## Nitrogen Fertilizer Guidelines for Wheat

**SOIL GROUP**

<table>
<thead>
<tr>
<th>Soil Group</th>
<th>Previous Crop</th>
<th>PPNT (lb NO\textsubscript{3} - N/acre)*</th>
<th>(0.050)</th>
<th>(0.075)</th>
<th>(0.100)</th>
<th>(0.125)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOAMY</td>
<td>Corn</td>
<td>≤ 50 or no PPNT</td>
<td>75</td>
<td>70</td>
<td>60</td>
<td>55</td>
</tr>
<tr>
<td></td>
<td></td>
<td>51–100</td>
<td>45</td>
<td>40</td>
<td>35</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; 100</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Soybean, small grain</td>
<td>All PPNT results or no PPNT</td>
<td>55</td>
<td>50</td>
<td>45</td>
<td>40</td>
</tr>
<tr>
<td>SANDY</td>
<td>All crops</td>
<td>PPNT is not recommended on sandy (sand and loamy sand) soils.</td>
<td>105</td>
<td>100</td>
<td>90</td>
<td>85</td>
</tr>
</tbody>
</table>

* The preplant nitrate test (PPNT) measures residual nitrate-nitrogen (NO\textsubscript{3} - N) in the crop root zone.

On loamy soils with less than 2% organic matter, add 30 lb N/acre to all rates.

On loamy soils with greater than 10% organic matter, reduce rates by 30 lb N/acre.

See other side for ADDITIONAL GUIDELINES.

PPNT ≤ 50 lb N/a, use the top end of the range.

PPNT 51–100 lb N/a, use the bottom end of the range.

PPNT > 100 lb N/a, do not apply additional nitrogen.

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University of Wisconsin

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(to determine which ratio to use, use lookup table on other side of card)
The University of Wisconsin Nitrogen Fertilizer Guidelines for Wheat allows growers to determine nitrogen application rates that provide maximum economic return based on the cost of nitrogen and an anticipated wheat price. By first determining the ratio in the LOOKUP TABLE on right, then using the corresponding column in the table on other side of card along with the field’s soil group and previous crop, a profitable N rate range is identified; rates can be further refined to within $1/acre of the maximum return rate by consulting the guidelines below and those on the other side of the card. For wheat following corn on loamy soils, results from the preplant soil nitrate test (PPNT) can also help refine nitrogen rates. To learn more, see University of Wisconsin-Madison, Division of Extension publication A2809 Nutrient Application Guidelines for Field, Vegetable, and Fruit Crops in Wisconsin.

ADDITIONAL GUIDELINES (SEE OTHER SIDE FOR MORE GUIDELINES):

- When wheat follows a forage legume or leguminous vegetable, use the N rate for wheat following corn with a PPNT less than or equal to 50 lb N/a and take the legume credit.
- Manure N credits must be subtracted from the N rates.
- No N is required on organic soils.
- If 100% of the N will come from organic sources, use the top end of the range.
- Reduce N rates by 10 lb N/a for spring wheat on all soils.

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