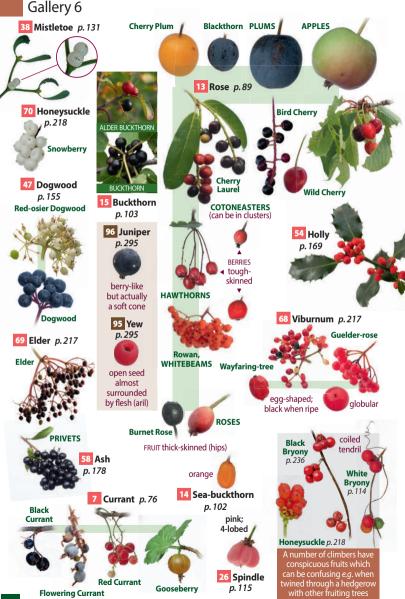
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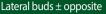




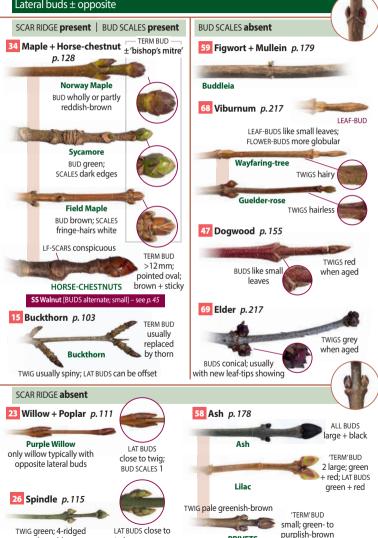
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Gallery 7 1/2 Identify trees and shrubs without leaves by twig and bud features as follows: are the **lateral buds** arranged oppositely or alternately?: is there a scar ridge (indistinct in some) that connects the leaf-scars?; then by the shape and angle of the **terminal** and **lateral bud** and details of the **bud scales** (if present).



when older



twig; BUD SCALES

PRIVETS



TREI® €&poright YPrinceton/University Press. No part of this book may be TREdistributed posted, or reproduced in any form by digital or mechanical means without prior written permission of the publisher. Gallery 7 2/2 Lateral buds alternate BUDS with 2-3 scales | ± same size SS Sweet Chestnut (opposite) buds can have 2 scales 22 Birch p. 108 Alder Italian Alder TWIGS hairless BUDS greener, smaller Grev Alder and on longer stalk than those of other alders TWIGS hairy **Grev Alder** Alder Italian Alder 14 Sea-buckthorn p. 102 TWIGS hairy: TWIGS hairless: TWIGS hairless: TWIG thorny RUDS RUDS RUDS BUDS Q with L6-10mm; on L6-10mm; on I 4-8 mm: on 2-4 scales: hairv stalk hairless stalk hairless stalk o with 6-8 (L 2–8 mm) (L 2-4 mm) (L 3-10 mm) BUDS with ≥3 scales | long + pointed 23 Willow + Poplar TERM BUD L 12-20 mm; TERM BUD L 6-12 mm: SCALES vellowish- to SCALES dark reddish-brown p. 111 reddish-brown with pale edges Aspen LAT BUD SCALES Hybrid Black-poplar Aspen 2 or 3; 19 Beech + Oak Hybrid Black-poplar 3-5 Hornbeam p. 106 LAT BUDS pressed against stem; SCALES 8-16 LAT BUDS held away from stem: SCALES ± 20 BUCKTHORN **Buckthorn** buds could be regarded as alternately arranged – see p. 42 BUDS with ≥3 scales | long + pointed to pointed-oval TWIG greyish- to reddish-13 Rose brown; dull, hairless p.89 Bird Cherry Rowan **BUD SCALES** TERM BUD TWIG dark brown; shiny base dark purplish-brown brown; tip pale with dense white hairs TERM BUD L 3-8 mm:



22 Birch *p. 108*TWIG usually ± shiny and hairless;

BUDS generally more pointed and greener than in **Downy** TWIG usually dull and hairy; BUDS generally more rounded and

browner than in Silver

Silver Birch

Downy Birch

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2/2



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Flowering plants consist of the **Pre-dicots** and the **Angiosperms**. The **pre-dicots** are a small group of ancient families that include magnolias and Bay and are represented naturally in B&I only by the aquatic water-lilies (p. 67).

The angiosperms comprise the vast majority of plants in Britain and Ireland and include just over 140 families with almost 2,300 native or naturalized species.

This book covers the 93 families (723 species) most likely to be encountered.

Rather than simply being petals, a flower is the reproductive structure which, in the simplest form, consists of male anthers and female stigma(s) and ovary. All flowering plants have these basic features, with either male and female parts within the same flower (bisexual) or on the same plant (unisexual, monoecious) or on different plants (dioecious).

Generally speaking those plants that rely on the attraction of insects for pollination have showy petals (and scents); those with petals much reduced or absent typically use movement (such as the wind) for pollination.

In addition to basic reproductive parts, many have additional structures. For example, the **bracts** and **sepals** of showy flowering plants, and the **lemma** and **palea** in grasses, all serve to protect the reproductive parts of the flower.

From an identification perspective, improved confidence in identification goes hand-in-hand with a greater understanding of a flower structure and the diverse range of additional parts. A significant number of species' identifications rely on being able to locate and assess these features – ovary position, lemma shape and number of stigmas are examples.

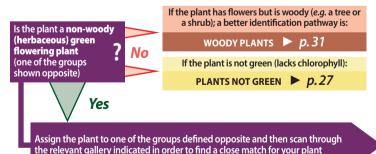
Although these may seem daunting at first, it is worth persevering – full details can be found on *pp. 14–20* and are referenced at appropriate points in the key that follows.



Although perhaps not the most apparent difference, Common Chickweed (*left*) has 3–8 stamens and Common Mouse-ear (*right*) has 10.

Flowering plant identification

Herbaceous flowering plants can be split into three broad groups based on how conspicuous (or not) the flowers are. Species that are representative of each of the families included in these groups are depicted in a range of feature-based galleries.



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This key is based upon the characteristics of the individual flower; for compact, tightly clustered or composite flowerheads close examination of an individual flower may be needed.

Does the plant have **conspicuous** flowers

7

Do the 'flowers' appear large but are actually a tight collection of small flowers in a head?



Are individual flowers small and in a flat or clustered inflorescence?



Are the flowers large and single (or a few in a group)?*



► Gallery 9 p.51 ► Galls 11–19 pp.54–61

*pp. 48–49 contain essential underpinning information and descriptions of the differentiating features needed in the identification of plants with conspicuous flowers

► Gallery 10 p. 52

Does the plant have inconspicuous flowers

?

Are the flowers fully formed but tiny?...

...or are the flowers **not well-developed**?





► Gallery 20 p.62 ► Gallery 21 p.62

Does the plant lack, or seem to be lacking, petals + sepals

key out here as structurally they are very similar, but a close examination will see that they have flowers with petals and sepals that look the same (tepals)

Rushes could

see Galleries 11 (p. 38) and 21 (p. 63)







Gallery 21 (right page)

Does the plant have long,

narrow leaves (grass-like)?

Gallery 21 (left page)

Does the plant have

broad leaves?

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Conspicuous flower identification

In the plants with conspicuous flowers there are a number of characters which, once assessed, form the basis for a confident identification to family level at least. In some cases only one or two characters from the set will be enough; in others more may be needed. The pathway below orders the features to check, with the most apparent first, together with annotated images of these features. Feature sets and their galleries are given here and in a look-up table, covering all set combinations, on p. 64.

Conspicuous flower identification – the questions to ask

▶ are the petals FREE (separated); or FUSED (either significantly or just at the base)	?
what is the SYMMETRY of the flower – RADIAL; or BILATERAL	?
► where is the OVARY LOCATED* in relation to the other flower parts	?

PETALS FREE vs. FUSED



- In plants with **free** petals, each petal is separate and will fall individually from the plant.
- In plants with **fused** petals, the petals are conjoined to a greater or lesser extent; and will fall from the plant as a whole unit.
- Some plants have petals fused, but only at the base, and, on occasion, these can be mistaken for free petals unless examined closely.

FLOWER SYMMETRY



pp. 54-58



Galleries 16-19 pp. 60-61

Diagrams of the botanical characters shown on these pages, together with more detailed information can be found on pp. 14-20

- In plants with **radial symmetry** any petals and sepals are arranged in a regular pattern around the centre, such that the flower can be divided into similar halves along more than one plane passing through the centre.
- In plants with **bilateral symmetry** any petals and sepals are arranged on opposite sides of a central axis, such that the flower can only be divided into similar halves along that single plane.

OVARY POSITION – see p. 24 for more information







* not applicable to male dioecious flowers.

- In plants with a superior ovary it is located above the attachment point of any other part of the flower.
- ► In plants with a partly superior ovary it is located within a receptacle that typically has the petals attached to its rim.
- In plants with an inferior ovary it is located below the attachment point of any other part of the flower.

Conspicuous flower identification – next steps

Once a suite of characters has been assessed a search of the relevant gallery should prove successful in finding the family that the plant in question belongs to. The galleries can be found using the page numbers shown here, or by using the look-up table, which groups families by each combination of features. Note that throughout the galleries the key character groups are colour-coded and accompanied by diagrams (as on these pages) as an additional navigation aid.

► Look-up table by features p. 64 ► The Galleries pp. 50–63

Most flowers have petals clearly different from sepals in colour and/or size and shape. In those that have similar petals and sepals, they may be termed tepals. But in a further complication, petals may be sepal-like (sepaloid) e.g. **Black Bryony** or sepals petal-like (petaloid) e.g. **Wood Anemone** (see also p. 16). To avoid such complications, we do not use the similarity/difference between sepals and petals as a differentiator.



similar in shape, size and colour – Two sets: three petals (inner [P1–P3]) and sepals (outer [S1–S3])



obviously different in shape, size and/or colour Two sets: five petals (inner [P1– P5]) and sepals (outer [S1–S5])

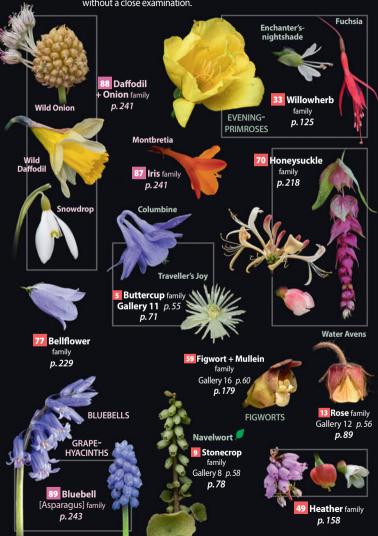


petal-like sepals (left) and sepal-like petals (right)

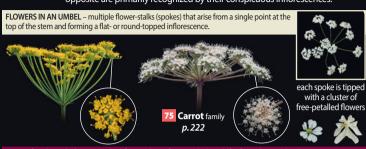
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Conspiculous motivarnica of inflorescence by signifiar frowers ical

Gallery 8 There are two groups of plants of which examples are shown in this gallery:
1) highly distinctive flowers – in some cases very different from the 'normal' flowers associated with that family and 2) 'bell'-shaped flowers.
For both groups the defining flower features can be difficult to establish without a close examination.



Gallery 9 Although in this book flower identification is based on the characters of an individual flower, the families, groups or species here and some of those opposite are primarily recognized by their conspicuous inflorescences.



Carrot family umbels Individual flowers have free petals that differ from the sepals. Flower symmetry in most species is radial, although in some (especially the outer flowers) are bilateral. The ovary is inferior.

FLOWERS IN OTHER ARRANGEMENTS – see *p. 17* for more details.



Н

Conspicuous metads of spriati frowers y freads signific or crusticald

Gallery 10 Plants in this group exhibit a high diversity of individual flower shape as well as a wide variety of how individual flowers (even if small) are grouped to form a conspicuous flowerhead (or inflorescence) – see p. 17 for more information.

Daisy family individual flowers

Observing individual flowers requires a close examination of the flowerhead (capitulum). Flower symmetry varies depending on the flower: there are two flower types - straplike rav-flowers and tubular disc-flowers. Flowerheads can consist of disc-flowers only. rav-flowers only or both disc- and rav-flowers. The unstalked flowers are packed tightly on a specialized flat-topped or domed receptacle that is formed from the swollen top of the inflorescence stalk, surrounded by whorls of bracts (the involucre) that protects the developing flowers. Symmetry in the individual tiny flowers may be either radial or bilateral. Disc-flowers are usually radially symmetrical though they are occasionally slightly irregular. Ray-flowers are always bilaterally symmetrical. Understanding these detailed characters will help you to make sense of this very large family - see p. 24 for further details.

Thistle group disc-flowers only



Groundsel groupdisc-flowers only (can rarely have ray-flowers)



67 Daisy + Thistle family p. 194

All species shown here have fused petals and an inferior ovary



Dandelion-type ray-flowers only



Daisy-type disc- and ray- flowers (rays can be tiny)

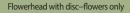


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Clustered flowerhead group

Inflorescence consisting of clusters of flowerheads; themselves each containing multiple individual flowers

Flowerhead with both discand ray-flowers





p. 194



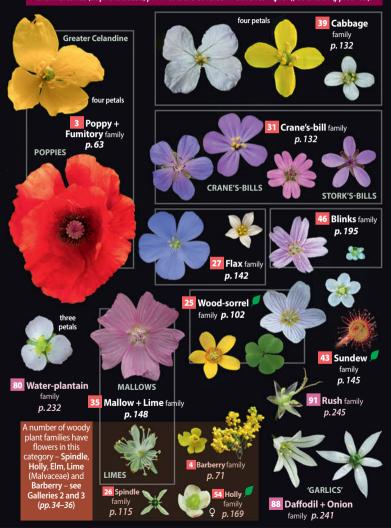


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Gallery 11 Plants in this group exhibit a high diversity of individual flower/petal shapes as well as a wide variety of inflorescence types (see p. 17).

Species with tiny flowers which fit into this category and are more likely to be noticed by other features are Hop (Cannabaceae) p. 103; Nettle (Urticaceae) p. 105; Bog-myrtle (Myricaceae) p. 108; and Mercuries (Euphorbiaceae) p. 117 and are covered in Galleries 4 (p. 37), 20 and 21 (pp. 62–63).



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SYMMETRY radial







8 Saxifrage family p. 77

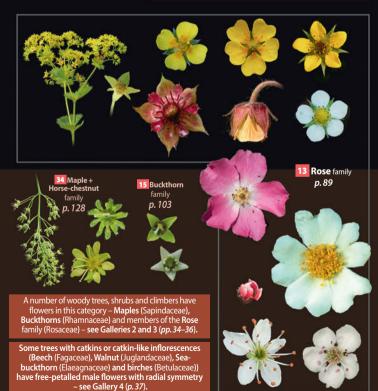


Purple-loosestrife family p. 124





SS rock-roses (Cistaceae); buttercups (Ranunculaceae); and pimpernels (Primulaceae) [all with OVARY superior];
Gallery 11 (p. 54) and 14 (p. 58)



Plants are not to scale and may not be the same colour as the examples shown here – flower shaps age merelucuser to singor that the singor thad the singor that the singor that the singor that the singor tha

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Gallery 13





SYMMETRY radial



OVARY inferior





p. 77 **GOLDEN-SAXIFRAGES**

Pennywort J family p. 221













symmetry bilateral in some flowers



75 Carrot family p. 222



SS Yarrow and Sneezewort (Asteraceae) Gallery 10 (p. 53)

47 Dogwood family p.89 p. 155

Mistletoe and a number of woody trees, shrubs and climbers have flowers in this category – Currants (Grossulariaceae), Rowan and whitebeams (Rosaceae), and Dogwoods (Cornaceae) - see Galleries 2 and 3 (pp. 34-36)

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p. 160

p. 229

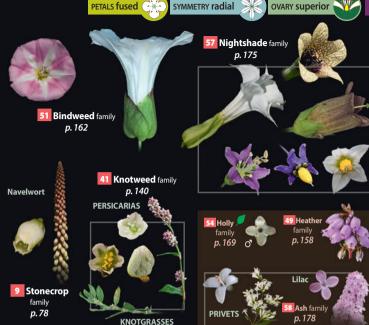
p. 236

p.114

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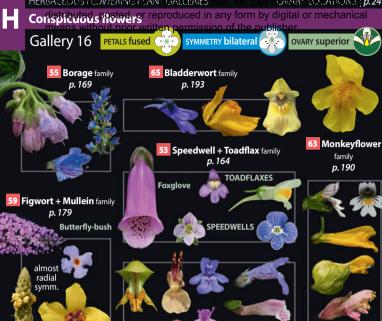


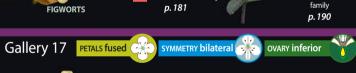




category; see Gallery 10 (p. 52)

– see Galleries 2 and 3 (*pp. 34–36*)



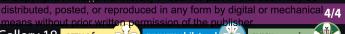


61 Dead-nettle family

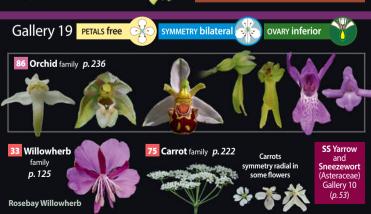
4 Broomrape



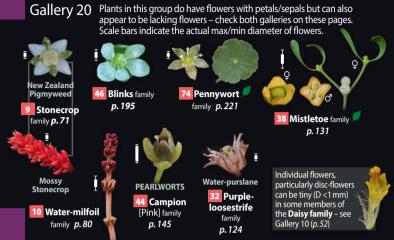
MULLEINS





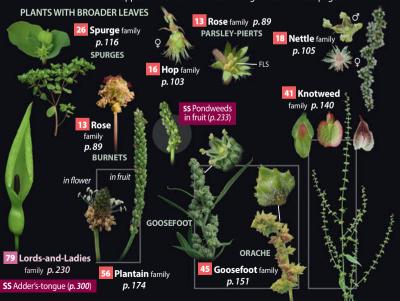


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Flowers lacking or appearing to be lacking petals and/or sepals

Gallery 21 Plants in this group may have tiny flowers with petals/sepals but which often appear to be absent – check both galleries on these pages.



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A number of trees and shrubs have flowers in these categories – see Gallery 4 (p. 37)

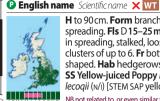


PLANTS BECCOPYAGAC PRAceton University Press. No part of this book may be distributed, posted, or reproduced in any form by digital or mechanical Characters of Jowering plants in this book

This table shows the groups, subdivisions and numbers of families and species in each identification category in this book. If the features of a plant have been noted, the table will give a good idea of the number of identification options with the page numbers of the relevant galleries.

Group			Dic	ots	Mon	ocots	
WOODY P	LANTS		Families	Species	Families	Species	Page
Woody clin	nbers		5	6	none in	this book	33
	nts with tiny flov		9	32	none in	this book	37
Flowering 1	trees and shrubs						
PETALS	SYMMETRY	OVARY					
		superior	5	6			34, 36
	radial	part. superior	3	3 20			34, 36
free		inferior	5	17			34, 36
	bilateral or	superior	1	4			36
	irregular	inferior	1	1	none in	this book	34
	radial	superior	2	4			34, 36
fused	radiai	inferior	4	13			
Tusea	bilateral or	superior	1	1			34
	irregular	inferior	1	1		36	
AQUATIC F	AQUATIC PLANTS				3	12	28
PLANTS LA	ACKING CHLOR	OPHYLL	2	4	none in	this book	27
HERBACEC	OUS FLOWERING	PLANTS					
Lacking or petals and	r seemingly lack I sepals	ing	9	38	6	113	62
Tiny, incor	nspicuous flowe	rs	12	29	none in	62	
	verheads of sma	all flowers	2	80	none in	this book	52
	ous flowers						
PETALS	SYMMETRY	OVARY					
		superior	13	100	3	17	54
	radial	part. superior	3	20		this book	56
free		inferior	5	33		this book	57
	bilateral or	superior	5	45	none in	this book	61
irregular inferior		2	5	1	15	61	
	radial	superior	10	51	1	4	58
fused		inferior	4	15	2	2	58
	bilateral or	superior	7	66	none in	this book	60
	irregular	inferior	1	5	1	3	60

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The speci



H to 90 cm. Form branched: spreading. Fls D15-25 mm in spreading, stalked, loose clusters of up to 6. Fr bottleshaped. **Hab** hedgerows. SS Yellow-juiced Poppy P. lecoaii (N/I) [STEM SAP vellow].

NB not related to, or even similar to. Lesser Celandine (buttercup family - p. 72).



FAMILY AND SPECIES NUMBERS

 The order in which families are presented. is not taxonomic and each family is assigned a number to help in locating them.

n spp. | *n* spp. B&l The number of species with accounts in this book and the number of species included in the printed BSBI Atlas.

ACCOUNT TEXTS

English name and *Scientific name* – **English** names are those in popular usage in the context of Britain and Ireland and follow those used by the Botanical Society of the British Isles (BSBI) with a few variations; scientific names and taxonomy are those used by BSBI.

EASE OF IDENTIFICATION and PLANT LIFESTYLE – a coloured lozenge preceding the name indicates identification difficulty:

= easy; = = care needed; = = difficult. Within each lozenge is a code for plant lifestyle:

 $\mathbf{A} = \text{annual}$: $\mathbf{B} = \text{biennial}$: $\mathbf{P} = \text{perennial}$. SIZE – is given for plant height (H), and for flowers (Fls) where D = diameter and L = length. Measurement units are broadly as follows: 1-10 cm in mm; 10-200 cm in cm; >200 cm in m. For some species where flower measurements are important for identification scale bars are given showing the minimum (——) and maximum (→→) dimensions.

IDENTIFICATION DETAILS (species account) summarizes those features necessary for confident identification. Subheadings within this section cover the information relevant to each species as follows:

Form general details of the whole plant, including structure, growth habitat and vegetative spread.

Relevant details, such as colour, shape and size is given for the following:

FI, FIs [FLOWERS]

Infl [INFLORESCENCE]; Spklt [SPIKELET]. Lf. Lvs [LEAVES]: Lflts [LEAFLETS] Fr [FRUIT]; Utr [UTRICLE]

Hab [HABITAT] briefly describes in which habitat(s) the plant can be found. SS [SIMILAR SPECIES] – lists species that may present identification confusion together with a concise list of differences. Species not illustrated are designated (N/I).

Other relevant subheadings are used for particular groups (e.g. Stem, Spathe). These are explained where required. Within these paragraphs any other terms used (e.a. FL-STALK, ANTHERS) are either written in full or follow the abbreviations as used in the species accounts.

IMAGE ANNOTATIONS

These highlight key identification features using the same abbreviations as found in the species account: caveats and information relating to other species are in purple text.

ICONS

are used for information as follows:

 \times poisonous plant (see p. 9); AQ aquatic plant; C herbaceous climber: WC woody climber:

WS woody shrub: WT woody tree:

od male: Q female

COMPARISON SPREADS and TABLES

Comparison image spreads and tables giving key identification features for similar species are provided where useful. Look at these in conjunction with the individual species accounts, as these often add important information that cannot be covered entirely on the species pages.

DISTRIBUTION MAPS and PHENOLOGY

The maps and phenology are based on data from the BSBI Plant Atlas 2020.

Phenology charts show at which time of year a plant can typically be found:

in leaf: in flower: in fruit.

PHOTOGRAPHS

Key features of a plant are shown as cutouts or magnified insets. These are accompanied by images of the plant in the wild in most cases.

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his book			SY				ROM (On the pulle Replie Rei = Bilateral. OV (Ovary position): S = Superior PET SY	M	0
	Se	Fu	R	Bi	S		* = partially superior); I = Inferior Se Fu R	Bi	S
1 Water-lily Nymphaeaceae	•		◙			Π	55 Borage + Forget-me-not Boraginaceae		•
2 Hornwort Ceratophyllaceae	•		◘			П	56 Plantain Plantaginaceae		•
Poppy + Fumitory Papaveraceae	•		₫	•		П	57 Nightshade Solanaceae	0	•
4 Barberry Berberidaceae	•				•		58 Ash Oleaceae [petals absent in some]	ď	•
5 Buttercup Ranunculaceae	•				•		59 Figwort + Mullein Scrophulariaceae	• (•
6 Box Buxaceae	•		d		•		60 Mare's-tail Hippuridaceae tiny N	,	
7 Currant Grossulariaceae	•		d			•	61 Dead-nettle + Mint Lamiaceae	0	•
8 Saxifrage Saxifragaceae	•		•		•	•	62 Gentian + Centaury Gentianaceae		•
9 Stonecrop Crassulaceae		0	6				63 Monkeyflower Phrymaceae	• (
0 Water-milfoil Haloragaceae	•	Ŭ	ă		Ĭ	•			e
1 Pea Fabaceae	•	•	Ĭ	•	•	ř			Ĭ
2 Milkwort Polygalaceae	-	•	Н	ă	H		66 Moschatel Adoxaceae	-	Ĭ
3 Rose Rosaceae	•		-			0			
4 Sea-buckthorn Elaeagnaceae	_		H		0,	۲	68 Viburnum Viburnaceae	4	
5 Buckthorn Rhamnaceae		oals	H				69 Elder Sambucaceae	4	
	•		ш		ш				
6 Hop Cannabaceae	_) –			•			•	
7 Elm Ulmaceae	_	9-			•			0	
8 Nettle Urticaceae	_) –			•		72 Teasel + Scabious Dipsacaceae	•	
9 Beech + Oak Fagaceae		_	•			▣	73 Ivy Araliaceae		
) Bog-myrtle Myricaceae	-	ent			▣		74 Pennywort Hydrocotylaceae		
1 Walnut Juglandaceae	-(9-				▣	75 Carrot Apiaceae	•	
2 Birch Betulaceae	tin	y/0				•	76 Water-starwort Callitrichaceae absent N	١	
Willow + Poplar Salicaceae	ti	ny	N,	/A	N	/A	77 Bellflower Campanulaceae		
4 White Bryony [Gourd] Cucurbitaceae		•				•	78 Bogbean Menyanthaceae		C
Wood-sorrel Oxalidaceae	•						79 Lords-and-Ladies + Duckweed Araceae absent N	1	
Spindle Celastraceae	•		◘		•		80 Water-plantain Alismataceae		C
7 Flax Linaceae	•		◙		•		81 Frogbit Hydrocharitaceae		C
8 Spurge Euphorbiaceae	abs	ent	N,	/A			82 Arrowgrass Juncaginaceae		C
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Form rooted aquatic. Fis many-petalled; at or above water

surface. Lvs large, rounded, floating surface-leaves. IDENTIFY BY: Flower colour and general form leaf, stem and fruit details

White Water-lily Nymphaea alba AO



Fls D 10-20 cm; on water surface; PET 20+. white. Lvs all floating; almost round; D to 30 cm; veins radiating from leaf/stalk join. forming a net at the leaf-margin. Fr rounded. **Hab** still or very slow-moving fresh waters.

LF veins radiate from leaf/stalk join



P Yellow Water-lily Nupharlutea AQ



Fls D to 3–4 cm; raised above water surface: SEP 5, vellow: PET many, smaller than sepals. Lvs L to 30 cm; veins in herringbone pattern; SURFACE broadly oval, L>W; SUBMERGED more flaccid. Fr bottle-shaped. Hab still or flowing fresh waters. SS Least Water-lilv N. pumila (N/I) [FL + LVS smaller; mainly upland]; Fringed Water-lily Nymphoides peltata (N/I) [PET fringed, LVS round].



LF herringbone vein-pattern

DICOTS (see p. 4)

2 Ceratophyllaceae | Hornwort family 2 spp. | 2



RIGID HORNWORT

Form wholly submerged; not rooted, aquatic; STEMS Lto 1 m. Lvs forked: in whorls. Fls tiny; greenish; underwater; solitary leaf-axils: \mathcal{O} and \mathcal{O} at different nodes.

IDENTIFY BY: ▶ leaf forking ▶ leaf rigidity out of water

SS Water-milfoils (p. 80); and Water-violet Hottonia palustris (N/I) [both have narrowly segmented, whorled leaves pinnately arranged and flowers above the water surface].

Pagid Hornwort Ceratophyllum demersum AQ



P Soft Hornwort Ceratophyllum submersum AQ





Lvs dark green, forked 1 or 2× only: rather stiff – do not wholly collapse into a mush when out of water. Hab fresh to mildly brackish, still or very slow-moving waters.



Lvs brighter green than Rigid Hornwort, forked 3x: more flimsy - collapsing into a mush when out of water. Hab predominantly coastal, more characteristic of brackish waters than Rigid Hornwort.







LVS forked

1-2×For general queries, contact info@press.princeton.edu

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different-looking groups (subfamilies) that have often been treated as separate families.

- Poppy subfamily [13 spp. B&l] Fls PETALS 4; SYMMETRY radial.
- Fumitory subfamily [15 spp. B&l] Fls PETALS 4: SYMMETRY bilateral.



● Poppies and Greater Celandine | Form upright to bushy. Fls conspicuous; brightly coloured; obviously 4-petalled; SEPALS fall prior to flowering. Fr prominent capsule.

IDENTIFY BY: ► flower colour and general form ► leaf, stem and fruit details

Key to Poppies and Greater Celandine

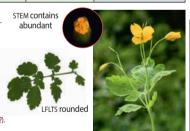
ite) to i oppi	es and Greater Celaname			
Flower colo	ur and form	Other features	Fruit see opposite	Species
Yellow	small; D 15-25 mm	SAP milky orange	long; pitted	Greater Celandine
reliow	D 50-75 mm		narrowly oval	Welsh Poppy
Pale purple [white to red]	D 100–180 mm; much larger than other poppy flowers	STEM sparse bristles at most	rounded; hairless; much larger than that of Common	Opium Poppy
Red	bright scarlet, with or without a dark base to the petals; usually larger than other red-flowered poppies	STEM with spreading hairs	rounded; flat- topped; hairless	Common Poppy
	smaller and paler than Common Poppy; a few with a dark base to the petals	STEM with appressed hairs	long and narrow; hairless	Long-headed Poppy

P Greater Celandine Chelidonium majus



H to 90 cm. Form branched; spreading. Fls D 15–25 mm in spreading, stalked, loose clusters of up to 6. Hab hedgebanks, brownfield; often near buildings.

NOTE: not related to, or even similar to, Lesser Celandine (buttercup family – p. 72).

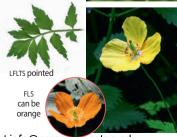


Welsh Poppy Papaver cambricum

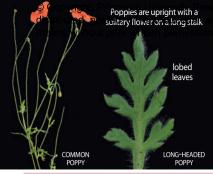


H to 60 cm. Form erect, loosely tufted. Fls D 50– 75 mm; solitary, on long stalks. Hab shady places: woods, rocky hillsides, streamsides, walls and roadsides.

SS Yellow Horned-poppy *Glaucium flavum* (N/I) [FRUIT very long (L15–30 cm); coastal onlyl.



WEI SH POPP







Lvs Common and Long-headed Poppies: grevish-green; lobed (lobes slightly broader in Common Poppy), Opium Poppy; less lobed; arev.

SS All red poppies have similarities and some care can be needed to differentiate.

Long-headed Poppy

Papaver dubium

H to 60cm. Form erect: SAP white. Fls D30-70 mm: ANTHERS violet. Hab waste ground, cultivated fields. especially on sandy soils. SS Yellow-juiced Poppy P. lecogii (N/I) [SAP yellow].



STEM with appressed hairs



FL paler than those of Common Poppy

O Common Poppy

Panaver rhoeas

H to 70cm. Form erect: usually branched. Fls D50-100 mm; ANTHERS bluish. Hab brownfield, cultivated fields. SS two rare red poppies Roemeria spp. (N/I) [CAPSULE bristly/prickly].



STEM with spreading hairs



FL bright scarlet to crimson: can have black base to petals (right)

Opium Poppy

Papaver somniferum

H to 100cm. Form robust. erect. Fls D 100-180 mm. Hab brownfield, SS Oriental Poppy P. setiferum (N/I) [conspicuously hairy].



STEM hairless to sparsely bristly/hairy



purple, but ranges white to red (right)

Poppy fruit outlines compared

GREATER CELANDINE long, pitted

cylindrical pod; L 30–50 mm

LONG-HEADED POPPY

oblona (L2-3xW) or tapering from top to bottom

COMMON POPPY oval (L > W)

with flattish top

OPIUM POPPY rounded (L ± W), much larger than that of Common Vago

(fruit reminiscent of some members of the cabbage family (p. 132))



WFI SH POPPY

narrowly oval with

persistent short

style







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Fumitaries anti-Corvital swritern pentiles and of the puherbacous plants of disturbed ground, or scrambling on hedgebanks and walls. Fls distinctive; long, thin; 2-lipped.

Lvs pinnate; green to bluish-green.

3 UPPER

IDENTIFY BY: ▶ inflorescence details ▶ lower petal shape ▶ flower size/colour ▶ sepal shape/size ▶ leaf details ▶ fruit shape

SEPAL 3 UPPER PETALS LOWER BRACT PETAL

FLOWERS wholly yellow/yellowish | Corydalis

Yellow Corvdalis

Pseudofumaria lutea



LF 2-pinnate:

no tendrils

H to 30 cm. **Form** erect to hanging. **Fls** L 12–18 mm; **yellow**; 5–10 flowers in a spike. **Hab** walls.



(A) Climbing Corydalis Ceratocappos claviculata

∦ H to



H to 75 cm. Form scrambling. Fls L 4–6 mm; cream; ± 6 flowers in a spike. Hab shady places, often on rocks, heathland



FLOWERS pink/pinkish with darker tip | Fumitories

The two widespread species are scrambling with flat, 1–2-pinnate leaves.

SS All fumitories, including seven rarer species, are very similar and identification needs care.

A Common Fumitory Fumaria officinalis

H to 30cm. Fls L7–9 mm; L pink with dark tips; key ID details below. Fr egg-shaped; W>L; TIP truncate or slightly notched. Hab arable, brownfield, especially on sandy soils.





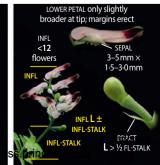
L < 1/2 FL-STALK

① Common Rampingfumitory Fumaria muralis

H to 70 cm. Fls L8–12 mm; pink or white with dark tips; key ID details below. Fr smooth; globular to eggshaped; L> W. Hab arable, brownfield, hedgebanks, walls.



INFL-STALK



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