



evropský
sociální
fond v ČR



EVROPSKÁ UNIE



MINISTERSTVO ŠKOLSTVÍ,
MLÁDEŽE A TĚLOVÝCHOVY



OP Vzdělávání
pro konkurenceschopnost

Mendelova
univerzita
v Brně



INVESTICE DO ROZVOJE VZDĚLÁVÁNÍ



**Inovace studijních programů AF a ZF MENDELU
směřující k vytvoření mezioborové integrace
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**BOTANICAL AND
ECONOMICAL
CHARACTERISTICS
OF FRUIT SPECIES**

Botanical Classification of Fruit Species

- Fruits grown in CR fall into 9 families and 17 genera
- Fruit species make up a diverse group of plant families
- Economical classification is based on nature of the fruits

Pomaceous Fruits

- Apple tree, pear tree, quince tree, medlar tree, mountain ash tree, aronia tree, service berry, hawthorn
- - Rosaceae Family, use: false drupe

Stone Fruits

- Plum trees (plum tree, plum crossbred tree, damson plum tree, greengage tree, mirabelle plum tree, cherry tree, sour cherry tree)
- Apricot tree, peach tree
- - Rosaceae Family, use: stone (one-seeded fruit), various shapes and colours

Berry plants

- Currant, gooseberry, raspberry, blackberry, strawberry
Currant, gooseberry
- - Saxifragaceae Family, use: berry
Raspberry, blackberry
- - Rosaceae Family, use: Multiple fruit of stones
Strawberry
- - Rosaceae Family, use: strawberry, thickened receptacle with achenes

Nuts

- Walnut tree, hazelnut tree, chestnut tree, almond tree

Walnut tree

- - Juglandaceae Family, use: stone fruit

Hazelnut tree

- - Betulaceae family, use: stone fruit, nut

Chestnut tree

- - Fagaceae family, use: one-seeded achene

Almond tree

- - Rosaceae Family, use: stone fruit

Unconventional fruits

- In addition to traditional assortment of fruits: rich in vitamin C, bioflavonoids, minerals (elderberry, dogwood, seabuckthorn, apple rose, Kamchatka blueberries, etc.)

Morphology and Anatomy

■ Fruit Species

Perennial trees and shrubs

Subshrubs – raspberry and blackberry

Perennial plants: strawberry

■ Structure of fruiting woodplants

Root system

Stem (trunk, crown)

Leaves

- Root system: Taproot (main root), secondary roots, root hairs
- Generative propagation of rootstock: Major geotropism in the taproot
- Vegetative propagation of rootstock: No taproot, secondary roots grow horizontally underground
- Root collar: Transition zone between the root and the stem

- Trunk: Unbranched part of the tree, various heights
- Crown: Set of branches which are structured:
 - Naturally
 - Artificially (pruning and training)
- Various types of crowns, certain species form scaffold branches into whorls
- Anatomical structure of the root bears all characteristic features of angiosperms, and corresponds with anatomical structure of aboveground parts, to a certain degree.