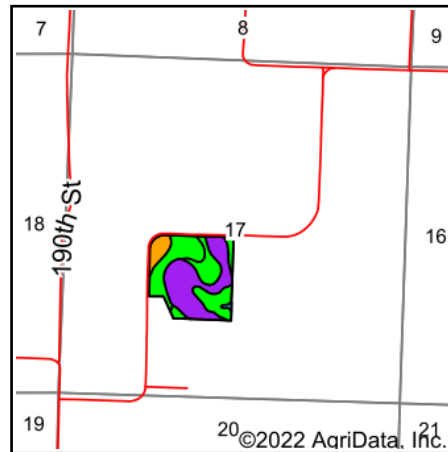
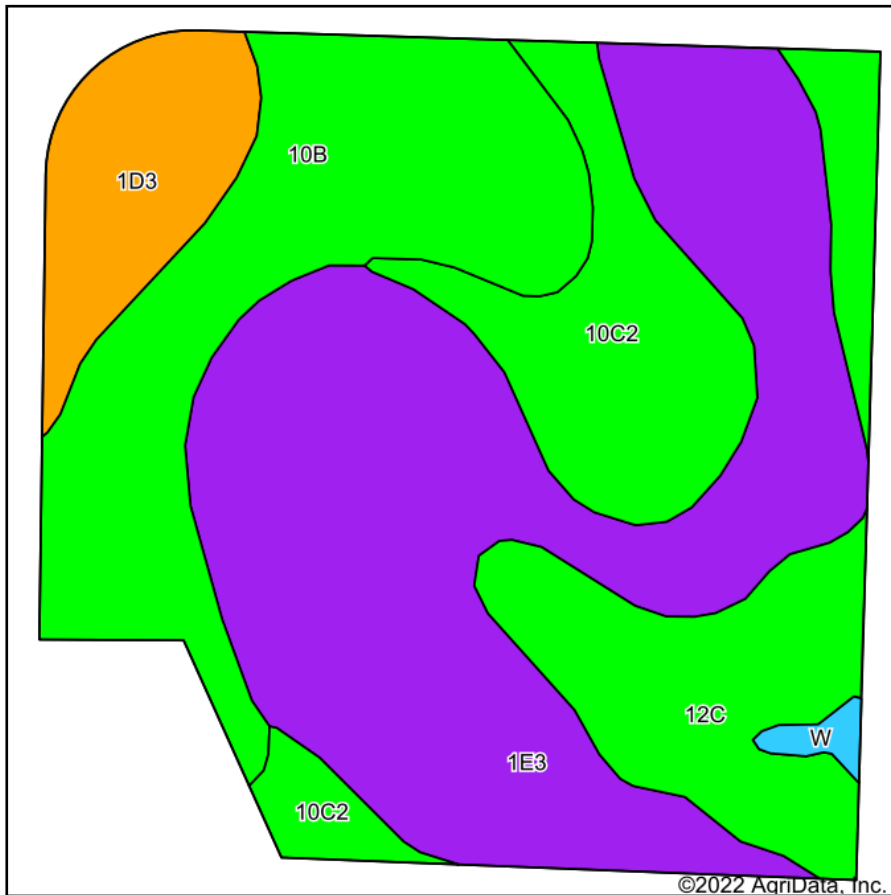


# Soils Map



State: **Iowa**  
 County: **Pottawattamie**  
 Location: **17-77N-43W**  
 Township: **Boomer**  
 Acres: **35.33**  
 Date: **8/18/2022**

Maps Provided By:  
  
 CUSTOMIZED ONLINE MAPPING  
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Soils data provided by USDA and NRCS.

Area Symbol: IA155, Soil Area Version: 27

Code	Soil Description	Acres	Percent of field	CSR2 Legend	Non-Irr Class *c	Irr Class *c	*i Corn Bu	*i Soybeans Bu	CSR2**	CSR	*n NCCPI Overall	*n NCCPI Corn	*n NCCPI Soybeans
1E3	Ida silt loam, 14 to 20 percent slopes, severely eroded	14.95	42.3%		IVe		97.6	28.3	18	30	59	59	56
10B	Monona silt loam, 2 to 5 percent slopes	7.74	21.9%		IIe	IIIe	232.0	67.3	95	80	90	90	90
12C	Napier silt loam, 5 to 9 percent slopes	5.10	14.4%		IIIe		214.4	62.2	89	62	87	86	87
10C2	Monona silt loam, 5 to 9 percent slopes, eroded	4.59	13.0%		IIIe		211.2	61.2	86	63	84	84	79
1D3	Ida silt loam, 9 to 14 percent slopes, severely eroded	2.73	7.7%		IIIe		126.4	36.7	32	40	63	63	61
W	Water	0.22	0.6%				0.0	0.0	0	0			
<b>Weighted Average</b>					*-	*-	<b>160.3</b>	<b>46.5</b>	<b>54.9</b>	<b>50.4</b>	<b>*n 73</b>	<b>*n 72.9</b>	<b>*n 70.9</b>

\*\*IA has updated the CSR values for each county to CSR2.

\*i Yield data provided by the ISPAID Database version 8.1.1 developed by IA State University.

\*n: The aggregation method is "Weighted Average using all components"

\*c: Using Capabilities Class Dominant Condition Aggregation Method

\*- Non Irr Class weighted average cannot be calculated on the current soils data due to missing data.

\*- Irr Class weighted average cannot be calculated on the current soils data due to missing data.

Soils data provided by USDA and NRCS.

## 2014 Iowa Woodland Suitability Recommendations

In 2005, the Iowa NRCS and Iowa DNR agreed to create new groupings of soils and revise the recommendations for tree and shrub species for those soil groups in Iowa. There were several reasons for this revision: there were errors in the previous recommendations; there were new soils identified and mapped; and both agencies wanted a user-friendly system for employees and the public to use.

The following tables are designed to serve as a guideline for matching trees and shrubs to specific soil types within Iowa. To use the guide:

1. Locate the soil type in Column 1 of Table 1;
2. Determine the Conservation Suitability Group (CSG) for the soil type; and
3. Go to the appropriate CSG in Table 2 and review the list of trees and shrubs that are best suited to the soils in that group. *Non-native species are marked with (nn). Species especially susceptible to insects and/or diseases are marked with (✖).*

This manual is intended as a guide only and is not intended to replace the judgment of a forester or of other natural resource professionals in determining a site's capability to grow specific tree and shrub species. Other factors such as slope, aspect and geographic location in the state should also be considered.

### Monona and Napier soils (10B, 10C2, 12C):

3 <b>Well Drained Moist Loamy</b>	<p>These deep medium textured soils are moderately well or well drained. These soils typically contain 18-35% clay in the series control section. They are typically neutral or slightly acidic and have high available water capacity.</p> <p>Suitability of this soil for:  <u>Upland Oaks = very high</u>  <u>Conifers = very high</u>  <u>Bottomland Hardwoods = very high</u></p> <p>SI = 76-85                  Production = 250-300 board feet/acre/year</p>	<p><u>Hardwoods</u> suitable for plantings consist of:</p> <ul style="list-style-type: none"> <li>• Black Oak</li> <li>• Bur Oak</li> <li>• Chinkapin Oak</li> <li>• Red Oak</li> <li>• Swamp White Oak</li> <li>• White Oak</li> <li>• Walnut</li> <li>• Pecan (consult forester)</li> <li>• Hackberry</li> <li>• Basswood</li> <li>• Kentucky Coffee Tree</li> <li>• Black Cherry</li> <li>• Shagbark Hickory</li> <li>• Hard Maple (Black, Sugar)</li> <li>• Silver Maple</li> <li>• Cottonwood</li> <li>• Hybrid Poplar (nn)</li> <li>• Butternut ✖</li> </ul>	<p><u>Conifers</u> suitable for plantings consist of:</p> <ul style="list-style-type: none"> <li>• E. Red Cedar</li> <li>• E. White Pine</li> <li>• Jack Pine (nn)</li> <li>• Red Pine (nn)</li> <li>• Norway Spruce (nn)</li> <li>• White Spruce (nn)</li> <li>• White/Concolor Fir (nn)</li> <li>• Arborvitae (N. White Cedar) (nn)</li> <li>• Serbian Spruce (nn)</li> <li>• Cannan Fir (nn)</li> <li>• European Larch (limited to middle row of 3 row conifer windbreak) (nn)</li> </ul>	<p><u>Shrubs</u> suitable for plantings consist of:</p> <ul style="list-style-type: none"> <li>• American Plum</li> <li>• Arrowwood</li> <li>• Buttonbush</li> <li>• Choke Cherry</li> <li>• Crabapple</li> <li>• Dogwood, Gray</li> <li>• Dogwood, Silky</li> <li>• Dogwood, Redosier</li> <li>• Elderberry</li> <li>• Hawthorn</li> <li>• Hazelnut</li> <li>• Highbush Cranberry</li> <li>• Nanking Cherry (nn)</li> <li>• Nannyberry</li> <li>• Ninebark</li> <li>• E. Redbud</li> <li>• Serviceberry</li> <li>• Viburnum spp.</li> <li>• Paw Paw</li> <li>• Blackhaw</li> <li>• Black Chokeberry (Aronia)</li> </ul>
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### Ida soils (1E3 and 1D3)

8 <b>Calcareous</b>	<p>These deep moderately well to well drained soils have a high concentration of calcium carbonate in the soil profile. They are moderately to strongly alkaline.</p>	<p><u>Hardwoods</u> suitable for plantings consist of:</p> <ul style="list-style-type: none"> <li>• Bur Oak</li> <li>• Red Oak</li> <li>• Chinkapin Oak</li> <li>• White Oak</li> <li>• Hackberry</li> <li>• Shagbark Hickory</li> <li>• Cottonwood</li> <li>• Hybrid Poplar (nn)</li> </ul>	<p><u>Conifers</u> suitable for plantings consist of:</p> <ul style="list-style-type: none"> <li>• E. Red Cedar</li> <li>• Jack Pine (nn)</li> </ul>	<p><u>Shrubs</u> suitable for plantings consist of:</p> <ul style="list-style-type: none"> <li>• American Plum</li> <li>• Dogwood, Gray</li> <li>• Nanking Cherry (nn)</li> <li>• Nannyberry</li> <li>• Ninebark</li> <li>• Blackhaw</li> <li>• Common Liliac</li> </ul>
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