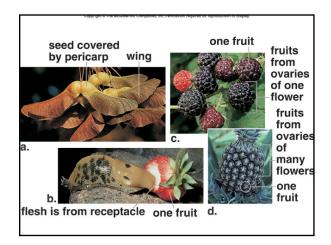
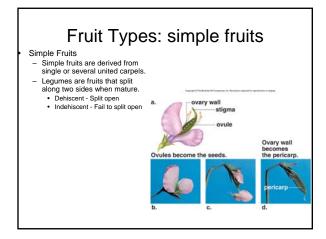
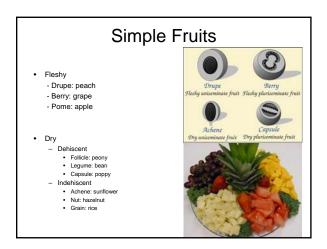
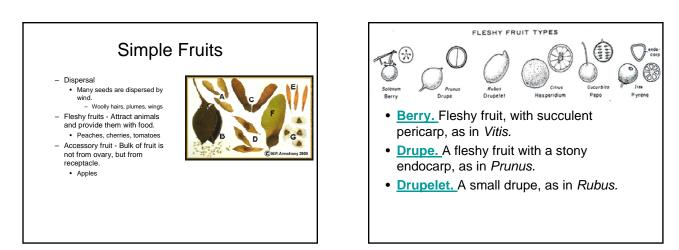


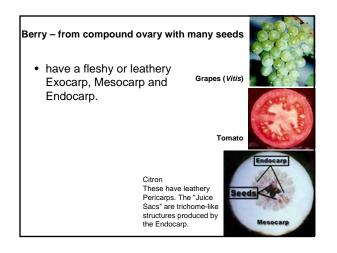
Copyright 0 The Microse Hill Companies, Inc. Persistation regioned for reproduction or Hisplay. Table 28.1 Kinds of Fruit:		
Simple Fruits	Develop from a Hower with a Single Ovary	
Fleshy	Pericarp is usually fleshy.	
Drupe	From simple ovary with one seed (pit) and soft "skin"	Peach, plum, olive
Berry	From compound ovary (pistil) with many seeds	Grape, tomato
Pome	From compound ovary; flesh is from accessory of flower parts	Apple, pear
Dry	Pericarp is dry.	
Follicle	From simple ovary that splits open down one side	Milkweed, peony
Legume	From simple ovary that splits open on both sides	Pea, bean, lentil
Capsule	From compound ovary with capsules that split in various ways	Рорру
Achene	From simple ovary with one-seeded small fruit; pericarp easily removed	Sunflower, dandelion, strawberry
Nut	From simple ovary with one-seeded fruit; hard pericarp	Acorn, hickory nut, chestnut
Grain	From simple ovary with one-seeded small fruit; pericarp completely united with seed coat	Rice, oat, barley
Compound Fruits	Develop from a Group of Individual Ovaries	
Aggregate fruits	Ovaries are from a single flower.	Blackberry, raspberry
Multiple fruits	Ovaries are from separate flowers clustered together.	Pineapple

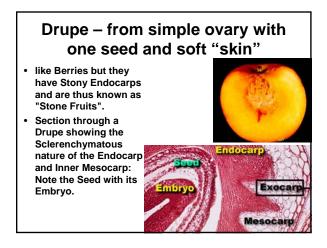




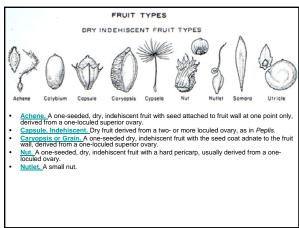












Dry Indehiscent Fruits - Achene

Achene

- from simple ovary with one-seeded small fruits
 pericarp easily removed.
- Achenes are One Seeded Dry Indehiscent Fruits with a closely fitted Pericarp that is, however, separate from the Seed Coat. The fruits of Composites like Sunflower can be classified as Achenes.

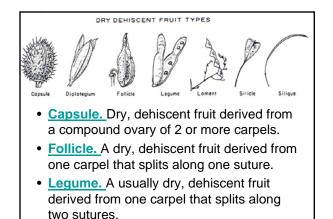


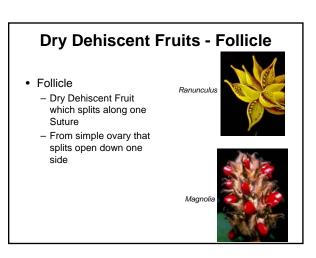
Dry Indehiscent Fruits-Nuts

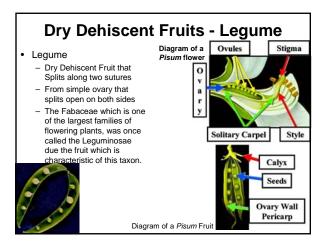
• Nut

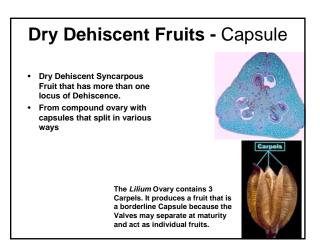
- essentially large
 Achenes with very
 hard Pericarps
- from simple ovary with one-seeded fruit
- hard pericarp









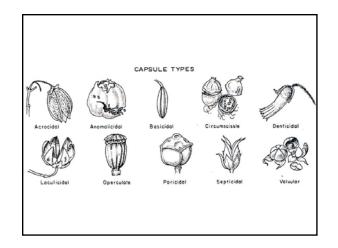


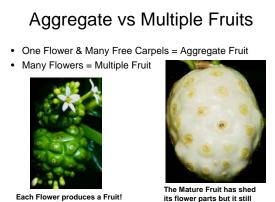
Dry Dehiscent Fruits - Capsule

- Immature Cotton (Gossypium) Fruit
- Mature Cotton Fruits









its flower parts but it still represents Many Fruits!

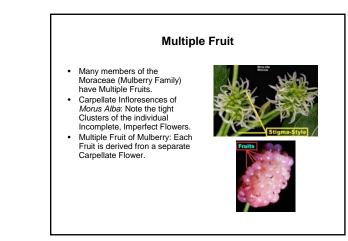
Aggregate Fruit - Ovaries are from a single flower appear to be one fruit but they are actually composed of many tiny fruits which develop from the Many Carpels of One Flower with an Apocarpous Gynoecium. ٠ Stamens The Gynoecium of a Rubus flower is composed of many Simple Carpels. Each becomes a fleshy fruit (Drupelet). The Fruit of Blackberry (*Rubus*) is composed of many tiny Drupelets. Each "Fruitlet" is the product of one Carpel. Consequently, this is an Aggregate Fruit.

Multiple Fruit – Ovaries are from separate flowers clustered together

- look like one fruit but they represent the combined Fruits of Many Flowers.
- The fruit of Noni (Morindra citrifolia) is actually the fruit of Many Flowers. It is thus a Multiple Fruit!

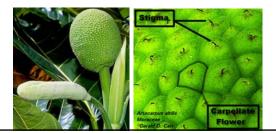


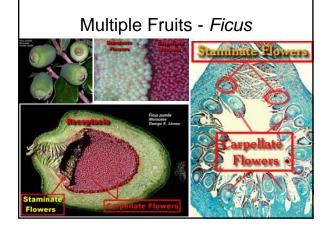
Noni Flowers are tightly spaced.



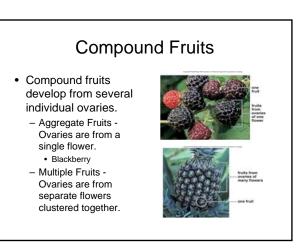
Multiple Fruit

- Breadfruit Male (Elongate) and Female (Round)
 Inflorescences: Each of these contains many Imperfect,
 Incomplete Flowers.
- Carpellate Flowers each of which produces a fruit





Dubbe of a Pineapple Flower Apex: Each flower has a subtending Bract. Most of these have been removed to show the Flower Primordia. FAM = Flowering Apical Meristem Pineapple with Showy Bracts & Corollas which correspond to individual Flowers Longitudinal section of a Mature Fruit showing its components: F = fruit



Good Website

 Tree Identification: <u>http://www.coopext.colostate.edu/arapaho</u> <u>e/horti/TreeID/fruit/fruittype.html</u>