

Editor – Advanced Yield Editing

General

Editing yield is an import step to ensure data quality. It can remove outliers, correct moisture issues, shift data points to their actual locations, and make other important adjustments. This document will walk through and explain each tool within the editor. Please see the document on Yield Editing Basics for general instruction on the use of the Editor.

Definitions of Editor Tools

Yield

Min = Removes all points below the value set

Max = Removes all points above the value set

Std Dev = Removes all points that deviate from its nearest neighbors by the value set

Avg = Allows for post calibration by moving all values up or down to match the new average provided

Delay

Moisture = Adjust the time delay from header to moisture meter

Flow = Adjust the time delay from header to flow meter

Moisture

Apply Drying Calc = Removes water weight for moisture readings above the market value of current crop

Final Moisture % = Allows one to set a new market value moisture (If blank the crop default will be used)

Apply Expansion Calc = Adds water weight for moisture reading below the market value of current crop

Machine

Min Speed = Removes all points where machine speed is below value set

Max Speed = Removes all points where machine speed is above value set

Header Down = Toggle to include or exclude points based on header position

Turn Row = Toggle to include or exclude points collected on the turn row

GPS Drift = Toggle to modify the position of points that fall significantly outside the path of its neighbors

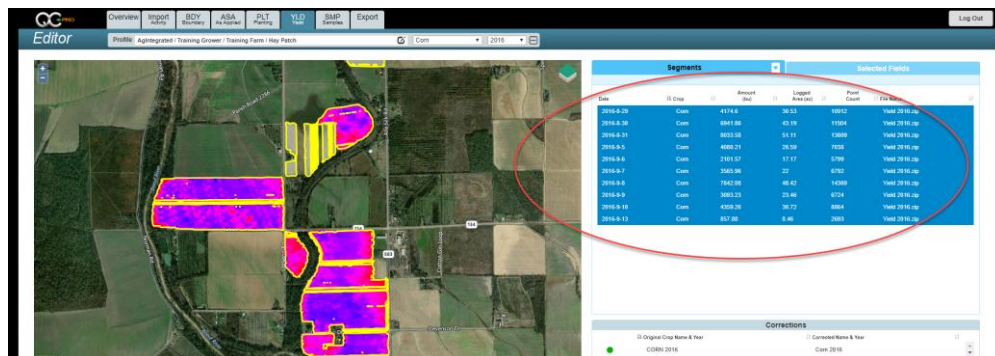
Advanced Adjustments

Implement Width = Set or change the width of the header

GPS Offset = Set or Change the position of the GPS relative to the header

Detailed Walkthrough with Screenshots

After loading yield into the Yield Tab, the list of segments will populate the Segments window and the selected fields will load into the Selected Fields window. By default, all the Yield Segments that match your Selected Profile, Crop, and Crop Year will be marked for editing in the Yield Segment Selection window. You can edit one, a group, or all the yield segments at once.



Editor – Advanced Yield Editing

NOTE: If you plan on post calibrating, be sure to only select segments that match your correction data. For example, if you have the grand total pounds or bushels/acre of corn for a grower, you can select all the corn yield segments to post calibrate at once, but if you have the total pounds or bushels/acre for each field, you will want to post calibrate yield at the field level.

With your yield segment selections made, begin setting values in the Yield Editor window.

The screenshot shows the Onsite Editor interface. The top navigation bar includes tabs: Overview, Import, Body, ASA, PLT, YLD, SMP, and Export. The main map area displays a satellite view of agricultural fields with several segments highlighted in yellow and purple. A histogram titled 'Histogram - Rate (bu/ac)' is visible at the bottom left. The right-hand panel contains a table of segments, a Corrections section, and a Yield Editor section. The Yield Editor section is circled in red and includes fields for Yield (Min, Max, Std Dev), Delay (sec), Moisture (Apply Dry Calc, Final Moisture, Expansion Calc), Machine (Min Speed, Max Speed, Header Down, Turn Row, GPS Drift), and Advanced Adjustments (Implement Width, GPS Offset X, Y). Buttons for Apply, Save, and Save and Publish are located at the bottom right of the Yield Editor section.

Each Yield Editor parameter is used to filter or modify points inside the yield segments. For example, the Min filters out all points below the value set, while the Max removes all points above the value set. The UOM for each value is determined by the crop. Most grains will be in Bu/Acre while cotton and other crops will be in Lbs/Acre.

Yield Editor
Template Tools ▼

Yield

Min

Max

Std Dev.

Delay (sec)

Moisture

Flow

Post Calibration

Avg ☒

Amount: bu/ac

Moisture

Apply Dry Calc ☐

Final Moisture: bu/ac

Expansion Calc ☐

Machine

Min Speed

Max Speed

Header Down ☐

Turn Row ☐

GPS Drift ☐

Advanced Adjustments ☐

Implement Width

GPS Offset X Y

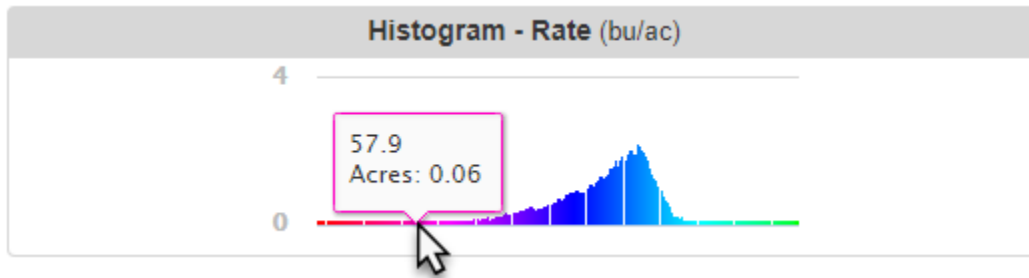
Clip and Save to Field Boundary ☒

Apply Save

Save and Publish

Editor – Advanced Yield Editing

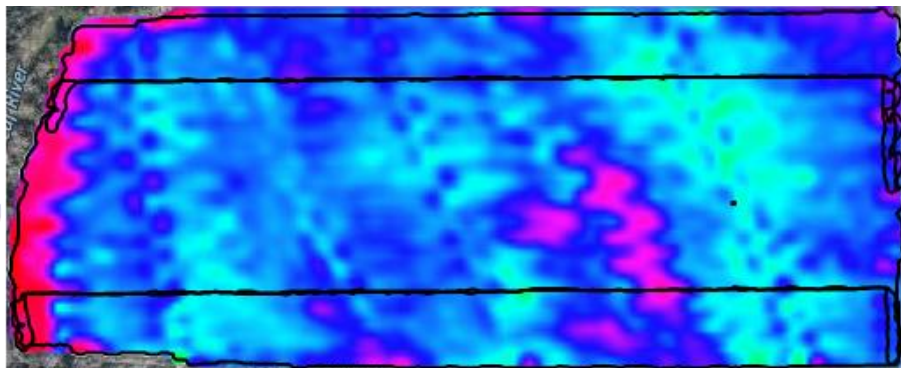
The Histogram is great for determining the Min and Max settings. Hover anywhere to the left or right of the bell curve to determine the correct value to use.



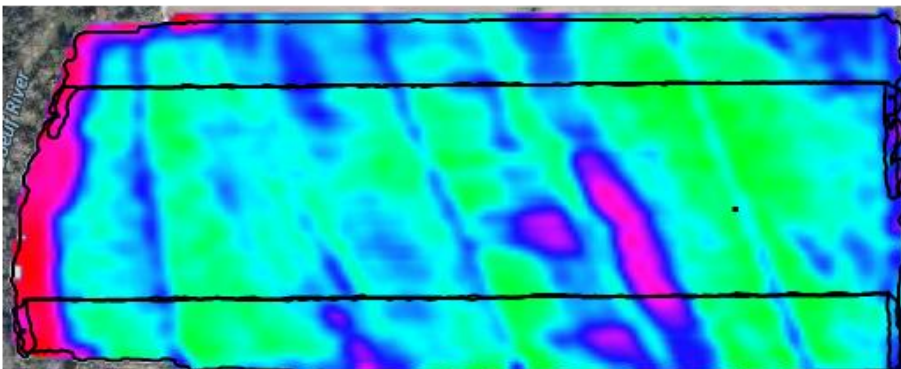
With the desired parameters entered, click apply.

The "Yield Editor" form contains several sections for configuring yield data. The "Yield" section includes fields for Min (40), Max (240), and Std Dev (50). The "Delay (sec)" section has a field for Delay (sec). The "Moisture" section includes fields for Moisture, Flow (14), and Final Moisture (bu/ac), along with checkboxes for "Apply Dry Calc" and "Expansion Calc". The "Machine" section includes fields for Min Speed (1) and Max Speed (10), and checkboxes for "Header Down", "Turn Row", and "GPS Drift". The "Post Calibration" section has a radio button for "Avg" and a field for "Amount" (bu/ac). The "Advanced Adjustments" section has a checkbox and fields for "Implement Width" (0) and "GPS Offset" (X and Y). The "Clip and Save to Field Boundary" checkbox is checked. The "Apply" button is circled in red, and the "Save and Publish" button is also visible.

Before Editing



After Editing



Editor – Advanced Yield Editing

When happy with the changes being made, one can click Save or Save and Publish. Saving and Publishing will create a new cleaned dataset, removing all the points matching the criteria and send the cleaned copy to the predesignated storage or FMIS. The original raw data is never affected by editing.

The screenshot shows the 'Yield Editor' interface with a yellow header. The 'Template Tools' dropdown is in the top right. The interface is divided into four main sections: Yield, Delay (sec), Moisture, and Machine. The Yield section has input fields for Min (40), Max (240), and Std Dev (50). The Delay section has a Moisture input field and a Flow input field (14). The Moisture section has checkboxes for 'Apply Dry Calc' (checked), 'Final Moisture' (empty), and 'Expansion Calc' (unchecked). The Machine section has input fields for Min Speed (1) and Max Speed (10), and checkboxes for 'Header Down' (checked), 'Turn Row' (checked), and 'GPS Drift' (checked). There is a 'Post Calibration' section with 'Avg' (selected) and 'Amount' (empty) bu/ac. An 'Advanced Adjustments' checkbox is also present. At the bottom, there is a 'Clip and Save to Field Boundary' checkbox and a 'GPS Offset' section with 'X' and 'Y' input fields. The 'Implement Width' is set to 0. The 'Save' and 'Save and Publish' buttons are highlighted with red circles.

For any given set of parameters, a template can be created. Each template applies to a Crop and Crop Year. Applying a template will automatically populate the appropriate fields with the saved values. All template options are housed under Template Tools. Using the Set as Default option will always automatically apply the current values each time the user loads the same crop.

This screenshot shows the same 'Yield Editor' interface, but with the 'Template Tools' dropdown menu open. The menu options are 'Load Template', 'Save as Template', 'Set as Default', and 'Template Manager'. The 'Save' and 'Save and Publish' buttons are also visible at the bottom right.