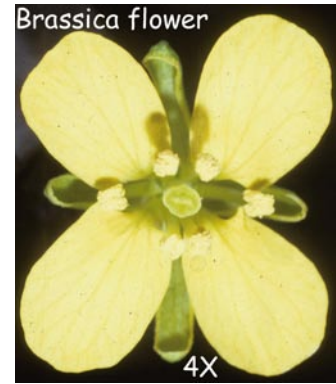


# What Are Brassicas?

-Brassicas have many forms and uses



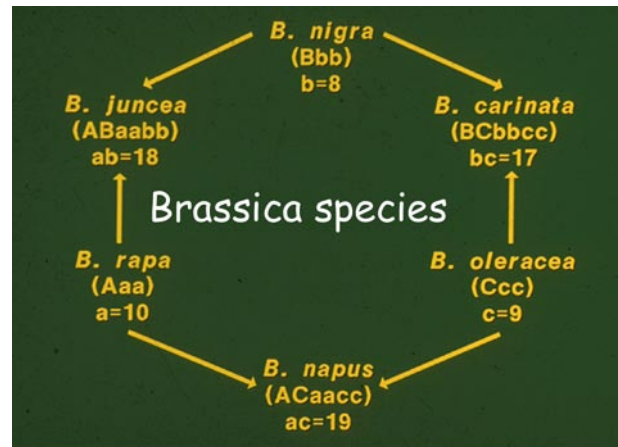
Brassica family  
-typical flower



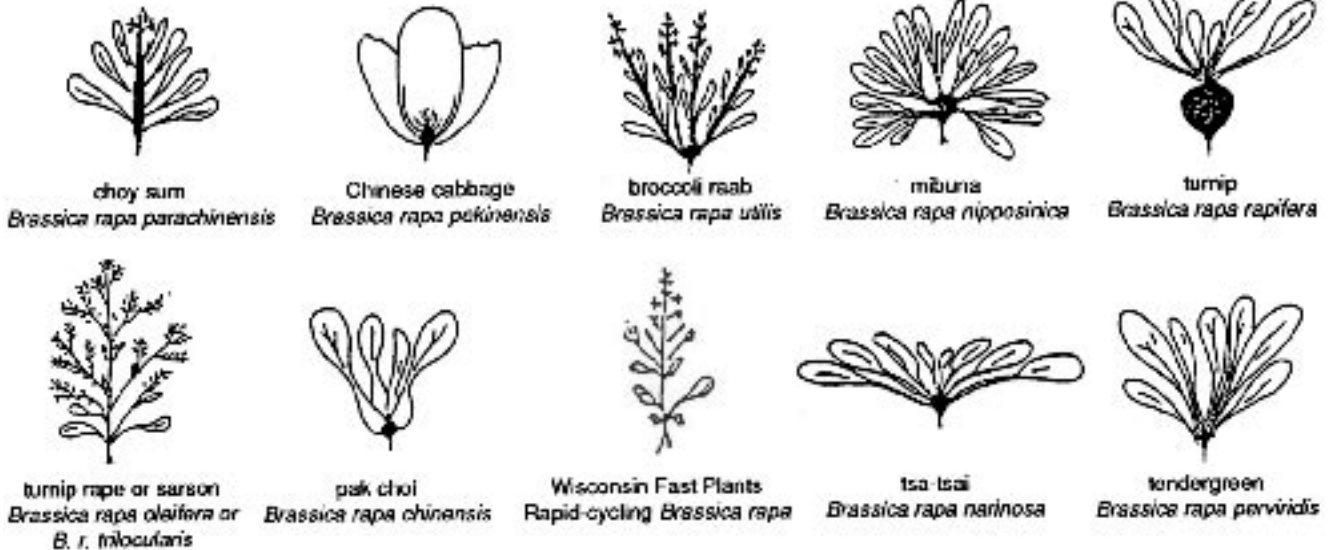
## Brassica genus



## Brassica species



## Forms of Brassica rapa



# What Are Brassicas?

1. Brassicas are flowering plants widely used in the human diet around the world.
  - Brassicas have a variety of forms and uses:
    - Vegetables of many types: roots, stems, leaves, buds, flowers
    - Condiments and pickles: mustard, wasabi, horseradish, kimchee, sauerkraut.
    - Animal feed and fodder
    - Oilseed and meal, canola oil
2. Brassicas belong to the brassica family, Brassicaceae.
  - Members of the brassica family (375 genera, >3,000 species) are related through origin and descent and share in common: flowers with 4 sepals; 4 petals in the form of a cross (crucifix); 6 anthers and one pistil; and specialized chemicals (glucosinolates) giving them a distinctive taste.
  - Sometimes the brassica family is called the mustard family, sometimes the crucifer family (Cruciferae).
3. Plants in the genus Brassica have seed pods with 2 valves that split to release seeds, and embryos with seed leaves that fold around the embryonic stem.
4. Within Brassica are 6 inter-related species, each having a different number of chromosomes.
5. Within each species of Brassica are various forms and varieties, each having particular uses (vegetable, oil, etc.).
6. Forms and varieties of Brassica are the result of domestication from the wild by humans.
7. New forms of Brassica are created through the process of selection and breeding.