

## I. Local Useful Plants

- Gibbons, E. 1962. Stalking the wild asparagus. David McKay Company, Inc., New York.
- Gibbons, E. 1966. Stalking the healthful herbs. David McKay Company, Inc., New York.
- Millspaugh, C.F. 1974. American medicinal plants. Dover Publications, Inc., New York.

### A. Evolutionary Perspectives on Apparent Paradoxes

- If most plants use chemical defenses, why are some edible?
  - cultivated plants
  - wild plants
- Medicinal & drug plants often are poisonous plants.
  - e.g., *Digitalis* (digitoxin), *Taxus* (taxol)

## B. Wild Woodland Fruits

Wild Grapes (*Vitis* spp.)



•Edible

### Wild Grapes (*Vitis* spp.)



- Careful: closely related genera are poisonous.

*Vitis vulpina*

*Parthenocissus quinquefolia* (Virginia creeper, grape woodbine)



### Wild blueberries (*Vaccinium* spp.)



- Edible

e.g., *Vaccinium corymbosum* (high-bush blueberry)

Wild blackberries, raspberries, wineberries (*Rubus* spp.)



•Edible

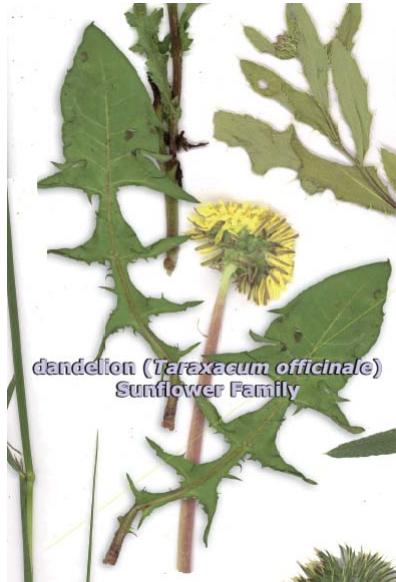


e.g., *Rubus allegheniensis* (common blackberry)

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## C. Vegetables (Weeds) in Your Lawn

### Dandelion (*Taraxacum officinale*)



- Leaves (young)

- e.g., salad greens

- Flowers (corolla)

- e.g., Dandelion wine
  - 3 qts dandelion flowers
  - 1 lb golden raisins
  - 1 gallon water
  - 3 lbs granulated sugar
  - 2 lemons
  - 1 orange
  - yeast and yeast nutrient

### Violets (*Viola spp.*)



e.g., *Viola papilionacea* (common blue violet)

- Edible flowers & leaves (e.g., PA Dutch)

- Vit. C and A

- e.g., Violet Jam

- 1 packed cup flws.
- $\frac{3}{4}$  cup water.
- Juice of 1 lemon.
- 2.5 cup sugar.
- 1 pack pectin powder in  $\frac{3}{4}$  cup boiling water.

### Lamb's-quarters (*Chenopodium album*)



- Edible leaves (young)

- e.g., salad greens, fresh or cooked.

- More vit. C, A, and calcium than spinach.

### Chickweed (*Stellaria media*)



- Edible leaves & stems

- Veggie smoothies
  - Salad greens
  - Cooked veggies.
  - Rich in vit. C. (available all winter)



## II. Some psychoactive plants

### A. *Coffea arabica*

Product: stimulant beverage

Primary Drug: caffeine

### B. *Nicotiana tabacum*

Product: tobacco

Primary Drug: nicotine

### C. *Papaver somniferum*

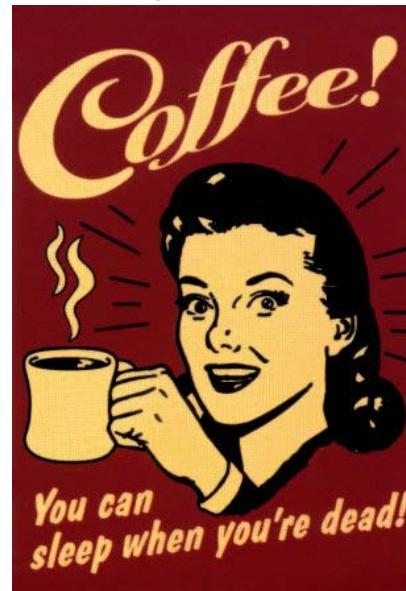
Product: pain relievers (legal product)

Primary Drug: morphine, codeine,  
\*heroin, \*methadone

### D. *Lophophora williamsii*

Product: edible peyote

Primary Drug: mescaline



Tobacco (*Nicotiana tabacum*)





Opium poppy (*Papaver somniferum*)

**morphine**

**heroin**

**codeine**

**methadone**

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