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-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  *Soil science: Applied Biology C-43*
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  *See also E-2*
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**  *Do not use standard subdivisions*
[L-1]  Forestry]  *No longer used: see D-40*
L-2    Gardens; house plants
[L-3]  Farm crops]  *No longer used: see D-20*
L-4    Sugar cane and sugar beet  *See also Food F-3.1*
[L-5]  Vegetables]  *No longer used: see D-32*
[L-6]  Fruit]  *No longer used: see D-31*
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  see also -28 Vegetative reproduction
-25.9  Tuber  see also -28 Vegetative reproduction
-26  Leaf  see also -37 Abscission
-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  Photosynthesis: see Botany E-2
        Pigment biochemistry: see General Biology U-3.2
-27  Spores; reproduction in cryptogams (mosses, liverworts, ferns etc)

-28  Vegetative reproduction
-28.8  Regeneration; cuttings
-28.9  Grafting
-29  Flower
-29.01  Arrangement  not flower arranging
-29.02  Buds  see also -26.02
-29.03  Development  see also -26.03
-29.07  Inflorescence
-29.08  Polymorphism
-29.09  Pollination  see also K-18.7
-29.1  Receptacle
-29.2  Sepals
-29.3  Petals
-29.4  Stamens
-29.5  Carpels  Include: ovule, ovary, stigma, style
-29.6  Embryo sac  see also -30.1
-29.7  Pollen
-29.9  Nectaries  see also -31
-30  Fruit
-30.1  Embryo  see also -34
-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 (Filicininae)
-62 Horsetails (Equisetineae)
-63 Clubmosses (Lycopodininae)

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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