# Saving Seeds in the Southeast

# 1. Will it go to seed in Florida?

Not everything produces seeds here. Many biennial plants including brassicas and root crops require cold winters to produce seed. So don't waste your time thinking about saving these seeds!

# 2. Is it hybrid or open-pollinated?

Don't save seeds from (F1) hybrids. Seed saved from hybrids will not be "true to type". Hybrids are great for growing, but not for seed-saving. If the plant is open-pollinated, as long as you don't let it cross-pollinate in the garden, you can save seeds "true to type"!

# 3. Watch for cross-pollination!

To keep a variety pure, you must plant it in isolation from other crops it can crosspollinate with. Knowing the scientific name will help you know what it will cross with, because only crops that are the same species will cross-pollinate. For example, *Cucurbita moschata* includes both Seminole pumpkin and Butternut squash. That means they are likely to cross with one another if flowering at the same time within proximity to one another.

# 4. Do you have space for that many plants?

Some crops require many flowering plants at the same time in order to have good genetics. Good genetics= good plants. If you are growing too few, over time the quality of the crop will decline. Also, crops going to seed may take more room in the garden, as they can get very tall and heavy.

# 5. Save from the best!

Always save from plants that show favorable characteristics including vigor, health, productivity, taste, and conformity with what the variety is supposed to look like. Pass on desirable traits to the next generation, not bad ones.

#### 6. Save information, not just seeds! It's really important to keep good notes including planting and harvesting dates, disease and pest issues, overall growth patterns, and use in the kitchen. These are helpful to you later, and also make it nicer when sharing seeds with others, who do not have this information. Take lots of photos!

# 7. Make those seeds last!

The average garden seed can last in decent storage for 2-10 years. Each year they lose some viability especially if storage conditions are poor. Three words to remember: COOL. DARK. DRY. These can be hard in Florida, but try your best. Dry your seeds as much as possible before storage. Keep them in paper bags or envelopes and inside a sealed container, or directly into a glass jar. Find a dark, restful and cool location to keep them. A refrigerator works ok, but put them in the back, not the door. Never store in warm places or in expose them to light. We don't recommend drying your seeds in a dehydrator, as temperatures above 90F can kill a seed embryo.

# **Resources:**

- 1. The Seed Garden: The Art and Practice of Seed Saving by *Seed Savers Exchange*.
- 2. Seed to Seed by *Suzanne Ashworth*.
- *3.* Breeding Your Own Vegetable Varieties by *Carol Deppe.*
- 4. The Organic Seed Grower by John Navazio.
- 5. Southern Exposure Seed Exchange has many resources available online.
- 6. Organic Seed Alliance has numerous growing, breeding, and trialing publications available online.

#### The Southern Heritage Seed Collective is a program of Working Food.



# **Useful Charts for Seed Saving**

: Common
garden
crop famili

Table 1: Common garden crop families	rop families.
Family	Crops
Amaranthaceae	Amaranth, orach, beets/swiss chard, quinoa, spinach
Amaryllidaceae	Leeks, onions, garlic, chives
Apiaceae	Dill, celery, cilantro, carrot, fennel, parsley
Asteraceae	Endive, chicory, dandelion, radicchio, artichoke, sunflower, lettuce
Brassicaceae	Mustards, rutabaga, broccoli, Brussels sprouts, cabbage, cauliflower, collards, kale, kohlrabi, broccoli raab, Chinese cabbage, Japanese greens, turnip, arugula, radish
Chenopodiaceae	Beets, Swiss chard, lamb's quarters, quinoa, spinach
Compositae	Endive, escarole, chicory, cardoon, artichoke, sunflower, Jerusalem artichoke, lettuce
Cucurbitaceae	Citron melon, watermelon, Armenian cucumber, luffah, chayote, melon, cucumber, gourds, pumpkin, winter squash summer squash
Fabaceae	Peanut, pigeon pea, beans, chickpeas, soybean, lentils, cowpeas, tepary bean, scarlet runner bean, fava bean, yardlong beans
Malvaceae	Okra, Hibiscus
Poaceae	Barely, rice, rye, sorghum, wheat, corn
Solanaceae	Peppers, tomatoes, tomatillo, gooseberry, ground cherry, eggplant, potato

Table 3: Crop specific se SO=Strongly Outbreedir	Table 3: Crop specific seed saving for Florida. SI= Strongly Inbreeding, MI=Mostly Inbreeding, BIO=Both Inbreeding and Outbreeding, MO=Mostly Outbreeding, SO=Strongly Outbreeding, Vo=Mostly Outbreeding, MO=Mostly Outbreeding, SO=Strongly Outbreeding, variety maintenance (better) and genetic preservation (best).	ly Inbreeding, I e seed (not ide:	3IO=Both Inb al), variety m	reeding and Outb aintenance (bette	reeding, MO=1 r) and genetic	Mostly Outbre preservation	eding, (best).
Species	Crop Common Name	Pollination	Breeding	Isolation		Population Size	'e
		Method		Distance	Viable Seed	Variety Maintenance	Genetic Preservation
Abelmoschus esculentum	Okra	Self, insects	BIO	500-1600ft	1	5-10	25+
Amaranthus spp.	Amaranth, Callaloo	Wind	BIO	650-1,300ft	1	5-25	50
Anethum graveolens	Dill	Insects	SO	800ft-1/2mile	5	20-50	+08
Brassica juncea	Mustard Greens	Insects	SO	800ft-1/2mile	л	20-50	+08
Brassica oleracea	Broccoli, Collards, Cauliflower, Kale, Brussels sprouts	Insects	SO	800ft-1/2mile	л	20-50	80+
Brassica rapa	Broccoli Raab, Chinese cabbage, Japanese greens, turnip	Insects	SO	800ft-1/2mile	σ	20-50	+08
Capsicum spp.	Peppers	Self, insects	MI	300-1,600ft	1	5-20	50+
Citrullus lanatus	Watermelon	Insects	MO	800ft-1/2 mile	1	5-10	25+
Coriandrum sativum	Cilantro	Insects	SO	800ft-1/2mile	5	20-50	+08
Cucumis melo	Melon	Insects	SO				
Cucumis sativus	Cucumber	Insects	SO	800ft-1/2mile	1	5-10	25+
Cucurbita argyrosperma	Squash and gourds	Insects	BIO	800ft-1/2mile	1	5-10	25+
Cucurbita maxima	Squash: Winter and Pumpkin i.e. Turban, Banana, Kuri, Kabocha, Hubbard	Insects	MO	800ft-1/2mile	1	5-10	25+
Cucurbita moschata	Squash: Winter and Pumpkin i.e. <i>Butternut, Calabaza, Seminole, Cheese</i>	Insects	MO	800ft-1/2mile	Ц	5-10	25+
Cucurbita pepo	Squash: Summer, Winter, Pumpkin and Gourd i.e. zucchini, crookneck, pattypan, acorn, spaghetti, delicate,	Insects	MO	800ft-1/2mile	Ц	5-10	25+
Eruca sativa	Arugula	Insect	SO	800ft-1/2mile	σ	20-50	80+
Fagopyrum esculentum	Buckwheat	Insects	BIO	800ft-1/2mile	5	20-50	+08
Foeniculum vulgare	Fennel	Insects	BIO	800ft-1/2mile	J	20-50	80+
Helianthus annuus	Sunflower	Insects	BIO	800ft-1/2mile	J	20-50	+08
Lactuca sativa	Lettuce	Self	MI	10-20ft	<u>с</u>	5-10	20+
Lagenaria siceraria	Gourd	Insects	BIO	800ft-1/2mile		5-10	25+
Ocimum basilicum	Basil	insect	SO	800ft-1/2mile	л	20-50	80+
Petroselinium crispum	Parsley	Insects	SO	800ft-1/2mile	л	20-50	80+
Phaseolus lunatus	Bean, lima	Self, insects	MI	160-500ft		10-25	50+
Phaseolus lunatus	Bean, runner	Self, insects	BIO	160-500ft	Ľ	10-25	50+
Phaseolus vulgaris	Bean, common	Self	MI	10-20ft	<u>с</u>	5-10	20+
Physalis grisea	Ground Cherry	Self, Insects	BIO	300-1,600ft	<u>с</u>	5-20	25+
Physalis philadelphica	Tomatillo	Insects	BIO	800ft-1/2mile	J	20-50	80+
Pisum sativum	English Garden Peas	Self	MI	10-20ft	<b>⊢</b>	5-10	20+
Raphanus sativus	Radish	Insects	SO	800ft-1/2mile	J	20-50	+08
Solanum lycopersicum	Tomatoes	Self, insects	BIO	10-50ft	<u>н</u>	5-10	20+
Solanum melongena	Eggplant	Insects	SO	300-1,600ft	<u>с</u>	5-20	50+
Spinacea oleracea	Spinach	Wind	SO	800ft-1mile	10	20-50	80+
Vicia faga	Bean, fava	Self, insects	BIO	160-500ft	1	10-25	50+
Vigna unguiculata	Bean, cowpea	Self, insects	BIO	10-20ft	-1	10-25	50+
Zea mays	Corn	Wind	SO	800ft-1/2mile	10	50-120	200+