INDOOR STRATIFICATION

OPTION 1: SAND (BEST FOR SOWING SEED IN ROWS)

1. GATHER SUPPLIES. PLACE A SMALL AMOUNT OF STRATIFYING MEDIUM INTO A BOWL. We are using ~1/3 cup fine stratification sand with ~1/8 oz seed.

2. ADD WATER. 1 to 2 teaspoons is all we needed for this amount of sand.

3. MIX ONLY ENOUGH WATER TO ALLOW MEDIUM TO FORM INTO A BALL.

4. ADD YOUR SEED. Our package label will indicate the suggested number of days for artificial stratification.

5. REFRIGERATE THE SEED MIXTURE IN A SEALED PLASTIC BAG MARKED WITH START AND FINISH DATES. Check periodically so that the mixture does not dry out. If premature sprouting occurs, plant immediately.

6. ONCE COLD MOIST STRATIFICATION IS COMPLETE SOW THE SEED INTO ROWS outdoors if threat of below-freezing temps are past. Keep rows well weeded and thinned.

OPTION 2: PAPER TOWEL OR COFFEE FILTER (GOOD OPTION FOR SOWING INTO SEED STARTING TRAYS)

1. USING A CALENDAR AND OUR GERMINATION CODES, CALCULATE THE DATE TO START COLD, MOIST STRATIFICATION PRE-TREATMENT. Record the start and finish dates on a plastic bag. Rinse or complete a short soak of the seed. Pour into a coffee filter, paper towel or fine screen to drain.

2. ARRANGE SEED IN A SINGLE LAYER AND ALLOW ALL EXCESS WATER TO DRAIN OFF.

3. FOLD SEED LOOSELY INTO THE COFFEE FILTER OR PAPER TOWEL TO ALLOW FOR WEEKLY SPOT CHECKS. The seed and paper should be damp but not wet.

4. A DRY PAPER TOWEL ADDED TO YOUR LABELED RESEALABLE BAG will help to maintain even moisture while pulling excessive moisture away. Do not allow the stratification medium to completely dry out or stay soggy enough to rot.

5. PLACE THE SEALED BAG IN YOUR REFRIGERATOR (NOT FREEZER) and monitor weekly, or as needed. Replace coffee filter or paper towel often, repeat from step 1. Once seed has completed the recommended stratification period, or if excessive early sprouting occurs, plant immediately in seed starting trays or outdoors, if threat of below-freezing temps are past.

STEP-BY-STEP TUTORIAL FOR GERMINATION CODE C

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Germination Codes and Seed-Starting Basics for Native Plants

Request your free full-color catalog at prairiemoon.com
The seeds of many native plants have built-in dormancy mechanisms that protect them from germinating before killing frosts or in times of drought. In the wild, seeds will lie dormant until the proper conditions for growth occur. But in cultivation, the successful gardener must become familiar with several simple pre-sowing seed treatment methods which will unlock the dormancy mechanism and stimulate quicker, more consistent germination.

We have developed the following seed germination codes to help you successfully grow the native seed sold by Prairie Moon Nursery. These seed treatment suggestions have been compiled from our own experience, available literature, and feedback from other growers and customers. These are only suggestions and not the definitive source of germination information. If your experience reveals successful methods other than these, please let us know.

Until you are ready to plant or apply pre-sowing treatment, seed should be stored under refrigeration (33–40°F) or in a cool, dry place. Avoid rapid or frequent changes in temperature or humidity and protect against rodents.

An adequate root system with supporting top growth is the first priority. Full flowering happens once a mature plant is established.

**Germination Codes and Instructions**

**A NO PRE-TREATMENT NECESSARY** other than cold, dry storage (also called dry cold stratification). Seed purchased from Prairie Moon has been stored under these conditions. Seed should germinate upon sowing in a warm location.

**B HOT WATER TREATMENT:** Bring water to a boil, remove from heat, pour over seeds, and soak at room temperature for 24 hours prior to planting.

**C STRATIFICATION NEEDED:** Seeds germinate after a period of cold, moist stratification. Approximate number of days needed is indicated in the parentheses, next to germination code C (i.e. C (60) = 60 days of cold, moist conditions needed). See indoor stratification recommendations on back panels.

PLEASE NOTE: You do not need to stratify if you are broadcasting or using a seed drill outdoors in fall or winter. Also, do not use this method if you are planting a seed mix and cannot keep the site moist.

**D SURFACE SOW:** Seeds are very small or need light to naturally break dormancy and germinate.

**E SEEDS NEED A WARM, MOIST PERIOD FOLLOWED BY A COLD, MOIST PERIOD.** Mix seeds with sterile medium, place mixture in a labeled, sealed plastic bag and store in warm (about 80°F) place for 60–90 days. Then place in refrigerator (33–38°F) for 60–90 days before sowing. Or, sow outdoors and allow one full year for germination.

**F SEEDS NEED A COLD, MOIST PERIOD FOLLOWED BY A WARM, MOIST PERIOD FOLLOWED BY A 2ND COLD, MOIST PERIOD.** Seeds germinate after alternating, cold moist, warm moist, cold moist stratification treatments. Start by following instructions for code C, then store in warm (70 to 80 degrees F) place followed by a 2nd cold period. Or sow outdoors and allow 2 years or longer to germinate.

**G SEEDS GERMINATE MOST SUCCESSFULLY IN COOL SOIL.** Sow seeds in late fall (after hard frost) or early spring.

**H SEEDS NEED SCARIFICATION:** For spring planting, Prairie Moon scarifies these seeds before shipping. Seeds for fall or frost planting are not scarified to prevent premature germination and winter kill.

**I LEGUME, RHIZOBIUM INOCULUM.** We include genus-specific inoculum with legume seed free of charge. Add inoculant to dampened seed and mix thoroughly at time of stratification (code C) or outdoor seeding.

Inoculum aids in the fixation of atmospheric nitrogen and improves the long-term health of native plant communities.

**J WE REMOVE THE HULLS FROM THESE LEGUME SEEDS.** This gives more seeds per pound and greatly improves germination. If you have unshelled seed from another source, treat as in Code H.

**K HEMIPARASITIC SPECIES that needs a host plant.** Good hosts for many parasitic species include low-growing grasses and sedges.

**L PLANT FRESH SEED OR KEEP MOIST.** Refrigerate until planting or starting other treatment.

**M BEST PLANTED OUTDOORS IN THE FALL.**

**N UNSURE:** Your input would be of interest to us.

**O SEED STARTING MEDIUM**

We use fine sand as a medium to artificially stratify seed. We send one cup of sand which can be used to stratify up to 1/2 oz of seed (slightly more or less depending on seed size). We also send this sand because, unlike other seed starting media, the uniform color and fine texture allows you to see your seed. (Includes 1 lb)

**P Seed Stratification Sand** $7.00

**OUTDOOR SOWING FOR ALL GERMINATION CODES**

**A C D E F G K M ?**

The wide range of stratification needs for native seed makes outdoor sowing late-fall through early-late spring a practical and efficient method for planting. This is especially true for beginners or when planting many different species.

When outdoor sowing, it is good practice to plant on a weed-free site, clear of vegetation. The requirements for each species vary but a good rule of thumb is to plant the seed NO DEEPER than the width of the seed. Species with very small seeds should be surface-sown, then firmly pressed to make sufficient contact with the soil. Cover with burlap to keep the area from drying out.

If you expect to move the plants once mature, then sowing the seed into rows works best. Mark the rows well and keep weed-free and thinned well.

**Starting from Seed**

**Popular native wildflowers & grasses that will germinate without pre-treatment.**

- Alchemilla canadensis - Wild Garlic
- Andropogon gerardii - Big Bluestem
- Aster lateralis - Smooth Blue Aster
- Aster oblongifolius - Aromatic Aster
- Bouteloua curtipendula - Prairie Brome
- Carex muskingumensis - Palm Sedge
- Elymus hystrix - Stripe Sedge
- Echinacea purpurea - Purple Coneflower
- Desmodium canadense - Aromatic possession
- Andropogon gerardii - Big Bluestem
- Allium canadense - Wild Garlic
- Aster oblongifolius - Aromatic Aster
- Aster lateralis - Smooth Blue Aster
- Carex muskingumensis - Palm Sedge
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