

Asterid Eudicots part 3

I. Asterids Part 3

A. Families to Know on Sight

1. Ericaceae (heath family) – p. 733

Diagnostic Summary: Evergreen or semievergreen shrubs (herbs or small trees) with funnellform or urceolate corollas and 10 stamens with poricidal anthers. Capsules from superior ovaries and berries from inferior ovaries.

Generalized Flora Formula: $Ca^{[5]} [Co^{[5], \text{clawed}} A^{10, \text{basally epipetalous, poricidal}}] \underline{G}^{[5]} \text{ or } \bar{G}^{[5]}$, fl regular/irregular

2. Apiaceae (celery family) – p. 857

Diagnostic Summary: Herbs with dissected leaves and compound umbels.

Generalized Flora Formula: fl regular or irregular: $Ca^{5(0)} Co^{5(0)} A^5 G^{[2]}$, schizocarp, in compd umbels

B. Genera to Know (you can write your own key to genera)

Adoxaceae – p. 961

1) *Viburnum* (shrubs)

Aquifoliaceae – p. 850

2) *Ilex* (shrubs and trees)

Apocynaceae – p. 771

3) *Asclepias* (herbs)

4) *Vinca* (herbs)

Apiaceae – p. 857

5) *Conium* (herbs)

6) *Daucus* (herbs)

Araliaceae – p. 852

7) *Hedera* (woody vines)

Ericaceae – p. 733

8) *Rhododendron* (shrubs)

9) *Kalmia* (shrubs)

10) *Vaccinium* (shrubs)

Caprifoliaceae – p. 967

11) *Lonicera* (shrubs & Woody vines)

Cornaceae – p. 715

12) *Cornus* (shrubs and trees)

Oleaceae – p. 777

13) *Fraxinus* (trees)

C. Economic Botany

- **Apiaceae** are the source many herbs and vegetables such as carrots (*Daucos*), celery (*Apium*) and fennel (*Foeniculum*), cilantro & coriander (*Coriandrum*), cumin (*Cuminum*), dill (*Anethum*), parsley (*Petroselinum*), and caraway (*Carum*). Paradoxically, it is also the source of poison-hemlock (*Conium*), the plant used to execute Socrates.
- **Araliaceae** are the source of English-ivy (*Hedera*) and ginseng (*Panax*).
- **Aquifoliaceae** are the source of hollies and the South American stimulating beverage yerba mate (*Ilex*).
- **Ericaceae** are the source of blueberries and cranberries (*Vaccinium*), rhododendrons and azaleas (*Rhododendron*), our state flower the mountain-laurel (*Kalmia*), and numerous other ornamentals such as pieris (*Pieris*).
- **Oleaceae** are the source of olives (*Olea*), forsythias (*Forsythia*), ash wood for baseball bats (*Fraxinus*), and lilacs (*Syringa*)