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Supplement to BLACKALL & GRIEVE - How to
Know Western Australian Wildflowers, Parts
I, II, III; containing "How to Use this Book"
and Index to common names

These two sections were in the original three volumes,
but were left out of the reprinted work. The "How to
Use this Book" has been reproduced with the permission
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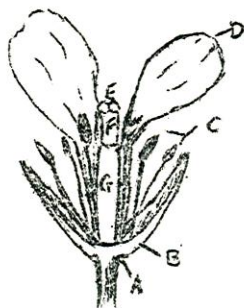
DEPARTMENT OF FISHERIES AND FAUNA
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Parts of a Flower (Stylized)



N.B. A flower does not necessarily have all these parts. Some may be absent, highly modified, or fused with another part

A. Receptacle B. Sepal (collectively these form the calyx) C. Stamens (anthers and filaments) D. Petals E. Stigma F. Style G. Ovary E.F. & G. Form the Pistil



Superior Ovary



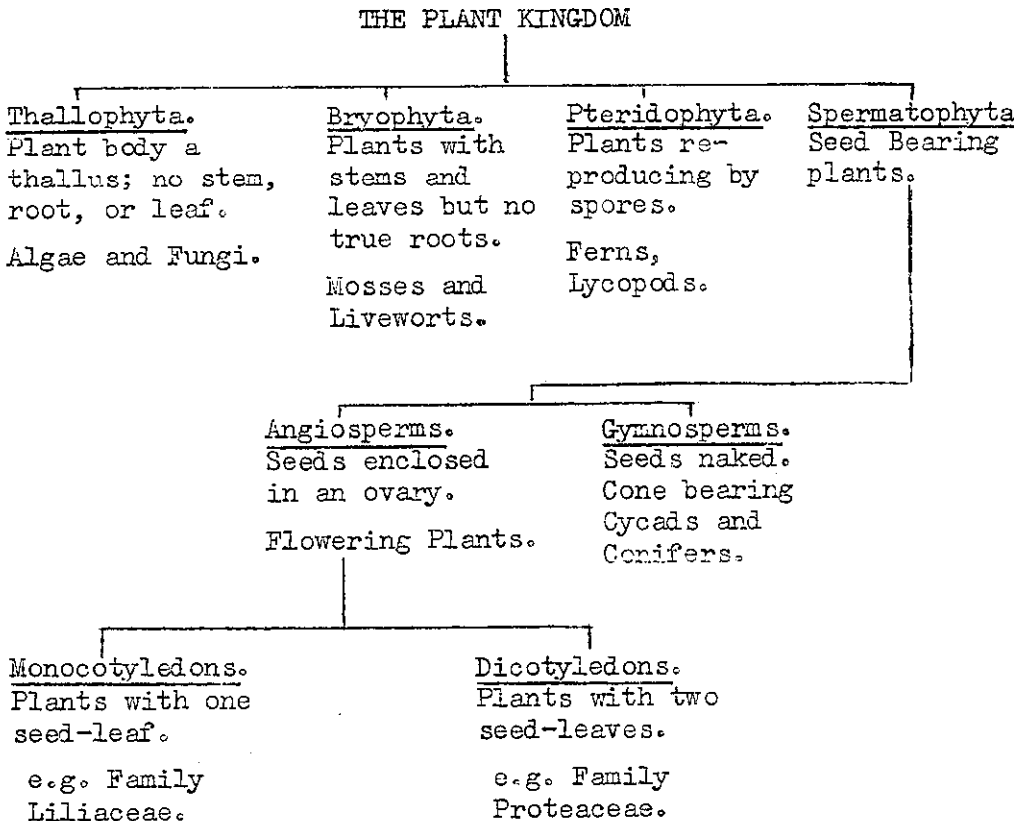
Inferior ovary



Half Inferior Ovary

HOW TO USE THIS BOOK

Anyone consulting this book who has not had any formal botanical training will need first of all to understand how plants are classified. The main subdivisions of the Plant Kingdom are as shown below:-



This book deals only with the Pteridophyta and Spermatophyta. The former group, as shown above, is divided into families of Ferns . Lycopods. The latter group is divided first

to give the Gymnosperms and Angiosperms. With a further subdivision of the Angiosperms into Monocotyledons and Dicotyledons, all then subdivide into Families. These are set out on pages xiii to xxx in the Key to the Families.

A plant Family consists of a group of plants with certain distinctive characteristics which separate it off clearly from any other group. Plant Family names always end in ae, e.g. Leguminosae, Gramineae, and very commonly in aceae, e.g. Orchidaceae, Proteaceae. Families are made up of Genera (singular Genus) and Species. The ultimate unit of botanical classification is the individual plant and many such individuals resemble each other so closely that we naturally group them together and call them a species. A species is simply a kind of plant. Anyone collecting plants on a ramble through the bush can usually tell how many kinds he has found. Groups of such species which resemble one another more or less closely form a genus. A name is provided both for the genus and for the species, and the full name is thus a double one consisting of a generic and a specific part. This is called a binomial. The generic name is always written first. These plant names are given in Latin to ensure uniformity in all languages.

The person responsible for naming a plant (the authority) has his name (normally in an abbreviated form) appended as e.g. Leschenaultia hirsuta F. Muell. named by Baron F. von Mueller, or Blackallia biloba Gardn. by C.A. Gardner. Where a later worker's opinion results in a change in the name of the plant the following form is used, e.g. Hibbertia acerosa (R.Br.) Benth, i.e. the plant was originally named Pleurandra acerosa by Robert Brown and later transferred to the genus Hibbertia by Bentham. In this volume authorities have been omitted from the Keys to Genera and Species but have been included in the Index of Scientific Names.

HOW TO IDENTIFY AN UNKNOWN SPECIES

If we wish to work out the name of a plant that we have collected, we must first decide into which of the larger groups it comes, then trace it through to the family and finally to the genus and species. The procedure is straightforward in that the enquirer generally has to take a decision between two (or sometimes three or more) alternatives. This is known as the dichotomous key method and was first used by the famous botanist Linnaeus.

The method may best be made clear by taking an example.

Let us suppose that we find the flowers of "Mountain Primrose," commonly found on the Darling scarp. We begin with the Key to the Families (page xiii). Our specimen is clearly a plant reproducing by seeds (second A), and with the help of the Glossary (pages xiv to lv), we can see that it has its seeds enclosed in an ovary and that a coloured perianth is present (second B). Looking next at the choices presented under C we see that our plant falls into the second one because the plant has leaves with pinnately branching veins and there are five petals. Turning as indicated to the Dicotyledons (page xvi) we are given three alternatives, of which we select the third since the plant has bright yellow petals and green calyx. In Section 3 (page xx) we find three A's, the second of which is chosen as the petals are free from each other, and not pea-flowered. Of the two B's, the second alternative is chosen, reference again being made to the Glossary if the terms are unfamiliar. We are thus referred to Sub-Section 2.

Two A's subdivide this Sub-Section and by examination of the ovary which proves to be of distinct carpels, we choose the second and are referred to Series 2. Two A's now confront us, and from our previous observation we are able to choose

the second, supported by the fact that the styles are separate. Two B's based on leaf character come next and as our plant has not fleshy, succulent leaves we choose the second alternative. The choice between the two C's depends on carpel number - our specimen will fall into the second group and examination of the subsidiary characters, petals 5, yellow, stamens surrounding carpels, will confirm this. This shows that the plant Family to which the specimen belongs is Dilleniaceae. We are then referred to page 375 where the scripted and illustrated keys to the genera of the family begin.

In this particular case there is no Key to Genera since the family is represented only by a single genus, Hibbertia, in Western Australia. Our first choice is between two A's based on stamen characters. Examination of the flower, using a lens if necessary, shows that it belongs to the first A. Preliminary observation has already shown that the stamens surround the carpels so the choice of the second B is easily made, which leads to Section 3 (page 378). A further choice based on stamen number confronts us and we choose the second A - Stamens numerous. We have also noted the absence of staminodia so the first B is chosen and the yellow petals lead us to the first of the C's. Lack of hairs on the carpels (carpels glabrous) will confirm this. The sessile flower and the presence of bracts (shown especially in the bud stage) lead us to Sub-Section 1. In this case four alternative A's are found of which the last fits the specimen. Examination of the leaves leads us to choose the second B and the third C: under D the very conspicuous brown bracts are mentioned and examination of the sepals for hairiness and a count of the number of carpels will confirm that the first D should be chosen and that the specimen is Hibbertia montana. The plant has

ger somewhat dentate (toothed) leaves and large
wers, and reference to the drawing will show that
is the variety major of H. montana.

important consideration to bear in mind regarding
illustrations in the text is that magnifications
wn in Parts II are correct whereas in Part I the
wings were reduced to approximately half the size
those in the original manuscript, without amendment
the magnifications.

preceding examples show that in using the keys one
to make a series of choices between certain alter-
ative characters to make an identification. Though
characters which are easily recognised are used as far
possible, to decide between two alternatives is not
easy at times and it is as well to make sure that the
alternative possibilities at each step have been
thoroughly exhausted before going on to the next.
Otherwise mistakes may be made and the user will have
retrace his steps.

should be noted that Parts I, II III of the Blackall
y enable one to refer any plant to its Family. In
families for which page numbers are given it is possible
refer a plant to genus and species. A later volume
ll contain the keys to the remaining genera and species.

the use of a hand lens, as mentioned in the course of work-
g out the above example, is essential. One with an 8x
10x magnification will do. In addition a sharp knife
an old safety razor blade is required for cutting sections
rough flowers and ovaries. For dissecting out smaller
structures, two needles mounted on handles are also useful.

Those who become interested in identifying wildflowers and wish to start an herbarium should see that they collect adequate material including the stem and leaves, flowers and fruits. In most cases it should be possible to get sufficient material without pulling up plants by the roots.

Specimens should be placed between sheets of newspaper and dried in a press. Several changes of paper will be necessary before the specimens are dry enough for mounting. Mounting should be done on good quality paper, and cellulose tape or gum paper strips should be used to keep the specimen in position. On the lower right-hand side of the sheet should be recorded the family, generic and specific name, common name where known, locality, collector's name, and any other relevant information.

It is helpful if the generic and specific names are descriptive of the plants to which they belong, and this is so in many cases. For example the generic name Trifolium indicates that the plant has three leaflets. The name of Woolly Clover is Trifolium tomentosum and the specific name refers to the woolly fruits. In Trifolium subterraneum (Subterranean Clover) the specific name indicates that the stalks bearing the fruits bend down to ground after flowering. Very many generic and specific names are, however, personal in the sense that they perpetuate the names of famous people. Thus the genus Hakea commemorates Baron Von Hake, a German patron of Botany; the genus Hovea bears the name of A.P. Hove, a Polish plant collector; the genus Banksia that of Sir J. Banks, a great patron of science. Sometimes the combined generic and specific names perpetuate the memory of two men, as in Banksia Menziesii and Leavenworthii. Other generic and specific names come from old Latin and Greek names.

Many plants are known by their common names, e.g. Blue Tinsel Lily, Calceolaria cyanea; Swamp Banksia, Banksia littoralis; Shell-leaved Hakea, Hakea conchifolia; Bunjong, Pimelia spectabilis. These serve a useful purpose, but the common name of a plant may vary even in different parts of the same country, so that one can appreciate the advantages of using the exact Latin scientific names which mean the same thing in all parts of the world.

The plant Families are formed by the grouping together of genera which resemble one another in certain important characters: e.g. Hakea, Banksia, Grevillea and Dryandra resemble each other in having a deciduous petaloid perianth, four stamens and a superior ovary (see Glossary for explanation of terms).

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