

✓ Nitrogen Options

Get the most from each pound of nitrogen!

✓ Account for all nitrogen (N) sources

- Nitrogen in these materials contributes to the total crop N needs:
 - Manure
 - "Weed and Feed" N
 - N in mixed fertilizers (such as MAP and DAP)
 - Starter fertilizer N
 - Biosolids and N-containing by-products
- Crop rotation effects (see table below)

✓ Suggested N rates for corn production*

	lb N/acre
After established alfalfa	0–30
2nd year corn after alfalfa	0–60
After corn	150–200
After soybean (no manure)	100–150

* A specific N rate within a rotation should be based on local conditions and information.

Adapted from Table 1 in PM 1714, Nitrogen Fertilizer Recommendations for Corn in Iowa.

For more information, see the following ISU Extension resources:

PM 1584, Cornstalk Testing to Evaluate Nitrogen Management
PM 1688, General Guide for Crop Nutrient Recommendations in Iowa
PM 1714, Nitrogen Fertilizer Recommendations for Corn in Iowa
PM 1811, Managing Manure Nutrients for Crop Production
Nitrogen & Phosphorus Knowledge:
<http://extension.agron.iastate.edu/NPKnowledge/>

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✓ Evaluation

- **Crop productivity:** Be realistic about yields for your soil, location, climatic conditions, and crop history.
- **Late spring soil nitrate test and fall cornstalk nitrate test:** Evaluate your soil nitrate and fall cornstalk nitrate test data.
- **Visual in-season rating:** Evaluate your corn crop N status during the growing season.

✓ Management keys

- Work with your fertilizer dealer to develop a main plan and contingency plans.
- Use proven N management practices appropriate for your cropping system, soil resources, and available N sources.
 - Avoid volatile losses by injecting or incorporating manure, urea, and UAN solutions.
 - Split or sidedress applications may reduce N losses and improve crop use of N.
- Rotate crops.
- Adopt proven practices for effective pest management, crop management, and soil conservation.
- Maintain optimal phosphorus, potassium, and soil pH levels.
- Calibrate equipment and make accurate applications.

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