Peaks &
Valleys
Peaks & Valleys
How much N did lose?

Oct 12 – May 13 = 25.09"
### Soil Analysis

<table>
<thead>
<tr>
<th>Nitrate (NO₃-N)</th>
<th>PPM</th>
<th>lbs/acre</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>14</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>pH</th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td></td>
<td>6.8</td>
<td></td>
</tr>
</tbody>
</table>

**Farmer:** Greg Sauder  
**Sample Number:** 17  
**Sample Depth:** 12 in  
**Sample Core Length:** in

**Farm:** Townline Farms  
**Latitude:**  
**Longitude:**  
**Altitude:** 8 ft

**Field:** Rothers 6/22  
**Field Analysis:** Default Field Analysis

**Actions:**  
- Calc N-Need  
- Discard  
- Test Another Sample  
- Done for Day
Estimated Corn N-Need

1. Enter yield potential:
   220 bu/acre

   Your soil analysis nitrogen results:
   4 PPM
   Core Length 12 in

2. Select growth stage when the soil sample was taken

   V12
   Twelve leaves with collar visible
   At this stage, your crop has used 37% of its total nitrogen need.
   (How to Determine Growth Stages)

3. Enter your soil's organic matter:
   2.8 % organic matter

Results

Estimated additional: 107 lbs of N per acre

Does not account for future loss, previous crop, other N forms, and other factors that could affect N use. Factors such as environmental conditions, soil type, slope, etc. should be figured into your actual plan. This is not a recommendation, but a starting point as you determine your N plan. We recommend at least 12" zones.
High Zone
224.01 Bu/Ac

Low Zone
196.5 Bu/Ac
High Zone

Low Zone
WHY?
360 Y-DROP precisely places N within 2” to 3” of the stalk

The physiology of the corn plant funnels rain and dew to the base of a stalk

This unique structure “multiplies” rain and dew
STEM WATER INCORPORATES N. WHERE THE CROP NEEDS IT.

- It only takes 0.1” to 0.5” of moisture to incorporate N into the soil
- A 0.1” of rain = 0.5” at the base of the stalk (1/5 ratio)
- Heavy dews and rain incorporate N into the soil effectively after the crop canopies

Middle of the Row = Dry Dirt
PLACEMENT AFFECTS UTILIZATION
Coulter @ V4

360 Y-Drop @ V7
WIDEN THE WINDOW
<table>
<thead>
<tr>
<th>Application</th>
<th>Rate</th>
<th>Method</th>
<th>Stage</th>
</tr>
</thead>
<tbody>
<tr>
<td>NH3 Preplant</td>
<td>150#</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Planter</td>
<td>50#</td>
<td>w/Planter</td>
<td></td>
</tr>
<tr>
<td>@ V12</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NH3 Preplant</td>
<td>150#</td>
<td>w/Y-Drop</td>
<td></td>
</tr>
<tr>
<td>Planter</td>
<td>50#</td>
<td>w/Planter</td>
<td></td>
</tr>
<tr>
<td>@ V6</td>
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</tr>
<tr>
<td>NH3 Preplant</td>
<td>200#</td>
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<tr>
<td>Planter</td>
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THANK YOU

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BOTTOM UP STRATEGY FOR BETTER EFFICACY