

FarmTRX™ Maps Guide

This guide provides an overview of the Maps tab within the FarmTRX Web App. It will detail the process of viewing farm fields and all associated yield maps, as well as exporting yield data and maps.

To view your farm fields and yield maps, ensure you have selected the “Maps” tab at the top of the screen.

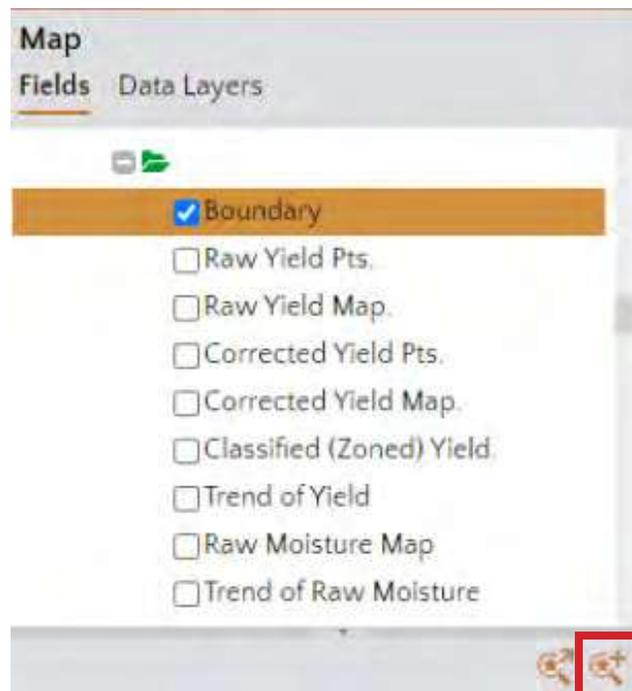


The left side of the screen will display all farm fields, categorized by year and season. Open the folder for the correct year and season that you are harvesting by clicking the grey plus icon or double clicking on the year and season. This will display a list of created fields. If no fields appear, new fields will need to be created using the Field Editor tool. Once created, a corresponding folder will automatically appear in the Fields list.

Once field data has been uploaded to the Web App, the resulting yield maps will be found within each field's folder.

If your data is not appearing, check to make sure you have a crop type set for that field in the Field Editor tab.

To view a field boundary or yield map on the map, select the check box beside its name. To zoom in on a map or boundary, double click on its name or select the “Zoom to Field” icon.



The following map layers are available to view:

- **Boundary:** The Boundary marks the extent of your field. All recorded yield and moisture data from FarmTRX is sorted into the field boundary upon upload. Boundaries are drawn by the farmer using the Field Editor tool and can be customized at any time. If factors like surface water or tree clearing impact the area harvested one year, users can change their field boundary to reflect accordingly.

FarmTRX Field Editor Maps Reports Admin Support

Map
Fields Data Layers

- Boundary
- Raw Yield Pts.
- Raw Yield Map
- Corrected Yield Pts.
- Corrected Yield Map
- Classified (Zoned) Yield
- Trend of Yield
- Raw Moisture Map
- Trend of Raw Moisture

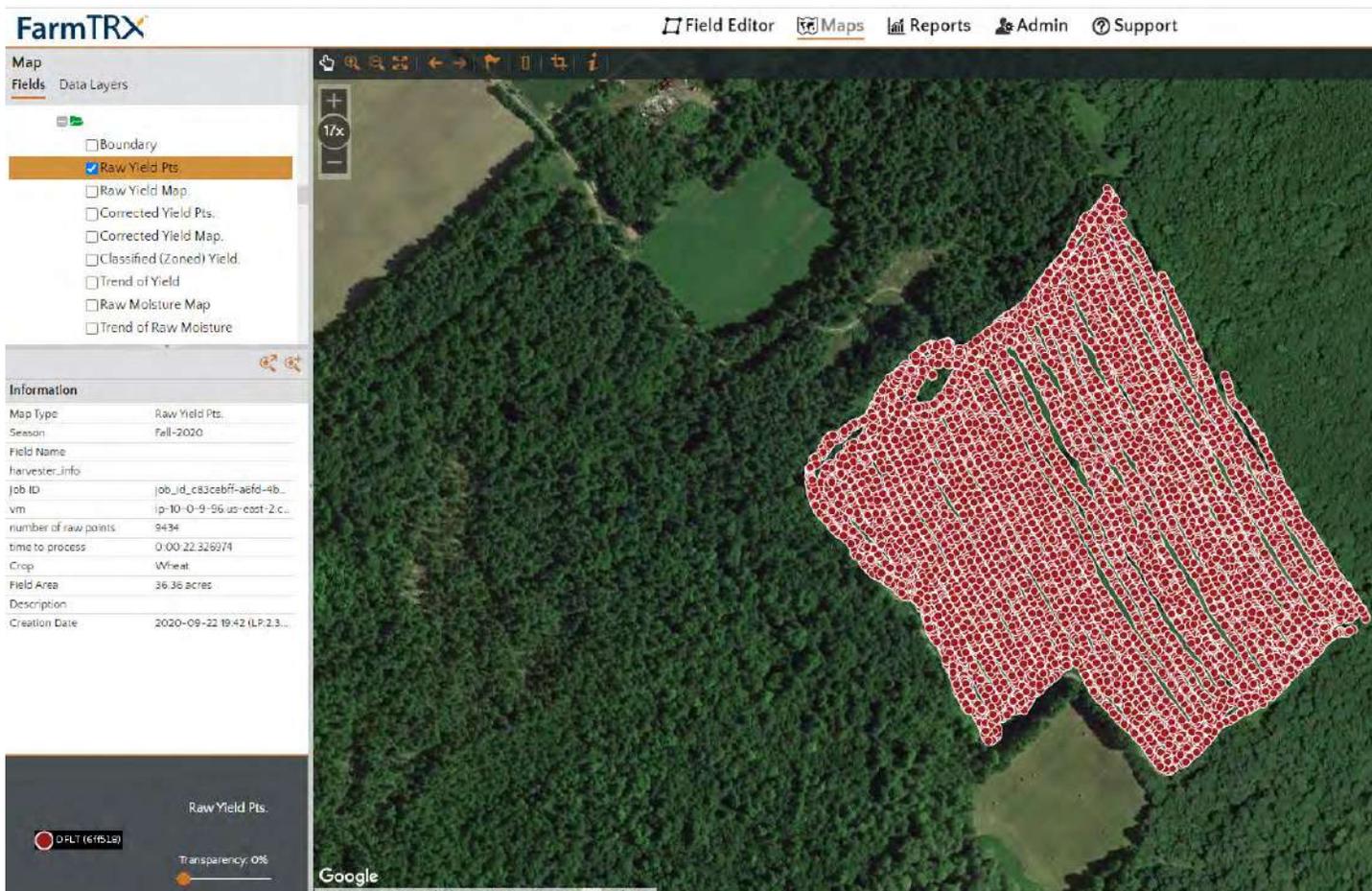
Information

Map Type	Boundary
Season	Fall-2020
Field Name	
Job ID	job_id_cb3ce0ff-aefd-4b...
vm	lp-10-0-9-96-us-east-2.c...
time to process	0:00:05.097329
Crop	Wheat
Field Area	36.36 acres
Description	
Creation Date	2020-09-22 18:42 (LP 2.3...

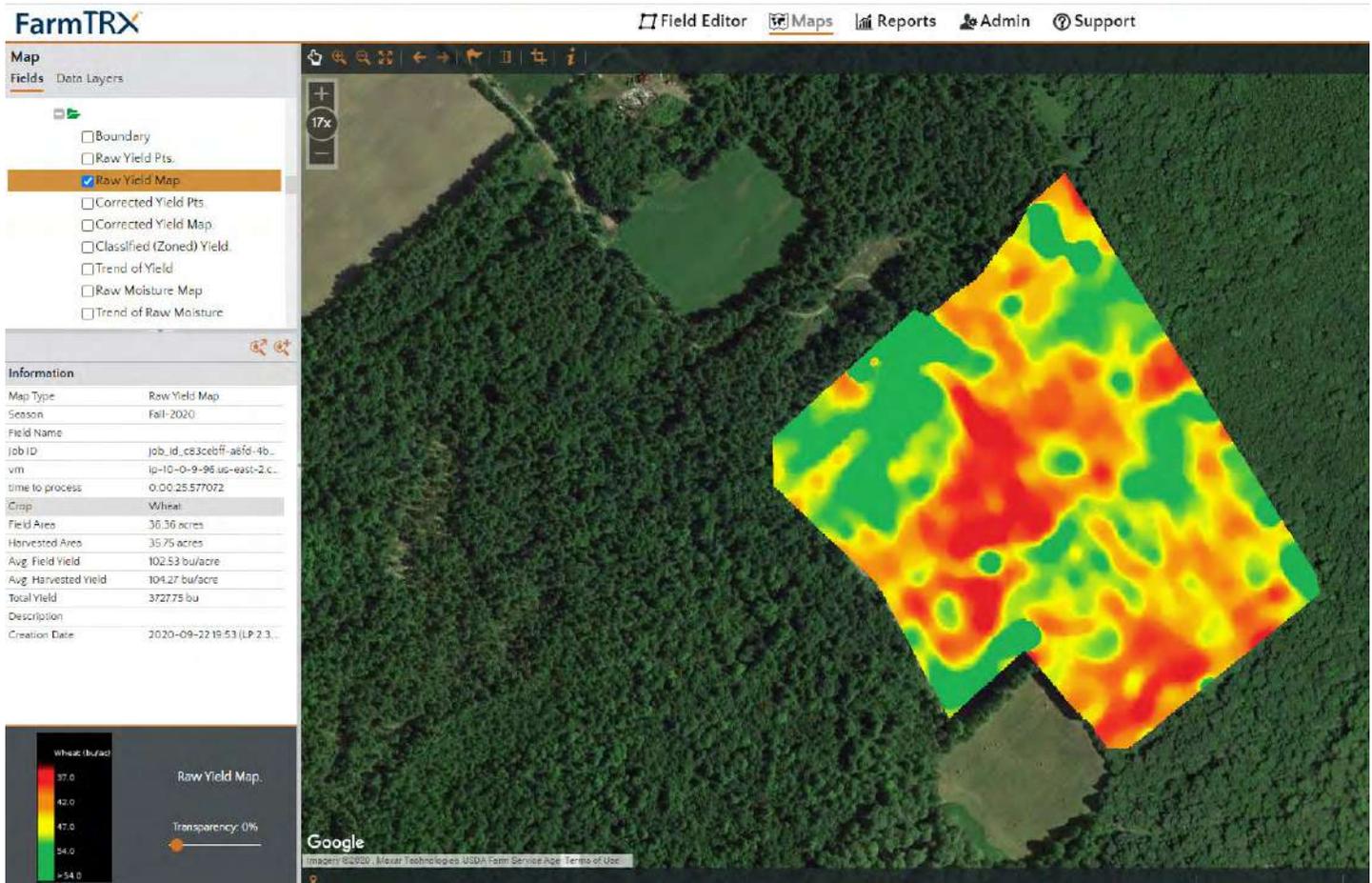
Boundary
Transparency: 0%

Google
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- Raw Yield Pts: The Raw Yield Points display shows every point the yield monitor collected while combining, with a new point created every two seconds. Different point colours represent different harvesters equipped with a FarmTRX Yield Monitor. In this view, the raw yield points have yet to be corrected by the FarmTRX data processor so users can see a record of any potential miscalibrations, incorrect crop inputs, headland turns, transits to unload or partial rows



- **Raw Yield Map:** The Raw Yield Map is the interpolation of your raw, unfiltered yield data values. Any miscalibrations or incorrect values input before harvest will still be visible here. Areas where false yields were recorded, like if the combine slowed significantly, picked up a swathed “clump”, or turned will be visible in this map.



- Corrected Yield Pts: The Corrected Yield Points displays the data points generated by the FarmTRX Yield Monitor during harvest. However, compared to the raw yield points, all visible yield data points have gone through FarmTRX's data analysis process to be cleaned and corrected. FarmTRX automatically detects and adjusts anomalous points, performs multi-combine calibration, removes headland turns, modifies partial rows, identifies changes in calibration from day to day, and makes several other checks and corrections to produce a final, accurate collection of yield points.

FarmTRX Field Editor Maps Reports Admin Support

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- Classified (Zoned) Yield
- Trend of Yield
- Raw Moisture Map
- Trend of Raw Moisture

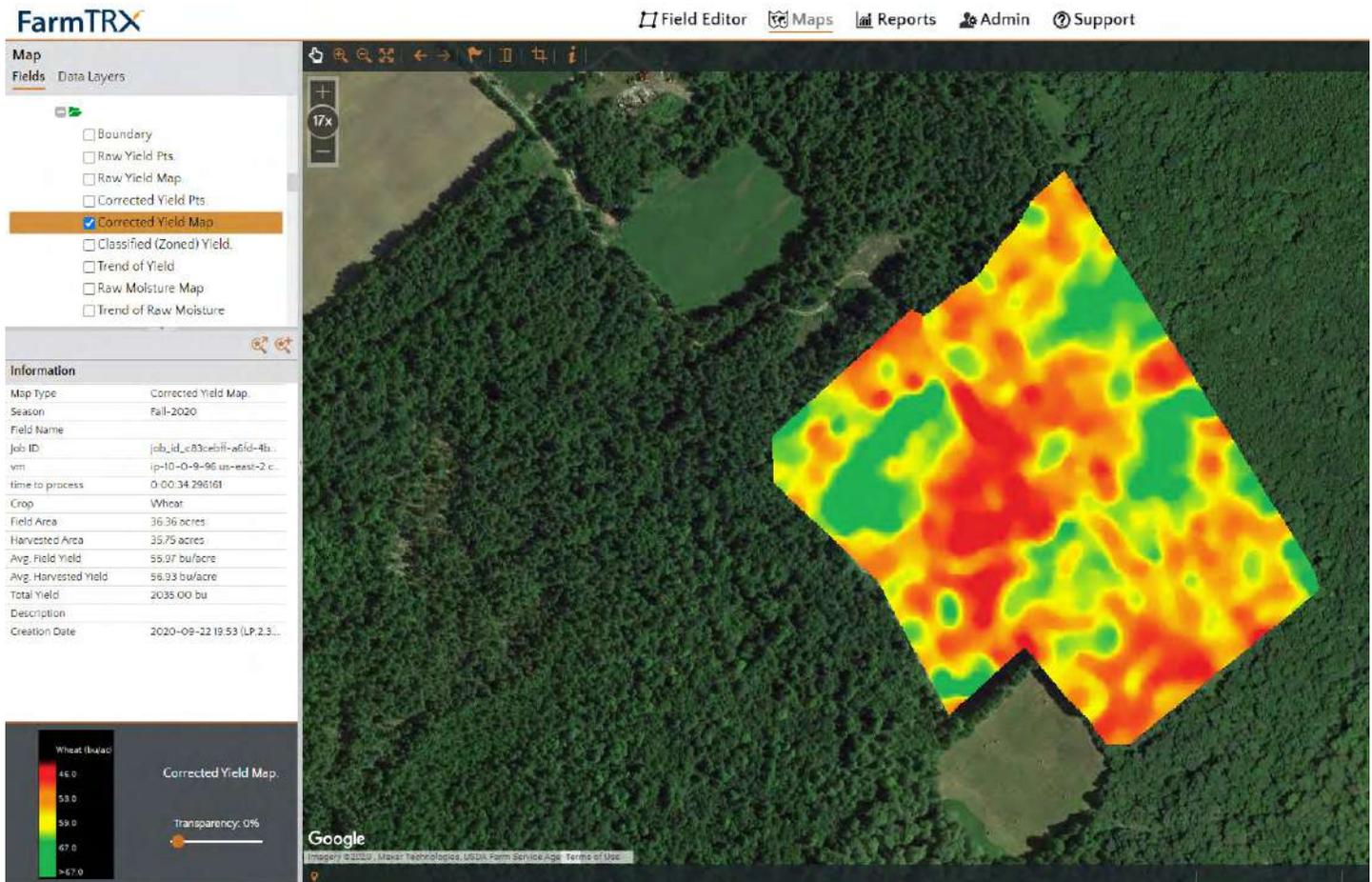
Information

Map Type	Corrected Yield Pts
Season	Fall-2020
Field Name	
Job ID	job_id_e83cebff-a6fd-4b...
vm	ip-10-0-9-96 us-east-2 c...
number of cleaned points	7973
time to process	0:07:33.490743
Crop	Wheat
Field Area	38.36 acres
Harvested Area	35.75 acres
Avg. Field Yield	55.07 bu/acre
Avg. Harvested Yield	56.93 bu/acre
Total Yield	2035.00 bu
Description	
Creation Date	2020-09-22 19:53 HLP:2.3...

Corrected Yield Pts.
DFLT (649510)
transparency: 0%

Google
Imagery ©2020, Maxar Technologies, USDA Farm Service Agency, Terms of Use

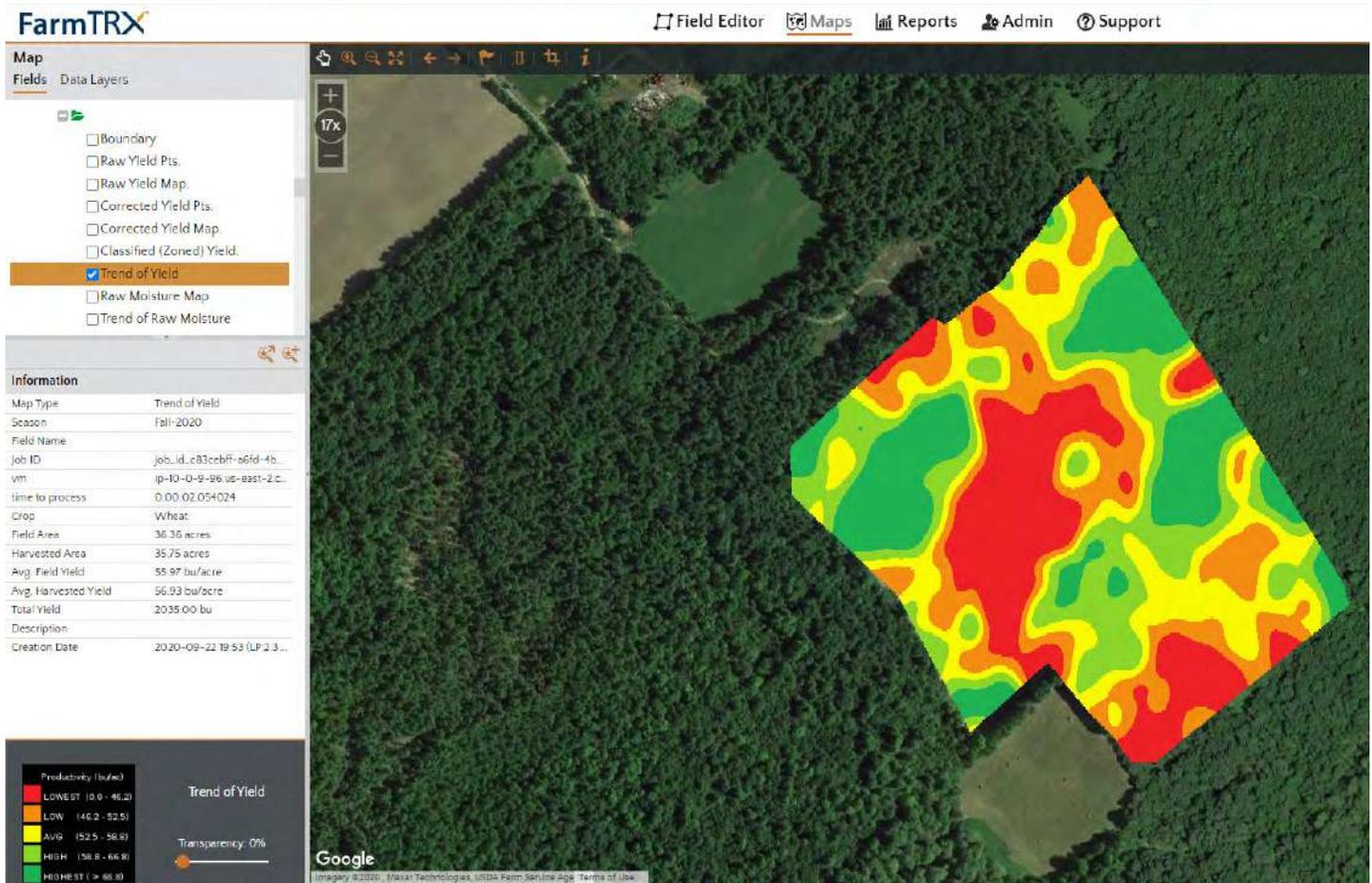
- **Corrected Yield Map:** The Corrected Yield Map is an interpolated map based off the corrected yield points. The map is a continuous grid surface, colour shaded to indicate relative high and low yield areas. The color shading and corresponding legend allow growers to easily see the range of yield variation in their field with high-resolution definition and clarity. This map display is best used in a close review or when scouting.



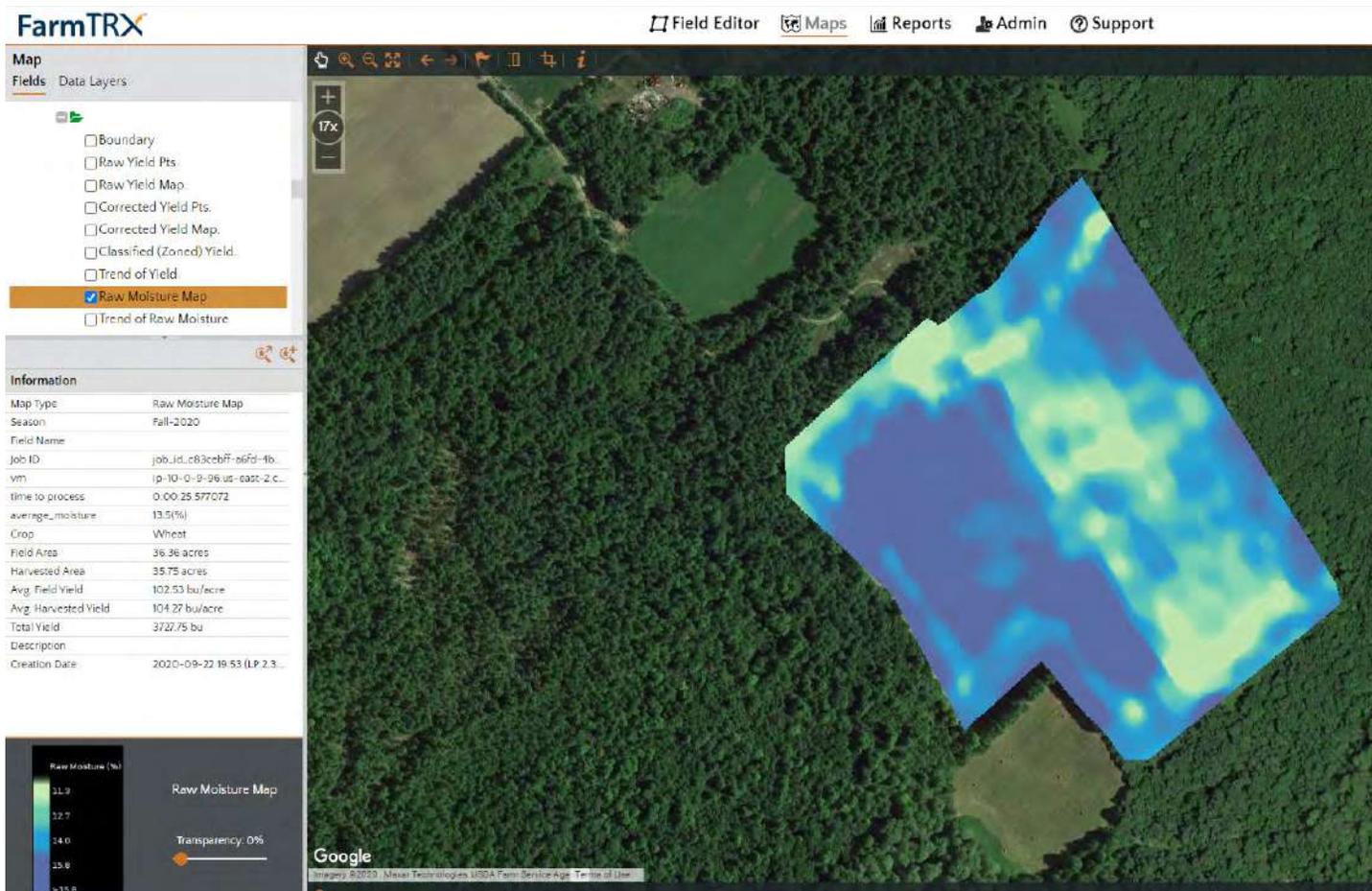
- Classified (Zoned) Yield: Instead of a smooth change in colour themes indicating variations in yield, the Classified (Zoned) Yield map distinctly separates yield performance into 5 classes or “performance zones”. Each of the 5 yield classes make up a twentieth percentile of the total harvest field area, ranging from lowest to highest. Variation between the classes is crisp and clear, making it easy to see and quantify areas that could benefit from remedial treatment.



- Trend of Yield: The Trend of Yield Map is another variation of the interpolated Corrected Yield Map. The general yield trends have been smoothed to take out smaller, local variations which can be irrelevant to a large-scale treatment plan. The Trend Map offers growers a “big picture” perspective on their yield tendencies. This is especially powerful when viewing across multiple fields, as the effects of larger drainage patterns, soil zones or power zones come into focus.



- Raw Moisture Map: The Raw Moisture Map is computed using the grain moisture values generated by the FarmTRX Moisture Sensor. The moisture sensor takes multiple readings per second and averages a moisture reading that is sent to the FarmTRX Yield Monitor every 10 seconds. The Raw Moisture Map is created from this data.

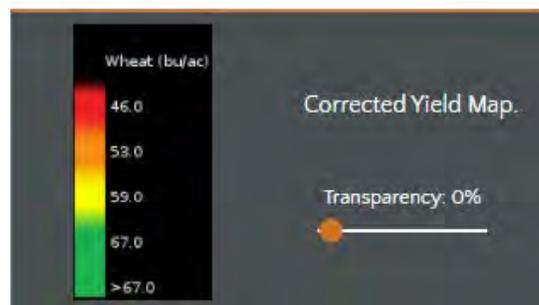


- Trend of Raw Moisture: Similar to the Trend of Yield Map, the Trend of Raw Moisture Map takes raw moisture values generated by the moisture sensor and produces a smoothed interpretation of sensed moisture across the field. This map allows growers to visualize broader trends of grain moisture and empowers everyday irrigation, seeding and harvesting decisions more easily.



The Information box will list the values and details for the selected field.

Information	
Map Type	Corrected Yield Map
Season	Fall-2020
Field Name	
Job ID	job_id_c83cebff-a6fd-4b...
vm	ip-10-0-9-96.us-east-2.c...
time to process	0:00:34.296161
Crop	Wheat
Field Area	36.36 acres
Harvested Area	35.75 acres
Avg. Field Yield	55.97 bu/acre
Avg. Harvested Yield	56.93 bu/acre
Total Yield	2035.00 bu
Description	
Creation Date	2020-09-22 19:53 (LP:2.3...

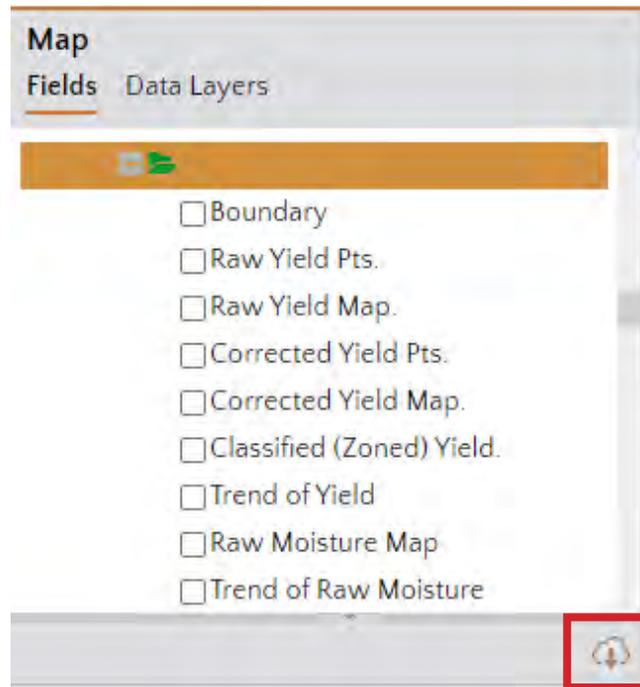


The Information box displays the following values:

- Field Area: Calculated from the user generated field boundary
- Harvested Area: Estimated harvested area based on collected data
- Avg. Field Yield: Total Yield divided by Field Area
- Avg. Harvested Yield: Total Yield divided by Harvested Area
- Total Yield: Total Yield calculated from collected data. This can be changed if you know the total yield for a field from scale tickets by editing the Total Known Yield in the Field Editor.

Exporting

To export your maps, first select the folder for the field you wish to export. Select the “Export Field” icon or right click on the field name.



Select the layer you wish to export (Output Type), as well as the format in which you want to export. We currently support Esri Shapefile, Google Earth KMZ, AgLeader Basic, AgLeader Advanced, and Climate Fieldview formats. PDF downloads are available through the Reports tab.



The “Data Layers” tab allows you to specify your Base Map format. The default map type is Google Hybrid. This can be changed by selecting the check box beside the desired map type.

Currently we support the following map types:

- Google Hybrid
- Google Satellite
- Google Streets
- Google Terrain