

*Salicaceae - willows, poplars

Chemically defined by salicins (salicylic acid). Many members of the tropical "Flacourtiaceae" with showy flowers also have salicins and are now part of the Salicaceae





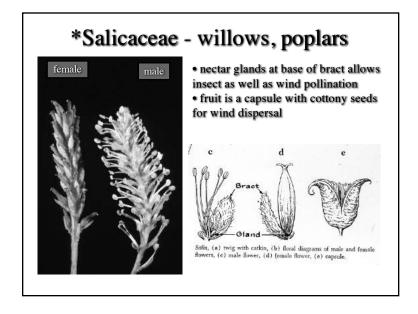
*Salicaceae - willows, poplars

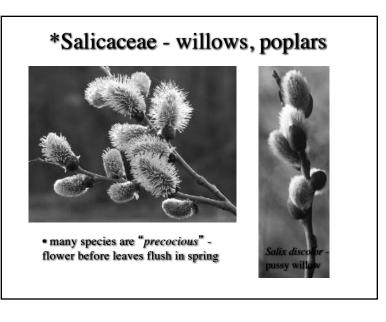
55 genera, 1000+ species of shrubs/trees - 450 are willows (*Salix*), less numerous are poplars, aspens (*Populus*).

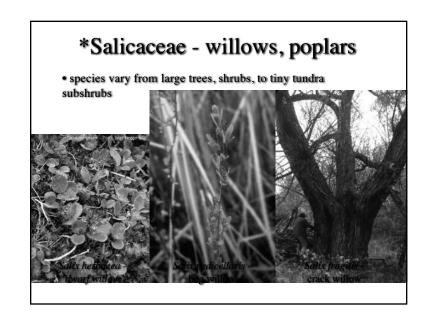


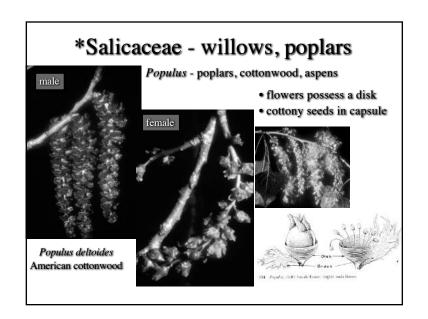


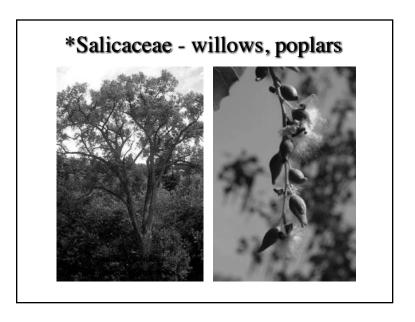


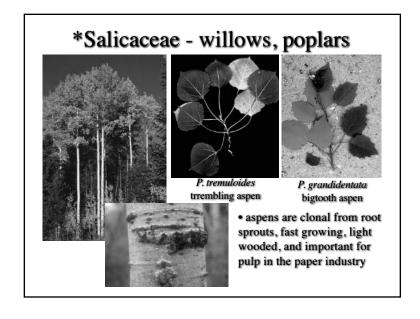


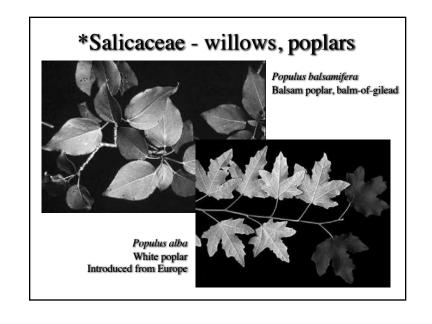












*Euphorbiaceae - spurges

Euphorbiaceae s.l. is polyphyletic and now broken into 3 families







*Euphorbiaceae - spurges



- large cosmopolitan family of trees, shrubs, and herbs of 222 genera and 6000 species
- latex bearing and filled with nasty chemicals (source of rubber, castor oil, tapioca, poinsettia)
- leaves alternate, simple (often palmately lobed) or palmately compound

Ricinus - castor oil bean

*Euphorbiaceae - spurges



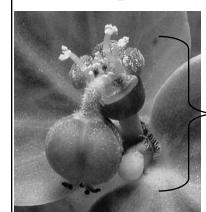
CA 5 CO 0 A ∞ G 0 CA 5 CO 0 A 0 G (3)

Majority of the family has unisexual flowers, 5 sepals, no petals, numerous stamens, 3 fused carpels, and capsules



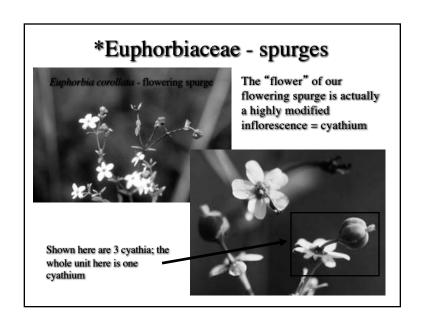


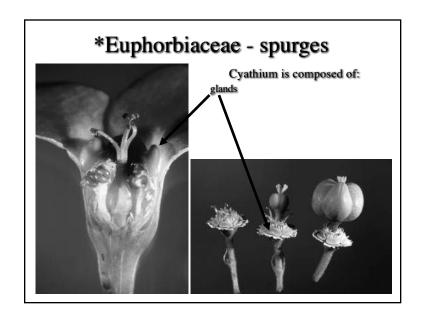
*Euphorbiaceae - spurges

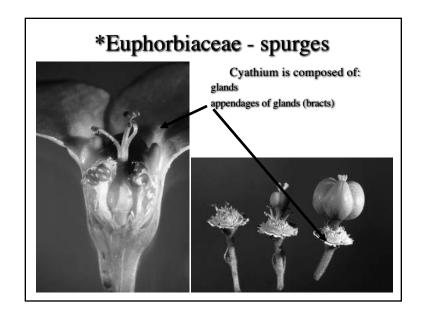


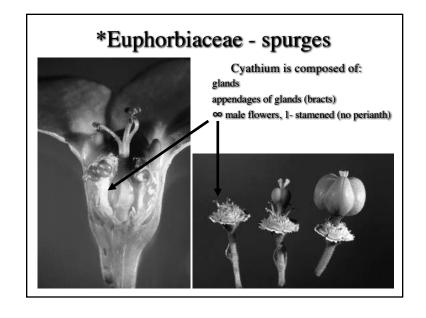
A quite different arrangement of unisexual flowers is seen in many of our spurges of the genera *Euphorbia* and *Chamaesyce*.

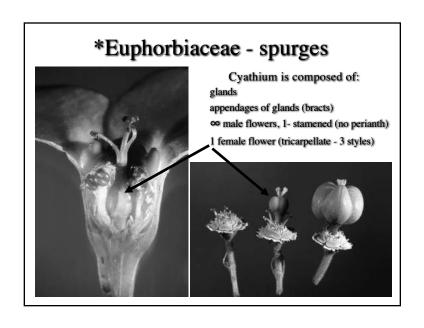
Flower or inflorescence?

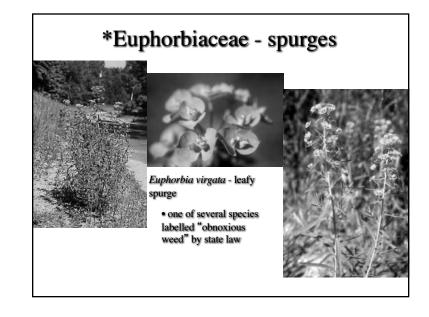


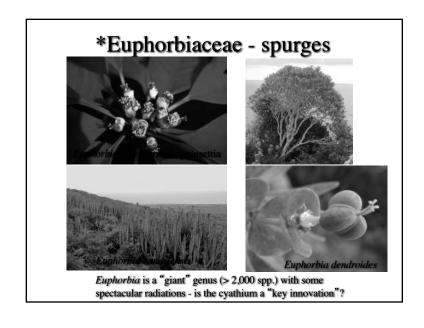


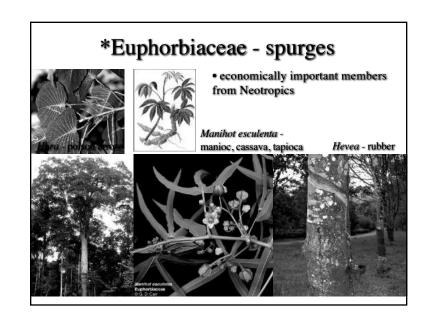


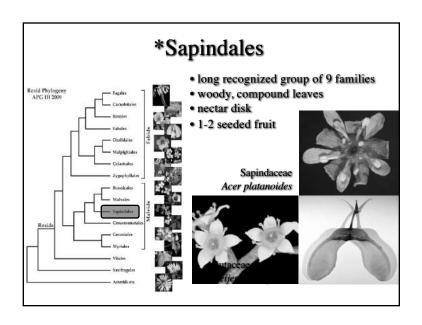


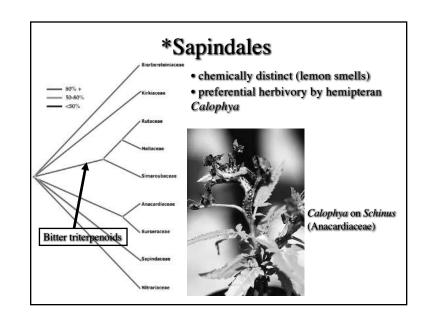


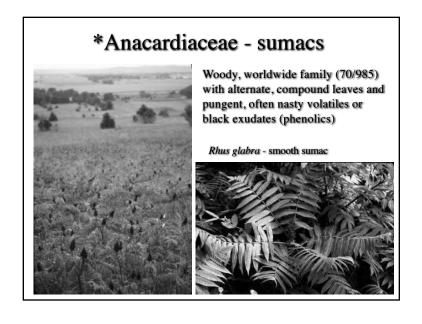


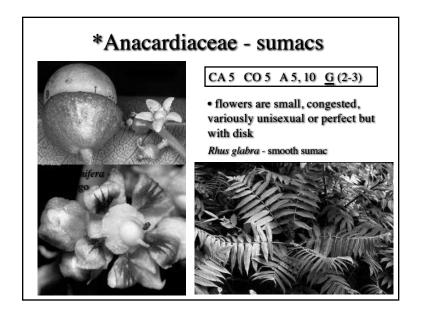


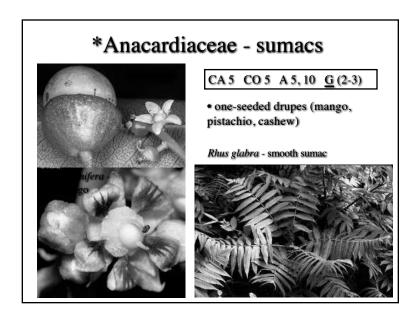


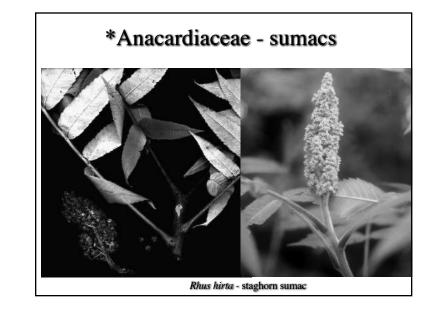


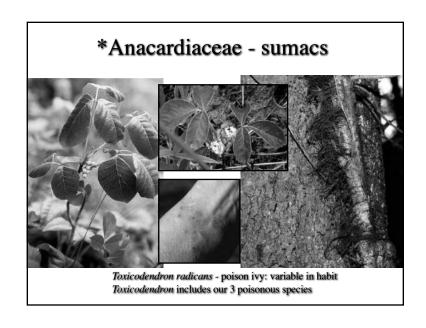


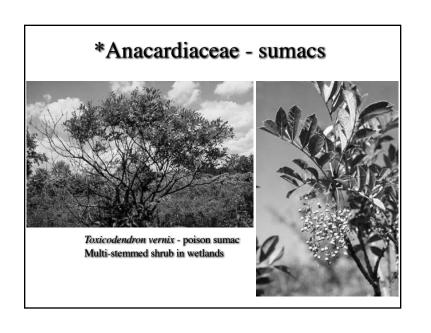












*Anacardiaceae - sumacs

One of the most poisonous members of this family is the source of Japanese lacquer – *Toxicodendron vernicifluum* (urushiol compound)



*Sapindaceae - maples

The family includes 2 of the most important or dominant tree species in many of our forest types - sugar maple and red maple



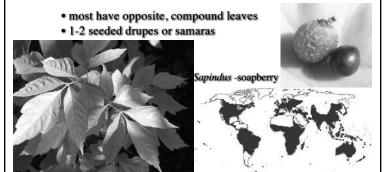
Acer saccharum - sugar maple

Acer rubrum - red maple

*Sapindaceae - maples

Largely tropical woody family of 735 genera and 1600 species and includes previously recognized smaller temperate families (maples

- Aceraceae, buckeyes - Hippocastanaceae)

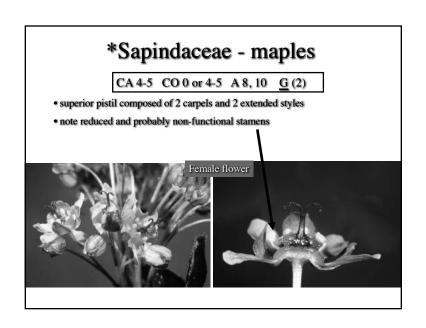


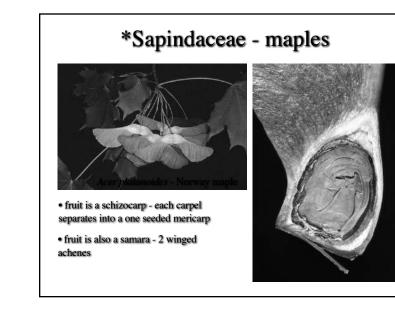
*Sapindaceae - maples

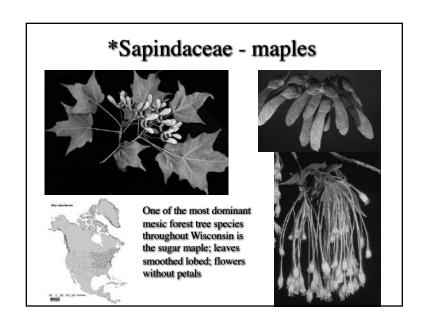
CA 4-5 CO 0 or 4-5 A 8, 10 <u>G</u> (2)

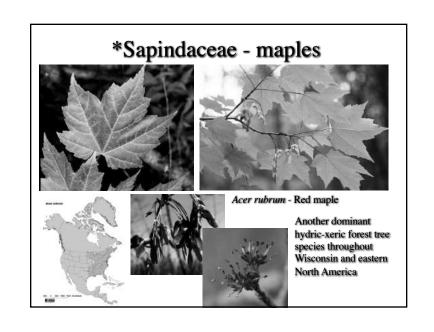
- maple flowers typically unisexual by abortion. Perianth 4-5 merous, but petals lacking in sugar and silver maples and boxelder
- nectariferous disk is often present in the whorl associated with stamens











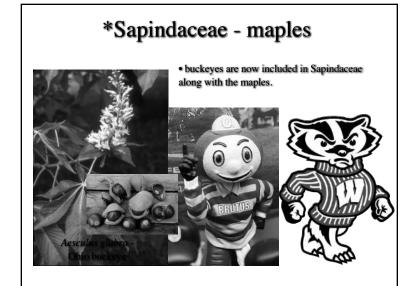
*Sapindaceae - maples

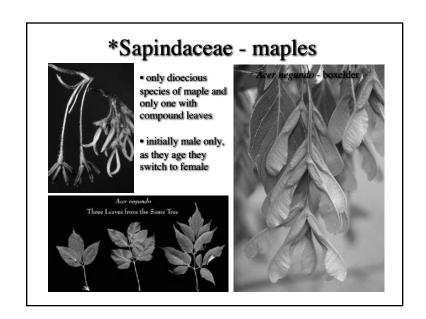


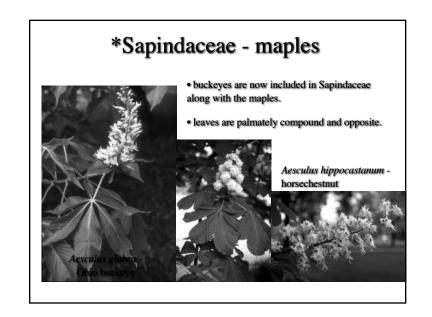


Acer saccharinum - silver maple

Silver maple is characteristic of wet conditions, fast growing, and with whitish underside to leaves; like sugar maple has no petals







Simaroubaceae - tree of heaven



The tree-of-heaven is originally from Asia, widely planted, and somewhat naturalized.

Like most members of the family, the tree is strongly (pungently) odored.



Ailanthus altissima - tree of heaven

Rutaceae - citrus



Native clonal and spiny armed shrub with pinnately compound leaves; flowers reduced

Potentially invasive shrub in drier habitats





Rutaceae - citrus



Largely alternate, compound leaved family (except oranges and relatives)

Family is well known for its volatile terpenoid compounds that the leaves & flowers emit

