

WHAT TO EXPECT:

Establishing Prairie Vegetation on Your Farm

What is prairie vegetation?

A diverse mix of deep-rooted, stiff-stemmed native perennial grasses and flowering plants.

Why grow prairie vegetation?

Perennial prairie plants offer many benefits, including:



Nutrient loss reduction



Improved water infiltration



Erosion control



Pollinator habitat



Wildlife habitat



Aesthetics

BEFORE YOU PLANT

How do I start?

Consult with your local Natural Resources Conservation Service (NRCS) or similar organization for technical assistance and resources to determine a site-appropriate seed mix, available seeding options, timing recommendations, and cost share opportunities.

When do I start?

Establish prairie vegetation following soybean harvest in existing row crop fields to reduce the potential impact of previous herbicide use.

Where can prairie vegetation fit on your farm?

Prairie vegetation can fit anywhere on the farm, including small areas (<1 acre), as long as the area is accessible to mow in the first crucial years of establishment.



In-field strips

Plant contour prairie strips at least 30 feet wide within row crops. You can increase width to match your field layout and farming equipment.



Edge-of-field plantings

Establish or improve field buffers to retain sediment and nutrients within the field, and increase wildlife and pollinator habitat.



Marginal and unprofitable areas

Convert low-profit areas out of row crop production to reduce time, effort, and inputs, and improve overall field profitability.

What to Expect After Seeding Prairie Vegetation



- Prairie seedlings will be small and patchy, with grasses appearing first. Growth is primarily underground to establish extensive root systems.
- Mow three or four times when vegetation is kneehigh, to a height of 4 to 8 inches, to reduce weed competition.







- More prairie species will be visible as root systems become more established and outcompete weeds.
- Mow two or three times, when regeneration is knee-high.
- Spot spray with herbicide using targeted sprayer technology or hand-held systems, being mindful of herbicide drift.









- Area will begin to look like a cohesive prairie planting.
- Conduct a prescribed burn in the spring or fall when the vegetation is dormant to help establish forbs and grasses and reduce weed competition.
- Control weedy or brushy areas if needed with spot mowing or physical removal.
- Spot spray with herbicide to control perennial weeds like Canadian thistle.











- Grasses and forbs will be established well enough to begin flowering.
- One or two prescribed burns in the dormant season will help to control weeds and further establish forbs.
- One mid-summer (July 15-Aug. 31) haying can help control brush and provide livestock feedstock or bedding. Vegetation will have time to regrow for overwintering wildlife habitat.









- Perennial prairie vegetation is fully established, with many tall grasses and flowering forbs.
- Prescribed burning or mowing every other year helps to control trees, brush, and weeds, and stimulates growth of the native grasses and forbs.
- Vegetation increases in diversity with time and height.







What Prairie Plants are Growing?

Free Online Plant ID Resources:

- Seedling ID Guide for Native Prairie Plants (USDA-NRCS)
- Prairie Plants of Iowa (University of Iowa Press and University of Iowa Libraries)

CONSERVATION

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