

WHAT ARE SEEDS?

A plant produces seeds in order to reproduce itself. Just like an egg has to be fertilized to become a new animal, a seed must be pollinated to produce a new plant. Understanding pollination is key to getting seeds to produce the plants you want. Some plants are self-pollinating —the male and female parts are contained within a single flower that fertilizes itself. Other plants, called cross-pollinators, have separate male and female flowers and their pollen has to get from one flower to another in order for the flowers to be fertilized.

The seeds from families of plants that are selfpollinating are considered "easy" to save. The most widely crossing of the cross-pollinators are considered "advanced" because it takes effort to keep them from crossing with each other.

TYPES OF SEEDS

OPEN-POLLINATED / HEIRLOOM VARIETIES

These have been grown for so many generations that their physical and genetic qualities are relatively stable. This seed will be "true to type" if saved. In simple terms, you will reap what you sow.

HYBRID SEEDS

If a packet has hybrid, F1, or VF written on it, seeds from those plants will not produce plants like the parent plant. They may produce something somewhat or very different, or they may produce nothing at all.

ADVANCED SEEDS

Most of these vegetables are outbreeding and pollinated by wind or insects. They are commonly found flowering in local neighborhoods, making isolation very difficult. Seeds that require hand pollination, tenting, and other methods to ensure varietal purity are considered "advanced." These families will readily cross with unseen nearby plants and may create odd and possibly inedible varieties in one generation.



Mustard Family (Brassicaceae) : Asian greens, broccoli, brussel sprouts, cabbage, cauliflower, collards, kale, kohlrabi, mustard, turnip.

Easy versions : Arugula, rutabaga



Gourd Family (Cucurbitaceae) : cucumbers, gourds, luffa, melons, pumpkin, summer squash (ex. zucchini), winter squash (ex. acorn).

Easy versions : Plant uncommon cucurbits like gourds, mixta squash, luffa. Hand pollinate to ensure purity.



Grass Family (Poaceae): barley, corn, kamut, millet, oats, sorghum, wheat. Corn readily crosses with different, unseen varieties. It is unlikely that saved seeds will be like their parents.

Easy versions : Sorghum is easy to save because it does not cross. All other crops in this family are so uncommon in backyards that they are easy to save.

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English



LEARN HOW TO SAVE YOUR SEEDS



AT HARVEST TIME

Please take some extra steps to save seeds for others. We ask that a portion of the seeds you save be returned to the seed lending library to keep the library self-sustaining. The more seeds in the library, the more members of our community can experience the pleasures of growing their own food!

When you grow and save your own seeds, you:

- Develop seed stock that is well suited to our climate
- Lower your dependence on large seed companies

Q Save money

• Create a culture of sharing and abundance



PLANT FAMILIES

If you learn the family, genus and species of vegetables, you will also learn their basic seed saving needs & risks.

Families define the basic form of the flower parts of plants. All plants with the same flower (and reproductive) structure are in the same family.

Genera (singular: Genus) define more closely related plants. Crosses between genera are rare but can occur.

Species define specific botanically recognized plants with similar fruit, flowers, and leaves. Plants within one species will readily cross with each other.

Cultivars are cultivated varieties that can cross with each other but will not cross with varieties of other species. When we save seeds we usually want to maintain a cultivar.



FAMILY: Cucurbitaceae GENUS: Cucurbita SPECIES: Cucurbita pepo CULTIVARS: Acorn squash, Warted gourd

Squash and gourd are the same species and can easily cross-pollinate, which might result in an inedible variety. That is why they are labeled "advanced."

EASIEST-TO-SAVE SEEDS

The plants in these families are mostly self-pollinating. The flowers have male and female parts, so pollination occurs within the individual plant, not as a cross between plants. Seeds are reliably the same as the parent plant.



Aster, Daisy, Sunflower Family

Artichoke - Cardoon - Endive - Jerusalem artichoke - Lettuce - Salsify - Shungiku -Sunflower

For Jerusalem artichokes, the tuber is planted. For others in this family, allow the plants to flower and collect dry seeds.



Pea, Bean, Legume, Pulse Family Fabaceae or Leauminosae

Bean - Lentil - Pea - Peanut - Soybean

Allow beans and peas to dry in their pods on plants before collecting and storing. Peanuts are generally not grown in coastal California.



Nightshade Family

Cape gooseberry - Eggplant - Ground cherry Pepper - Potato - Tomatillo - Tomato

Allow fruits to fully ripen. Seed must be separated from pulp. Letting tomato pulp ferment in water for a few days is helpful. Seed should be rinsed and dried thoroughly before being stored. Potatoes are grown from tubers not seeds.

EASY-TO-SAVE SEEDS

These plants are self-sterile, cross-pollinating, or outbreeding. They will cross with other plants of their species. To save seeds from these plants you must:

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- Allow only one variety in each species to flower at a time
- Let multiple plants of 1 variety flower to ensure pollination

In our dense urban environments, some crossing can occur with our neighbors' plants, but these plants will not cross over great distances. Many are rarely allowed to flower anyway.



Lily or Onion Family Amaryllidaceae or Alliaceae

Chives - Garlic - Leeks - Onions

They are biennial, which means they won't flower until the second year, after winter. Let the seeds dry on the plant. Collect. With bulbing varieties, replant bulb when it sprouts.

Goosefoot or Amaranth Family

Chenopodiaceae or Amaranthaceae

Amaranth - Beet - Chard - Lamb's quarters Orach - Quinoa - Spinach

Beet and Chard are the same species, so only let one variety flower at the same time. Spinach is dioecious meaning each plant is either male or female, so let many plants flower at once for pollination. Let the seeds dry on the plant. Collect.



Parsley Family

Umbelliferae or Apiaceae

Carrot - Celery - Caraway - Chervil - Cilantro Coriander - Dill - Fennel - Parsley - Parsnip

Carrot unfortunately will cross with Queen Anne's Lace, so don't save carrot seeds if Queen Anne's Lace grows nearby. Many of this family are biennials, so flowering may not occur until the second year. Let the seeds dry on the plant. Collect.