



PULSE Insights

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1. PULSE Insights Overview

PULSE Insights brings you actionable data to support your herd management decisions related to animal health, reproduction success, and feeding efficiency. You can find this feature under the [main menu bar](#).

See the topics below to learn more:

- [Animal Inventory Trends](#)
- [HealthVAL](#)
 - [Customize HealthVAL](#)
 - [View HealthVAL Reports](#)
- [HerdSights](#)
 - [Manage HerdSights Dashboards](#)
 - [Build Views](#)
- [Income Over Feed Cost Report](#)
- [Reproduction Insights](#)
 - [Overview](#)
 - [Conception Rate](#)
 - [Pregnancy Risk](#)
 - [Time of First Breeding](#)
 - [Missed Breedings](#)
- [RumINSIGHT Report](#)
 - [View RumINSIGHT Data By Herd](#)
 - [View RumINSIGHT Data By Pen](#)
 - [View RumINSIGHT Data by Lactation and DIM](#)
- [Insights Settings](#)

2. Animal Inventory Trends

Required Permissions

The Animal Inventory Trends report provides a visual representation of recent animal inventory changes for cows and heifers by reproduction status, as well as heifers by [age](#).



You can find this feature under the [Insights menu](#).

Use the following guidelines when viewing your Animal Inventory Trends:

- Click on the tabs to select one of three reports:
 - Cows by [RPRO](#)
 - Heifers by RPRO
 - Heifers by Age
- By default, the reports show up to 12 months of data.
- Hover over the graph to view animal count details by month.
- Click the animal groups in the key to control which animal groups are included:



- Cows by RPRO status key:

Do Not Breed Count Fresh Count Open Count Bred Count Pregnant Count Dry Count

- Heifers by RPRO status key:

Do Not Breed Count Heifer Calf Count Open Count Bred Count Pregnant Count Dry Count

- Heifers age key:

0-3 Months 4-6 Months 7-12 Months 12+ Months

- View your animal inventory data by month in a table below the graph.
- Print or export your report in one of two formats: PDF and CSV.

3. HealthVAL

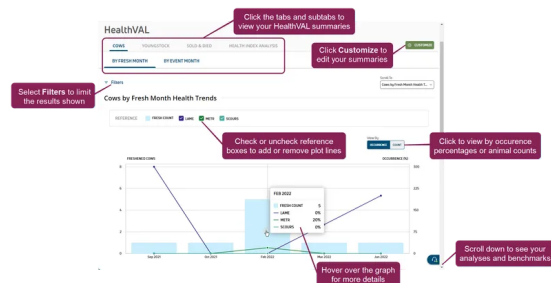
✓ Required Permissions

✓ [Click here for a video tutorial on this feature!](#)

The VAS HealthVAL Insights report provides visibility into the diseases affecting your herd and allows you to compare your herd health events to customized benchmarking categories, including local dairies and dairies of similar size. At a glance, you can assess your herd's events and gather insights into the best areas to focus on for improvement.

By tracking and examining health events for your herd, you can implement new strategies and protocols for avoiding or treating specific illnesses. Over time, you can lower treatment and production loss costs, and have fewer milk and beef withholds. You can find this feature under the [Insights menu](#).

First, [Customize HealthVAL](#) to select which events to include and set your herd's profile for benchmarking purposes. Then, [View HealthVAL Reports](#) and begin your analysis!



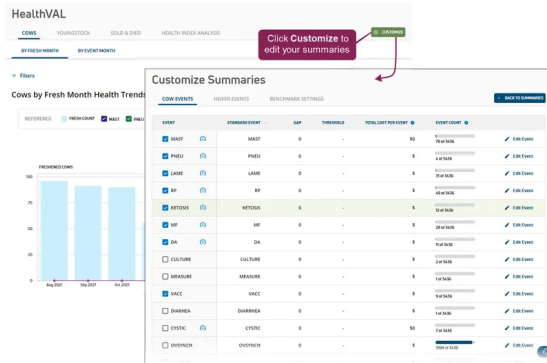
See the topics below to learn more:

- [Customize HealthVAL](#)
- [View HealthVAL Reports](#)
 - [Cows](#)
 - [Cow Event Analysis](#)
 - [Youngstock](#)
 - [Sold & Died](#)
 - [Health Index Analysis](#)

3.1. Customize HealthVAL

Required Permissions

Click the **Customize** button on the HealthVAL page to access event and benchmarking options.



Expand the sections below to learn more:

- ✓ **Set Cow and Heifer Events**
- ✓ **Benchmark Settings**
- ✓ **Related Topics**

3.2. Learn More about HealthVAL Calculations

HealthVAL provides a precise look at your herd's health and uses an "animal days at risk" concept to calculate mortality and health events for heifers. This method offers a more accurate picture than simple headcounts, especially for dynamic groups like youngstock where animals frequently move between age groups.

Which animals are included in the Calf Mortality rate?

The HealthVAL Calf Mortality rate includes all female calves and heifers, including cross-bred heifers that are sold for beef. Male calves are not included in the calculation.

What are "Days at Risk"?

A heifer is "at risk" when it is present in the herd and within a specific age range where an event (like a health issue or death) could occur. This is a count in days—not a "high" or "low" risk assessment, and this total is unrelated to the frequency of health or sold/died events entered. Instead of just counting the number of heifers, PULSE calculates how many days each animal spent in specific age brackets.

Why this Matters

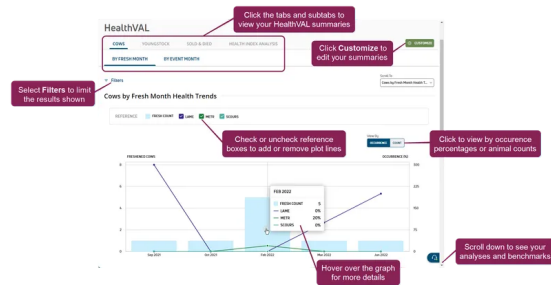
- **Accuracy:** A calf that just entered a 30-day age bracket has more time to experience an event than a calf about to leave that bracket. Weighting the data by days at risk prevents underestimating mortality rates.
- **Consistency:** This approach provides a realistic occurrence rate regardless of your herd size or how long animals stay in a specific age group.
- **Real-Time Insights:** The report updates automatically when opened and is based on based on your latest PULSE data, ensuring you see the most current health trends

 **TIP:** When using custom age ranges, limit the range to fit your specific goal. For example, if you want to see the occurrence of heifers sold for reproduction, set your range to start at 365 days. This ensures early-life mortality data doesn't skew the results for breeding-age animals.

3.3. View HealthVAL Reports

✓ Required Permissions

After [customizing your settings](#), view your herd health data in clear, easy-to-follow graphs on the [HealthVAL](#) page. Use the reports and graphs to identify and analyze trends, review Youngstock data, or check the [Health Index](#) Analysis for your herd. The reports include up to 12 months of data to allow you to consider seasonal or weather-related differences in your analysis.



See the topics below to learn more:

- [Cows](#)
- [Cow Event Analysis](#)
- [Youngstock](#)
- [Sold & Died](#)
- [Health Index Analysis](#)

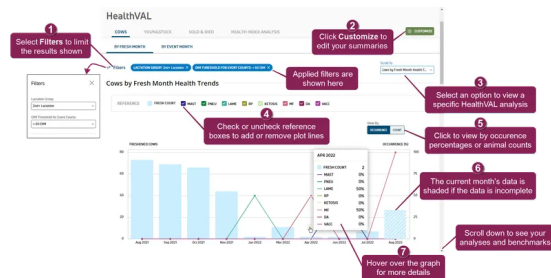
✓ Related Topics

3.3.1. Cows

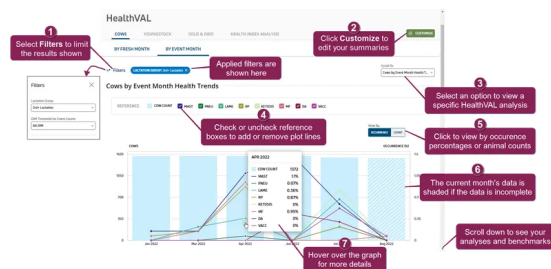
✓ Required Permissions

Use the Cows tab for an overview of your cow health events, so you can quickly note any unexpected changes in case counts. Cow Health Trends can be viewed in the distinct groupings below.

By Fresh Month: Monthly health event data for all cows by month fresh.



By Event Month: Monthly health event data for all cows.



See the topics below to learn more:

1. Select **Filters** to open a side panel on the left of the page to filter the list of lactation events and/or **DIM** thresholds for event counts. Once a filter is selected, the current filter applied is displayed next to the **Filters** option. Click the **X** on a specific filter to remove it.
2. Click the **Customize** button to edit your HealthVAL summaries for cow and heifer events and/or modify your HealthVAL benchmark settings.
3. Use the **Scroll To** shortcut to further analyze individual events in the graphs below. See [Cow Event Analysis](#) to learn more about analyzing specific events.
4. **Reference** checkboxes allow you to control which lines are plotted on the graph. Each reference is color-coded to match a specific bar or line on the graph. Check a box to include a plot line on the graph. Uncheck a box to remove a plot line from the graph.
5. Click **Occurrence** to view the reference data in occurrence percentages and include threshold values on the graph, or click **Count** to view the reference data in total counts.
6. If the graph includes data for the current month, the bar is shaded to indicate that data for the month is incomplete.
7. Hover over a bar on the graph to view additional data.

✓ Related Topics

3.3.2. Cow Event Analysis

Required Permissions

Cow Event Analysis graphs allow you to focus on individual events for specific lactations or days in milk, and are an invaluable resource for tracking and investigating your herd's unique health profile in greater detail. The graphs are located on the [Cows](#) page, below the main trends graph.



Follow the guidelines below when working with Event Analysis graphs.



NOTE: This example above shows a MAST event, but the same guidelines apply to all events.

- 1 **Benchmark assigned:** Based on your [customization settings](#), your cows are compared to herds of similar locale and size. The blue bar identifies the benchmark details.
- 2 **Event line:** Use the solid colored line — **MAST** to view total cases and percentage (%) of affected cows by month. The light blue bar indicates the total number of cows, and hovering over the graph provides details by month.

NOTE: For quick association, the HealthVAL line color matches the color currently defined for the event. See [Edit Event Definitions](#) for more information.
- 3 **Herd Event Trend:** Use the gray dotted line ---- **HERD MAST TREND** to follow the trend curve for your herd.
- 4 **Event Bench:** If benchmark data exists, you can compare your herd trend curve to the benchmark curve — **MAST BENCH**. If benchmark data is not available for your location and herd size, a  **BENCHMARK NOT AVAILABLE** message displays below the graph.
- 5 Click **Occurrence** to view the reference data in occurrence percentages and include threshold values on the graph, or click **Count** to view the reference data in total counts.
- 6 **Threshold:** The red dashed line ---- **THRESHOLD** indicates your threshold for this event. You can set custom thresholds in [Event Definitions](#).
- 7 Hover over a bar on the graph to view additional data.
- 8 If the graph includes data for the current month, the bar is shaded to indicate that data for the month is incomplete.

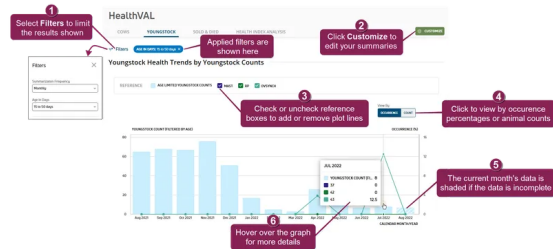
[Related Topics](#)

3.3.3. Youngstock

Required Permissions

Use the Youngstock tab to view health events for calves and heifers on a weekly, bi-weekly, or monthly basis.

Follow the guidelines below when analyzing your Youngstock health.



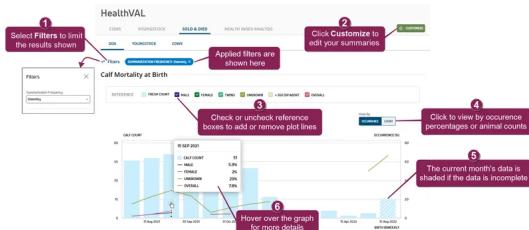
1. Select **Filters** to open a side panel on the left of the page to filter cows by reporting frequency and [age](#) (in days). Once a filter is selected, the current filter applied is displayed next to the **Filters** option. Click the **X** on a specific filter to remove it.
2. Click the **Customize** button to edit your HealthVAL summaries for cow and heifer events and/or modify your HealthVAL benchmark settings.
3. **Reference** checkboxes allow you to control which lines are plotted on the graph. Each reference is color-coded to match a specific bar or line on the graph. Check a box to include a plot line on the graph. Uncheck a box to remove a plot line from the graph.
4. Click **Occurrence** to view the reference data in occurrence percentages and include threshold values on the graph, or click **Count** to view the reference data in total counts.
5. If the graph includes data for the current month, the bar is shaded to indicate that data for the month is incomplete.
6. Hover over a bar on the graph to view additional data.

3.3.4. Sold & Died

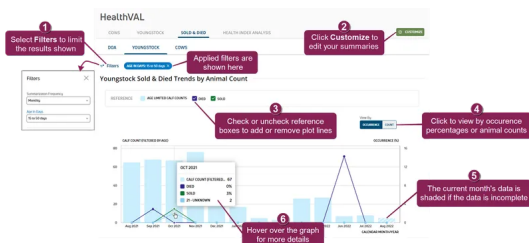
Required Permissions

Use the Sold & Died tab to view data on a weekly, bi-weekly, or monthly basis for the three distinct groupings below.

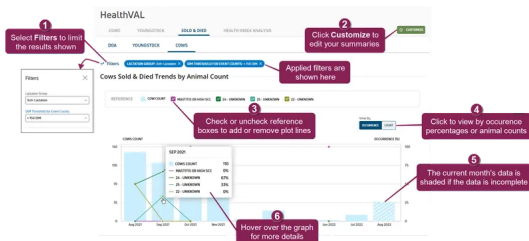
- **DOA:** Calf death at birth by calf category (Male, Female, Twins, Unknown, >260 DIP Abort, Overall).



- **Youngstock:** Youngstock sold and died by [age](#) (in days).



- **Cows:** Cows sold and died by lactation group and/or [DIM](#) threshold.



See the topics below to learn more:

1. Select **Filters** to open a side panel on the left of the page to filter the list of calves by reporting frequency and calf age (in days). Once a filter is selected, the current filter applied is displayed next to the **Filters** option. Click the **X** on a specific filter to remove it.
2. Click the **Customize** button to edit your HealthVAL summaries for cow and heifer events and/or modify your HealthVAL benchmark settings.
3. **Reference** checkboxes allow you to control which lines are plotted on the graph. Each reference is color-coded to match a specific bar or line on the graph. Check a box to include a plot line on the graph. Uncheck a box to remove a plot line from the graph.
4. Click **Occurrence** to view the reference data in occurrence percentages and include threshold values on the graph, or click **Count** to view the reference data in total counts.
5. If the graph includes data for the current month, the bar is shaded to indicate that data for the month is incomplete.
6. Hover over a bar on the graph to view additional data.

▼ **Related Topics**

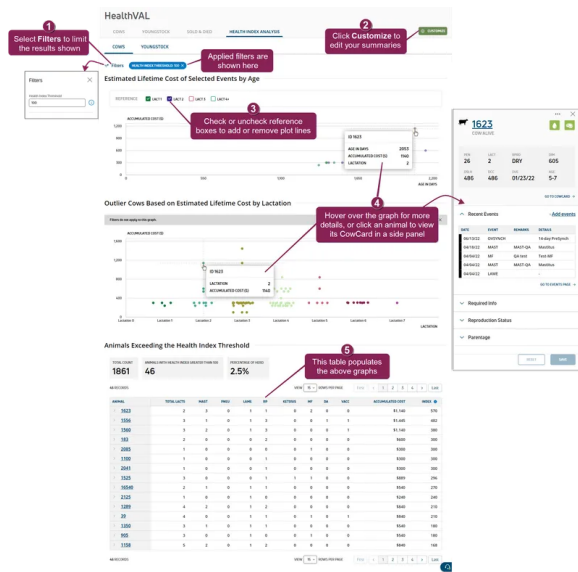
3.3.5. Health Index Analysis

Required Permissions

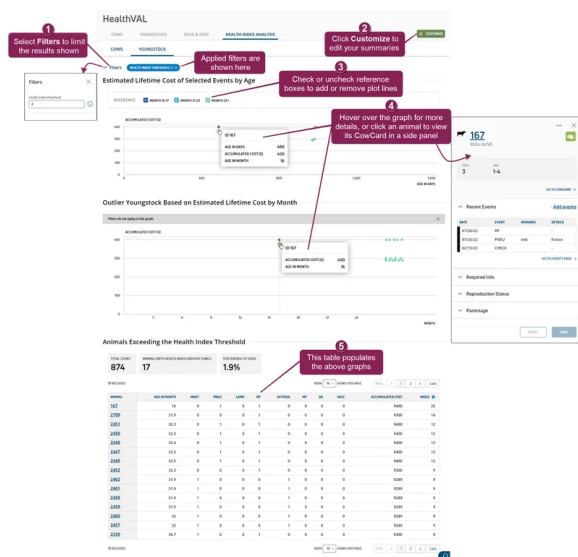
Use the [Health Index](#) Analysis page to review animals that exceed your herd's [Health Index Threshold](#), which is set on the [Customize > Benchmark Settings](#) page.

Animals with a higher Health Index have been diagnosed with more health events than others of similar [age](#), and this summary allows you to quickly identify animals that may need to be culled. For instance, if an early-lactation cow has already had multiple cases of [mastitis](#), her index value will be high, and you may determine that she is susceptible to illness and decide to sell her.

- **Cows:** Health Index Analysis data for all cows by month.



- **Youngstock:** Health Index Analysis data for all youngstock by month.



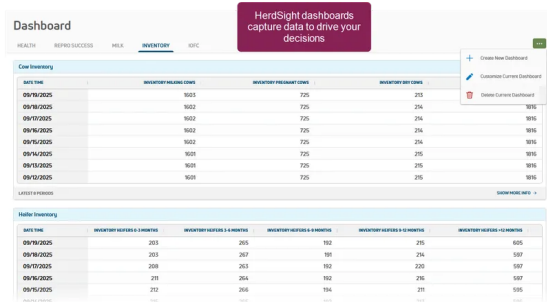
See the guidelines below when reviewing your Health Index Analysis summary:

1. Select **Filters** to open a side panel on the left of the page to filter the list of animals using a threshold value. Once a filter is selected, the current filter applied is displayed next to the **Filters** option. Click the **X** on a specific filter to remove it.
2. Click the **Customize** button to edit your HealthVAL summaries for cow and heifer events and/or modify your HealthVAL benchmark settings.
3. **Reference** checkboxes allow you to control which lines are plotted on the graph. Each reference is color-coded to match a specific bar or line on the graph. Check a box to include a plot line on the graph. Uncheck a box to remove a plot line from the graph.
4. Hover over an animal's data point on the graph to view additional details. Or, click the animal's data point on the graph to open a side panel and view even more details about the animal, including recent events. See [View Animal Details](#) to learn more about the information displayed in the side panel.
5. Scroll down to view the graphed data in a table format.

4. HerdSights

✓ [Click here for a video tutorial on this feature!](#)

HerdSights bring you actionable data to directly support your efforts to reduce feed costs and waste, keep your herd healthy, and improve milk production and quality. Build custom views and dashboards quickly with the help of prebuilt templates, and easily adjust the frequency of how your most critical **KPIs** are reported to best fit your evolving analysis needs. You can find this feature under the [Insights menu](#).



Cow Inventory				
Date	Inventory	Inventory	Inventory	Inventory
09/18/2025	1001	725	215	
09/18/2025	1002	725	214	1076
09/18/2025	1002	725	214	1076
09/18/2025	1002	725	214	1076
09/18/2025	1002	725	214	1076
09/18/2025	1001	725	215	1076
09/18/2025	1001	725	215	1076
09/18/2025	1001	725	215	1076

Herd Inventory					
Date	Inventory	Inventory	Inventory	Inventory	Inventory
09/18/2025	205	205	192	215	1076
09/18/2025	205	207	191	214	1077
09/18/2025	208	203	192	220	1077
09/18/2025	211	204	192	216	1077
09/18/2025	212	206	194	211	1078

TIP: Before you can [add](#) or [view](#) a HerdSights dashboard, you first need to define [Views](#) that include the herd data details that are important to you. Quickly add prebuilt views from the **View Templates** page, or build custom views from scratch! You can also speed up the process of building dashboards by customizing prebuilt views. See [Build a Custom View](#) to learn how to customize and edit your views.

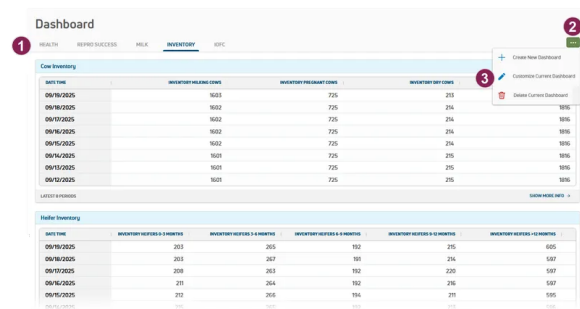
See the topics below to learn more:

- [Manage HerdSights Dashboards](#)
- [Build Views](#)

4.1. Manage HerdSights Dashboards

Required Permissions

HerdSights dashboards include custom views of herd data to provide the insights your team needs to address your herd's specific needs. Whether you're aiming to improve the success of your breeding program, better support transitioning animals, or decrease infections, you can customize your dashboard as needed and easily adjust your views whenever your needs or goals change.



DATE TIME	INVENTORY HERDSIGHTS	INVENTORY PRELIMINARY	INVENTORY DEFECTS
09/18/2025	1621	725	215
09/18/2025	1622	725	214
09/18/2025	1623	725	214
09/18/2025	1624	725	214
09/18/2025	1625	725	214
09/18/2025	1626	725	215
09/18/2025	1627	725	215
09/18/2025	1628	725	215

DATE TIME	INVENTORY HERDSIGHTS & 3 MONTHS	INVENTORY HERDSIGHTS & 6 MONTHS	INVENTORY HERDSIGHTS & 9 MONTHS	INVENTORY HERDSIGHTS & 12 MONTHS
09/18/2025	203	203	192	215
09/18/2025	203	203	192	214
09/18/2025	208	203	192	220
09/18/2025	211	204	192	216
09/18/2025	212	205	194	217

TIP: Before you can [add](#) or [view](#) a HerdSights dashboard, you first need to define [Views](#) that include the herd data details that are important to you. Quickly add prebuilt views from the **View Templates** page, or build custom views from scratch! You can also speed up the process of building dashboards by customizing prebuilt views. See [Build a Custom View](#) to learn how to customize and edit your views.

Expand the sections below to learn more:

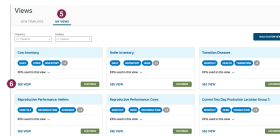
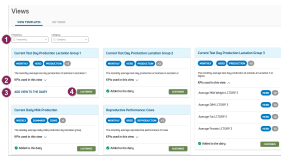
- 1 [View Dashboards](#)
- 2 [Add and Manage Dashboards](#)
- 3 [Customize a Dashboard](#)

NOTE: HerdSights dashboards differ from your standard [Dairy Dashboards](#) that are available in PULSE under the **Dairy** menu.

4.2. Build Views

▼ Required Permissions

The **Views** page includes View Templates, or prebuilt data views, that are commonly tracked in our industry for milk production, health and wellness tracking, successful breeding programs, among other categories. Once saved, your views can be added to dashboards or viewed directly from the **My Views** tab.

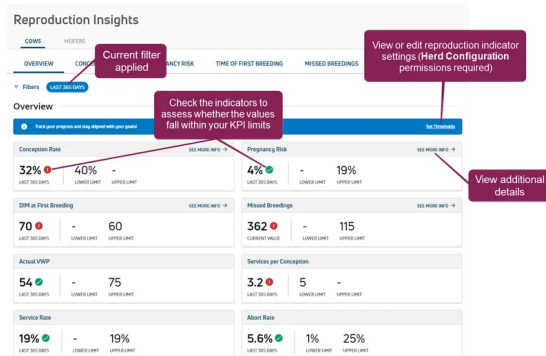


- 1 Use **Filters** to limit the templates shown by Frequency or Category.
- 2 Expand KPIs **used in this view** ▼ to see which KPIs are included in the template.
- 3 ▼ **Add a View from a Template**
- 4 ▼ **Build a Custom View**
- 5 ▼ **My Views**
- 6 ▼ **View Details**
- 7 ▼ **Edit, Export, or Delete View**

6. Reproduction Insights

- ✓ Required Permissions
- ✓ Required Setup
- ✓ [Click here for a video tutorial on this feature!](#)

The Reproduction Insights report tracks cow and heifer reproduction across your herd and allows you to evaluate the overall success of your dairy's breeding program. At a glance, you can assess your herd and see which areas need improvement.



You can find this feature under the [Insights menu](#).

While similar to the **BREDSUM** feature in DairyComp, Reproduction Insights allow you to track [KPIs](#) you've set and quickly determine whether your actual reproduction KPIs fall within your limits.

Click **Set Thresholds** at the top right in the blue bar to view your dairy's current KPIs and edit the limits you want tracked on the Reproduction Insights report. See [Reproduction Indicators](#) for more information.

NOTE: **Set Thresholds** is only available to users with Herd Configuration permissions.

See the topics below to learn more:

- [Overview](#)
- [Conception Rate](#)
- [Pregnancy Risk](#)
- [Time of First Breeding](#)
- [Misled Breedings](#)

6.1. Overview

Use the Reproduction Insights **Overview** page to examine your herd's reproduction trends for the last year, 6 months, or 90 days. Once you set your herd's reproduction thresholds, you'll see reproduction indicators on this page. A green checkmark  or red exclamation point  indicates whether the actual values fall within the [KPI](#) limits you've set.



Indicator	Description
	KPI is lower or higher than the limit(s) currently being tracked.
	KPI is within the limit(s) currently being tracked. When you track an upper and lower limit for a reproduction KPI, the current value must be within the range of both limits to see the  icon.
-	A dash indicates that a limit is not currently being tracked.

If you haven't already, you'll need to set up the reproduction indicators you want to track for your dairy. Click **Set Thresholds** at the top right in the blue bar to view your dairy's current [KPIs](#) and edit the limits you want tracked on the Reproduction Insights report (Herd Configuration permissions required). See [Reproduction Indicators](#) for more information.

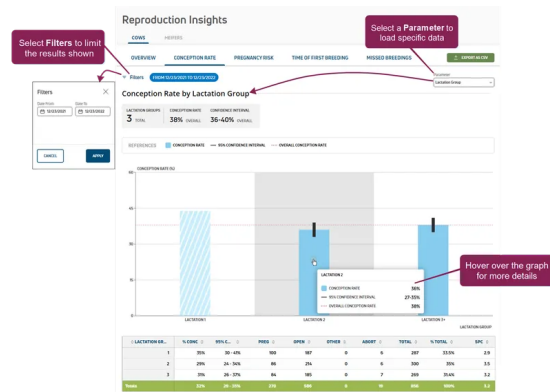
Follow the guidelines below when using this page:

- Click **Filters** at the top left of the page to limit the data that is displayed. You can view data for the last 90, 180, or 365 days. If farms where the animals originated are set up on the [Source Farms](#) page in [Settings](#), you can also filter by source farm when viewing heifer data. Once a filter is selected, the current filter applied is displayed next to the **Filters** option. Click the **X** on a specific filter to remove it. Or, click the **Clear Filter** option to clear all of the filters currently applied. You can find the following reproduction values in the center of the page:
 - Conception Rate:** The herd's overall conception rate, displayed as a percentage. Click **See More Info** to view conception rate details on the [Conception Rate](#) page.
 - Pregnancy Risk:** Your herd's overall pregnancy risk, displayed as a percentage. A higher pregnancy risk indicates a more efficient breeding program. Click **See More Info** to view pregnancy risk details on the [Pregnancy Risk](#) page.
 - DIM/Age at First Breeding:** The average DIM for cows. For heifers, the age in days at first insemination. Click **See More Info** to view DIM or age at first breeding details on the [Time of First Breeding](#) page.
 - Missed Breedings:** The total number of animals that currently have not been bred beyond their bred eligible date. Click **See More Info** to view missed breeding details on the [Missed Breedings](#) page.
 - Actual VWP:** The number of days after calving before a cow is eligible for insemination. The actual VWP is a calculated value based on the 5th percentile of breedings over 14 months of breeding data. See [Pregnancy Risk](#) and [Time of First Breeding](#) for more information.
 - Services per Conception:** The average number of inseminations required for conception. See [Conception Rate](#) for more information.

-
- **Service Rate:** The breeding-eligible-animals that were actually inseminated during a 21-day cycle, displayed as a percentage. See [Pregnancy Risk](#) for more information.
 - **Abort Rate:** The percentage of animals that were confirmed pregnant but later lost the pregnancy. See [Pregnancy Risk](#) for more information.

6.2. Conception Rate

Use the Conception Rate page to examine the factors that impact your herd's conception rate. Click **Filters** at the top left of the page to limit the data that is displayed. Select a specific **Parameter**, such as technician, stud code, heat interval, etc., to view specific results by category.



The gray box at the top of the page summarizes your herd's reproduction data based on your selected **Filters** and **Parameter**:

- **Total:** The total number of conceptions that occurred.
- **Overall Conception Rate:** The herd's overall conception rate, displayed as a percentage.
- **Overall Confidence Interval:** A summarized percentage of the 95th percentile confidence interval. In the example above, the overall confidence interval is 36-40%. This means that you can be 95% confident in a conception rate between 36%-40%.

The **Parameter** option allows you to drill down into your conception rate data so that you can easily identify your dairy's top performers. You can choose from the following options:

- **Lactation Group:** View data sorted by the lactation status of cows in your herd. This parameter is not available for heifers.
- **Technician:** View data sorted by the breeding technicians on your dairy team.
- **Stud Code:** View data sorted by the individual stud codes assigned to sires in your herd.
- **Breeding Code:** View data sorted by the different types of breeding events that occur across your herd.
- **Breed:** View data sorted by the individual sire breeds within your herd.
- **Month:** View data sorted by calendar month.
- **Breeding Cycle:** View data sorted by transitions in your animals' breeding cycles.
- **Heat Interval:** View data sorted by the number of days in your animals' heat cycles.
- **Week Day:** View data sorted by each day of the week.
- **Times Bred:** View data sorted by the number of times your animals were bred.
- **Sires:** View data sorted by sires used by the dairy. Once selected, additional filter options, such as breed, stud code, semen type, etc., are available.

The graphed data helps to visualize your overall conception rate as well as the confidence interval:

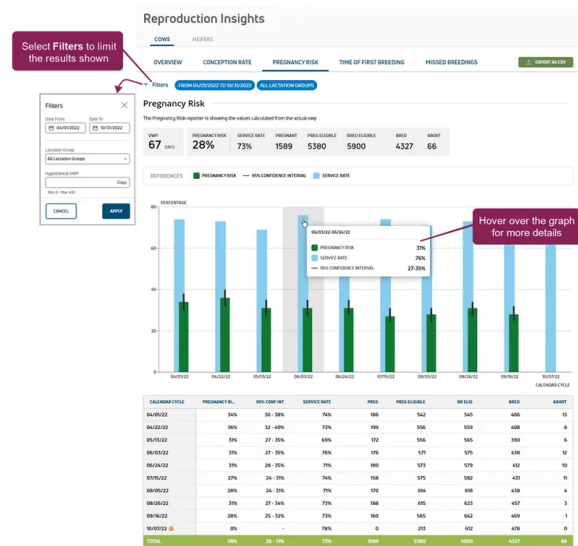
- **References:** Each reference is color-coded to match a specific bar or line on the graph.
- The black "wick" represents a 95% confidence interval (CI) for the conception rate shown by the bar. For instance, if the wick reflects a 95% CI of 27-35, you can be 95% confident in a conception rate between 27%-35%.

-
- If there is not enough data to calculate a 95th percentile confidence interval, the bar is shaded and the  icon is displayed in the table below the graph.
 - Hover over a bar on the graph to view additional data.
 - Scroll down to view the graphed data in a table format.

Once the data is displayed, click the green **Export as CSV** button  at the top right of the page to save the data as a CSV file. If you applied filter(s), the data will print with the current filter(s) and parameter applied.

6.3. Pregnancy Risk

Use the Pregnancy Risk page to examine the factors that impact your herd's pregnancy risk. Click **Filters** at the top left of the page to limit the data that is displayed.



The gray boxes at the top of the page summarize your herd's reproduction data based on your selected **Filters**:

- **VWP:** The minimum number of days after calving before a cow is eligible for insemination.
- **Pregnancy Risk:** Your herd's overall pregnancy risk, displayed as a percentage. A higher pregnancy risk indicates a more efficient breeding program. PULSE includes the statistics displayed in the gray box to calculate your herd's overall pregnancy risk. In the example above, the pregnancy risk is 28%. This means that, on average, 28% of the eligible cows actually became pregnant in a 21-day cycle.
- **Service Rate:** The breeding-eligible-animals that were actually inseminated during a 21-day cycle, displayed as a percentage.
- **Pregnant:** The number of animals currently pregnant.
- **Preg Eligible:** The number of animals entering the 21-day interval that are eligible to become pregnant.
- **Bred Eligible:** The number of animals entering the 21-day interval that are eligible to be inseminated. An eligible animal is defined as having passed the voluntary waiting period, is not currently pregnant, and is active in the reproductive program.

✓ Tell me more about Bred Eligible and Preg Eligible!

- **Bred:** The number of animals actually inseminated.
- **Abort:** The animals that were confirmed pregnant but later lost the pregnancy.

The graphed data helps to visualize your overall pregnancy risk as well as the confidence interval:

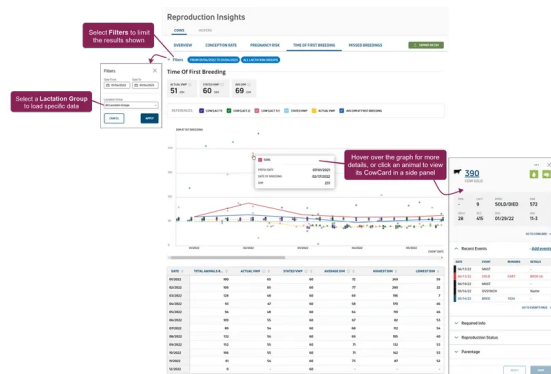
- **References:** Each reference is color-coded to match a specific bar or line on the graph.
- The black "wick" represents a 95% confidence interval (CI) for the pregnancy risk shown by the bar. For instance, if the wick reflects a 95% CI of 27-35, you can be 95% confident in a pregnancy risk between 27%-35%.
- If there is not enough data to calculate a 95th percentile confidence interval, the **i** icon is displayed in the table below the graph.
- Hover over a bar on the graph to view additional data.

- Scroll down to view the graphed data in a table format.

Once the data is displayed, click the green **Export as CSV** button  at the top right of the page to save the data as a CSV file. If you applied filter(s), the data will print with the current filter(s) applied.

6.4. Time of First Breeding

Use the Time of First Breeding page to examine your herd's monthly breeding statistics at the time of first insemination. Click **Filters** at the top left of the page to limit the data that is displayed.



The gray boxes at the top of the page summarize your herd's reproduction data based on your selected **Filters**:

- **Actual VWP:** The number of days after calving before a cow or heifer is eligible for insemination based on the bottom 5th percentile of [DIM](#) for cows or [age](#) for heifers. The actual VWP is a calculated value based on the 5th percentile of breedings over 14 months of breeding data.
- **Stated VWP:** The number of days that should pass before another reproductive event is entered for cows based on your dairy's standard [voluntary wait period](#) policy.
For heifers, the minimum age before entering a BRED event based on your dairy's [minimum age for heifer breeding](#) converted to days.
The **Stated VWP** and the **Actual VWP** allow you to see if your breeding program is deviating from your dairy's standard policy.
- **AVG DIM/Age:** The average DIM for cows. For heifers, the age in days at first insemination based on the average age at first breeding.

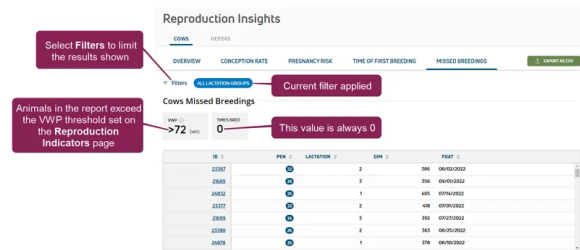
The graphed data helps to visualize your herd's monthly breeding statistics:

- **References:** Each reference is color-coded to match a specific bar or line on the graph. Uncheck a box to remove a plot line from the graph.
- Hover over an animal's data point on the graph to view additional details. Or, click the animal's data point on the graph to open a side panel and view even more details about the animal, including recent events. See [View Animal Details](#) to learn more about the information displayed in the side panel.
- Darker data points on the graph indicate that more than one animal is plotted at the same point.
- Scroll down to view the graphed data in a table format.

Once the data is displayed, click the green **Export as CSV** button  at the top right of the page to save the data as a CSV file. If you applied filter(s), the data will print with the current filter(s) applied.

6.5. Missed Breedings

The animals that currently have not been bred beyond their bred eligible date can be viewed on the **Missed Breedings** page. Click **Filters** at the top left of the page to limit the data that is displayed



Reproduction Insights

OVERVIEW CONCEPTION RATE PREGNANCY RISK TIME OF FIRST BREEDING MISSED BREEDINGS EXPORT RESULTS

Select Filters to limit the results shown

Current filter applied

Animals in the report exceed the VWP threshold set on the Reproduction Indicators page

Cows Missed Breedings

VWP: 72

Times Bred: 0

This value is always 0

ID	PEN	LACTATION	BRED	FIRST
22387	2	366	06/05/2022	
22689	3	376	06/05/2022	
24853	1	406	07/16/2022	
22327	2	436	07/09/2022	
22699	3	352	07/07/2022	
22380	2	363	06/05/2022	
24876	1	376	06/16/2022	

The gray boxes at the top of the page summarize your herd's reproduction data based on your selected **Filters**:

- **VWP**: Identifies the dairy's VWP setting. Animals are included in the Missed Breedings report if their VWP has ended and they have not yet been bred. You can set your dairy's limit for the number of animals with missed breedings using the **Missed Breedings - Animal Count** threshold on the [Performance Indicators](#) page.
- **Times Bred**: The number of times bred is always 0.

Once the data is displayed, click the green **Export as CSV** button  at the top right of the page to save the data as a CSV file. If you applied filter(s), the data will print with the current filter(s) applied. Click on an animal's **ID** in the table to open a side panel and view its details. See [View Animal Details](#) to learn more about the information displayed in the side panel.

7. RumINSIGHT Report

✓ Required Permissions

✓ Required Setup

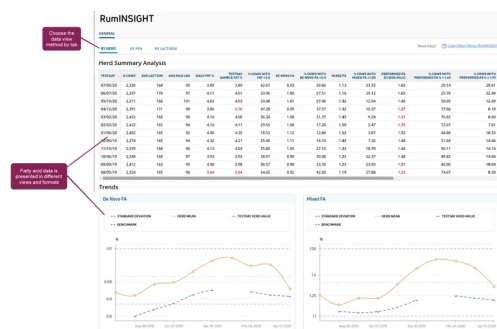
The RumINSIGHT report provides dairies that process with VAS/AgSource insight into the fat-related components in their milk production. Milk fat is comprised of different types of fatty acid, which the RumINSIGHT report organizes into distinct categories to make the information easier to visualize. For more information, see [RumINSIGHT Report](#). You can find this feature under the [Insights menu](#).

The amount of fat in the milk your dairy produces impacts the amount you're paid for that milk. Milk fat is comprised of different types of fatty acids, which can be categorized into three main groups:

- **De novo** fatty acids originate from the production of the chemicals butyrate and acetate in the rumen (the largest stomach compartment of a cow), and so are an indicator of rumen functioning. De novo fatty acids are the greatest driver of bulk tank butterfat.
- **Mixed** fatty acids originate from the diet or from synthesis within the cow.
- **Preformed** fatty acids are derived from the diet or adipose tissue (i.e., fat tissue) from the cow. In early lactation, preformed fatty acid levels are typically high in the milk as cows utilize their body fat to meet the energy needs for milk production.

Data for the three fatty acid groups of the RumINSIGHT report, along with related information (such as the number of cows, days in milk, etc.), is organized into distinct categories to make the information easier to visualize. These categories are presented in the following tabs:

- The **By Herd** tab displays both summary and trend data for the three fatty acid types for the entire herd. It also presents general fat and protein data. See [View RumINSIGHT Data by Herd](#).
- The **By Pen** tab displays detailed fatty acid data for each pen. See [View RumINSIGHT Data by Pen](#).
- The **By Lact/DIM** tab displays detailed fatty acid data broken down by lactation and stage of lactation. See [View RumINSIGHT Data by Lactation and DIM](#).



7.1. View RumINSIGHT Data By Herd

✓ Required Permissions

Click the **By Herd** tab on the RumINSIGHT report to view testing data for the entire herd. The top of the page contains a summary of the data by test day. Beneath that are graphs showing the production trend of the three main fatty acid types (de novo, mixed, and preformed), as well as graphs regarding herd fat and protein.

Expand the sections below to learn more:

✓ Herd Summary Analysis Table

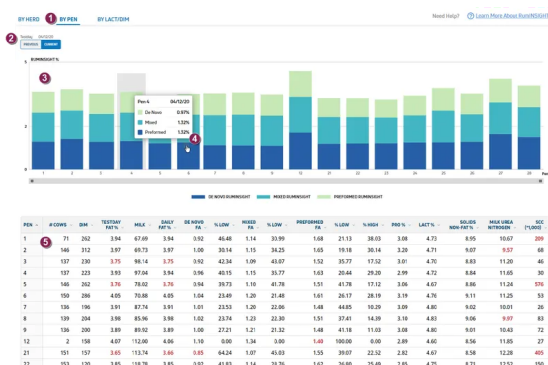
✓ Trend Graphs

✓ Herd Fat and Protein Combined Graph

7.2. View RumINSIGHT Data By Pen

Required Permissions

Click the **By Pen** tab on the RumiINSIGHT report to view detailed fatty acid test results for the most current and previous test days, broken down by individual pens. Use the image and descriptions below to learn how to use the information on this page.



1. **By Pen tab:** Select this tab to view the fatty acid test data by pen.
2. **Testday selector:** Click the applicable button to view fatty acid data for the **Current** or **Previous** testday. The data in the graph and chart changes accordingly.
3. **RumINSIGHT % graph:** This graph provides a visual representation of fatty acid test results for the test day selected (i.e., current or previous), broken down by pen number. Pen numbers appear along the bottom of the graph. The three types of fatty acid are represented by a different color in the graphing bar for each pen, according to the color legend beneath the graph.
4. **Fatty Acid % graph details:** Hover your cursor over a specific bar in the graph to view the exact percentage amount for each type of fatty acid.
5. **Pen chart:** This chart provides a detailed breakdown of fatty acid and related values for each pen. Data includes the number of cows per pen, the amount of milk produced, etc. Data values of concern (i.e., warnings) are shown in red.

7.3. View RumINSIGHT Data by Lactation and DIM

Required Permissions

Click the **By Lact/DIM** tab on the RumINSIGHT report to view detailed fatty acid test results organized by Days in Milk (DIM) and lactation groups. Use the image and descriptions below to learn how to use the information on this page.

BY DIM BY DIM BY LACTATION

Breakdown by Stage of Lactation

DIM	# DIMS	MEAN MILK FAT %	MEAN BUTYR %	TESTOSTERONE SAMPLE (PPM)	CE-MEDIA (G/100ML)	MEAN DA (G/100ML)	PROTEIN (G/100ML)	PHOSPHORUS (G/100ML)	PROTEIN %	LACTOSE %	SOLIDS (G/100ML)	MEAN DA (G/100ML)	CE (PPM)
0-15	84	8.6	4.64	0.64	1.14	1.03	1.83	0.03	0.03	0.03	0.03	0.03	0.03
16-30	227	10.5	4.17	0.66	1.01	1.35	1.48	0.05	0.78	0.07	0.03	0.03	0.03
31-45	200	11.6	3.93	0.61	0.98	1.34	1.27	0.09	0.67	0.03	0.03	0.03	0.03
46-75	201	11.6	3.83	0.73	0.97	1.34	1.15	0.07	0.76	0.03	0.03	0.03	0.03
76-105	495	10.8	3.71	0.61	0.92	1.35	1.17	0.16	0.76	0.03	0.03	0.03	0.03
106-135	861	10.2	3.73	0.61	0.92	1.35	1.16	0.12	0.76	0.03	0.03	0.03	0.03
136-165	338	9.7	3.77	0.67	0.93	1.29	1.23	0.23	0.71	0.03	0.03	0.03	0.03
166-195	317	8.4	3.83	0.73	0.93	1.28	1.21	0.34	0.66	0.16	0.03	0.03	0.03
196-225	247	7.6	4.05	0.83	0.97	1.23	1.26	0.45	0.66	0.23	0.03	0.03	0.03

Breakdown by Lactation

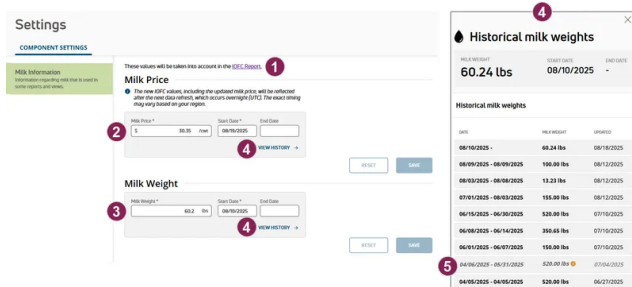
DIM	# DIMS	MEAN MILK FAT %	MEAN BUTYR %	TESTOSTERONE SAMPLE (PPM)	CE-MEDIA (G/100ML)	MEAN DA (G/100ML)	PROTEIN (G/100ML)	PHOSPHORUS (G/100ML)	PROTEIN %	LACTOSE %	SOLIDS (G/100ML)	MEAN DA (G/100ML)	CE (PPM)
0-15	32	9.6	4.74	0.64	1.09	1.01	1.81	0.03	0.03	0.03	0.03	0.03	0.03
16-30	83	7.9	4.26	0.95	0.96	1.34	1.41	0.19	0.65	0.03	0.03	0.03	0.03
31-45	72	9.6	4.17	0.66	1.01	1.35	1.27	0.09	0.67	0.03	0.03	0.03	0.03
46-75	69	10.2	4.16	0.66	1.08	1.35	1.20	0.22	0.63	0.15	0.03	0.03	0.03
76-105	157	8.9	3.93	0.61	0.91	1.41	1.11	0.26	0.62	0.23	0.03	0.03	0.03
106-135	126	8.9	3.93	0.66	1.04	1.46	1.11	0.26	0.78	0.27	0.03	0.03	0.03

- By Lact/DIM tab:** Select this tab to view the fatty acid test data organized by Days in Milk (DIM) and lactation groups.
- Lactation Stage chart:** This chart provides detailed fatty acid data and related values grouped by DIM *for all lactation groups*. Data values of concern (i.e. warnings) are shown in red.
- Lactation group selector:** Click the applicable button to choose which lactation group's data displays in the Lactation Breakdown chart.
- Lactation Breakdown chart:** This chart provides detailed fatty acid data and related values broken down by lactation group. Data values of concern are shown in red.

8. Insights Settings

Required Permissions

The **Settings** page allows you to configure Insights reporting options, including those for the [Income Over Feed Cost Report](#).



You can find this feature under the [Insights menu](#).

Milk Information

The Milk Information settings display by default. View or enter milk details as follows:

- 1 **IOFC Report:** Click the link to view the current [Income Over Feed Cost Report](#).
- 2 **Milk Price:** Enter the milk price for a specific timeframe. Milk prices can fluctuate depending on several factors, including the composition of your herd's bulk milk and market demand. In the US, milk prices are based on CWT (hundredweight), or 100 pounds of milk.

TIP: For the most up-to-date [IOFC](#) value, enter your latest pricing before running the [Income Over Feed Cost Report](#). PULSE will update the price for the IOFC calculation in the next data refresh, which occurs every 24 hours. To view the current milk price being used for the IOFC calculation, hover over the info icon next to the IOFC value .

\$20.70

\$/head/day

Hover to view calculation details

Milk Price	\$2381.00 /cwt
Daily Milk Production	87 lbs /head
Daily Feed Cost	\$0.01 /head

Click here to learn more about milk components and pricing!

- 3 **Milk Weight:** Enter the total milk weight produced by the herd for a specific timeframe. If necessary, this value can be used to calculate IOFC.

TIP: For the most accurate IOFC value, use your herd's daily milk values or test day data as the basis for the [Income Over Feed Cost Report](#).

- 4 **View History:** Click this option to view past price or weight details in a side panel.

- 5 **Estimated Data:** For any dates missing price or weight data, PULSE estimates values based on previous records.

