Have this slide on the screen as the participants come into the workshop

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INTRODUCTIONS

(one minute per person)

1. Name
2. Occupation
3. Foodshed: your ecological/agricultural region
4. Your history of saving seed
5. What is your goal for this training.

Introduce yourself.
Ask participants to introduce themselves in one minute. Pass a one minute egg timer and monitor the length of their own introduction.
Introduce the Bauta initiative and its mission to support seed saving in Canada.
FUNDAMENTAL IDEAS:

- Sustainable food systems rely on sustainable seed systems.
- Seed is a natural resource that should be available to all.
- Seed saving is a skill that should be learned and shared.
- Continued practice of seed saving by individuals can contribute to community, regional, national, and international seed security.

1. Discuss these ideas and add any personal anecdotes
2. Invite group to add personal perspective
3. Explain the trainer of trainer model of teaching and how the last two concepts are being address by this training.
Tell participants that at the end of the class we will return to these questions.

4 questions to ask before you begin growing seed

1. Why am I saving seed?
2. What seed is best for me?
3. What biological principles are fundamental to seed saving?
4. What skills and techniques are needed to save seed?
Share agenda

Explain the three part approach to each module:

1. Introduction of the concepts
2. Activity to practice and reinforce the concept or skill.
3. Journal reflection (this one will be offered if time is available within the agenda)
1. WHY SAVE SEED?
A. WHY SAVE SEED?

As a member of a community, nation and planet.

Why is saving seed important for maintaining a sustainable food system?

Brainstorm a list with participants and then discuss responses.
B. WHY SAVE SEED?

As an individual.

*On what level am I interested in saving seed?*

a. To just play around in my garden, maybe seed swap.
b. To adapt a variety to your climatic conditions and insure a source of resilient seed.
c. To preserve the genetics of a variety (an heirloom perhaps) and insure a reliable source.
d. To contract with seed companies to produce seed as a source of income.
e. Other?

Invite participants to contribute answers. How participants answer this question may influence the emphasis of discussions throughout the training. If there is time, ask participants to share Journal reflections.

Journal activity: Construct two scenarios: If current trends in the seed industry continue, describe seed sources and seed quality in five years. What might be different if you save seed and/or train others to save seed.
Module #2 – Introduce topic. Selection of the seed you choose to save has implications for your success and reflects choice in genetic conservation.
Seed Choices:

Open Pollinated (OP) – OP’s produce seed that closely resemble the parent. OP varieties are a result of combining parents that are genetically similar. If you plant an OP, save seed and grow that seed the next season, the plants will look like the ones you grew last year.

Heirloom – Non-hybrid/open-pollinated varieties that have been passed down from generation to generation (>50 years old is generally considered an heirloom).

Hybrid (F1) – F1’s are a result of a controlled crossing of inbred, genetically distinct parent populations. Seed saved from F1’s will appear very different from their parents, only a few plants will look like the original F1 variety.

GMO Varieties – Varieties in which genes have been inserted into the DNA of the host variety. The genes that are transferred are often from different species, genera, or even kingdoms (e.g. Bt toxin).

Open Pollinated and Heirloom Varieties

- self perpetrating and can provide a reliable source of seed.
- Often have inherent genetic diversity & potential for selection for improved local adaptability, even if the plants appear similar visually.

Hybrid

- Will not grow “true to type” therefore not a reliable source.
- May be good source of genetic material for a plant breeding project.

Discussion topics (as appropriate for the audience)

- Hybrid uniformity and vigor...why hybrids are used in farming and gardening.
- Explain that you can create an OP from a hybrid if you are interested in a long range breeding project.

The amount of time spent with GMO’s depends upon you and your audience. Consider referencing

David Suzuki, Canadian geneticist won the Right Livelihood Award in 2009. www.davidsuzuki.org/david/.../David_Suzuki_Biotech_essay.... - Canada
Seed Choices

**From Annuals** – Plants that require only one growing season to produce seed and complete their life cycle.

**From Biennials** – Plants that require two growing seasons to produce seed and complete their life cycle.

**From Perennials** – Plants that live more than two years, usually producing flowers and seeds from the same root year after year.


- Much variation in time of flowering.
- Must plant early enough to mature seed.

**Biennials** - Carrot, Beet, Cabbage Clan, Celery, Onions, Parsnip, Swiss Chard, Turnip.

- Vernalization: approx. 8 – 10 wks @ < 50°F (10°C)
- Must consider both vegetative and storage stages of life cycle.
- Plant for optimum over-wintering size and condition. Expect to lose some of crop over winter.
3. UNDERLYING BIOLOGICAL PRINCIPLES: PLANT TAXONOMY

Module #4
For seed saving the most important concept is knowing that plants that share the same species name can cross. The species name is the binomial (genus and specific epithet). Knowledge of genera and families is also useful to learn because species in the same genus or family often have similarities in their reproductive structures and thus similarities in seed saving practices.

For example:

*Brassica oleracea* has many members: cabbage, kale, broccoli, Brussels sprouts and cauliflower. All of these crops were selected by humans from a wild kale type plant. As a seed grower, it can be a challenge if you want to grow more than one of these in the same area. Knowing the genus and species provides you with the insight and foresight to use isolation techniques to avoid any unwanted cross pollination. We will cover more on this topic later in the class.

Also, the binomial name gives you insight into any wild or native plants that have potential for crossing with your crop. For example: *Daucus carota* is the species of both carrots and Queen Anne’s Lace (a wild relative of the carrot).
The next module will cover floral anatomy and reproduction. But at this point the participants should understand that the two varieties can cross pollinate.

Answer to the question:
Advise grower to only grow one species each year, or
Create a barrier for insects to avoid cross pollination, such as a bag or tent around certain plants for seed

From Seed to Seed, page 152
“A research study in New Mexico State University showed up to 80% crossing in some populations of peppers.
Members of this family share common mating systems, isolation distances, population sizes, harvesting and cleaning methods for seeds. Learn the techniques for one and you can generally apply that pattern to other members of the same family.

DISCUSS why hand pollination of squash plants is a common practice for growers wanting purity of seed stock.

REVIEW the following photos of the major families to point out patterns and similarities within the family. Also look for members of the same species that can cross.
Module #3

4. UNDERLYING BIOLOGICAL CONCEPTS: REPRODUCTION
4. Underlining Biological Concepts - Reproduction basics:

A. Flower anatomy: structure and function.
B. The “Mating System” of your plant...how it pollinates.
C. Techniques that improve or maintain seed physical and genetic qualities.

Share the glossary of terms with participants.
If you are planning to include the flower dissecting activity in your class, now is a good time for that exercise. Otherwise review floral parts with participants with the diagram. Point out the male and female floral parts. Explain that this is a model of a perfect flower. Show how the pollen tube grows to deliver pollen to the ovary. The pollen will not germinate or the pollen tube may not grow if the temperature and humidity is not appropriate for the crop being grown.

Flower Dissecting Activity:
1. Provide each participant with a fresh “perfect” flower, razor blade and a hand lens.
2. Use the diagram to review the basic male and female parts of a flower AND explain their function.
3. Dissect the flower with participants and identify the mate and female structures.
4. If possible have several flower samples available to compare and contrast.
Flower function:

Pollination: Pollen produced from the stamen must land on the surface of the stigma.

Fertilization: Once it has landed on the stigma, pollen must germinate and grow a pollen tube down through the style to the ovary and fertilize the ovule. Each fertilized ovule becomes a seed.

Cover concepts of pollination and fertilization.
Point out that a seed will not be formed without the success of both pollination and fertilization.

Discuss the potential hurdles that must be overcome for both of these processes to be successful. Discuss ways that pollen can travel, the need for adequate insects or wind, how flowering times influence pollination, how climate might effect the processes: too hot or cold or dry or wet for pollen or pollinators, and the need for appropriate temperature and humidity for the pollen to germinate and the pollen tube to grow.

As one old time plant breeder once said, “pollination without fertilization is like recreation without procreation”.
B. The “Mating System” of your plant:

1 Bisexual “perfect” flowers contain BOTH the male and the female reproductive organs.

2 Unisexual “imperfect” flowers contain EITHER the male organs OR the female organs...not both. If plants have “unisexual” flowers, they either:
   • Have male and female flowers on the same plant – monocious (one house)
   • Have male and female flowers on separate plants – dioecious (two houses)
Most ornamental flowering plants have perfect flowers. The next two slides show a few of the many ways that perfect flowers can be structured.
The bean flower is a perfect flower with closed petals. The lily a perfect flower with open petals.
Perfect flowers can cluster together in a flower head as in this sunflower.
Imperfect flowers are less common in flowering plants than perfect flowers, but many vegetable plants have imperfect flowers like this corn.
Point out the seed producing ovaries on the female and the pollen producing stamen on the male plants.
Point out the swollen ovary on the female plant.
This is an opportunity to address techniques of hand pollination, common in squash.
**Inbreeding plants** are self-fertilizing, or self-pollinating, and essentially mate with themselves. The pollen of one flower on the plant fertilizes the ovule of the same flower. The offspring are therefore very similar to the parent.

**Outbreeding plants** will cross pollinate and mate with another plant of the same species. The pollen of one plant fertilizes the ovule of another plant of the same species. This mixing produces offspring that can be genetically different from the parent.

Most species will both self and cross pollinate to varying degrees. A plant’s mating system falls on a spectrum between very inbreeding and very outbreeding.

“very inbreeding” ↔ “very outbreeding”

1. **EXPLAIN:** One end of the spectrum has plant species (like tomatoes) with perfect/bisexual flowers that remain closed... these would therefore be largely self-pollinating and “very inbreeding”. The other end of the spectrum will have dioecious species (like spinach) that rely completely on cross fertilization and are “very outbreeding”.


1. **DISCUSS the advantages of inbreeding and outbreeding:**
   - **Advantages of inbreeding:**
     - If the plant is very well adapted to its environment, then it insures that the offspring are just as well adapted.
     - The plant doesn’t have to rely on outside pollinators.
   - **Advantages of outbreeding**
     - Increases genetic variety in the plants gene pool. Because of the mixing of genes there will be slight variety in traits in the offspring.
     - Some of these new combinations of traits might help the plants ability to adapt to a changing environment.
In peas the petals of the flower are closed during the period of time that the stigma is receptive to pollen, therefore allowing only pollen from its own anthers to enter. When a pea opens it is already fertilized.

Inbreeders can be the easiest group to save seed from because they naturally self fertilize and don’t require large isolation distances.
In tomato flowers the anthers form a cone around the pistil thereby sealing off the flowers stigma from any pollen besides its own.
If this plant is Primarily Inbreeding. What might occur to cause it to not be self fertilizing?
DISCUSS the following biological mechanisms that assist crossing for outbreeders:

- Flowers are not mobile and are forced into attracting pollinators or structuring their flowers so they are receptive to wind movement.
- Separation of male & female sexual parts into different flowers forces crossing (monecious and dioecious)
- Self-incompatibility: plants that will not receive their own pollen and will only cross, example: Brassica family.
- Temporal separation of sexual parts, e.g. pollen release before ripe stigma. For example: Corn is monecious with male and female flowers on the same plant, but the male tassel matures and releases pollen before the female flowers open.
DISCUSS this slide in detail:

Inbreeding, self-pollinating species require less isolation and population size. Outbreeding, cross-pollinated species require greater isolation distances and population size.

- Point out the population sizes that are acceptable. Notice that outbreeding plants require larger numbers. The larger population numbers for the outbreeding plants will help reduce INBREEDING DEPRESSION – The loss of variation and vigor due to the crossing of genetically similar plants.
- Generally - Inbreeders: < 20 plants is OK if the variety is stable and uniform.
- Generally - Outbreeders: 80-100 plants minimum.

C. Maintaining and Improving Seed Physical and Genetic Quality: POPULATION

Having an adequate gene pool for your crop is essential in retaining the genetic diversity necessary to maintain or improve all the traits you are seeking in your crop including flavor, vigor, resistance, tolerance of drought or saturated soil.

An adequate population size is also necessary to avoid inbreeding depression, particularly in out-breeding crops.

1. REVIEW why population numbers are important
   • Greater numbers of plants will help insure greater genetic diversity, and adaptive resiliency.
   • Avoiding inbreeding depression.
   • Maintain genetic diversity and adaptive resiliency of important traits. Larger populations (100 plants instead of 10 plants) will have a larger gene pool and more genetic diversity to draw from for the offspring. This can increase the chances of plants in the population receiving a combination (remixing) of genes that can contend with environmental challenges.
   • Help you deal with a loss of plants that die or fail to flower due to: weather, pests, accidents, higher selection/roguing.
   • Advanced participants: Narrowing the gene pool in outbreeding crops will result in a higher rate of self-pollination, which can lead to inbreeding depression. Self pollinations result in higher rates of double recessive alleles showing up in the population. Some double recessives are expressed as negative or deleterious qualities. The theory is that in in-breeding species these traits were naturally selected against due to the high rate of self pollinating.

2. ACTIVITY Play the “We are seeds” game.
1. DISCUSS examples of each type of isolation

- **Staggered flowering time** - many times there’s more overlap in flowering than you anticipate when you stagger your planting dates. Obviously biennial staggering is okay

- **Collection of seed from center of “block”**

- **increased isolation necessary when large numbers of pollinators are present and when crop populations are large**

- Here carrot plants are isolated with tenting.
- Other physical barriers might be bags, cages, thick vegetation and or buildings.
This is a generalized chart using the type of mating system to determine distances between plant. Minimum distances are dependent on “intended use”, no distance is absolute.

Other factors that might alter the distances are:
- Open landscape and or high winds
- Extremely different varieties that are in the same species: zucchinis and pumpkins Curcurbita pepo
- If you are in proximity to a GMO variety of the same species
- There are extremely high levels of pollinator activity in your area.
C. Techniques to support reproductive success and maintain your crop’s genetics: ROGUING

Roguing is removing the inferior or underperforming plants in your seed crop. Roguing can be done to eliminate: early bolting, slow to germinate, lack of vigor, size, color, disease or any other undesirable trait.

Walking through your crop and pulling plants that you don’t want to reproduce will eliminate or minimize their contribution of genes to the next generation of seed accidental crossing.
• Rogue more than once during the season.
• Rogue before flowering to remove unwanted pollen.

Point out that selecting and rouging are two sides of the same coin. Also be sure to consider numbers lost to rouging when you plan population sizes of your crop.

DISCUSS how important it is to determine from the onset what factors you are selecting for in your crop. This becomes the foundation for your process of selection and therefore the process of roguing.
BRAINSTORM with participants some of the qualities of a crop that could be used as part of the selection process for your specific region.
SHARE your practice selection and the of marking plants that you intend to save.

Removing plants after they flower will still minimize genes contributed to the next generation by removing the female portion of the plants genetic contribution. If the species is outbreeding, it may have already contributed some male genes from pollen.

Take care not to over rogue and reduce your population size too much. You may also want to keep some variation in the population to keep a diversity of traits in the future population allowing further opportunities for selection.

Journal question:
Select any vegetable crop that you might consider growing to seed. You have planted 100 seeds and are observing them as they grow. Describe the traits that you would like to see in that plant. If you are going to “save the best and eat the rest”, describe the ones you will eat and the ones you will save for seed.
C. Maintaining and Improving Seed Physical and Genetic Quality: FEED THE SEED

The needs of a seed crop can differ from those of vegetable crops. You will need to:

- Balance the available nitrogen.
- Provide an adequate source of phosphorous.
- Provide spacing needs for crops that become larger as they mature into the seed production.
- Some crops might require staking or trellising to keep them from falling over as they mature and dry.
- Monitor your seed at all stages for disease and weeds.

Spacing requirements need to be stressed. Encourage people to let a few plants flower one year to see how big they get so they can plan for saving seed the next year.

Nitrogen- too little can stunt, too much can encourage vegetative growth rather than flowers and seeds.
Phosphorous is needed for the production of flowers and seed.
Staking...the above mentioned and onions and beets
Spacing – plants we don’t normally see in the seed stage might need more space
Module #5
Include demonstrations and guided practice with each of the techniques listed.

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How you harvest and dry the seed depends upon whether the crop is dry seeded or wet seeded.
Reference and discuss dry seeded crop maturity page 11, column 2 OSA guide “Do I have mature seed”. Discuss.
For many types of winter squash the seed quality and germination percentage of the seed will increase if the seed is left in the fruit for two to three months.
Biennial crops bear seed in the second season following a cold period (vernalization...approx. 8 – 10 wks @ < 50°F /10°C). Therefore, these crops must overwinter before producing flowers and seed the following year.

**Introduce the term** Steckling: The trimmed root of a biennial crop like carrots, beets, or parsnips that are prepared for replanting using the root-to-seed method.
• If you live in an area with cold or mild winters, often plants can be left in the ground with tops trimmed back and covered with a proper mulch.

• If you live in a colder climate, these crops are usually dug up, stored in a cool location and replanted in the spring. When you dig these first-year roots (stecklings) select your roots for the desired traits, remove the excessive tops but leave the crowns, and store them for overwintering in a root cellar. Moist sand is a good medium for stecklings of root crops like carrots, beets and parsnips.
Root Selection: “Replant the best, eat the rest”

Brainstorm desired traits with participants – root shape, stem attachment at crown, root smoothness, absence of pest and disease, uniformity, etc.
Roots may be stored overwinter in a cold room, such as a root cellar if you live in an area with prohibitively cold winters. Remember, the crown of the root must live through the winter and resume growth in the spring. In general, parsnips are more cold hardy than carrots and beets, but if you have hard freezes, you may need to bring roots in to cold storage in the fall.

When roots are replanted trim any dead portions of foliage prior to planting.
Planted so crown is above soil
Harvested and dried like other dry seeded crops
The goal is to time the harvest of seed for maximum viability. Sometimes the perfect “ripeness” for eating (as in these peas) is not the perfect “ripeness” for seed saving. It is a balancing act. Harvesting too early can result in the embryo inside the seed not having the time needed to mature. Harvesting too late can result in loosing seed to predators, shattering or fungus and rot.

**Signs of seed maturity:**

Brown, dry stems below the attachment of the seed head is a good sign of full maturity and readiness for harvest.

Seed will begin to shatter when fully mature, watching for early signs of shattering is a good indicator that some seed is ready for harvest.

Examine the seed closely. Does it have a full embryo? Is it dry? Does it look like seed you would find in a seed packet?

Most dry seeded crops ripen sequentially from oldest to newest flowers. The optimum time for harvest is generally when some of the first seed to ripen is beginning to shatter, or fully matured. The newer flowers will likely still have some un-mature seed, but if you are harvesting the entire plant then you will need to gauge the optimum timing, which varies from crop to crop. For example, lettuce seed is generally optimum when approximately 70% of the plant is covered in the white papus (fluff).
1. DISCUSS the importance of collecting information about your seed. Keeping good records is the foundation of good seed saving. Refer to crop specific recommendations in the OSA seed saving guide.

2. BRAINSTORM a list with participants of the important information to record about your seed at harvest. The list might include, common and Latin name, dates of planting, year seed was produced, population size, isolation distances, dates of plant maturity (vegetative, flowering, seed set) list of selection criteria and what off types were rogued, date of seed harvest,

- Timing of the harvest varies for each crop.
- For example, the seed quality and percent germination of many types of winter squash will increase if the seed is left in the fruit for two to three months.
HARVEST/DRY
DRY SEEDED

- Allow plant to flower and set seed.
- Allow seed heads or pods to dry on the plant.
- Pull or cut plants.
- Dry plants.

Harvesting radish seed crop into windrows
Dry seeded plants can be effectively dried in windrows.

- Place in rows on fabric or tarp. Do not stack. Geotextile fabric or remay is preferred to a tarp because it can drain moisture and breath. Available from landscaping supply stores.
- If porous groundcover then crop can tolerate some precipitation
- Be sure to turn the crop
- Allow to fully dry, this will help separate the seed from the plant material.
Another effective method is drying on tables in hoop house. This drying technique is used for members of the carrot, lettuce, brassica, grains, onion, families.

- Completes maturity
- Dries plant material for separation
- Preserves seed
- Techniques: breathable cloth, table, screens, turning, fans, heat
Optimum ripeness for maximum viability is often different than optimum ripeness for eating.

Signs of maturity vary by crop, but here are a few guidelines:

Tomatoes – slightly more ripe than eating stage, when the skin begins to pull slightly
Zucchini and Cucumbers – full size, turning yellow on bottom, or fully yellow in cucumbers
Winter squash – edible maturity
For example, tomato seeds germinate better if the fruit is partially rotted before seed drying.

Tomatoes and peppers benefit greatly from fermentation

Cucurbits do not require fermentation, but seed will come clean more easily with a fermentation
Do not add water to the fruit slurry. It decreases the concentration of sugars and slows the process, which can lead to premature germination and/or disease problems. Fermentation also makes seed cleaning easier by loosening the pulpy residue clinging to the seed. In addition, it removes a germination inhibiting gel from the seed.
Dry immediately!

- Spread thin on screen if possible
- Provide good air circulation
- Stir seeds on screen often

The two crops that experts agree should be fermented are tomatoes and cucumber. Squash can be rinsed and dried without fermentation. Other wet seeded crops can be fermented briefly (1-2 days) to soften the pulp and make cleaning easier.
CLEANING TECHNIQUES
Threshing, Winnowing, Screening
THRESHING

Threshing is the process used to break up the plant material and release the seed. It is a typical step before cleaning.

Threshing can be done with a machine but also by
- Rubbing seed heads between your hands.
- Rolling up a tarp and stepping on it.
- Stomping seeds in a bucket or bag.
If appropriate discuss mechanical threshing.
This skill requires practice and should not be done the first time “without a net” i.e. without a tarp below to catch seed.
The magnitude of the breathe, size of the seed and the shape of the bowl all effect the success of the process.
Practice, practice, practice.

For large quantities of seed, fans or the wind can be used.

Have a variety of seed available to clean using varied methods.
Demonstrate this technique

Box fans are excellent for gravity separation. Notice two containers
Which is closer to the fan?

Light seed and chaff  Heavy seed
SCREENING

Separation by size after threshing or winnowing.

Remove larger chaff – “top screening”. Remove smaller debris – “bottom screening”.
SEEDS ARE ALIVE!
Inside of every seed is an embryo living on its stored food (endosperm).
To prolong the life of a seed you must slow down the rate at which the embryo uses its food.
You can do this by keeping the seed cool and dry.

Use this diagram to explain the purpose of the structures inside the seed.

Play peel the bean.
Conditions for optimum storage:

- Cool, dry, stable temperature, no water, no critters.
- Cleanliness
- Temperature F + % Humidity = < 100
- Containers: airtight vs. breathable
- Envelope test – when a coin envelope is put into the seed lot, will it seal within 1 to 2 days?

Discuss and demonstrate Germination Testing. Place 100 seeds on a moist paper towel. Roll up the towel and place inside a zip-lock bag. 3-7 days later open and count the number germinated. This gives you the % germination rate.
Every seed has a different longevity based on how it is stored.

A general rule for typical storage:
1 year: onion, parsley, parsnip, salsify
2 year: dandelion, sweet corn, leek, okra, pepper.
3 year: asparagus, beans, carrot, celeriac, celery, chervil, Chinese cabbage, kohlrabi, pea, spinach.
4 years: beets, Brussels sprouts, cabbage, cauliflower, chicory, eggplant, fennel, kale, mustard, pumpkin, rutabaga, squash, Swiss chard, tomato, turnip, watermelon.
5 years: cardoon, collards, endive, lettuce, muskmelon, radish, water cress.

*typical might look like ambient indoor conditions

1. Seed to Seed is an excellent reference the “shelf life” of properly stored seeds.
2. Notes from a seed saver. “Remember to obtain a “representative sample” sampling seeds from each individual plant as future reproduction stock (mainly important for outbreeders) vs using what is left in the bottom of the jar.”
3. Demonstrate a germination test.
The longevity of a seed also depends upon the TEMPERATURE and DRYNESS in which it is stored.

- For example, a typical life span of a bean is 3 years. But, with optimum coldness and dryness, a bean seed can last up to 10 years, 20 years if it's frozen.

- Dry matters a lot more than cold.

Reference A Seed Saving Guide, Seed Storage: Know how to protect your seed harvest and keep it viable for specifics on percent of moisture and achieving a “very dry” seed.
6. REVIEW: REFLECTING ON THE LEARNING
1. Ask participants to review the 4 questions.
2. Reference resources for deepening their understanding.