

University of Leeds Classification of Books

Botany

Tables of standard subdivisions at end

[A **General]**

- A-0.01 Periodicals *Stack only - otherwise in General Biology A-0.01*
A-0.02 Monograph series, including publications of societies
A-0.03 Collected essays; reprinted collections of readings; symposia
A-0.04 Bibliographies
A-0.05 Laboratory manuals
A-0.06 Plant collecting
A-0.07 Herbaria
A-0.08 Botanic gardens
A-0.19 Dictionaries, encyclopaedic works
A-0.99 Botanical illustration
A-1 Textbooks
A-1.5 Peat

History of botany; biography of botanists: see History of Science G-8

- B-0 Palaeobotany** *History of plants*
Use standard subdivisions 40 – 79 (Systematic groups)
and 80 – 84 (Geological periods)
See also Botany C-29.7 Palynology

- C-0 Morphology** *Comparative study of plant structures*
Use standard subdivisions 21-39 (Parts of plants); 80-89 (Geological periods); and
90-99 (Geographical)

- C-1 Membranes *See also General Biology M*
for Epidermis use -26.3

- C-5 Vascular tissues; xylem and phloem
Ultrastructure: see General Biology L

- [D-0 Cytology** *Study of plant cells]*
No longer used : see General Biology G

- [D-1 Cytoplasm]

- [D-3 Plastids] *See General Biology L-8.5*

- [D-4 Cell wall] *See General Biology L-5*

- [D-5 Cell formation]

[D **Agricultural botany]**

Do not use standard subdivisions

Plant breeding: see General Biology G-8.2

- D-0 General e.g. plant growth substances
D-1 Diseases of plants, general including immunology. Plant pathology
D-10 Disease-causing plants *See also E-9: Poisonous plants*
D-11 Bacteria, Microbiology. Plant pathogens
D-12 Fungi. Plant pathogens
D-13 Viruses. Plant pathogens
D-15 Weeds

- D-20 Field crops, general
- D-21 Grasses
- D-22 Cereals
- D-23 Root crops
- D-24 Forage crops
- D-28 Tropical crops
- D-29 Oilseed crops; Miscellaneous (e.g. Mushrooms) crops
- D-30 Horticulture, general
- D-31 Fruit
- D-32 Vegetables
- D-33 Flowers and ornamental plants
- D-39 Miscellaneous eg Hydroponics
- D-40 Forestry, Trees, Agroforestry

E-0 Physiology & biochemistry

Use standard subdivisions 21-39 (Parts of plants), 40-79 (Taxonomic); 80-89 (Geological periods)

Genomics: see General Biology G-5.42

- E-1 Phytochemistry *See also General Biology U*
- E-2 Photosynthesis (of carbohydrate)
- E-3 Nitrogen metabolism (fixation, amino acids, proteins)
- E-4 Respiration (release of energy)
- E-5 Enzymes *See also General Biology U-2*
- E-6 Inorganic substances
- E-7 Organic substances [including herbicides]
- E-8 Nutrition including trace elements *see also Applied Biology C-45*
- E-9 Poisonous plants *See also Botany D-10*
- E-10 Physical aspects of physiology
- E-12 Photoperiodism, circadian rhythms
- E-13 Transpiration and translocation; sap-flow
- E-14 Movements (tropism, taxis, nastic movement)
- E-15 Temperature
- E-16 Water relations
- E-19 Miscellaneous; stress

[F Evolution] *No longer used: see General Biology H*

- F-0 Evolution - general
- F-1 Variation
- F-20 Fertilization; reproductive mechanisms

G-0 Taxonomy & forms; Floras *Classification of plant forms*

Use standard subdivisions 40 – 79 (Systematic groups)

and standard subdivisions 90 – 99 (Flora of specific areas)

- G-0.04 bibliography

K-0 Ecology

Adaptation to special environments. Including physiological aspects

Use standard subdivisions 21-39 (Parts of plants)

See also General Biology J

- K-1 Aquatic *See also General Biology J-4*
- K-2 Marsh and bog
- K-3 Salt marsh *Halophytes: see K-11*
- K-5 Deserts and steppe
- K-6 Grassland, prairie etc
- K-7 Bush and forest

K-8	Moorland	
K-9	Miscellaneous; climate	
K-10	Soil - plant interaction	<i>Soil science: Applied Biology C-43</i>
K-11	Salt tolerance & toxicity	
	Halophytes (salt-water plants)	
	Xerophytes (plants living in low-water areas, e.g. deserts, ice)	
K-14	Air	
K-15	Light	<i>See also E-2</i>
K-17	Interaction with other plants (including Allelopathy)	
K-17.5	Epiphytes (plants growing on other plants)	
K-17.6	Symbiosis; mycorrhiza; root nodule bacteria	
K-17.7	Parasitism	
K-17.8	Saprophytism (plants living in dead or decaying matter)	
K-18	Interactions with animals	
K-18.6	Carnivorous plants	
K-18.7	Pollination	
K-18.8	Galls; pathology	
K-19	Climbing plants; mimicry	
L-0	Economic botany	<i>Do not use standard subdivisions</i>
[L-1	Forestry]	<i>No longer used : see D-40</i>
L-2	Gardens; house plants	
[L-3	Farm crops]	<i>No longer used : see D-20</i>
L-4	Sugar cane and sugar beet	<i>See also Food F-3.1</i>
[L-5	Vegetables]	<i>No longer used : see D-32</i>
[L-6	Fruit]	<i>No longer used : see D-31</i>
L-8	Fibre (plants used for textile production, e.g. cotton, jute, hemp)	
L-9	Rubber; dyes; drugs	

Tables of standard numerical subdivisions

Classmarks additional to those specifically enumerated are synthesised by combining numbers from the tables with the letters denoting the main classes.

e.g. G-41 Taxonomy of algae; K-41 Ecology of algae

Lower numbers take priority e.g. leaves of gymnosperms should be expressed as -26 not -72.

1-20: Reserved for specific topics appropriate to each main class

21-39: Parts of plants (and other phenomena) *Applied to Sections C, E, K*

-21	Thallus (non-vascular plants)	
-22	Vascular plants – general vegetative parts	
-23	Root	
-24	Shoot	
-25	Stem	
-25.8	Rhizome	<i>see also -28 Vegetative reproduction</i>
-25.9	Tuber	<i>see also -28 Vegetative reproduction</i>
-26	Leaf	<i>see also -37 Abscission</i>
-26.01	Phyllotaxis	
-26.02	Buds	
-26.03	Development	
-26.04	Aquatic	
-26.05	Subterranean	
-26.1	Petiole	
-26.2	Stipule	
-26.3	Epidermis	
-26.5	Stomata	
-26.7	Colouration	<i>Photosynthesis: see Botany E-2</i> <i>Pigment biochemistry: see General Biology U-3.2</i>
-27	Spores; reproduction in cryptogams (mosses, liverworts, ferns etc)	
-28	Vegetative reproduction	
-28.8	Regeneration; cuttings	
-28.9	Grafting	
-29	Flower	
-29.01	Arrangement	<i>not flower arranging</i>
-29.02	Buds	<i>see also -26.02</i>
-29.03	Development	<i>see also -26.03</i>
-29.07	Inflorescence	
-29.08	Polymorphism	
-29.09	Pollination	<i>see also K-18.7</i>
-29.1	Receptacle	
-29.2	Sepals	
-29.3	Petals	
-29.4	Stamens	
-29.5	Carpels	<i>Include: ovule, ovary, stigma, style</i>
-29.6	Embryo sac	<i>see also -30.1</i>
-29.7	Pollen	
-29.9	Nectaries	<i>see also -31</i>
-30	Fruit	
-30.1	Embryo	<i>see also -34</i>
-31	Glands	
-32	Sense organs	
-33	Miscellaneous organs	
-33.8	Hairs	

- 34 Seeds; viability and germination
- 35 Seedlings (and sporelings)
- 36 Growth; auxins
- 37 Abscission (shedding of leaves, flowers, fruit, seeds etc.)
- 38 Pathology, injury and disease, wounds, infection
- 39 Miscellaneous eg wilting, senescence

40-79: Taxonomic (systematic) divisions *Applied to Sections B, E, G*

40-69: Cryptogams *Plants reproducing by spores*

- 40 Thallophytes - general
- 41 Algae *Lichens: see -44*
Cyanophyta (blue-green algae)
Chlorophyta (green algae); charophytes; euglenoids
Rhodophyta (red algae); Cryptophyta
Chromophyta (brown algae); diatoms; dinoflagellates etc
- 42 Schizomycetes; Actinomycetes (bacteria)
- 43 Fungi (mycology)
 - 43.1 Phycomycetes
 - 43.2 Ustilaginales
 - 43.3 Yeasts; Ascomycetes
 - 43.4 Uredineae (rusts)
 - 43.5 Basidiomycetes (mushrooms and toadstools)
 - 43.8 Slime moulds (Myxomycetes or Mycetozoa)
 - 43.9 Fungi imperfecti; Hyphomycetes
- 44 Lichens (associations of fungi with algae)
- 50 Bryophytes
 - 51 Liverworts (Hepaticae)
 - 52 Mosses (Musci)
- 60 Pteridophytes
 - 61 Ferns (Filicineae)
 - 62 Horsetails (Equisetineae)
 - 63 Clubmosses (Lycopodineae)

70-79: Phanerogams *Plants reproducing by seeds*

- 70 Spermatophytes
- 71 Pteridosperms
- 72 Gymnosperms, conifers
- 75 Angiosperms, flowering plants
- 76 Monocotyledons (Grasses, sedges, orchids)
- 77 Dicotyledons

80-89: Geological periods *Applied to Sections E, G*

- 80 Archaeon [not fossil bearing]
- Eozoic [not fossil bearing]
- 81 Palaeozoic
 - Cambrian
 - Ordovician
 - Silurian
 - Devonian
 - Carboniferous
 - Permian
- 82 Mesozoic

- Triassic
- Jurassic
- Cretaceous
- 83 Tertiary
 - Eocene
 - Oligocene
 - Miocene
- 84 Quaternary

90-99: Geographical divisions *Applied to Sections C, G, K*

- 90 Temperate regions
- 91 Europe (including Russia)
- 92 British Isles
 - 92.1 Ireland
 - 92.2 Channel Islands
 - 92.3 Scotland
 - 92.4 Wales
 - 92.5 South-east England
 - 92.51 Bedfordshire
 - 92.52 Buckinghamshire
 - 92.53 Hertfordshire
 - 92.54 Essex
 - 92.55 London (including Middlesex)
 - 92.56 Surrey
 - 92.57 Sussex
 - 92.58 Kent
 - 92.6 South-west England (includes Monmouth, Isles of Scilly)
sub-divide by letter eg SOM = Somerset
 - 92.7 Midlands
sub-divide by letter eg WAR = Warwickshire
 - 92.8 Northern counties (includes Berwick)
sub-divide by letter eg NOT = Nottinghamshire
 - 92.9 Yorkshire
 - 92.99 Leeds
- 93 Asia, Oceania and Pacific Islands, Indonesia
- 94 Africa
- 95 North America
- 96 South America
- 97 Australasia
- 98 Arctic and Antarctic (polar regions)
- 99 Marine (seas, oceans)

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