

QUICK LOOK

Anyone can use the Quick Look feature, with or without uploading soil test data. From the Welcome Page of the Portal, Click on either the Quick Look Tab in the top menu bar or on the Quick Look Button at the bottom of the Welcome Page.

Soil Health Interpretation Portal

Welcome Background Information Maps **Quick Look** Sign Up Sign In

IOWA SOYBEAN Association
NRCS
IOWA CORN

Account Information
You are not currently signed in.

Field Selection
New Field

Help & Support
Report a Problem with this Page

This free portal is designed for Iowa farmers, agronomists and landowners to track, interpret and employ key soil health metrics for improved crop management. The tool is funded by the Iowa Soybean Association with support from an Iowa NRCS Conservation and Innovation Grant.

An account enables exploration of two different datasets of Iowa soil test results to explore the impact of tillage, manure and cover crops on soil health by Iowa physiographic subregion. One dataset contains select soil health metrics from the Haney protocol and the other contains select metrics from standard soil tests plus a site-specific soil health measure derived from organic matter, weather and soil.

The background data comes from research programs conducted by Iowa Soybean Association and Iowa Corn Growers. Farmers, agronomists and landowners who set up a free, private account will have full access to their own information and both exploratory interfaces since account data is integrated into the anonymized soil health background database.

For users with only standard soil test data, there is a "Quick Look" feature, also available for soil health test results, to obtain a one-time report and one-time access to the data exploration interface. Data may be donated, or users may exit the portal without it being saved.

Click the "Background Information" button below to learn more.

Background Information **Quick Look** Sign Up Sign In

This will open a Standard Data Quick Look Disclaimer box and beneath it a second menu bar. Read the Disclaimer and click the "Dismiss" button. This will enable you to select the type of soil test data you wish to upload from the second menu bar – standard soil test data, aka soil fertility test data, or soil health test data, which as you can see from the column headings on the previous page, are different than standard fertility soil test measures.

Standard Data Quick Look Disclaimer

Georeferenced information (i.e., X, Y or Long, Lat data columns) for each sample's lab result is required to provide a relative soil health measurement (see "the SHAPE score" under background information). Non-georeferenced data cannot be donated to the anonymous benchmark database.

Dismiss

Welcome Background Information Maps **Quick Look** Sign Up Sign In

Standard Data Soil Health Data

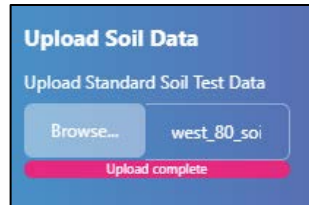
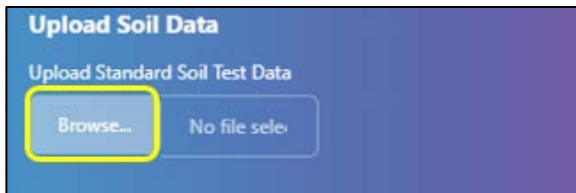
Standard Soil Test Comparison

Upload Soil Data

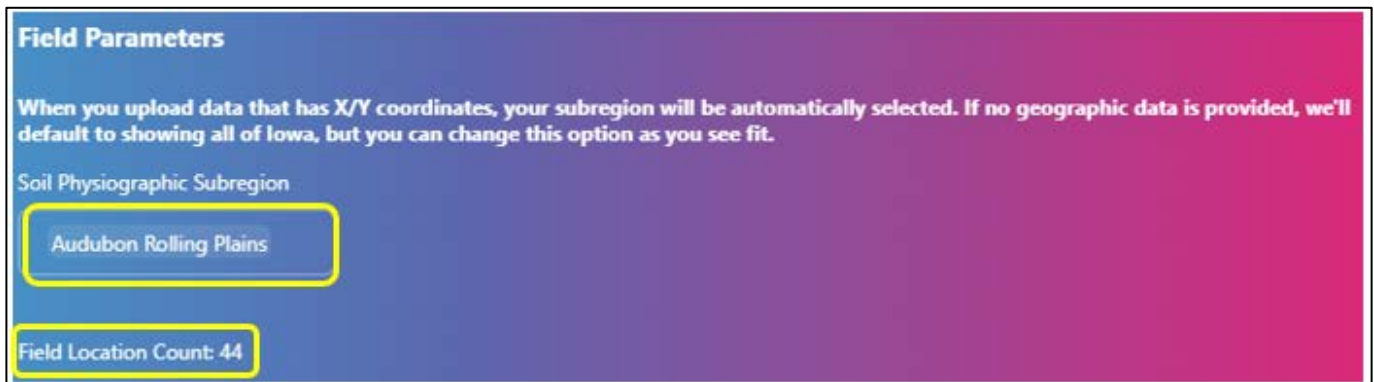
Upload Standard Soil Test Data

Browse... No file selei

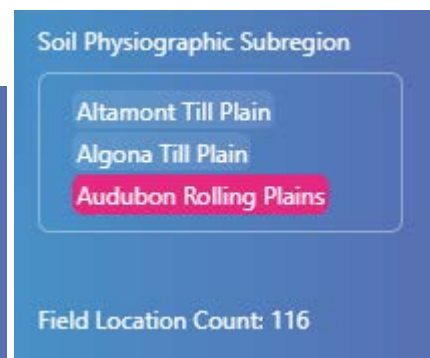
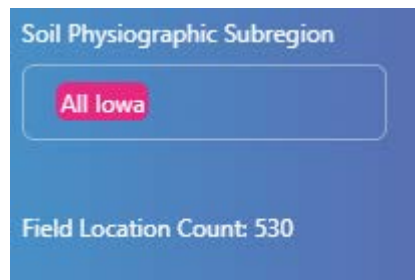
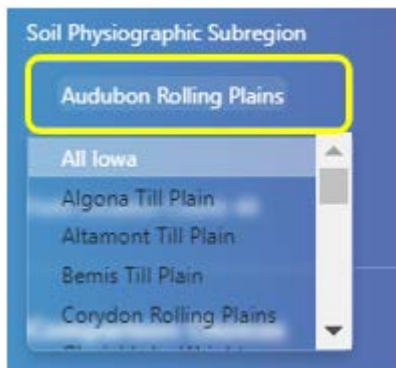
Now you may browse to your file of lab results for the Portal to temporarily upload. The Portal will notify you when the data is uploaded and partially show the file name.



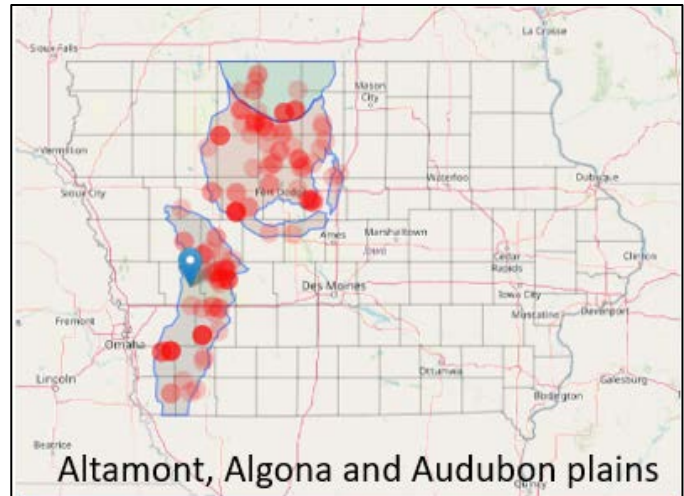
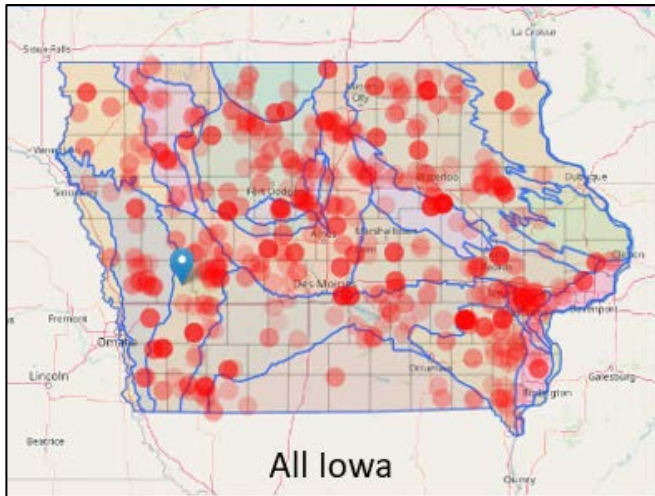
Spatially referenced data will automatically identify the associated Physiographic Subregion and will summarize and present data for that subset of the background including the count of fields in the dataset.



Non-spatially referenced data or no data upload will default to “All Iowa”. All Iowa or any other individual subregion may be added to the selection of data to be visualized on the map and in the summarizations. Click on the box listing the subregion currently selected and add to it or delete from it.



Below the **Field Parameters** are **Comparison Choices** related to three management categories that can affect soil health, Manure Status, Tillage Type and Use of Cover Crops. The Portal defaults to showing all the available options, but viewers may deselect categories to observe changes in results. **The Comparison Map** below the **Comparison Choices** also reflects field locations with the selected management categories within the subregions chosen.



The Standard Benchmark database includes a large dataset from 2011 where farmers were asked to soil sample in both a good area and a poor area of their field so results could be compared. We have no cover crop information for these fields, so **to exclude 2011 from your query results, simply uncheck "Cover Crop Status Unknown"**

Field Location Count: 44

Comparison Choices

When comparing your results with results from our Standard Health Database, you can select and de-select a variety of Manure, Till, and Cover Crop options below.

<p>Select Options</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Manured Fields <input checked="" type="checkbox"/> Non-Manured Fields <input checked="" type="checkbox"/> Manure Status Unknown 	<p>Select Options</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> No Till Fields <input checked="" type="checkbox"/> Vertical/Strip Tilled <input checked="" type="checkbox"/> Conventional Tilled <input checked="" type="checkbox"/> Tillage Status Unknown 	<p>Select Options</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Fields with Cover Crops <input checked="" type="checkbox"/> Fields with No Cover Crops <input checked="" type="checkbox"/> Cover Crop Status Unknown
---	--	--

Field Location Count: 4

Comparison Choices

When comparing your results with results from our Standard Health Database, you can select and de-select a variety of Manure, Till, and Cover Crop options below.

<p>Select Options</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Manured Fields <input checked="" type="checkbox"/> Non-Manured Fields <input checked="" type="checkbox"/> Manure Status Unknown 	<p>Select Options</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> No Till Fields <input checked="" type="checkbox"/> Vertical/Strip Tilled <input checked="" type="checkbox"/> Conventional Tilled <input checked="" type="checkbox"/> Tillage Status Unknown 	<p>Select Options</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Fields with Cover Crops <input checked="" type="checkbox"/> Fields with No Cover Crops <input type="checkbox"/> Cover Crop Status Unknown
---	--	---

Below the Comparison Map any uploaded test results will appear. If geographic coordinates and Organic Matter values were present in the data, The SOC and SHAPE scores will appear.

Your Soil Health Test Results

When you upload your Soil Health Test Data, your results will display below.

ID	Organic C	Organic N	Organic CN	CO2C_Burst	MAC%	SH_Calc	SOC	SHAPE SOC
1	247.37	17.83	13.87	71.03	28.72	13.83	2.62	0.56%
2	91.49	9.28	9.86	211.14	230.78	17.84	2.73	0.61%
3	106.82	9.47	11.28	91.35	85.52	12.22	2.38	0.47%
4	190.02	13.69	13.88	60.45	31.81	11.21	2.09	0.34%
5	141.19	11.75	12.02	44.49	31.51	8.45	2.03	0.32%
6	152.22	12.17	12.51	57.73	37.93	10.03	2.27	0.42%
7	130.72	12.60	10.37	61.31	46.90	10.01	2.33	0.44%
8	168.68	16.53	10.20	39.80	23.59	9.01	2.27	0.42%

Below the data that was read into the Portal will appear Averages for the benchmark background and averages by subregion(s).

Averages for Benchmark Background

Organic C	Organic N	Organic CN	CO2C_Burst	MAC%	SH_Calc	SOC	SHAPE SOC
210.45	16.34	12.81	77.02	36.74	11.39	2.1	0.40%

Subregion SOC Scores

Subregion	SOC	SHAPE SOC
Audubon Rolling Plains	1.88	0.32%
Bemis Till Plain	1.88	0.59%
Glacial Lake Wright	2.78	0.55%
Grundy Center Rolling Plains	2.1	0.41%
Illinoian Till Plain	2.41	0.46%
Iowa-Cedar River Lowland	2.49	0.71%
Iowan Erosion Surface	2.7	0.57%
Orange City Plains	2.81	0.62%
Paleozoic Plateau	1.73	0.33%
Tama Rolling Plains	2.2	0.50%

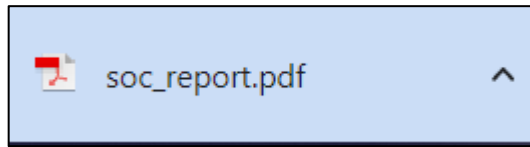
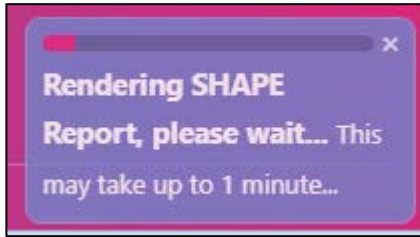
At the bottom of the Quick Look page is a button enabling those who uploaded georeferenced data the opportunity to generate a report. A progress bar will appear when the generate report button is clicked.

Report Generation & Data Donation

Your Standard Soil Data contains X/Y coordinates. If you would like to generate a SHAPE SOC Report or donate your data, click the button(s) below:

 Generate SHAPE SOC Report

Donate Standard Soil Data



Sample reports are available to view under the Background Information Tab in the second menu bar from the Tab labeled "Sample Reports".

NOTE: To donate your data, you will need to know the name of the lab where samples were processed, the month and year your samples were collected, the maximum depth of samples in inches (0-6" would simply be 6"), crop of sample crop year and crop of year prior to sample crop year. You will also be asked to select from these 3 general field management practices cover crop or no cover crop, manure or no manure, conventional till, strip or vertical till, or no-till. Donated data is sequestered at first to verify that metric units are compatible with the background dataset. We automatically receive a notification when donations are made. Thank you for your donation!