb (pedunculare)	Pale Willow-herb (roseum)	Square-stalked Willowherb (tstragorium)
Square-stalked Willowherb (tetragonum)				Epilobium × mentiens	Epilobium × brevipilum	Epilobium × fallacinum	Epilobium × haussknechtianum	Epilobium × semiobscurum	Epilobium × laschianum	Epilobium × palatinum		Epilobium × borbasianum	
Pale Willow-herb (rossum)				Epilobium × nutantiflorum	Epilobium × goerzii	Epilobium × abortivum	Epilobium × heterocaule	Epilobium × brachiatum	Epilobium × purpureum	Epilobium × persicinum			Epilobium × borbasianum
Rockery Willowherb (pedunculars)							Epilobium × <u>kitcheneri</u>						
Hoary Willowherb (parviflorum)			Epilobium × argillaceum	Epilobium × floridulum	Epilobium × subhirsutum	Epilobium <u>×</u> aschersonianum	Epilobium × limosum	Epilobium × dacicum	Epilobium × rivulare			Epilobium × persicinum	Epilobium × palatinum
Marsh Willowherb (palustre)	Epilobium × haynaldianum	Epilobium × dasycarpum	Epilobium × chateri	Epilobium × fossicola	Epilobium × waterfallii		Epilobium × montaniforme	Epilobium × schmidtianum		Epilobium × rivulare		Epilobium × purpureum	Epilobium × laschianum
Short-fruited Willow-herb (obscurum)	Epilobium × rivulicola	Epilobium × marshallianum	Epilobium × obscurescens	Epilobium × vicinum	Epilobium × anglicum	Epilobium × lamotteanum	Epilobium × aggregatum		Epilobium × schmidtianum	Epilobium × dacicum		Epilobium × brachiatum	Epilobium × semiobscurum
Broad-leaved Willowherb (montanum)	Epilobium × facchinii		Epilobium × confusilobum	Epilobium × interjectum	Epilobium × erroneum	Epilobium × neogradense		Epilobium × aggregatum	Epilobium × montaniforme	Epilobium × limosum	Epilobium × kitcheneri	Epilobium × heterocaule	Epilobium × haussknechtianum
Spear-leaved Willowherb (lancsolatum)			Epilobium × cornubiense	lancsolatum ≚ ciliatum			Epilobium × neogradense	Epilobium × lamotteanum		Epilobium × aschersonianum		Epilobium × abortivum	Epilobium × fallacinum
Great Willowherb (hirsutum)				Epilobium × novae-civitatis			Epilobium × erroneum	Epilobium × anglicum	Epilobium × waterfallii	Epilobium × subhirsutum		Epilobium × goerzii	Epilobium × brevipilum
American Willowherb (ciliatum)			Epilobium × brunnatum		Epilobium × novae-civitatis	lancsolatum × ciliatum	Epilobium × interjectum	Epilobium × vicinum	Epilobium × fossicola	Epilobium × floridulum		Epilobium × nutantiflorum	Epilobium × mentiens
New Zealand Willow-herb (brunnescens)				Epilobium × brunnatum		Epilobium × cornubiense	Epilobium × confusilobum	Epilobium × obscurescens	Epilobium × chateri	Epilobium × argillaceum			
Alpine Willowherb (anagallidifolium)	Epilobium × boissieri							Epilobium × marshallianum	Epilobium × dasycarpum				
Chickweed Willowherb (alsinifolium)		Epilobium <u>×</u> <u>boissieri</u>					Epilobium <u>×</u> <u>facchinii</u>	Epilobium × rivulicola	Epilobium × haynaldianum				

Most species of the willowherb genus, Epilobium, hybridize freely as listed in this chart. Rosebay Willowherb, Chamerion augustifolium, does not appear as it is a different genus and does not form hybrids with the other willoherbs. Chart by R.W. Darlington. http://wildflowerfinder.org.uk/