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The **Alpine and Arctic poppies** are perennial white, yellow or orange species; their taxonomy has been in a state of constant flux, although a wide range of species, subspecies and varieties have been reduced to three main native species, as follows.

a) Pyrenean Poppy *Papaver lapeyrousianum*

A beautiful small perennial to ± 15 cm tall, with greyish blue pinnate leaves, hairy stems and buds, and orange to yellow flowers, up to 3.5 cm across with **petals barely overlapping to separated when fully open**. **Hab** uncommon in high-altitude rocky habitats, on acid or calcareous rocks. **Alt** to 2,800 m. **Dist** only in the Pyrenees in our area but also farther south in Spain. **Fl** Jun–Aug.



b) Alpine Poppy *Papaver alpinum*¹

Very similar in general form to Pyrenean Poppy (a), but larger, with larger flowers (up to 5 cm across) and **petals overlapping when fully open**, most commonly white or bright yellow [INSET]. **Hab** occurs in a wide range of rocky habitats, particularly on limestone or dolomite. **Alt** to 3,000 m. **Dist** the Alps and eastward to the Carpathians; absent from Pyrenees and Arctic areas. **Fl** Jun–Aug.



c) Arctic Poppy *Papaver radicatum*²

Very similar in general form to Alpine Poppy (b), differing in having slightly smaller flowers that are most commonly pale yellow (although may also be white or slightly deeper yellow), very bristly hairy leaves and in the more narrowly cylindrical fruit capsules ($\pm 3\times$ as long as wide, rather than twice as long as wide or less). They also do not overlap naturally in range. **Hab** stony montane and arctic habitats. **Dist** from southern Norway northward. **Fl** Jun–Aug.



d) Iceland Poppy *Papaver croceum*³

Bright yellow poppy. Capsule long-cylindrical, covered with black hairs. **Dist** widely naturalised in Scandinavia and the northern Alps.



¹ Including species, subspecies and varieties ending in *rhaeticum*, *kernerii*, *burseri* and *sendtneri*.

² *P. radicatum* includes *P. lapponicum*.

³ *P. croceum* sometimes wrongly conflated with *P. nudicaule*.

a) ● Common Poppy *Papaver rhoeas*

A familiar and distinctive erect bristly annual, up to ± 65 cm tall. Leaves small and pinnately divided, flowers large (up to 10 cm across), red-scarlet, with or without a black blotch at the base of each petal, borne on stalks with **spreading** hairs. The ripe capsule [INSET] is hairless and roughly flattened-spherical in shape. **Hab** widespread and quite common in disturbed habitats such as arable fields. **Alt** to 1,800 m. **Dist** almost throughout although increasingly rare in north Scandinavia. **Fl** May–Aug.



b) SS ● Long-headed Poppy

Papaver dubium ssp. *dubium* is similar to Common Poppy (a) but differs in having smaller (to 6 cm) flowers, usually paler and more orange, stalks with **appressed** hairs, and **narrowly cylindrical hairless capsules** [INSET], much longer than wide. **Hab + Dist** as Common Poppy.

SS ● Yellow-juiced Poppy

Papaver dubium ssp. *lecoqii* [N/I] differs from (b) mainly in producing **yellow juice** (white in Long-headed Poppy) from the stem if cut.



c) SS ● Rough Poppy *Papaver hybridum* is similar to (d) but smaller, with deep pink to crimson petals (flowers to 6 cm across), **obvious blue anthers**, and a rounded-ovoid capsule, to 1–7 cm tall, that is covered with stiff yellowish green bristles [INSET]. **Hab** local, disturbed and arable areas. **Alt** to 1,700 m. **Dist** widespread but almost absent from Scandinavia. **Fl** Jun–Aug.



d) SS ● Prickly Poppy *Papaver argemone* differs from Rough Poppy (c) in having paler flowers, blue or yellow anthers, and **capsules that are about twice as long as wide**, with a few erect bristles [INSET]. **Hab + Dist** similar to Rough Poppy.



Barberry family | **Berberidaceae**

A large, almost worldwide and very variable family, but with only two native species in our area.

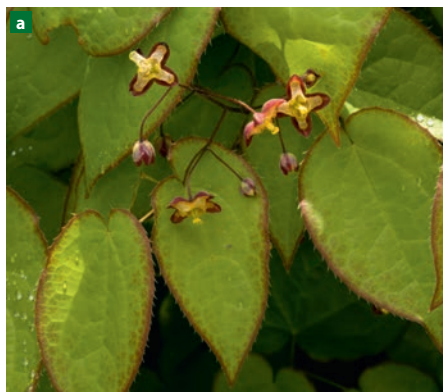
a) **Barrenwort** *Epimedium alpinum*

An attractive and distinctive herbaceous perennial, up to 30 cm tall, with many twice-ternate leaves; leaflets ovate with a heart-shaped base and finely bristly margins. Flowers borne in loose panicles, each with 4 dull dark red petals enclosing large honey yellow leaves and 4 projecting stamens, up to 13 mm across.

Hab damp shady places in the mountains.

Dist confined to the south-east Alps from Italy to Slovenia. Also widely grown in gardens.

Fl Mar–Jun.



b) **Barberry** *Berberis vulgaris*

A densely spiny deciduous shrub, up to 3.5 m tall, with 3-pointed spines on the stems. Leaves roughly oval, glossy, with finely spiny margins. Flowers bright yellow, cup-shaped, to 8 mm across, borne in hanging multi-flowered racemes up to 5 cm long. The fruits are bright red, conspicuous oblong-ovoid edible berries up to 1 cm long [INSET]. **Hab** rocky mountain slopes and woodland margins. **Alt** to 2,500 m. **Dist** throughout as far north as central Scandinavia; widely planted and naturalised. **Fl** Apr–Jun.



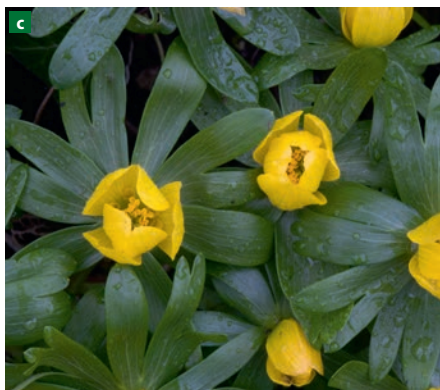
Buttercup family | **Ranunculaceae**

A very large and varied family of mainly perennial herbs, occasionally woody climbers. There are few characters shared by all members of the family, but they do generally have: leaves without stipules; a superior ovary (*q.v.*); fruits a cluster of follicles and achenes; and sepals that are often more obvious than the petals. Where the sepals perform the role of petals, they are often referred to either as tepals or perianth segments.

c) **Winter Aconite** *Eranthis hyemalis*

An attractive and distinctive low-growing hairless early flowering tuberous plant. Stalked palmately lobed basal leaves arise from the tuber, and there are 3 similar unstalked leaves arranged in a ruff just below the flower. Flowers solitary, terminal, bright yellow, to 4 cm across when fully open in the sunshine, made up of ± 6 narrow petal-like sepals.

Hab as a native, very local in montane areas. **Alt** to 1,700 m. **Dist** in France, Italy and Slovenia, but widely naturalised elsewhere in grasslands, churchyards and open woods. **Fl** Jan–Mar.



a) ● Stinking Hellebore *Helleborus foetidus*

A robust herbaceous perennial, to 80 cm, with leafy overwintering stems and no basal leaves. Leaves large, palmate with 7–11 narrow, toothed segments. Flowers cup- or bell-shaped, up to 3 cm across, yellowish green with a red rim; the visible part is the calyx, enclosing inconspicuous petals reduced to the form of nectaries. The bracts below the flowers are entire, undivided. **Hab** woods and scrub, usually on limestone. **Alt** to 1,700 m. **Dist** native from the Pyrenees northward to Britain and eastward to Italy; naturalised elsewhere as far north as southern Scandinavia. **Fl** Jan–May.



b) ● Green Hellebore *Helleborus viridis*

Rather similar in form to Stinking Hellebore (a), but only to 40 cm tall, without overwintering stems, although with basal leaves present when the plant emerges in spring. Leaves palmately lobed with the lobes often further divided. Flowers greenish, scented, cup-shaped, without a red rim, taller than the leaves and subtended by divided bracts. **Hab** locally common in open woods, clearings, and scrub, usually on limestone. **Dist** the Pyrenees, the Alpine chain east to Austria and northward to southern Scandinavia (although a lowland plant in the northern part of its range). **Fl** Feb–Apr.



SS *Helleborus dumetorum* is rather similar to Green Hellebore (b) but differs in its finely (not coarsely) toothed leaves and unscented flowers that are overtopped by the leaves. **Dist** an eastern European species, extending into the mountains from Austria eastward.

c) *Helleborus dumetorum* ssp. *atrorubens* has purple to violet flowers.



d) Christmas Rose *Helleborus niger*

A familiar, if poorly named, plant from cultivation. Similar in general form to Green Hellebore (b), but with leathery overwintering basal leaves. Readily distinguishable, when in flower, from all other hellebores by its large (to 10 cm) white or pale pink flowers, held vertically on thick almost-leafless stems – a striking plant, often flowering as the snow melts. **Hab** Woodland, scrub and grassland, usually on limestone in mountain areas. **Alt** to 2,000 m. **Dist** from south-eastern Switzerland and Germany, south-eastward to the Balkans. **Fl** Feb–Jun, rarely at Christmas.



Callianthemums | A group of three closely related and very similar low-growing (to 20 cm) hairless mountain perennial herbs, all with feathery 2–3-pinnate leaves and white flowers. The flowers have ± 5 sepals and up to 20 white petals.

a) Coriander-leaved Callianthemum

Callianthemum coriandrifolium

The largest and most widespread of the group, distinctive as the leaves develop with the flowers, which have broadly ovate white ‘petals.’ **Hab** high-altitude areas. **Alt** mainly > 2,000 m and up to 3,000 m. **Dist** scattered throughout the Alps and eastward to the Carpathians; local in the central Pyrenees. **Fl** Jun–Aug.

b) SS *Callianthemum anemonoides* is similar but differs in that the leaves develop after the flowers, and the petals are much narrower and more anemone-like. **Dist** confined to mountain grassland and pine woods in Austria.

SS *Callianthemum kernerianum* [N/I] is a tiny alpine plant, no more than 6 cm tall, with leaves appearing after the flowers, and flowers no more than 2.5 cm across. **Hab** rocky limestone slopes. **Alt** to 2,200 m. **Dist** southern Italian Alps. **Fl** Jun–Jul.



c) ● Globe Flower *Trollius europaeus*

An erect hairless perennial herb, up to 80 cm tall, often in small clumps. Leaves all palmately lobed and toothed, with the lower ones long-stalked and the upper ones almost stalkless. The flowers are distinctive: large, globular and buttery-yellow, with 10 tepals that curve in to form an approximate sphere 3–5 cm across. **Hab** damp grassland and open woods, although increasingly confined to mountains as the range progresses southwards. **Alt** to 2,800 m. **Dist** widespread throughout all the montane and Arctic parts of Europe. **Fl** May–Aug.



d) ● Marsh Marigold *Caltha palustris*

A tufted hairless creeping perennial, up to 60 cm tall, with hollow stems. Leaves heart-shaped, unlobed, with the lower ones long-stalked, upper ones smaller and more or less stalkless. Flowers large (3–5 cm across), golden-yellow, open cup-shaped, with 5 sepals and no petals, with numerous stamens. The fruits are a conspicuous cluster of follicles, becoming brown. **Hab** damp places such as carr, fen and wet grassland. **Dist** widespread and common throughout. **Alt** to 2,500 m. **Fl** Mar–Jul.



Larkspurs *Delphinium* | Resemble monkshoods (pp. 46–47) in colour and general form, but lack the helmet or hood and have roughly equal perianth segments, of which the upper has a backward-pointing spur. The 5 petal-like sepals enclose 4 reduced petals.

a) Alpine Larkspur

Delphinium elatum ssp. *elatum* [N/I]

A tall erect plant, to 2 m tall, hairless or with straight spreading hairs. Leaves palmately lobed, with 5–7 lobes divided almost to the centre. Flowers blue or blue-violet, up to 18 mm across, with 5 ovate petal-like sepals that are shorter than the spur and which enclose 4 blackish ‘honey leaves’ or modified petals, in a long terminal inflorescence. **Hab** open grassy and rocky areas in mountains. **Alt** to 2,400 m.

Dist Alpine chain from France eastward. **Fl** Jun–Aug.

ssp. *helveticum* is very similar but has narrower sepals, with a spur of about the same length. Central Alps only, as far east as western Austria.

b) SS *Delphinium austriacum* is also very similar but has larger flowers (to 22 mm across) with pale blue or yellowish petals (blackish in the above two).

Hab open grassy and rocky areas in mountains. **Dist** confined to Austria.



c) *Delphinium dubium*

Similar in form to Alpine Larkspur (a), but only to 1 m tall, stems with curved appressed hairs and straight hairs in the leafy part. Sepals narrow, mid to dark blue, making up flowers to 21 mm across with dark blue to blackish central petals. **Carpels** (fruits) usually glabrous. **Hab** shady or damp mountain areas. **Alt** to 2,700 m. **Dist** only in the Maritime Alps and parts of the Italian Alps. **Fl** Jun–Aug.

SS Mountain Larkspur *Delphinium montanum*

[N/I] is very similar, but is shorter (to 60 cm), very hairy with spreading hairs and with stalks of the upper leaves at least as long as the blade (shorter in (c)). Flowers pale blue or bluish-lilac, carpels hairy. **Hab** meadows and shady places, especially on north-facing slopes. **Alt** to 2,400 m.

Dist eastern and central Pyrenees only. **Fl** Jun–Aug.



Monkshoods *Aconitum* | Tall erect perennial plants with robust stems, palmate leaves and a (usually) unbranched spike of distinctive irregular flowers with the uppermost petal modified into a helmet.

Flowers yellow or creamy yellow

a) Wolfsbane *Aconitum lycoctonum*¹

A tall plant, to 120 cm, with a long branched or unbranched raceme of pale yellow flowers, each with a very tall spur-like helmet, up to 3× as long as broad. Leaves palmately lobed, with broad segments. Follicles normally 3 per flower. **Hab** widespread in grassy places, stream borders, woodland margins.

Alt to 2,400 m. **Dist** widespread and common throughout our area including the Alpine chain and the Pyrenees; naturalised in UK and Scandinavia. **Fl** Jun–Aug.

b) *Aconitum lamarckii*² is very similar to Wolfsbane (a) but has leaves that are paler green, flower racemes that are more dense and which have erect, not spreading, branches. **Hab + Dist** similar to Wolfsbane, although found no farther east than Slovenia.

c) Yellow Monkshood *Aconitum anthora*

Rather similar to Wolfsbane (a) and *A. lamarckii* (b) but with leaves divided more, into much narrower segments, each no more than 3 mm wide. Flowers deeper yellow, with a helmet no more than twice as high as wide. Follicles normally 5 per flower.

Hab drier grassy or rocky places, commonly on limestone. **Alt** to 2,200 m. **Dist** patchily throughout the Alpine chain, Jura and Pyrenees.

Flowers some shade of blue or blue and white

d) Northern Wolfsbane

*Aconitum septentrionale*³

Very similar in general form to Wolfsbane (a), but with pale to dark violet flowers in a hairy inflorescence, the spur-like helmet tapering sharply from a broad base. Follicles normally 3 per flower. **Hab** mixed open and shaded montane areas. **Dist** mountainous parts of Norway and Sweden. **Fl** Jul–Aug.



¹ *A. lycoctonum* includes *Aconitum vulparia* and *Aconitum lycoctonum* ssp. *vulparia* – taxonomy is uncertain.

² = *A. lycoctonum* ssp. *neapolitanum*.

³ = *A. lycoctonum* ssp. *septentrionale*.

a) Variegated Monkshood *Aconitum variegatum*

Similar in general form to Wolfsbane (a, facing page), but with distinctly **branched inflorescence** of which the terminal parts are often no larger than the lateral ones. Flowers blue, white or a mixture of both, with a broadly oblong helmet about twice as high as wide. Follicles normally 5 per flower, hairy along the split-line. **Hab** damp meadows, woods and riversides. **Dist** throughout the Alpine chain, the Jura and the Pyrenees. The Pyrenean form is hairless and looser, sometimes separated as ssp. *pyrenaica*. **Fl** Jul–Sep.



b) Aconitum degenii ssp. paniculatum¹ has a very glandular-hairy inflorescence and a helmet that is about as broad as high. **Dist** from Austria and Slovenia eastward.

c) Aconitum nasutum is often more bushy, with a dense inflorescence. The flowers produce 3 follicles that are hairless. **Hab** grassy areas. **Alt** to 2,000 m. **Dist** from Austria westward through the Carpathians (and as far east as the Caucasus).



d) ● Common Monkshood *Aconitum napellus*

Broadly similar in general form to other monkshoods, but usually with a **dense hairy, not glandular, unbranched inflorescence** of blue-violet flowers; if branched, the branches are erect, not spreading. The helmet is rounded, roughly as high as broad. Leaf segments narrow, up to 8 mm wide. A very variable species, often separated into many subspecies throughout its range. **Hab** grassland and light woodland. **Alt** to 2,400 m. **Dist** throughout the mountain areas south from Germany but absent as a native species from Scandinavia (present in southern England as a lowland native). **Fl** Jun–Sep.

SS Aconitum burnatii [N/I] is usually smaller than (c), with a glandular-hairy inflorescence. **Hab** similar to Common Monkshood (d). **Alt** to 2,200 m. **Dist** south-west Alps.



¹ = *A. variegatum* ssp. *paniculatum*, *A. paniculatum*. ² = *A. napellus* ssp. *burnatii*.

Columbines *Aquilegia* | A distinctive group of tufted perennial plants, unlike any other members of the family. Leaves 1–2 trifoliate. Flowers large with 5 coloured sepals and petals; petals each with a long backward-pointing nectar-secreting spur.

a) ● Common Columbine *Aquilegia vulgaris*

A conspicuous medium-tall variably hairy perennial, up to 1 m tall, often in vigorous clumps. Leaves twice-ternate, usually hairless above, hairy beneath, dull green. Flowers large, 3–5 cm long, deep violet blue (rarely pink or white, which may be an indication of hybridisation with garden escapes), with hooked spurs and yellow barely protruding anthers. **Hab** occurs in a variety of open and semi-shaded habitats, usually on calcareous soil. **Alt** to 2,200 m.

Dist native or naturalised throughout the area. **Fl** May–Jul.



b) Bertolon's Columbine

Aquilegia bertolonii

Similar to Common Columbine (a), but consistently smaller, to 30 cm tall, with few stem leaves and upper parts of the plant glandular-hairy. Spurs straight or slightly curved.

Hab open or shady limestone areas in the south-western Alps. **Alt** to 2,200 m. **Fl** Jun–Jul.



c) Dark Columbine

Aquilegia atrata

Although DNA studies suggest that this species “is not genetically distinguishable from the other members of the complex”, it is a distinctive and long-accepted species, differing from the above in its hairless leaves, dark reddish purple flowers, 3–4 cm long with markedly protruding yellow stamens. **Hab** similar to (b). **Alt** to 2,200 m. **Dist** Alps only.

Fl May–Jul.



d) SS *Aquilegia nigricans*

differs from (c) in its glandular-hairy sticky stems and larger flowers (5–6 cm long). **Hab** limestone areas. **Dist** an uncommon species from Slovenia eastward.

Fl May–Jul.



a) Einsel's Columbine

Aquilegia einseleana

A more delicate species, up to 40 cm high. Leaves mainly basal, almost hairless. Flowers similar to Common Columbine except that the spurs are straight or slightly curved. **Hab** open habitats such as grassland or screes, on limestone or dolomite. **Alt** to 2,000 m. **Dist** Alps from Italy east to Slovenia. **Fl** Jun–Jul.

b) SS *Aquilegia thalictrifolia*

is similar to Einsel's Columbine (a) but differs in its stickily hairy leaves and stems. **Hab + Dist** on shady limestone rocks in the Italian Alps only.

c) Pyrenean Columbine

Aquilegia pyrenaica

An attractive and delicate plant, no more than 35 cm tall, with small mainly basal leaves, stem hairless or hairy (but not sticky) above. **Flowers large** (3–5 cm long), solitary or few, bright blue, with straight or slightly curving (but not hooked) spurs. **Hab** rocky places and dry grasslands on limestone. **Alt** to 2,500 m. **Dist** Pyrenees and mountains farther west only. **Fl** Jul–Aug.

d) Alpine Columbine *Aquilegia alpina*

A strikingly attractive plant, rather similar in form to Pyrenean Columbine (c) but taller, to 80 cm, with 1–3 very large (6–8 cm long) bright blue flowers, with straight or slightly curving spurs. **Hab** rocky places and dry grasslands on limestone. **Alt** to 3,200 m. **Dist** western Alps as far east as central Italy (absent from the Pyrenees). **Fl** Jul–Aug.



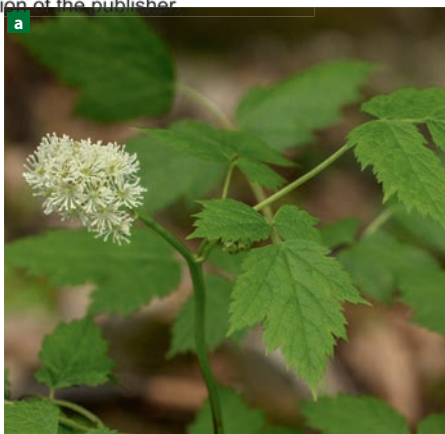
a) ● Baneberry *Actaea spicata*

A highly poisonous, herbaceous, hairless, strong-smelling perennial to 60 cm tall. Basal leaves large, long-stalked, pinnate or twice-ternate with toothed leaflets; stem leaves similar but smaller and shorter-stalked. Flowers white, small, with 4 white sepals and many long-stalked stamens, grouped together into conspicuous short cylindrical inflorescences. Fruit a black, ovoid berry, up to 12 mm long.

Hab woods, on limestone pavement and other damp calcareous habitats. **Alt** to 2,300 m.

Dist widespread and common throughout most of the area northward to north Scandinavia; mainly montane farther south. **Fl** May–Jun.

SS *Actaea erythrocarpa* [N/I] differs from (a) in its red berries. **Dist** only in north-eastern Scandinavia.



Meadow-rues *Thalictrum* | A group of hairless erect perennial herbs, with feathery 2–4-pinnate leaves and clusters of feathery flowers, each dominated by a central cluster of large stamens, with 4 inconspicuous petals and no sepals.

b) ● Alpine Meadow-rue

Thalictrum alpinum

The smallest (to 20 cm high) and simplest meadow-rue, with 2-ternate or pinnate leaves almost all in a basal rosette and a simple unbranched few-flowered terminal inflorescence. Stamens purple with yellow anthers; petals reddish. **Hab** open grassy and rocky places. **Alt** to 3,000 m.

Dist in all the higher mountains of the area.

Fl Jun–Aug.



c) ● Lesser Meadow-rue

Thalictrum minus

Similar to Small Meadow-rue (a, facing page) but with broader, ovate to almost circular, leaflets. Inflorescence branches longer, making for a more open panicle.

Hab grasslands. **Alt** to 2,800 m.

Dist throughout. **Fl** May–Aug.

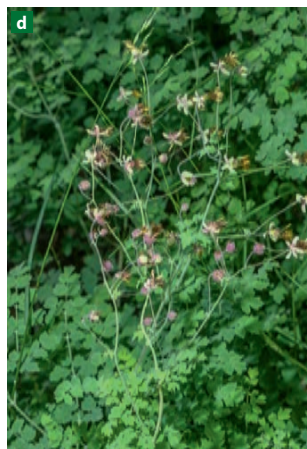


d) Stinking Meadow-rue

Thalictrum foetidum

Similar to Lesser Meadow-rue (c) but more spreading, shorter (to 60 cm) and usually with a wider inflorescence and an unpleasant aroma if rubbed. Leaflets greyish and at least part of the plant with glandular hairs. **Hab** rocky and grassy places, usually on limestone. **Alt** to 2,400 m.

Dist throughout the Pyrenees and Alpine chain east to Romania; but absent from mountains farther north. **Fl** Jun–Aug.



a) Small Meadow-rue

Thalictrum simplex

Erect plant to 1 m tall. Basal leaves 2–3-pinnate, with long narrow leaflets. The inflorescence has short branches, making it narrower and more cylindrical than other species. Flowers yellow. **Hab** grasslands. **Alt** to 2,000 m. **Dist** almost throughout except British Isles and northern Scandinavia. **Fl** Jul–Aug.



b) Great Meadow-rue

Thalictrum aquilegifolium

A conspicuous hairless perennial, up to 1.5 m tall. Basal leaves 2–3-pinnate with large leaflets (somewhat like those of *Aquilegia* (pp. 48–49) and leafy all up the stems. Wide panicles are much-branched. Flowers with conspicuous long purple or creamy [INSET] stamens, much longer than the greenish petals. Fruit 3-angled, pendulous. **Hab** damp grasslands and woods. **Alt** to 2,500 m. **Dist** throughout the Pyrenees and Alpine chain, northward to southern Sweden. **Fl** May–Jul.



c) Tuberous Meadow-rue

Thalictrum tuberosum

A hairless tuberous-rooted perennial, to 50 cm tall, with mainly basal 2–3-pinnate leaves. Distinguished from all other meadow-rues in the area by its conspicuous creamy-white flowers, to 3 cm across, with broad petals, looking more like an anemone. **Hab** dry rocky places. **Alt** to 2,000 m. **Dist** Pyrenees and Corbières only. **Fl** May–Jul.



d) Large-fruited Meadow-rue

Thalictrum macrocarpum

Similar to Tuberous Meadow-rue (c) but with smaller greenish yellow flowers, (± 1 cm across), which produce clusters of 2–5 distinctive large (up to 1 cm long) fruit [INSET]. **Hab** damp, rocky limestone areas. **Alt** to over 2,000 m. **Dist** west and central Pyrenees. **Fl** Jun–Aug.



a) False Anemone *Isopyrum thalictroides*

An attractive branched hairless perennial, up to ± 30 cm tall. Leaves very columbine-like, ternate with ternately divided leaflets, but with conspicuous pale greenish white stipules. Flowers white or pinkish, 1–2 cm across, with 5 petal-like lobes and a mass of yellow stamens. Much more branched than any *Anemone* (except the very different Narcissus-flowered Anemone), and lacking the ring of sepals that all *Ranunculus* (pp. 57–62) have. **Hab** woods and shady grasslands. **Alt** to 1,400 m. **Dist** scattered through the Pyrenees and Alpine chain. **Fl** Mar–May.



Anemones *Anemone* | Low-growing attractive herbs with well-divided, often feathery, leaves and a ruff of sometimes fused leaves below the flower. They differ from superficially similar buttercups, or similar flowers from unrelated families, by having only 1 whorl of petal-like perianth segments, with no outer green ring of sepals.

b) Yellow Anemone *Anemone ranunculoides*

Rather similar vegetatively to Wood Anemone (a, facing page), although with shorter-stalked stem leaves and bright yellow smaller flowers (up to 2 cm across). Readily distinguishable from buttercups, *Ranunculus* spp. (pp. 57–62) by the absence of an obvious outer whorl of green sepals. **Hab** woods and shady grasslands. **Dist** almost throughout (except the British Isles). **Alt** to 1,700 m. **Fl** Mar–May.



c) Narcissus-flowered Anemone

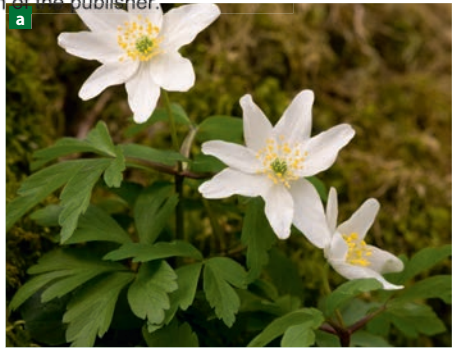
Anemone narcissiflora

A distinctive erect, hairy perennial, up to 40 cm tall. Basal leaves long-stalked, deeply palmately divided, stem leaves similar but smaller and stalkless. Flowers white or occasionally flushed pink, ± 3 cm across, with 5–6 broad perianth segments, borne in umbels of 3–8 flowers – no other anemone in the area has this feature. **Hab** grasslands, often calcareous. **Alt** to 2,600 m. **Dist** throughout the Alpine chain and the Pyrenees. **Fl** Jun–Jul.



a) ● Wood Anemone *Anemone nemorosa*

A low-growing perennial herb, to 30 cm tall, with deeply lobed downy long-stalked basal leaves that appear just after the flowers and wither soon after flowering. Flowers solitary, 2–4 cm across, on long stalks, with a whorl of 3 stalked leaves, and 6–7 (or rarely more) white petal-like hairless sepals, often flushed pink, and a mass of central yellow stamens. **Hab** usually in woodland or more rarely in grassland. **Alt** to $\pm 1,800$ m. **Dist** very widespread throughout the area. **Fl** Mar–May.



b) SS Trifoliate Anemone *Anemone trifoliata* is similar to Wood Anemone (a), but with leaves that are simply trifoliate with 3 roughly oval toothed leaflets. Flowers white with usually 6 perianth segments and a central mass of white (rarely blue) anthers. **Hab** shady places. **Alt** to 1,800 m. **Dist** eastern Alps from Austria eastward.



c) Snowdrop Windflower *Anemone sylvestris* More lowland, differing from Wood Anemone (a) in having larger flowers, to 7 cm across, with only 5 broader and thicker hairy white sepals. Stamens yellow, numerous. **Hab** grassland and woodland, usually on limestone. **Alt** rarely above 1,200 m. **Dist** locally east and north from the French Alps, naturalised in southern Scandinavia. **Fl** Apr–Jun.



d) Monte Baldo Anemone *Anemone baldensis*

A small downy high alpine plant, up to 15 cm tall, with basal leaves trifoliate then further divided 2–3 times. Stem leaves similar, but smaller, on short broad stalks. Flowers solitary or 2, white (although often reddish or bluish underneath), to 4 cm across, with 8–10 pointed perianth segments and anthers yellow. Seed heads elongating in fruit. **Hab** open alpine habitats. **Alt** to 3,000 m. **Dist** throughout the Alps eastward to Slovenia, not common. **Fl** Jun–Aug.



Although Monte Baldo Anemone is readily distinguishable from other anemones, particularly by its altitude, it may be confused with Alpine Pasque Flower (d, p. 55) which is taller, has larger flowers to 6 cm across, with less hairy perianth segments, and crucially has styles that elongate and become feathery as the fruit matures.

a) Hepatica *Anemone hepatica*

An attractive and distinctive early flowering little perennial, rarely more than 12 cm tall. Leaves basal, often appearing after the flowers, 3-lobed part way into 3 untoothed hairy lobes, sometimes mottled with pale green patches. Flowers single on unbranched stalks, up to 2.5 cm diameter, usually purplish blue although also white or pinkish, with 6–8 narrowly ovate petal-like lobes and a ring of 3 sepal-like bracts just below the flower. **Hab** wooded or scrubby habitats. **Alt** to 2,200 m.

Dist widespread almost throughout, except northern Scandinavia and the UK. **Fl** Feb–Apr (easily missed on account of its early flowering).

SS *Anemone transsilvanica* [N/I] has larger flowers, to 5 cm, and leaf lobes with several rounded teeth. **Hab** woods. **Alt** to 1,800 m. **Dist** central Romania only.



Pasque Flowers *Anemone* (formerly *Pulsatilla*) | Differ from anemones in having long feathery fused styles in fruit, forming large rounded heads, and more bell-shaped hairy flowers.

b) Haller's Pasque Flower *Anemone halleri*

A low-growing (to 15 cm when in flower) very hairy perennial, with deeply divided pinnate basal leaves with narrow linear segments; stem leaves stalkless, fused at the base, with narrow segments. Flowers bell-shaped, more or less erect, up to 8 cm across, with 6 or so rather pale bluish violet perianth segments. A variable species, sometimes separated into several subspecies. **Hab** montane grasslands. **Alt** to 3,000 m. **Dist** locally throughout the Alpine chain east to Romania. **Fl** May–Jul.



c) SS *Anemone montana* is very similar to Haller's Pasque Flower (b) but has leaves further pinnately divided, becoming hairless with age, and darker violet, slightly nodding flowers.

Dist western Alps and Carpathians. **Alt** to 1,800 m.

SS ● **Pasque Flower** *Anemone pulsatilla* [N/I] is an essentially lowland species, similar to *A. montana* (c) but less hairy, and with erect flowers and shorter more pointed perianth segments. **Hab** limestone grasslands. **Alt** to 1,000 m. **Dist** locally throughout to southern Scandinavia. **Fl** Apr–May.



a) Red Pasque Flower *Anemone rubra*

Wine-red to purplish red half-open flowers. **Hab** mid-altitude, usually calcareous, grasslands. **Alt** to 1,700 m. **Dist** Pyrenees and Cevennes. **Fl** May–Jun.



b) Small Pasque Flower *Anemone pratensis*

A low-growing hairy perennial (to 15 cm, taller when in ripe fruit) with feathery, silky, 3-pinnate stalked basal leaves and similar fused stalkless stem leaves. **Flowers** nodding, bell-shaped, usually purple but paler or even greenish blue farther south, 3–4 cm across, with **petals no longer than the stamens**. **Hab** grasslands, often on limestone. **Alt** mainly in the lowlands in the north but also to 2,100 m in the Alps. **Dist** an eastern species, from southern Scandinavia south-east to the Romanian Carpathians. **Fl** Apr–May.

c) Spring Pasque Flower *Anemone vernalis*

Short (to 15 cm, taller when in ripe fruit), with simply pinnate basal leaves; stem leaves with silky-hairy linear segments **forming a ruff around the flower**. Flowers white inside, pink to violet outside, to 6 cm across, drooping at first but becoming erect as they open. **Hab** stony and grassy high-altitude habitats, often close to melting snow. **Alt** to 3,500 m. **Dist** Pyrenees, the Alpine chain east to Poland and in the mountains of southern Scandinavia. **Fl** Apr–Jun.



d) Alpine Pasque Flower *Anemone alpina*¹

A very attractive erect hairy perennial, to 45 cm, with long-stalked twice-pinnate feathery basal leaves and **short-stalked smaller but similar stem leaves** (all other pasque flowers have unstalked stem leaves). Flowers large, to 6 cm across, usually white (but see (e)) but can be purplish outside, hairy. **Hab** montane grasslands, usually calcareous. **Alt** to 2,800 m. **Dist** Alps eastward to Slovenia and the Pyrenees. **Fl** May–Jul.

e) SS Yellow Pasque Flower *Anemone alpina* ssp. *apiifolia* like (d) but with **bright yellow flowers**. **Hab** montane grasslands, usually on acid soil. **Dist** Alps eastward to Slovenia and the Pyrenees.



¹ = *Pulsatilla alpina* and including *P. alba*.

a) ● Traveller's Joy *Clematis vitalba*

A distinctive rampant perennial climber, length to over 30 m. Leaves simply pinnate, with just a few heart-shaped ovate leaflets. Flowers small, to 2 cm across, cream to pale green, fragrant, with 1 whorl of narrow petal-like sepals and a central mass of conspicuous long stamens. Flowers gathered into large clusters. The fruit develop into the familiar 'old man's beard', with long feathery styles [INSET]. **Hab** a variety of usually sunny calcareous habitats. **Alt** to 2,000 m. **Dist** throughout as far north as southern Scandinavia. **Fl** Jun–Sep.



b) Alpine Clematis *Clematis alpina*

A strikingly beautiful scrambling perennial, up to 4 m long, with twice-ternate leaves that have coarsely toothed ovate leaflets. Flowers large, to 4 cm across, nodding open bell-shaped, violet-blue with 4 long petal-like lobes and a cluster of numerous pale yellowish stamens with staminodes in the centre. **Hab** rocky and grassy alpine habitats, often on acid soil. **Alt** to 2,900 m. **Dist** throughout the Alps and eastward to Romania; naturalised locally in Scandinavia. **Fl** Jun–Jul.



c) Pyrenean Pheasant's Eye *Adonis pyrenaica*

A deciduous herbaceous perennial up to 45 cm tall, with long-stalked very divided (2–4× pinnatisect) basal leaves and similar but smaller shorter-stalked stem leaves. Flowers large, to 6 cm across, with 10–15 golden-yellow glossy petals and 5 large greenish yellow sepals, about half as long as petals. **Hab** grassy and rocky places. **Alt** to 2,400 m. **Dist** Pyrenees and Maritime Alps only. **Fl** Jun–Jul.



d) Yellow Pheasant's Eye *Adonis vernalis*

Very similar to (c) but with no obvious basal leaves and only 2 sepals, each roughly as long as petals. Flowers slightly larger, to 8 cm. **Hab** grassy places usually on limestone. **Alt** a more lowland plant to 1,200 m. **Dist** widespread throughout our area as far north as southernmost Scandinavia. **Fl** Apr–May.



e) SS Several scarlet annual pheasant's eyes may reach into the mountains, although they are essentially lowland plants. They are hard to identify without ripe fruit. The most frequently encountered in the mountains is **Summer Pheasant's Eye** *Adonis aestivalis* [ILL]. **Hab** disturbed areas. **Alt** to 1,700 m. **Fl** May–Jul.



Buttercups *Ranunculus* | A familiar group of mainly perennial (at least, in the mountains) herbs with yellow or white flowers, usually 5 petals and sepals, with nectaries and numerous stamens, producing a cluster of single-seeded achenes. Although quite easy to recognise as a group, the yellow-flowered buttercups, in particular, can be hard to identify because their identification often depends on a selection of different characters, rather than any single character. The treatment below attempts to separate out some of the more obvious characteristics. There are at least 130 species in Europe, of which more than 30 frequently occur in the areas covered by this book.

A | YELLOW-FLOWERED *RANUNCULUS* BUTTERCUPS

A1 | With undivided or barely divided leaves

a) Thore's Buttercup

Ranunculus thora

A small hairless alpine perennial. At flowering, it has a single large, stalkless, kidney-shaped leaf on the stem, with smaller, often slightly lobed, leaves up the stem. After flowering, stalked basal leaves appear. Flowers yellow, 1–2 cm across, solitary or in a few-flowered branched open cluster. Unmistakable in flower, except for Hybrid Buttercup (b). **Hab** grasslands and rocky places on limestone. **Alt** to 1,200–2,200 m. **Dist** locally throughout the Alpine chain and Pyrenees, but absent farther north. **Fl** May–July.

b) Hybrid Buttercup

Ranunculus hybridus

Not a hybrid, despite the name. Rather similar to Thore's Buttercup (a), although usually smaller, with **1 or 2 basal leaves present at flowering**. Leaves greyish green, similar in shape to those of (a) but with **3 or more well-defined obvious large teeth at the tip**. Flowers similar. **Hab** open grassy and rocky places on limestone or dolomite. **Alt** to 2,500 m. **Dist** from Germany and Italy eastward in the Alps only. **Fl** May–Jul.

c) ● Lesser Spearwort

Ranunculus flammula

A very variable hairless perennial, erect to 70 cm, or creeping, sometimes rooting at the nodes. Leaves very variable from ovate to linear, often 3–4× as long as wide; lower ones stalked, upper ones less so. Flowers typical 'buttercup' style, shiny golden-yellow, up to 2 cm across, solitary or in loose branched inflorescences. **Hab** damp places – wet meadows, bogs, fens *etc.* **Alt** to 2,200 m. **Dist** widespread and common throughout the area, almost to the far north of Scandinavia. **Fl** May–Sep.



A2 | With sharply divided leaves (all the other yellow-flowered species)

A2-1 | Stems creeping and rooting

a) ● **Creeping Buttercup** *Ranunculus repens*

A familiar low creeping perennial herb of the lowlands, including as a garden weed, with **long rooting stolons**. Basal leaves roughly triangular, 3-lobed, of which the **central lobe has a distinct stalk**. Flowers quite large, to 3 cm across, borne on **furrowed stalks**. **Hab** grasslands and disturbed places, often slightly damp. **Alt** mainly lowland but also up to $\pm 2,000$ m in the mountains. **Dist** widespread throughout the area. **Fl** Apr–Sep.



SS *Ranunculus hyperboreus* [N/I] is a smaller creeping plant, with small, long-stalked 3–5-lobed leaves; flowers small, only 7 mm across, solitary on stalks arising from the creeping stem axils. **Hab** open, often damp, Arctic and subarctic habitats. **Alt** to 2,000 m. **Dist** only in northern Scandinavia southward to 61°N. **Fl** Jul–Aug.



A2-2 | Stems erect or at least not rooting at nodes

I Tiny high-altitude or high-latitude species

b) **Pygmy Buttercup** *Ranunculus pygmaeus*

Very small sprawling, almost hairless, perennial, barely 6 cm tall, with small stalked 3-lobed lower leaves that have broad blunt segments, and similar unstalked smaller stem leaves. Flowers small (5–10 mm across), yellow, with **separated petals and sepals as long as petals**. **Hab** open tundra and snow-melt areas.

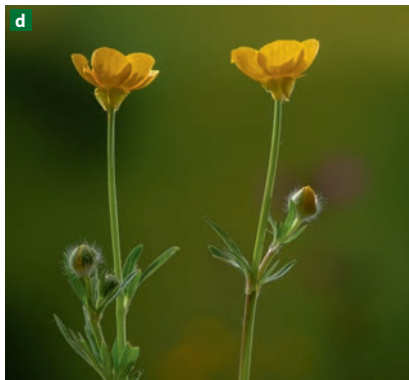
Alt to 2,800 m. **Dist** eastern Alps and western Carpathians, and also in Scandinavian mountains northward from 59°N. **Fl** Jul–Aug.



c) **SS Snow Buttercup** *Ranunculus nivalis*

Similar to Pygmy Buttercup (b) but taller, to 15 cm, with larger flowers to 2 cm across, and **conspicuously hairy sepals** (only slightly hairy towards the base in Pygmy Buttercup). **Hab** open tundra and montane habitats.

Dist Arctic only, southward to 62°N. **Fl** Jun–Aug.



2 All other yellow erect cut-leaved species

2a | Sepals strongly reflexed back down the stem

d) ● **Bulbous Buttercup** *Ranunculus bulbosus*

Erect hairy perennial, to 70 cm tall, usually less. Basal leaves 3-lobed and further divided with **furrowed stalks**; stem leaves similar but smaller with shorter stalks, uppermost sessile with narrow strap-shaped segments. Flowers to 3 cm across, with **strongly deflexed sepals, diagnostic among montane species**, on furrowed stems. **Hab** widespread in open usually dry grassy habitats. **Alt** to 500 m.

Dist northward to southern Scandinavia. **Fl** Apr–Jul.

2b | Sepals erect, not reflexed (all others in this group)

i | Plants markedly hairy or woolly

a) **Woolly Buttercup** *Ranunculus lanuginosus*

An erect very hairy perennial, to 60 cm tall. Leaves 3–5 lobed, with broad, toothed, barely dissected leaflets; basal leaves stalked, stem leaves less so. Whole plant woolly hairy, especially the stems. Flowers yellow, to 3 cm across. **Hab** woods and damp meadows. **Alt** to 2,200 m. **Dist** throughout the Alpine chain east to Romania and northward to Denmark; absent elsewhere. **Fl** May–Aug.



b) **Wood Buttercup** *Ranunculus tuberosus*

Similar in form to Woolly Buttercup (a), but rather less hairy, with leaves very similar in shape, although the lower axils can produce little rooting rosettes. Flowers similar, on furrowed stalks. **Hab** woods and scrub. **Alt** to 2,200 m. **Dist** throughout as far east as Austria and as far north as southern Sweden. **Fl** May–Jul.



ii | Plants not normally markedly hairy or woolly

c) ● **Meadow Buttercup** *Ranunculus acris*

An erect more or less hairless perennial, up to 1 m tall although normally less. Basal leaves stalked, divided into 3–7 stalkless segments, each usually divided again into narrow segments. Stem leaves similar but smaller and short-stalked. Uppermost stem leaf often divided into narrow strap-shaped segments. Flowers typical, up to 2.5 cm across, borne on rounded unfurrowed stalks. **Hab** common in sunny grassy places. **Alt** to 2,200 m. **Dist** throughout the area. **Fl** Apr–Oct.



d) ● **Goldilocks Buttercup** *Ranunculus auricomus*

A very variable plant, probably made up of several species but still under study. Roughly similar to Meadow Buttercup (c) in form, but differing in having 3–5-lobed leaves that vary from moderately deeply lobed to almost circular, barely lobed at all. Upper stem leaves stalkless and divided into up to 7 narrow strap-shaped untoothed segments. Flowers similar to the species above except that they are almost always imperfect with one or more missing or shorter petals – a distinctive feature. **Hab** woodlands and shady grasslands. **Alt** to 2,200 m in the mountains. **Dist** widespread although local throughout the area. **Fl** Apr–May.



2b ii | The Mountain Buttercup *Ranunculus montanus* group is made up of nine species in the area, all rather similar and roughly defined as being short (under 50 cm) mountain plants, hairless or downy, with quite small basal leaves, rounded in outline but cut into 3–5 lobes; stem leaves usually cut into long narrow lobes. Flowers golden-yellow, 2–4 cm across. **Hab** meadows, woods and screes. All usually flowering May–Aug.

a With hairless basal leaves

a) Mountain Buttercup *Ranunculus montanus*

Leaves divided into broad segments, hairless apart from slightly bristly margins. Stem leaves almost always strap-shaped, clasping the stem. **Hab** grassland usually on limestone. **Alt** to 2,400 m. **Dist** Alps and Jura.

b) SS Carinthian Buttercup *Ranunculus carinthiacus* is very similar to Mountain Buttercup (a), differing mainly in the more divided lower leaves with narrower segments and the **longer and narrower stem leaves** (6–15× as long as wide, compared with 2–7× in Mountain Buttercup). **Dist** + **Hab** similar to Mountain Buttercup (a), although less common.

b With hairy basal leaves

SS *Ranunculus oreophilus*¹ [N/I] is very similar in form to (a) and (b) but has hairy basal leaves that are **folded as they emerge**. **Dist** throughout the Alpine chain east to Romania.

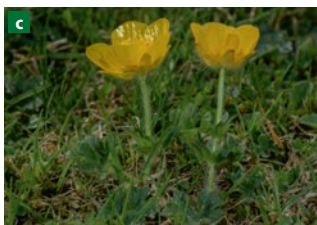
c) Gouan's Buttercup *Ranunculus gouanii*² is similar in general form to the rest of the group, but with conspicuously **relatively larger flowers to 40 mm across**; stem leaves broader and sometimes lobed and toothed; sepals very hairy. **Hab** grassy and rocky places. **Alt** to 2,500 m. **Dist** Pyrenees and westward only.

d) *Ranunculus sartorianus*³ is similar to Gouan's Buttercup (c), but basal leaves divided more than halfway to the centre, stem leaves narrowly linear, **flowers only to 22 mm across**. **Hab** on acid rocky and grassy sites. **Dist** Pyrenees and Alps east to western Austria. **Fl** May–Jul.

e) Hooked Buttercup *Ranunculus aduncus* is only reliably distinguishable by the ripe achenes that have a **beak at least one-third the length of the fruit, curled in a full circle**. **Hab** rocky and grassy places on calcareous rocks. **Alt** to 2,200 m. **Dist** Pyrenees and south-western Alps only.

SS *Ranunculus venetus* [N/I] has very hairy leaves, and the achenes have a short stout rigid beak. **Dist** southern Italian Alps only.

FRUIT with strongly curved beak



¹ = *R. hornschi*, or sometimes equated with *R. breynius*.

² The scientific name is considered ambiguous, but at present there is no alternative.

³ *R. sartorianus* includes *R. ruscinonensis*, *R. villarsii* and *R. grenieianus*.

B | WHITE-FLOWERED *RANUNCULUS* BUTTERCUPS

B1 | Tall erect herbs, 50–120 cm high, with much-branched inflorescences and deeply cut leaves, in lush habitats at mid altitudes.

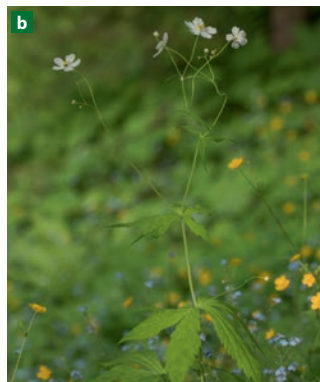
a) Aconite-leaved Buttercup *Ranunculus aconitifolius*

A medium-height perennial, up to 60 cm tall, rarely more. Leaves cut into 3–5 lobes, with the **middle lobe cut right down to the centre, and the lobes toothed up to the tips**. Flowers white, 1–2 cm across with 5–6 petals; **flower stalks hairy, at least at first** (less obvious if the flowers are fully open). **Hab** damp meadows or open woods. **Alt** to 2,500 m. **Dist** throughout the Alps and Pyrenees.

Fl May–Aug.



b) SS Plane-leaved Buttercup *Ranunculus platanifolius* is very similar to (a), but usually taller, to 1.2 m, with long flower stalks. Leaves 5–7-lobed, with the **central lobe not cut to the middle, each lobe elongated into an untoothed tip**. Flowers similar but borne on **hairless, or barely hairy, stalks**. **Hab** similar to (a), although often drier. **Alt** to 2,200 m. **Dist** throughout northward to northern Scandinavia.



B2 | Low-growing alpine plants rarely more than 40 cm high

Group 1 | Leaves undivided and untoothed

c) Kuepfer's Buttercup *Ranunculus kuepferi*

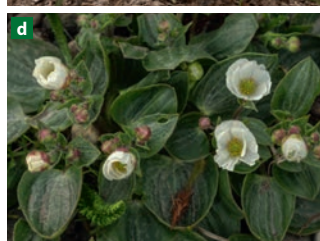
Erect clump-forming perennial, to 30 cm tall. Leaves narrowly or broadly lanceolate, untoothed and unlobed, slightly greyish. Flowers large, up to 3 cm across, with **yellowish green sepals**, borne on hairy stalks. **Hab** damp alpine pastures. **Alt** to 2,200 m. **Dist** Alps, eastward to Austria (also Corsican Mountains, as a different subspecies). **Fl** May–Jul.



SS Pyrenean Buttercup *Ranunculus pyrenaicus* [N/I] is very similar to Kuepfer's Buttercup (c), but is smaller and less robust (to 15 cm), leaves generally narrower, and **sepals whitish**. **Hab** high, usually acid grasslands. **Alt** to 2,800 m. **Dist** Pyrenees and nearby mountains only. **Fl** May–Jul.

d) Parnassus-leaved Buttercup *Ranunculus parnassifolius*

A small, highly variable perennial (often divided into subspecies). Up to 25 cm tall, with broadly lance-shaped or ovate shiny thick leaves (**much shorter and wider than either Kuepfer's or Pyrenean Buttercup**) with a heart-shaped base; stems leaves smaller and clasping. Flowers white or pink, 2–3 cm across, sometimes irregular; sepals **usually hairy**. **Hab** rocky high-altitude habitats, often on limestone. **Alt** to 2,900 m. **Dist** Pyrnees and Alps east to Austria. **Fl** Jul–Aug.



e) SS Amplexicaul Buttercup *Ranunculus amplexicaulis* is very similar to Parnassus-leaved Buttercup (d) but has longer basal leaves with a **wedge-shaped base** and **pale hairless sepals**. **Hab** grassy and rocky places on limestone. **Alt** to 2,300 m. **Dist** central Pyrenees. **Fl** Jun–Jul.



Group 2 | Leaves divided or at least toothed

a) Glacier Crowfoot *Ranunculus glacialis*

A low-growing plant, to 25 cm, clump-forming, hairless (except for the sepals), with 3-lobed short-stalked lower leaves and narrower stem leaves. Flowers large, to 4 cm, **white but becoming pink after pollination** [INSET]. Sepals with **abundant purplish brown hairs**.

Hab acidic high-altitude and Arctic habits, such as tundra and moraines. **Alt** to at least 4,000 m. **Dist** throughout the mountain and Arctic parts of our area. **Fl** Jun–Oct.



b) Alpine Buttercup *Ranunculus alpestris*

A very pretty low-growing, to 15 cm, clump-forming, hairless, shining plant, with 3–5-lobed stalked basal leaves and strap-shaped stalkless stem leaves. Flowers white, to 2.5 cm, with 5 usually notched petals. **Hab** rocky places, snow patches and high-altitude grasslands, usually on calcareous rock. **Alt** to 3,000 m.

Dist throughout the Alpine chain and Pyrenees. **Fl** Jun–Sep.



c) SS Seguer's Buttercup *Ranunculus seguieri* is similar to Alpine Buttercup (b) but **downy-hairy** (at least at first), **not shiny**, with more narrowly divided basal leaves and similar stem leaves (**not strap-shaped**); petals not notched. **Hab** grassy and stony places on limestone. **Alt** to 2,700 m. **Dist** Jura and Alps only, eastward to Slovenia. **Fl** Jun–Jul.



d) Crenate Buttercup *Ranunculus crenatus*

Small hairless perennial, up to 15 cm high, with small, stalked, round/heart-shaped toothed or lobed basal leaves and linear stem leaves. Flowers to 2.5 cm across, sepals narrow. **Hab** damp rocky places. **Alt** to 2,400 m. **Dist** Alpine chain eastward from Austria and Italy. **Fl** Jun–Jul.

e) SS *Ranunculus bilobus* is very similar to Crenate Buttercup (d) but has **more prominent veins on the leaves**, **markedly notched petals** and **wider sepals**. **Hab** a rare plant of limestone rocky places. **Alt** to 2,000 m. **Dist** eastern Italian Alps only. **Fl** Jun–Jul.



Box family | Buxaceae

a) ● Box *Buxus sempervirens*

A distinctive and familiar evergreen shrub, to 5 m tall, occasionally more. Leaves small, 2–3 cm long, leathery, ovate, glossy green above and paler below; generally hairless except for a white pubescence in parts. Male flowers more conspicuous, with 4 sepals and 4 long yellowish stamens; female flowers hidden among them. Fruit is a small (up to 8 mm across) 3-horned capsule. **Hab** dry sunny limestone areas. **Alt** to 2,000 m **Dist** widespread and common, but absent from Scandinavia and most of the eastern Alpine chain. **Fl** Mar–Apr. Currently very affected by the spread of the Box Moth.



Peony family | Paeoniaceae

b) Common Peony *Paeonia officinalis*

A vigorous attractive clump-forming herbaceous perennial, up to 90 cm tall, with large twice-ternate shiny leaves made up of 20–30 narrow leaflets. Flowers large, 8–13 cm across, cup-shaped, red or dark pink with 5–8 petals and a mass of yellow stamens on red filaments. The flowers give rise to 2 or 3 downy follicles. **Hab** meadows and woods, often on limestone. **Alt** to 1,800 m. **Dist** widespread but local throughout the Alpine chain and the Pyrenees. **Fl** May–Jun.



c) Peony *Paeonia mascula*

A more lowland plant, similar to Common Peony (b) but with fewer (9–15) broader leaflets, which have minute bristles along their edges. **Hab** native in warm grassy limestone sites. **Alt** to 1,200 m **Dist** from Spain to Romania, although also encountered as a garden escape. **Fl** May.



Gooseberry family | Grossulariaceae

Small deciduous shrubs with alternate stalked palmately lobed leaves. Flowers regular with 5 small petals, shorter than the sepals, and a single inferior 2-styled ovary, giving rise to a fleshy berry.

a) ● Wild Gooseberry *Ribes uva-crispa*

A distinctive, small, much-branched shrub, to 1.5 m tall, **armed with long spines** at the nodes. Leaves 3–5-lobed, rounded, small – rarely more than 5 cm wide. Flowers greenish yellow or red-tinged, small, in clusters of 1–3 in the axils, giving rise to distinctive ovoid-spherical fleshy green or reddish green bristly fruits, up to 2 cm across (larger in cultivated forms). **Hab** scrub, woodland and rocky places. **Alt** to 2,000 m. **Dist** throughout the area, but nowhere native in Scandinavia. **Fl** Mar–May.



b) Rock Redcurrant *Ribes petraeum*

Shrub to 3 m tall, with large (up to 10 cm across) wrinkled 3–5-lobed leaves. Flowers **pale reddish, bell-shaped** in long drooping racemes of 20–30; petals small, erect, white to pale red. Fruit a dark red smooth acid-tasting berry. **Hab** shady or semi-shaded habitats. **Alt** to 2,400 m. **Dist** throughout the Alpine chain and Pyrenees. **Fl** May–Jul.



c) ● Redcurrant *Ribes rubrum*

Similar in form to Rock Redcurrant (b) but has **plain green, slightly flatter flowers** [INSET], and bright red berries. **Hab** shady or semi-shaded habitats. **Alt** mainly lowland, to 1,600 m. **Dist** locally naturalised in Scandinavia. **Fl** Apr–May.



d) SS ● Downy Currant *Ribes spicatum* differs from Redcurrant (c) mainly in having a bowl-shaped (not flat) flowers [INSET] and **anther lobes (not the anthers themselves) touching**, not widely separated. **Hab** damp woods and streamsides. **Dist** north from Britain to far northern Scandinavia. **Fl** May–Jun.

e) ● Blackcurrant *Ribes nigrum*

Similar in form to other *Ribes* spp., but with reddish green flowers, **glandular strongly aromatic leaves**, and familiar blackcurrant fruits. **Hab + Dist** native or naturalised throughout, but rarely in the mountains. **Fl** Apr–May.



f) Mountain Currant *Ribes alpinum*

An open bush, up to 2 m tall, with angular 3-lobed leaves, often longer than wide. Male and female flowers borne on separate bushes (dioecious), in erect glandular racemes made up of 10–20 small **greenish flowers with a conspicuous bract at the base of each**. Fruit a shiny scarlet ovoid berry. **Hab** rocky places and open woods, often on limestone. **Alt** to 2,200 m. **Dist** widespread throughout from the Pyrenees to central Scandinavia. **Fl** Apr–May.

Saxifrage family | Saxifragaceae

In Europe, all of this family are herbaceous, usually perennial, although occasionally annual or biennial. Leaves usually alternate or basal. Flowers regular, 5-parted, with 10 stamens. Ovary inferior or superior. Although not a large family, the saxifrages assume greater importance in the mountains of Europe where there are many species. The genus *Saxifraga* has recently been split into *Micranthes* and *Saxifraga* on the basis of DNA data, although without clear morphological correlation, and there is still uncertainty. We have kept them as *Saxifraga* but noted the synonyms.

It is difficult to subdivide the species by clear-cut simple characters, so we have just treated them in near taxonomic order. Most should be identifiable from the combination of text and photographs. Important features to look at are leaf shape and arrangement, flower colour and presence or absence of spotting on the petals.

a) ● **Starry Saxifrage** *Saxifraga stellaris*

A low-growing tufted plant, to 20 cm high. Leaves ovate to spoon-shaped, up to 5 cm long, with 3–5 teeth on each side, all in a basal rosette. Flowers each 10–15 mm across, in open branched leafless clusters, with 5 narrow white petals, each with two yellow spots; sepals strongly reflexed.

Hab damp mossy streams and marshes. **Dist** in all the mountain ranges of the region, and in Arctic habitats in the far north. **Fl** Jun–Aug.

b) SS Saxifraga foliolosa differs in being not tufted and with only one rosette of narrow leaves. Inflorescence narrowly branched, with very few flowers, or sometimes just bearing reddish bulbils.

Hab Arctic habitats. **Dist** from central Norway northward. **Fl** Jun–Aug.

c) SS French Saxifrage *Saxifraga clusii* differs from (a) and (b) in its larger leaves with 5–10 teeth on each side and the large and leaf-like lower stem bracts giving the stems a more leafy appearance.

Hab by streams and on damp rocks. **Alt** to 2,500 m. **Dist** very local in the Cevennes and Pyrenees. **Fl** Jun–Jul.

d) ● **Arctic Saxifrage** *Saxifraga nivalis*

Has a rosette of wedge-shaped leaves with toothed or lobed margins and stems up to 20 cm tall. The flowers are white or pale pink, ± 6 mm across, unstalked, in dense mainly terminal clusters on a leafless stem. **Hab** widespread in crevices of base-rich rocks. **Alt** to 2,100 m. **Dist** montane and Arctic parts of Scandinavia, with isolated occurrences in UK and Poland. **Fl** Jun–Jul.

SS Slender Saxifrage *Saxifraga tenuis* [N1] is smaller in all parts, to no more than 12 cm high. Flowers stalked, in looser clusters. **Hab** open damp arctic habitats. **Dist** from southern Norway northward. **Fl** Jun–Jul.



a) Spoon-leaved Saxifrage *Saxifraga cuneifolia*

Low-growing, to 15 cm tall, with rosettes of spoon-shaped hairless leaves up to 3 cm long with slightly hairy stalks arising from a creeping stem, often giving rise to clusters of plants. Flowers in an open panicle on a leafless erect stem; **each flower white**, 5–8 mm across, **usually unspotted**, with downturned sepals. **Hab** locally in woods and shady rocks. **Alt** to 2,300 m. **Dist** almost throughout the Alpine chain, Cevennes and Pyrenees and surrounding areas but absent farther north. **Fl** Jun–Aug.

b) SS Wood Saxifrage *Saxifraga umbrosa* differs from Spoon-leaved Saxifrage (a) in having leaf-stalks which are densely hairy and **petals which each have 2 yellow and several red spots**. **Hab** similar to (a). **Alt** to 2,200 m. **Dist** west and central Pyrenees only. **Fl** Jun–Jul.

c) SS ● Kidney Saxifrage *Saxifraga hirsuta* is similar to Spoon-leaved Saxifrage (a), but leaves round to kidney-shaped, hairy on both surfaces, with a long stalk; **petals white with many red spots**. **Hab** similar to (a). **Alt** to 2,000 m. **Dist** Pyrenees and south-west Ireland.

The London prides, together with *S. spathularis* [N/I], form several hybrids, some of which are widely cultivated and naturalised, especially:

d) Scarce London Pride *Saxifraga ×geum* (*S. umbrosa* × *S. hirsuta*) is variably intermediate between its two parents. **Dist** common in the wild where both occur, but also widely planted and occasionally naturalised as far north as northern Scandinavia.

London Pride *Saxifraga ×urbium* (*S. umbrosa* × *S. spathularis*) [N/I] is a vigorous spreading hybrid which has hairy-edged stalks (about as long as the rounded wedge-shaped hairless leaf blade) and pinkish sterile flowers. **Dist** often naturalised, although uncommon in the mountains.

e) Round-leaved Saxifrage
Saxifraga rotundifolia

Although this species is rather similar to several of those above, it is obviously different in having **leafy stems**, to 80 cm tall, with **numerous rounded to heart-shaped sharply toothed leaves** on slender stalks throughout the plant. Flowers many, white, 12–18 mm across with each petal covered with yellow spots at the base changing to red towards the tip [INSET]. **Hab** damp or shady places. **Alt** to 2,300 m. **Dist** throughout the Alpine chain and Pyrenees but absent farther north. **Fl** Jun–Sep.



a) Fragile Saxifrage *Saxifraga paradoxa*

A small, delicate perennial, rarely reaching more than 20 cm tall, with **small kidney-shaped leaves with rounded lobes**; leaf-stalks slender. Flowers small, to 8 mm across, with **inconspicuous narrow greenish petals**, in few-flowered axillary inflorescence. **Hab** on shady acid rocks. **Alt** to 1,000 m. **Dist** confined to a small area where north-west Slovenia meets Austria. **Fl** Jun–Aug.



b) Hawkweed Saxifrage *Saxifraga hieracifolia*

Leafless stems to 40 cm tall with rosette of large (to 7 cm long) stalked oblong-ovate, usually untoothed, leaves and **small dull greenish red flowers** that are borne in dense clusters. **Hab** damp rocks and tundra. **Dist** mountains of Norway and locally in the Carpathians and Auvergne, although curiously absent from the Alps. **Fl** Jul–Aug.



c) Rough Saxifrage *Saxifraga aspera*

A loosely matted sprawling perennial plant, up to 30 cm tall. Although generally hairless, the plant has long narrow spreading unstalked pointed leaves **edged with conspicuous rigid bristles** [INSET] – the origin of its name. The flowers are borne in loose panicles, primarily white, 10–16 mm across, but spotted and flushed with yellow towards the centre, and sometimes red-spotted towards the tips.

Hab rocky places, usually acidic such as granite.

Alt to 2,200 m. **Dist** Alps as far east as Austria and in the eastern Pyrenees. **Fl** Jun–Aug.

d) SS Moss Saxifrage *Saxifraga bryoides*

is similar to Rough Saxifrage (c) but much more compact and short, **rarely exceeding 10 cm tall, with tight cushions of shorter incurved leaves**.

Each inflorescence has just 1 or 2 flowers, which are similar to the above. **Hab** similar to (c), but generally at higher altitudes. **Alt** to at least 3,500 m.

Dist Alpine chain from Romania west to the Pyrenees, but absent farther north. **Fl** Jul–Aug.



a) ● Rue-leaved Saxifrage

Saxifraga tridactylites

An inconspicuous spring annual or ephemeral, up to ± 20 cm tall. Basal leaves spoon-shaped, but **withering by flowering time**; stem leaves wedge-shaped, variably divided into 3–5 lobes, usually becoming reddish. Flowers in a loose spreading hairy inflorescence, small (4–6 mm across), slightly bell-shaped, **white with entire or slightly notched petals**. **Hab** a variety of dry open mostly calcareous habitats. **Alt** to 1,800 m. **Dist** widespread and locally common throughout the area northward to central Norway. **Fl** Apr–Jun.

b) SS Biennial Saxifrage *Saxifraga adscendens*

differs from Rue-leaved Saxifrage (a) in being **biennial, less reddish and in its distinct rosette of leaves**, usually persisting until the end of flowering. Flowers larger, 6–10 mm across, usually yellowish towards the centre, **with distinctly notched petals**. **Hab** damp rocky places. **Alt** to 3,500 m. **Dist** throughout the Alpine chain, the Pyrenees, and northward to northern Norway. **Fl** Jun–Aug.

c) Awl-leaved Saxifrage *Saxifraga tenella*

A low-growing loose **mat-forming** perennial, with flowering shoots up to 16 cm tall. Leaves short and narrow (approx. 10×1 mm), pointed, in short tight clusters at the base of the stems. Flowers white, 5–7 mm across, with a **bristly calyx**, in loosely branched slender-stemmed clusters. **Hab** rocky places, usually on limestone. **Alt** to 2,400 m. **Dist** in a small area of the south-eastern Alps. **Fl** Jul–Aug.

d) Cobweb Saxifrage *Saxifraga arachnoidea*

A rare and distinctive small plant, with flowering stems up to 20 cm tall arising from a tangled mass of **cottony cobweb-covered oval lobed leaves**, unlike any other species. Flowers long-stalked, white or pale creamy-yellow, 4–6 mm across, in loose clusters. **Hab** confined to shady rocks and cave-mouths. **Alt** to 1,700 m. **Dist** in a small area of Italy, north-west of Lake Garda. **Fl** Jun–Aug.

e) *Saxifraga petraea*

A soft loose sprawling **sticky-glandular** species, to 30 cm tall or long, reminiscent of a *Geranium* (pp. 174–178). It has rounded leaves, deeply divided into numerous rounded or pointed lobes. **Hab** on shady limestone rocks, often overhanging. **Dist** southern Alps of Italy and Slovenia. **Alt** to 1,900 m. **Fl** Jun–Jul.



a) Neglected Saxifrage *Saxifraga praetermissa*

A low-growing mat-forming perennial, with spreading leafy shoots. Leaves roughly wedge-shaped, to 15 mm long, with 3–5 pointed lobes towards the tip and a hairy stalk. Flowering stems slender, up to 15 cm tall, arising from the axils of the prostrate leafy shoots. Flowers white, $\pm$ 1 cm across, solitary or 2–3 in a loose inflorescence. **Hab** damp, often shady screes and rocky places, usually avoiding limestone, at higher altitudes. **Alt** to 2,800 m. **Dist** Pyrenees and Picos de Europa. **Fl** Jun–Aug.

SS Saxifraga wahlenbergii [N/I] is rather similar to (a), differing in having hairless leaf-stalks, blunt leaves, and a shorter flowering stem (to 10 cm) which arises from near the tip of the leafy shoots. **Hab** damp rocky and shady places. **Alt** to 2,500 m. **Dist** western Carpathians only. **Fl** Jul–Aug.

b) Water Saxifrage *Saxifraga aquatica*

A robust, spreading, slightly hairy perennial, often forming large leafy patches. Leaves are long-stalked, roughly semi-circular but deeply 3-lobed – each lobe further divided into triangular sections. Flowering stems robust and leafy, to 60 cm tall, with numerous white flowers in a cylindrical inflorescence. Flowers large, 12–18 mm across, with broad un-notched petals. **Hab** on the margins of, and often in, faster-flowing streams on acid rock. **Alt** to 1,500–2,400 m. **Dist** Pyrenees and west to the Picos de Europa. **Fl** Jun–Aug.

c) Mossy Saxifrage *Saxifraga hypnoides*

A loosely matted perennial, with long leafy shoots terminating in a summer-opening bud. Leaves vary from narrowly linear, undivided, to broader leaves divided into 3–5 narrow lobes. From the mat, flowering stems up to 20 cm tall arise, branched above the middle to form a loose panicle with 2–7 flowers. Flower buds nodding, opening to produce white flowers, 1–2 cm across, held erect. **Hab** a variety of grassy and rocky places, often on limestone. **Alt** to 1,400 m. **Dist** NW Europe only, in the British Isles, Iceland and a small area of Norway. **Fl** Apr–Jul.

d) SS Saxifraga fragosoi differs in its smaller flowers, more divided leaves, and translucent membranous leaves in the outer part of the summer buds. Some untoothed leaves can be very narrow. **Hab** mainly acidic rocky sites. **Alt** to 1,700 m. **Dist** mountains of southern France and northern Spain and at low altitude in the eastern Pyrenees. **Fl** Apr–Jul.



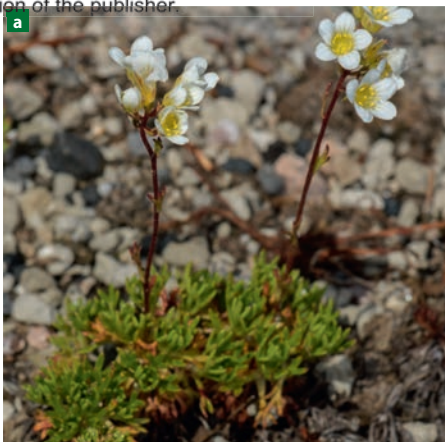
a) Hairless Mossy Saxifrage*Saxifraga pentadactylis*

A low-growing hairless perennial, forming rounded cushions made up of wedge-shaped leaves divided into 5 (or 3) narrow pointed lobes. The leaves and stems are **slightly sticky**. Flowers white, to 1 cm across, in quite dense **mainly terminal clusters** up to 20 cm tall. **Hab** acid rocky places and screes.

Alt to 1,700–2,900 m. **Dist** eastern Pyrenees, and mountains farther south in Spain. **Fl** Jun–Jul.

SS *Saxifraga cuneata* [N/1] is similar to Hairless Mossy Saxifrage (a) but has **many dead leaves in the cushion**, and its leaves are divided into 3 broader lobes, resembling a fan. The **inflorescence arises from a leaf axil**. **Hab** limestone rocks and screes.

Alt to 1,900 m. **Dist** western Spanish Pyrenees and mountains farther west. **Fl** May–Jul.

**b) Geranium-like Saxifrage***Saxifraga geranioides*

A slightly woody perennial, bearing loose cushions of light green foliage, to 25 cm tall. **Leaves roughly circular in outline but deeply divided into 3 main lobes**, further divided into 13–27 pointed segments – somewhat like the leaf of a *Geranium* (pp. 174–178). The leaf surface is covered with a **fine down of short glandular hairs**. Flowers white, 20–24 mm across, bell-shaped, faintly primrose-scented, in quite dense terminal clusters. **Hab** rocks and screes on acid soil. **Alt** to 2,800 m. **Dist** eastern Pyrenees only. **Fl** May–Aug.

**c) SS Scented-leaved Saxifrage**

Saxifraga intricata is similar to Geranium-like Saxifrage (b) but has smaller tighter cushions, **darker green leaves** [INSET] and **smaller flowers** (8–10 mm across) with noticeably broad rounded petals. **Hab** acidic rocks, often in quite dry situations. **Alt** to 2,600 m. **Dist** eastern and central Pyrenees, and very locally farther west.

**d) Flat-leaved Saxifrage** *Saxifraga muscoides*

A low-growing plant forming dense cushions made up of tiny rosettes of narrow, blunt, unlobed hairy leaves, up to 6 mm long. From these, short (to 5 cm) slightly leafy stems arise inflorescences with 1–3 flowers. Flowers $\pm$ 1 cm across, white to pale creamy-yellow with broad blunt petals that usually just touch. **Hab** rocks and rocky places, often lime-rich, at high altitudes. **Alt** to more than 4,000 m. **Dist** endemic to the Alps, as far east as Austria.

Fl Jun–Aug.



(continued...)

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