

Bluestem Breezes  
Karaline Mayer  
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## **Garden Preparations Underway**

It seems that any winter day when the sun is shining and it's warm enough to enjoy a stroll outside, I dream of gardening.

Each time I gaze out the window and look upon my bare and boring garden plot, I begin to dream of the crops to come! You know, it's only about 60 days (more or less) before it is full steam ahead.

K-State's Ward Upham compiled resources you'll want at your fingertips to prepare for the 2013 gardening season.

There are recommended varieties of plants for Kansas. Take a look at the list here: <http://www.hfrr.ksu.edu/DesktopDefault.aspx?tabid=731>. This page includes flower, fruits, vegetables, trees, grasses, etc. These plants have proven themselves across the state of Kansas and this is a good place to start when deciding what to plant.

However, also talk to your neighbors, friends and garden center about what has worked well for them. Obtain your seeds from a reputable source including garden centers and seed catalogs. If choosing seeds from a business that does not specialize in plants, pay special attention to the package date to make sure the seed was packaged for the current year. Though most seed remains viable for about 3 years, germination decreases as seed ages.

**Determine the Date to Seed:** Determine the target date for transplanting outside and the number of weeks needed to grow the transplant. The target date for transplanting the cool-season crops such as broccoli, cabbage, cauliflower and onions are the end of March to the beginning of April. Warm-season crops like tomatoes, peppers and most annual flowers are usually planted about May 10.

**Sowing Seed:** Do not use garden soil to germinate seed as it is too heavy and may contain disease organisms. Use a media made especially for seed germination.

**Keep Seed Moist:** Seed must be kept moist in order to germinate. Water often enough that the media never dries. Using a clear plastic wrap over the top of the container can reduce the amount of watering needed. Remove the wrap after the seedlings emerge.

**Light:** Most plants will germinate in either darkness or light but some require darkness (Centurea, Larkspur, Pansy, Portulaca, Phlox and Verbena) and others require light (Ageratum, Browallia, Begonia, Coleus, Geranium, Impatiens, Lettuce, Nicotiana, Petunia and Snapdragon). All plants require adequate amounts of light once emergence occurs. South facing windows may not provide adequate amounts and so fluorescent fixtures are often used. Suspend the lights 2 to 4 inches above the top of the plants and leave them on for 16 hours each day.

**Temperature:** The temperature best for germination is often higher than what we may find in our homes especially since evaporating moisture can cool the germination media. Moving the

container closer to the ceiling (top of a refrigerator) can help but a heating mat is best for consistent germination. After plants have germinated, they can be grown at a cooler temperature (65 to 70 degrees during the day and 55 to 60 degrees at night). This will help prevent tall, spindly transplants.

**Plant Movement:** Plants react to movement. Brushing over the plants with your hand stimulates them to become stockier and less leggy. Try 20 brushing strokes per day. However, brushing will not compensate for lack of light or overcrowding. Plants grown under inadequate light will be spindly regardless of any other treatment.

**Hardening Transplants:** Plants grown inside will often undergo transplant shock if not hardened off. Plants are hardened off by moving them outside and exposing them to sun and wind before transplanting occurs. Start about two weeks before transplanting and gradually expose the plants to outside conditions. Increase the number of hours and degree of exposure over the two-week period.

By chance, have you visited the Horticulture Information Center lately? It is a wealth of free information at your fingertips. I think you'll find this site very useful:  
<http://www.hfrr.ksu.edu/p.aspx?tabid=583>.

For further information on preparing for the upcoming growing season, visit the Extension Office (215 Kansas, Courthouse, Alma; [kamayer@ksu.edu](mailto:kamayer@ksu.edu); 765-3821). For Bluestem Breezes archives, check out [wabaunsee.ksu.edu](http://wabaunsee.ksu.edu).