

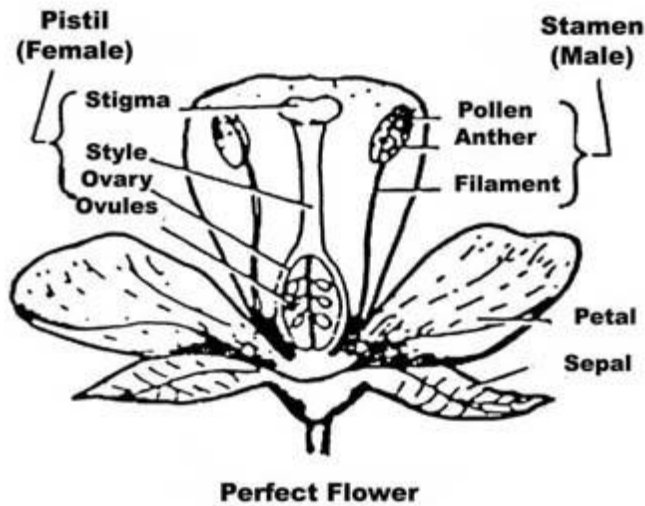
| Common name   | <i>Latin name</i>            | Population | Isolation | Pollintation       | Growth           |
|---|------------------------------|------------|-----------|--------------------|------------------|
| <b>Umbelliferae</b>                                   |                              |            |           |                    |                  |
| Parsnip   | <i>Pastinaca sativa</i>      | 50-100     | .5 miles  | Outbreeder-insects | Biennial         |
| Dill  | <i>Anethum graveolens</i>    | +/-50      | .5 miles  | Outbreeder-Insects | Annual           |
| Carrot  | <i>Daucus carota</i>         | 50-100     | .5 miles  | Outbreeder-insects | Biennial         |
| Parsley   | <i>Petroselinium crispum</i> | 50-100     | .5 mile   | Outbreeder-insects | Biennial         |
| Cilantro  | <i>Coriandrum sativum</i>    | 50-100     | .5 miles  | Outbreeder-insects | Annual           |
| <b>Brassicaceae</b>                                   |                              |            |           |                    |                  |
| Cauliflower, Kale, Cabbage, Broccoli, Brussel sprouts | <i>Brassica oleraceae</i>    | 50-100     | .5 miles  | Outbreeder-insects | Biennial/Annual  |
| Bok Choy, Turnips, Tatsoi Mustard, Mizuna             | <i>Brassica rapa</i>         | 50-100     | .5 miles  | Outbreeder-insects | Annual           |
| Giant Red Mustard, Green Wave Mustard                 | <i>Brassica juncea</i>       | 50-100     | .5 miles  | Outbreeder-insects | Annual           |
| Arugula   | <i>Eruca sativa</i>          | 50-100     | .5 miles  | Outbreeder-insects | Annual           |
| Radish  | <i>Raphanus sativus</i>      | 50-100     | .5 miles  | Outbreeder-insects | Annual           |
| Garden Cress  | <i>Lepidium sativum</i>      | 50-100     | .5 miles  | Outbreeder-insects | Annual           |
| <b>Chenopodaceae</b>                                  |                              |            |           |                    |                  |
| Beet  | <i>Beta vulgaris</i>         | 50-100     | 2 miles   | Outbreeder-wind    | Biennial         |
| Chard   | <i>Beta vulgaris</i>         | 50-100     | 2 miles   | Outbreeder-wind    | Biennial         |
| Spinach   | <i>Spinacia oleracea</i>     | 50-100     | 1 miles   | Outbreeder-wind    | Annual dioecious |
| Orach   | <i>Atriplex hortensis</i>    | 50-100     | .k5 miles | Outbreeder-wind    | Annual           |
| <b>Compositae</b>                                     |                              |            |           |                    |                  |
| Lettuce   | <i>Lactuca sativa</i>        | +/-20      | 10ft      | Inbreeder          | Annual           |
| <b>Leguminosae</b>                                    |                              |            |           |                    |                  |
| Pea   | <i>Pisum sativum</i>         | +/-20      | 10ft      | Inbreeder          | Annual           |

| Common                    | Latin  | Isolation  | Pop   | Pollination                          | Notes  |
|---------------------------|--|------------|-------|--------------------------------------|--|
| Amaranth                  | <i>Amaranthus hypochondriacus</i>  | ¼ mi       | 50    | Outbreeder                           | Eat greens/grain:<br>Calaloo for greens<br>Golden for grain          |
| Basil                     | <i>Ocimum basilicum</i>  | 300 ft     | 50    | Outbreeder                           | Watch for birds!   |
| Cow peas                  | <i>Vigna unguiculata unguiculata</i>   | 30 ft      | 25    | Inbreeder                            | Black eye peas   |
| Tepary Beans              | <i>Phaseolus acutifolius var. latifolius</i>   | 30 ft      | 25    | Inbreeder                            | Sonoran Gold, Sacaton White, Mitla Black                             |
| Common Beans              | <i>Phaseolus vulgaris</i>  | 10 ft      | 20+/- | Inbreeder                            | Allow pods to dry on plant   |
| Corn                      | <i>Zea mays</i>  | 1 mi +     | 100+  | Outbreeder-wind                      | Allow corn to dry on plant   |
| Cucumber                  | <i>Cucumis sativus</i>   | .5 mi      | 25+   | Outbreeder                           | Leave cucs to mature past eating                                     |
| Eggplant                  | <i>Solanum melongena</i>   | +100 ft    | 10+   | Inbreeder-easily crossed by insects  | Possible to cage to prevent crossing                                 |
| Melons, Armenian Cucumber | <i>Cucumis melo</i>  | .5 mi      | 25+   | Outbreeder-easily crossed            | Water process.   |
| Quinoa                    | <i>Chenopium quinoa</i>  | .5 mi      | 50    | Outbreeder                           | Let seed heads dry on plant  |
| Okra                      | <i>Abelmoschus esculentus</i>  | .5 mi      | 50    | Outbreeder                           | Let pods dry.  |
| Peppers                   | <i>Capsicum annum</i><br><i>C. frutescens</i><br><i>C. chinensis</i><br><i>C. baccatum</i> | 300-600 ft | 10+   | Inbreeder, easily crossed by insects | Row cover to grow more than 1 species. Water process or dry process. |
| Tomatoes                  | <i>Lycopersicon esculentum</i>   | 10ft       | 5+    | Inbreeder                            | Ferment fruits 3-4 days.<br>Water process.                           |
| Sunflower                 | <i>Helianthus annuus</i>   | .5 mi      | 25+   | Outbreeder                           | Allow seeds to dry, cut early and hang if birds are a problem        |
| Squash                    | <i>Cucurbita pepo</i><br><i>C. moschata</i><br><i>C. maxima</i>                            | .5 mi      | 25+   | Outbreeder-easily crosses            | Choose short season varieties: Delicata, Zucchini, Spaghetti         |
| Watermelon                | <i>Citrullus lanatus</i>   | .5 mi      | 25+   | Outbreeder                           | Harvest seeds when ready to eat.                                     |

**Seed Saving Rule of Thumb:** Plants of the same genus AND species may cross pollinate. Plants with same genus and DIFFERENT species usually do not cross pollinate.

|                             |                 |                 |   |
|-----------------------------|-----------------|-----------------|---|
| Botanical Classifications : | Genus           | Species         | Common Name   |
|                             | <i>Brassica</i> | <i>oleracea</i> | broccoli, cabbage, brussel sprouts, cauliflower, collards, kale, kohlrabi |

Flower Structure:



Definitions

**Inbreeder-** Perfect flowers, self pollinated, 20 plant populations

**Outbreeder-** Needs insects or wind to pollinate. Larger population needed, 75-100 plants to maintain genetic diversity.

**Open Pollinated(OP)-** Variety is stable and you can save true to type seeds

**Hybrid-** Cross between two OP varieties. You cannot save true to type seeds

**Heirloom-** OP variety that is 40-50 years old

**Biennial-** Needs period of cold (vernalization) to produce seed. Usually two years.

**Annual-** Produces seed in one year

**Dioecious-** Male and female plants

**Monoecious-** Male and female flowers on same plant