**Soil Map**

State: Illinois  
County: Madison  
Location: 29-5N-7W  
Towship: Hamel  
Acres: 36.17  
Date: 7/20/2015

Soils data provided by USDA and NRCS.

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### Optimum Crop Productivity Ratings for Illinois Soil

<table>
<thead>
<tr>
<th>Code</th>
<th>Soil Description</th>
<th>Acres</th>
<th>Percent of field</th>
<th>II. State Productivity Index Legend</th>
<th>Subsoil rooting</th>
<th>Corn Bu/A</th>
<th>Soybeans Bu/A</th>
<th>Wheat Bu/A</th>
<th>Oats Bu/A</th>
<th>Sorghum Bu/A</th>
<th>Alfalfa hay, T/A</th>
<th>Grass-legume hay, T/A</th>
<th>Crop productivity index for optimum management</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>267B</strong></td>
<td>Caseyville silt loam, 2 to 5 percent slopes</td>
<td>16.27</td>
<td>45.0%</td>
<td>FAV</td>
<td><strong>169</strong></td>
<td><strong>51</strong></td>
<td><strong>64</strong></td>
<td>0</td>
<td><strong>123</strong></td>
<td>0.00</td>
<td><strong>5.22</strong></td>
<td><strong>125</strong></td>
<td></td>
</tr>
<tr>
<td><strong>477B</strong></td>
<td>Winfield silt loam, 2 to 5 percent slopes</td>
<td>10.91</td>
<td>30.2%</td>
<td>FAV</td>
<td><strong>160</strong></td>
<td><strong>50</strong></td>
<td><strong>62</strong></td>
<td>0</td>
<td><strong>122</strong></td>
<td><strong>4.97</strong></td>
<td>0.00</td>
<td><strong>118</strong></td>
<td></td>
</tr>
<tr>
<td><strong>477C3</strong></td>
<td>Winfield silty clay loam, 5 to 10 percent slopes, severely eroded</td>
<td>5.88</td>
<td>16.3%</td>
<td>FAV</td>
<td><strong>139</strong></td>
<td><strong>43</strong></td>
<td><strong>54</strong></td>
<td>0</td>
<td><strong>106</strong></td>
<td><strong>4.32</strong></td>
<td>0.00</td>
<td><strong>102</strong></td>
<td></td>
</tr>
<tr>
<td>267A</td>
<td>Caseyville silt loam, 0 to 2 percent slopes</td>
<td>2.16</td>
<td>6.0%</td>
<td>FAV</td>
<td>171</td>
<td>52</td>
<td>65</td>
<td>0</td>
<td>124</td>
<td>0.00</td>
<td>5.27</td>
<td>126</td>
<td></td>
</tr>
<tr>
<td><strong>79D2</strong></td>
<td>Menfro silt loam, 10 to 18 percent slopes, eroded</td>
<td>0.95</td>
<td>2.6%</td>
<td>FAV</td>
<td><strong>147</strong></td>
<td><strong>45</strong></td>
<td><strong>56</strong></td>
<td>0</td>
<td><strong>109</strong></td>
<td><strong>4.35</strong></td>
<td>0.00</td>
<td><strong>107</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Weighted Average**: 160.9 49.3 61.6 *- 119.6 2.32 2.66 118.7

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**Table: Optimum Crop Productivity Ratings for Illinois Soil by K.R. Olson and J.M. Lang, Office of Research, ACES, University of Illinois at Champaign-Urbana.**

- **Version**: 1/2/2012 Amended Table S2 BB11 (Updated 1/10/2012)
- Crop yields and productivity indices for optimum management (B811) are maintained at the following NRES web site: https://www.ideals.illinois.edu/handle/2142/1027/
- **Indexes adjusted for slope and erosion according to Bulletin 811 Table S3**
- **a**: UNF = unfavorable; FAV = favorable  
- **b**: Soils in the southern region were not rated for oats and are shown with a zero "0".  
- **c**: Soils in the northern region or in both regions were not rated for grain sorghum and are shown with a zero "0".  
- **d**: Soils in the poorly drained group were not rated for alfalfa and are shown with a zero "0".  
- **e**: Soils in the well drained group were not rated for grass-legume and are shown with a zero "0".

Soils data provided by USDA and NRCS. Soils data provided by University of Illinois at Champaign-Urbana.

*c:* Using Capabilities Class Dominant Condition Aggregation Method