# BALE TILINK PRODUCT REFERENCE GUIDE

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# **DEVICES & COMPATIBILITY**

Features	
Geo–Location, Date & Time of Bale Drop	
Bale Length & Flake Information	
Bale Moisture & Weight	
Heat Mapping & Sorting by Bale	
Fields, Cuttings & Other Filtering	
Quick View Summary & Field Summary	
Report Generation & Exporting	
Importing & Exporting of Field Boundaries	



#### Bale Link can be accessed from any mobile phone or tablet web browser



# BALELINK.COM

### **HOW IT WORKS**





### **BALER CHECK LIST FOR BALE LINK TO WORK**

#### Make sure baler is in working order and optional features are installed and operational.





#### Make sure baler software is up-to-date.

*If any of these items are not* operational or up to date for your LB 2200 Large Square Balers, please contact your





AGCO Connectivity Module (ACM) with

### **ACCOUNT REGISTRATION**

# Welcome to BaleLink

Streamline, track, and optimize your bale management



**Email Address:** This is the email address that is tied to an account as an **administrator** or **owner**. It is important to note that the email used for your Bale Link account must match the email used for your AGCO Connect telemetry credentials. This match of an email allows automatic baler authentication to the correct account.

**Organization Name:** The organization name, also referred to as farm name, is required to identify the group of sub-accounts under a single entity.

**Password**: The password for the account must contain **at least** the following:

- Length of at least 8 characters
- 1 lowercase character(s)
- 1 uppercase character(s)
- 1 number(s)

**Confirm Password:** Re-enter your password to confirm.

**ULA:** Open, read, and agree to the User License Agreement (ULA).

### SIGN IN



### NAVIGATION



⊜ Ð Pittsburgh West Virginia Charlotte Jacksonville Orlando Havana

**Zoom In/Out:** Zoom buttons can be used for zooming in and out on the screen. Alternatively, Use scroll wheel on

mouse for zooming in and out on computer.

Or **pinch-to-zoom** as a multipoint gesture for zooming on touch screen.

**Click-to-pan:** Left clicking anywhere on the map and moving the mouse will move the center point on the screen.

Or **touch-to-pan** as a gesture to move the center point on a touch screen.

Field of View: This refers to what the screen is showing. For certain features in Bale Link, we only enable some functions to run with the bales that are within the current field of view, like the **Quick Summary** or **Heatmap** features.

### NAVIGATION

**Bale Clusters:** While zoomed out on the map, there will be balloon-shaped icons that contain numbers representing clusters of bales in that area. As you continue to zoom in, the clusters will continue to divide to show the actual location on the bales.





#### Green Cluster:

This color represents a cluster that has **1-99 bale**s. It is the smallest grouping that can be displayed.



#### **Yellow Cluster:**

This color represents a cluster that has **100-999 bales**. It is the mid sized grouping that can be displayed.



#### Orange Cluster:

This color represents a cluster that has **1,000-99,999 bales**. Numbers are abbreviated and rounded when displayed in this cluster. It is the largest grouping that can be displayed.

### NAVIGATION

Cuttings Toolbar: Shows cuttings, unassigned bales, and years shown on map. **Year Selection:** Select the crop year(s) to be displayed on map. Nide Unassigned Bales **VIEW CUTTINGS CUTTING 2** CUTTING 1 **1ST CUTTING** Crop Name Here **CUTTING 2** CUTTING 1 **1ST CUTTING** Crop Name Here CUTTING 1 CUTTING 2 **1ST CUTTING** Crop Name Here **CUTTING 2** CUTTING 1 **1ST CUTTING** Crop Name Here ::: ::: **CUTTING 2 1ST CUTTING** Crop Name Here CUTTING 1 2022 - 2023 2022 - 2023 2023 2022 11 ដ **Year Selection** Choose the years you would like to view 150 FIELDS 150 FIELDS 2023 2022 2021  $\diamond$  $\diamond$ 2020 2019 2018 2017 HEATMAPS HEATMAPS 2016 2015 2014 2013 Ξ Current Year(s) Showing: If year is red in the Year Selection menu, it will show on the Cuttings Toolbar. **15 FILTERS** When the year tab is **red** on the Cuttings Toolbar, 2023 it is showing you that year's cutting selections. SUMMARY **Helpful Tips!** • At least one year must always be shown. dil. • The selection for a year will only appear if you have a bale made in that year with a valid subscription. REPORTS Navigation is easier when only one year is selected at a time because bales from multiple years may appear over each other. • See **Cuttings** section to keep bales organized into time 1111 specific time periods or easier navigation. REPORTS

Fields Menu: View, select & manage field boundaries.

Heatmap Menu: This menu is available once you are to a low enough zoom level and have bales within the field of view.

Filters Menu: Filters give you the ability to sort what bales you want to see. Filters encompass nearly every attribute related to the bales, when and where they were made, and what machines they came from.

**Quick Summary:** With one click you can view the aggregated bale information for the bales you can see in the current field of view.

**Reports:** Reports can only be generated from a filter that has previously been created and is currently active. If there is not a filter selected, the icon appears translucent. If there is a filter active, the icon appears solid and is available for selection.



### **BALE DETAILS**

**Dry Mass:** If the baler is equipped with a compatible **moisture sensor and scale,** then the approximate dry mass of the bale will be calculated.

**Peak Moisture:** If the baler is equipped with a compatible **moisture sensor**, the **highest** moisture reading will be displayed from the bale.

Bale Length: Length of the bale created.

Flake Count: Number of flakes in the bale.

**Bale Size**: This size represents the **height and width** of the bale from standard bale chamber sizes (3x3, 3x4, 4x4, etc.).

**Baler VIN:** The serial identification of the machine that made that individual bale.

**Bale UID (Unique Identifier):** When the bale is created, every bale is assigned its own unique identifier number.

Selected Bale Icon: When a bale is selected, a white border will appear around the bale icon.
 Icon: When a bale is dropped from the baler,

Bale Icon: When a bale is dropped from the baler, this icon will represent where it was originally located.

	Bale Details		
	July 12, 2022 - 09:5	55 AM	0
	1951 lbs		14%
	Less Details		
	Dry Mass Peak Moisture Bale Length Flake Count Bale Size		167 8
	Baler Vin UID Tag Serial Number Current Location	000000 38.	AGCM12345678 67575376 000000000000009 .1586040, -97.440

-Current Location: This is the latitude and longitude location information where the baler dropped the bale.

If a bale has **AdvancedLink**<sup>®</sup> RFID twine, then the current location could be updated with the use of the mobile app and scanner. If no **AdvancedLink**<sup>®</sup> RFID twine is on the bale, the location cannot be updated.





**Date and Time:** Date (MM/DD/YYYY) and time (local time based on browser location) when the bale was **tied** or completed.

Bale Weight: If the baler is equipped with a compatible **scale**, then the reported weight of the bale will be displayed.

Average Bale Moisture: If the baler is equipped with a compatible **moisture senso**r, the **average** moisture readings will be displayed from the bale.

Bale Tag Serial Number: If the baler is equipped with the AGCO Parts AdvancedLink® RFID twine and required equipment, then the scanned tag number is paired with the Unique Identifier (UID) of the bale. This serial number could be scanned and traced when the bale moves locations.

**Preservative Applied:** If the baler is equipped with a compatible **preservative application system**, the total amount of applied preservative will be displayed from the bale (not pictured).

### SETTINGS

**Feedback Type:** Let us know if you see something out of place, notice a bug, or have an idea for a feature to make Bale Link better. Don't be shy, let us know how we could better help you!

ale Link better! Note that you m Ibmission. For questions and s GCO dealer for help.	ay not be contacted as a result of your upport, please contact your local
eedback Type	
Reporting a Bug 🔵 Reque	esting a Feature
ame	
Enter your name here	
mail	
Enter your email address here	
/hat happened?	
Details of your bug or feature r	request
CANCEL	SUBMIT FEEDBACK

What Happened?: Be sure to be as descriptive as possible so we can better understand what might have happened or what could be a new idea. Sending feedback this way will ensure we can be notified as quick as possible to address any issues and collect data.

	Settings
<b>(+)</b>	Organization
<b>e</b>	System of Measurement
	Some elements or graphs may r been re-opened.
	Imperial (US Customary)
	Crop Year Starting Month
	Which month does your crop rea
	January Feburary
	May June
Feedb	September October
ack	Bale Reporting
	Automa
	Sub-Accounts and Balers
	User Settings
	Helpful Information
	User Guid
and the second second	Account Management
	Delete Account
	Sign Out
	Sign out of your account $\rightarrow$ S
	Terms of Use   Privacy California No



# **USER SETTINGS**

**USER SETTINGS** 

User Status: The status of every user on the account can easily be viewed.

 $\checkmark$ 

Force Change Required: User invited but has not signed it for the first time requiring a password change.

Master account holder can re-send invitations.

**Confirmed:** User active and current.

Search Bar: This will query the Name and Email fields.

Name: This field is a manual input that the master account holder can assign to a user to more easily identify email.

**Email:** The email addresses listed in this menu are the authorized users of the account. The master account will also appear in this list, but the list of users is only visible by the master account holder.

BaleLink Sett	ings	
Q Search		
Name ţ	Email 🗘	Status 🗘
John Ger ricson	jgenericson@email.com	FORCE CHANGE PASSWORD
<u>Sam</u>	sammy@email.com	FORCE CHANGE PASSWORD
Delores	dwest@email.com	CONFIRMED
<u>Megan</u>	megladon@email.com	CONFIRMED
Luke	lukerancher@email.com	CONFIRMED
Gary	gygaxina@email.com	CONFIRMED
List Sorting: So selecting icon in	ort lists by n header.	<pre></pre>
	d	> A
Sort 7-4		< Re

- **Return single page** < Jump to last page
- $\gg$
- $\ll$

Sort Z-A



ggle: Navigate between pages. Page can be selected or arrow toggles.

- dvance single page
- Jump to first page

# **BALER SETTINGS**

**BALER SETTINGS** 

Search Bar: This will query the Name and VIN fields.

Name: This field is a manual input that the master account holder can assign to a baler to more easily identify machines.

Vehicle Identification -Number (VIN): The VIN's listed in this menu are the authorized balers in the account. This could also be referred to as the **serial number** of the machine.



||. ↓ |||||

#### Authorized Emails: If a

baler has a different email used for the registration of the Connect telemetry, then they need to be listed here to validate balers in the fleet. An example situation could be if balers have different owners, but they all want to be in the same Bale Link account.

#### Add New Baler:

If the master account holder wants to add a baler, they must enter the VIN and a nickname, if desired.

#### **Rename Baler:**

The Name associated to a baler VIN can be added, removed, or changed from this menu.

#### **Delete Baler:**

If the master account wants to remove a baler. it cannot be reversed once they acknowledge the pop-up.

# **BALER SETTINGS**



BALER SETTINGS





**ACM and Bale Link Status:** The AGCO Connectivity Module (ACM) is the telemetry device used to transmit data from baler to the cloud. The connection and subscription status of both are displayed for the master account holder to manage.

	S + NEW BALER
ACM Expires 🍾	
09/22/2024	
08/12/2025	
08/12/2025	
08/12/2025	

#### Tips:

Reasons status may show **unconfirmed**. To resolve these issues, contact AGCO dealer supporting baler.

- Ownership has changed
- ACM subscription has expired

**ACM Subscription Expiration:** The ACM expiration date (MM/DD/YYYY) is retrieved from the registration for the Connect telemetry solution. Connect telemetry registration is managed by the AGCO dealer.

AGCO Connect: (also referred to as **MF Connect or Fendt Connect**) is the central telemetry solution for fleet management.



# **STEPS TO CONNECT BALE LINK**

#### **Register Account**



### + NEW BALER

#### **AUTHORIZED EMAILS**

**ACTIVE** 



- come to automatically authenticating balers later.
- must be completed by your local AGCO dealer.
- match, adding the new baler will fail.
- holder.
- Settings.
- Active. If the baler is not addive, there may be an issue with the ACM or baler connection.

6. Enjoy Bale Link: Now that the baler(s) are active, you can now manage users and the data from the machines.



**1. Account Registration:** Create your Bale Link account for an organization (farm). This account holder has the unique ability to manage the users and balers of the organization. The email used for the registration of this account is important when it will

2. Connect Telemetry Registration: Before doing anything else in Bale Link, the AGCO Connect telemetry solution on the baler must be registered, activated, and functioning. The email that is tied to your Connect registration for the baler/account is important and will need to be the same as one used when creating your Bale Link account. Once the account holder can see the applicable baler VINs in their Connect app, then they can proceed to the next step. The Connect Telemetry registration

3. Add New Baler: The account holder now can go into their Baler Settings and Add New Baler(s). When trying to add a VIN to an account, Bale Link will automatically check and verify the that one of the following is **true**. If one of these do not

• The email registration of the Connect telemetry solution matches the email registration of the Bale Link master account

• The email registration of the Connect telemetry solution matches one of the emails in the **authorized emails list.** 

4. Verify ACM Status and Expiration: When a baler is successfully added to the account, verify that the ACM status is confirmed, and the **ACM Subscription Expires** at a date desired in the future. These are both displayed in the Baler

5. Bale Link Activation: To see bale information produced for the authorized balers, the Bale Link status icon must appear

### FIELDS

Fields: The Fields menu gives you the ability to keep **boundaries** stored better for organizing and keeping track of your baling operation.

Boundaries can be manually drawn and imported, so that you can quickly navigate between locations, produce heatmaps, and organize information.

When you hover the mouse over a stored field in the menu, it will bring up options to **Edit**, Delete, and Jump to Field.



Jump to Field: When you click the location arrow icon, it will automatically bring the field you selected into the current field of view of the map.

Field Area: The actual area of the field.



Active Field Indicator: If checked, the field is active.

Field Thumbnail: The actual shape of the field.



Page Toggle: Navigate between pages. Page numbers can be selected or arrow toggles.

- Advance single page >
- **Return single page** <
- Jump to last page  $\gg$
- $\ll$ Jump to first page



Active Field: Fields that are selected showing a red **dotted outline** are considered active. When field(s) are active, only bales within those fields will be displayed.

**Stored Field:** Fields that are not selected, but showing a solid red outline are stored fields. If the boundary is gray, you may or may not be able to see bales within its boundary depending on if any other fields are active.

Field Associated with Cutting: If a field boundary is associated with a cutting in an active year, but not active, a solid blue outline will be shown.

Cutting Example 86 ac 

Import Field(s): To Import fields, select the Import Field icon, locate the desired file from computer browser, and **Open** the file. The file type must be in a .ZIP format for the feature to run correctly.

#### **Supported File Types:**

- AGLEADER
- AUTOGUIDE 1000
- AUTOGUIDE 3000
- GEOJSON
- ISOXML V33
- ISOXML\_V42
- ISOXML\_V43
- JD
- PFTM
- RAVEN
- SHAPE
- TELE PAC
- TELE PAC XML
- TOPCON 319
- TOPCON 320
- TRIMBLE
- TRIMBLE TMX



### FIELDS

Create Field: New Fields can be created within the Fields menu. To create a new field select Create Field, enter the Field Name, and then draw out the boundary. Field Name: Users can manually input the name of the boundary (special characters, letters, numbers and spaces are allowed.)

Select Fields Select the fields you would like to view. IMPORT FIELD Supported file formats	<text></text>
Field Name Size	Enter the name of the field
□ ○ Cutting 1	CANCEL SAVE FIELD
Cutting 2 135 ac	
Cutting Example 86 ac	Click first marker to finish Click on the polygon icon in the to start drawing. Edit the shape of the selecting the edit button on the to
Field 1 110 ac	move any vertex. Add additional clicking the plus signs. Remove we clicking on it without movement. editing, overwrite the boundaries drawing a new polygon.
Field 2 120 ac	Field Name*
≪ < 1 2 3 4 5 > ≫	CANCEL SAVE



#### **Draw Polygons:**

**Finish** will stop the point placements and save changes made. Remove Last Vertex deletes latest point placed. Cancel removes all changes made.



#### **Edit Layers:** Edit current boundary by moving points and midpoints.



Continue to place points around the edge of the field until it is a closed shape.

The cursor will **snap to** an existing point when it gets close enough to it.

The boundary outline will turn grey when the field boundary is **closed**. After the field boundary is complete, additional edits can be made at any time.

If the boundary is sufficient, then the **Save Field** button will save the field boundary. There is no exporting of field boundaries that are created in Bale Link.







#### **Rotate Layers:**

Field boundary can be **rotate**d about its center axis.

### FIELDS

Edit Field: Fields can be edited within the Fields menu. When the mouse is hovered over the field the user wants to edit, the Edit Field icon will appear. **Creating New Points:** If the user wants to **create** new main points on an existing boundary, click on mid-points and drag to new locations. This will **convert** the mid-point recently moved into a main point and make new additional mid-points. Moving Points: Main and mid-points can be moved easily by **left-clicking** on the point, **dragging** the point, and then **releasing** the mouse click. When complete, click **Finish.** 



O Boundary Mid-Point (small)

Rotating Layer: The entire boundary can be **rotated** easily by **left-clicking** on any point, **dragging** the point, and then **releasing** the mouse click. The boundary will rotate about the center axis of the shape. When complete, click **Finish.**  **Deleting Points:** If main points need to be **removed**, right-click on the point.

Boundary Main Point (large)

### CUTTINGS

Cuttings: The Cuttings function is a helpful tool to keep track and separate bales based on which cutting they could be apart of and how they are visualized.

- Cuttings are especially useful in an organization that will make bales in a field more than once for a given year.
- Cuttings enable a user to separate what they see on the map quickly so that multiple cuttings are not always shown on the field together.
- If no cuttings are established, then all bales will fall into the **Unassigned Bales** default category.

The cuttings bar at the top of the map will display all cuttings within a selected year, the years that are actively visible on the map, and the bales that are not assigned to a cutting. Cuttings only help organize the data you want to view. For example, if you delete a cutting, you are not actually deleting any bales, just the way they are organized.

All unassigned bales are **hidden** if the box is gray.





### CUTTINGS







Add New Crop: User has control over what to name crops. Crop names can be used or other identification methods if chosen by the organization.

> **Pinned Crops:** The user can pin up to **five** total crops to display. Each crop is assigned a color that is represented in the Gantt chart view of the Cuttings **Toolbar**. The user can define more than 5 crops to choose from.

Active Cutting: Cuttings that are selected showing an red box on the Cuttings toolbar are considered active. When cutting(s) are active, only bales within those cuttings will be displayed.

Stored Cutting: Cuttings that are not selected, but showing a gray box on the Cuttings toolbar are stored cuttings. If the

	Set Up a New Cutting
Cutting 1 129 ac	Name New Cutting
Cutting 2 135 ac	Crop Type Alfalfa
Cutting Example 86 ac	Cutting Start & End 06/15/2022 - 06/30/2022
<b>Field 1</b> 110 ac	Fields (Optional)
<b>Field 2</b> 120 ac	Cutting Example 129 ac 🏹 🗙
≪ < 1 2 3 4 5 > ≫	

Select Field(s): The user can define Fields in Cuttings: This section will show what fields are **associated** with a cutting. **Select** and click the box if the field should be associated with that cutting.

the user what fields are **associated** with the cutting. If a field is not defined for a given cutting, this section will be blank, and the cutting is only filtering based on the start and end date.

### CUTTINGS

**Example Uses of Cuttings:** This section demonstrates how cuttings could be set up by a user. Each of the cuttings can be viewed individually (maps 1, 2, and 3), they can be viewed all together (map 4), and they could be viewed in any other combination the user wants. If a cutting is greyed out, then it is not being displayed.

#### Here are a few use cases to consider:



#### **View of CUTTING 1**





#### View of CUTTING 2









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• A user wants to know how many bales they produced in a field for each individual cutting.

• A user wants to know quickly the overall number of bales made in a field for the season.

• A user wanted to produce heatmaps for each individual cutting of a field to evaluate agronomic practices.

#### **View of CUTTING 3**

#### **View of CUTTINGS 1-3**





### HEATMAPS

Bale **Moisture** and **Weight** data can be displayed as a gradient heatmap within created field boundaries. Heatmap information acts as a visual aid to help see trends within a field like harvest and water trends. There are two different display modes for a **Heatmap**. The **Overlay** option is a mesh created between each bale across the whole field while the **Icon** option only helps to visually sort bales.

The following are the criteria needed to correctly generate heatmaps:

The field of view must be close enough to:

- Include the bale icons and field boundary.
- Bales must be located within a stored field boundary.
- Bales must have at least **moisture** or weight statistics.

**Heatmap Type:** The user can select how they want to view the gradient data.

Heatmap Variable: Select the variable the heatmap will display. At least one must be selected. The unit for moisture is a percentage (%). The units for weight is either pounds (lb) or kilograms (kg).

Fields in View: The only fields that will appear in this list are the ones that have the majority of the boundary within the current field of view. The user is **required** to select a field boundary so that the heatmap can be **constrained** geographically.

1276 🛑



1885)

13 🔴

20





**Overlay Heatmap:** Displays a gradient heatmap based on the location the bales were tied.





**Icon Heatmap:** Displays individual bales as color coded icons that can be visually sorted based on where the bales were **dropped**. This location is only accurate **before** the bales are moved.

### HEATMAPS

**Example Uses of Heatmaps:** This section demonstrates how heatmaps could be generated by a user. Here are a few use cases to consider:

- A user wants to know where in the field the higher moisture bales originated.
- A user wants to know quickly the overall number of bales that are above a certain moisture and where they are in the field.
- A user wants to know the moisture and weight trends from cutting to cutting.







When the gradient slider is at each end, it will show the **minimum** and **maximum** value for the field. When the gradient slider is changed, the bale icons and the overlay gradient will change to show the limits that the user sets.

When the gradient slider is moved, it will indicate the value at which the color gradient will show the **limit.** For example, the slider above is set to 20% which means that any bale that is **greater than or equal** to 20% moisture will be colored **red**. Any bale that is less than 20% will be shaded towards the opposite gradient.



### HEATMAPS

Example Interpreting a Heatmap: This is a great example of what an Icon heatmap could do for a user. If a user wanted to find all bales that were greater than 20% moisture, this map could visually tell the user which one(s) needs to separated. Any bale that is greater than 20% moisture will be colored red. This is indicated by the gradient scale chosen by the user.



Heatmap View weight or moisture data as a gradient heatmap Moisture Weight  $\bigcirc$  $\bigcirc$ Cutting 1 Cutting 2 1224

**Heatmap Tip:** Bales that do not have the data to be displayed for the heatmap setting (weight or moisture) will appear red. This is to show that there is something unknown compared to the others and could lead the user to investigate.



### QUICK SUMMARY

Number of Bales: Total number of bales.

**Bales with Valid Weight:** Total number of bales with valid weight measurements.

**Bale Weight Total:** Total summation of bales with valid weight measurements. Only one weight will be displayed if baler is not equipped with a moisture sensor. Units are either metric tones or tons.

- **Dry weight** excludes calculated water weight if valid moisture measurement is present.
- Wet weight does not depend on whether a valid moisture measurement is present.

**Bale Weight Average:** Calculates an average bale weight for all valid bales.

Bale Size: This size represents the **height** and **width** of the bales.

**Bale Length:** Minimum and maximum bale lengths.

**Bales with Valid Moisture:** Total number of bales with a valid moisture measurement.

**Average Moisture**: Minimum and maximum bale moisture captured with the calculated average moisture level for all valid bales.

Quick Summary: With one click you can view the aggregated bale information for the bales you can see in the current field of view. There is no restriction on the zoom level for the Quick Summary tool to be used.



Wide Zoom Level

### FILTERS

Filters: The Filters menu gives you the ability to sort bales beyond what users can do with just years and cuttings. Filters can sort bales by any of the bale characteristics that are associated to them. Filters can be created and stored for repeated use or deleted when they are not needed anymore. Filters must be created if the user wants to utilize the reporting tools covered in later sections.

When you hover the mouse over a stored filter in the menu, it will bring up options to **Edit** and **Delete**.



parameters included in the filter.

Page Toggle: Navigate between pages. Page numbers can be selected or arrow toggles.

- > Advance single page
- Return single page
- >> Jump to last page
- ✓ Jump to first page





Active Filter: Filter that is selected showing on the Active Filter status box is considered active. When a filter is active, only bales within the criteria of the filter will be displayed.

Stored Filter: Filters that are not selected or active, but are showing in the Filters menu, are Stored Filters.

**Time and Filters:** If **Creation Time** is associated with a filter, the cuttings and year selection will be **disabled** while the filter is **active**. There are a few important details to note:

- When a filter contains Creation Time as a filtering parameter, the bales it filters may or may not be within the active years showing.
- When a filter **does not** contain **Creation Time** as a filtering parameter, the bales it filters are only within the active years and cuttings displayed.
- Time can only be filtered **once** in Bale Link, that would either be by using the active years showing and cuttings or filters.

Active Filter Status Pop-up: If a filter is **active**, the **name** and **bale characteristics** that are being filtered will be displayed in a status box.

### FILTERS

Filter Name: User must input the name of the filter.

characteristics are being filtered <b>Pop-up</b> or the <b>Filters</b> menu. T many characteristics and fields	d both in the <b>Filter Status</b> The user can select as as required.	Name		CANCEL SAVE FILTER
Active Filter         Test Filter         Creation Time       Weight       Average Moisture       Baler VII         Test Filter       Creation Time       Weight       Renge         Or Select a Date Range       X       X       Y         Meight       Mo       Tu       We       Th       Fr       Sa       Su         0       Tu       We       Th       Fr       Sa       Su       29       30       31       1       2       3       4         5       6       7       8       9       10       11       12       13       14       15       16       17       18       19       20       21       22       23       24       25         26       27       28       29       30       31       1	Clear Selection Month and Year Date Range	Enter a Filter name     Creation Time   Creation Time can be filtered by either a moving time window over the last X number of days, or by a set time window with a fixed start and end date.   I   Or Select a Date Range   I   I   Veight   Weight Min (lb)   Weight Max (lb)   0	Fields    Fields     Cutting 1      Cutting 2     135 ac     Cutting Example     86 ac     Pield 1     110 ac      Field 11     128 ac      79 ac      <	Equipment   Baler Vin   Please Select One   Missing Tags   Only show bales without tags   Bale Size   3x3   3x3   3x4   4x4   720x120   4ft   5ft   Average Min (%) Average Max (%) 0 Average Min (%) Average Max (%) 0 0 Average Min (%) Average Max (%) 0 0 O
<ul> <li>Page Toggle: Navigate between Page numbers can be selected arrow toggles.</li> <li>Advance single page</li> <li>Return single page</li> <li>Iump to last page</li> </ul>	n pages. or	Active Selection: Charact this criteria. Available Selection: Char include this criteria.	teristic has been <b>selected</b> , so th racteristic has <b>not</b> been selected	hat the bales shown will <b>include</b> d, so that the bales shown will <b>not</b>

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Save Filter: The user cannot save a filter until it has the name and at least one characteristic selected or entered.

#### SAVE FILTER

#### Baler List Drop-Down

Filter Wizard: The following are the characteristics associated to the bales that can be filtered against:

- Creation Time
  - Specific Date Range
  - Number of Previous Days
- Bale Weight\*: Min and Max
- Fields
- Baler VIN
- Bales Without Serialized Tags\*
- Bale Size
- Average Bale Moisture\*: Min and Max
- **Peak Moisture\*:** Min and Max
- **Preservative Applied\***: Min and Max

\*Only applicable if the baler is equipped with compatible equipment

### REPORTS



If there is **not** a filter selected, the icon appears **translucent**. Activate a filter to enable reporting.



Once there is a filter **active**, the icon appears solid and is **available** for selection.





The **histograms** at the bottom shows graphical representation of all bales in dataset. Value range and frequency of each bar can be seen by **hovering** the cursor over individual bars.



The user can generate a report once the icon is solid by <b>clicking</b> on the <b>Reports</b> icon.	Report Export: Once the report is generated, the user can <b>download</b> the data. The data will be exported as a <b>zip-file</b> containing two files: • CSV: A comma-separated values (CSV) file that contains all the raw data for each bala in the export
1-30	Users can import into their own databases, manipulate the data, or generate their own charts. • PDF : A portable document format
Applied Preservative 0 gal	(PDF) file that contains a simple view of the visual export from Bale Link showing all the generated information.
Average Moisture       Average     12%       Minimum     3%       Maximum     42%       Sample Size     4426	Applied Preservative: Total volume of preservative applied.
ture Distribution	<ul> <li>Average Moisture*: Average bale moisture statistics over dataset:</li> <li>Total average bale moisture</li> <li>Minimum and maximum average bale moisture</li> <li>Number of bales with valid moisture measurements</li> </ul> Baler VIN: List of balers that made the bales in the bales in the bales.
100 200 300 400 Average Mosture	ualasel

Weight: 850lb - 899lb Frequency: 1708 To **zoom** in on the graph, **left-click** and hold, then **drag** cursor to desired viewing area. **Double left-click** anywhere on the graph to reset to its original size.



# **AUTOMATED REPORTS**

