Beef Marketing Program (BMP) User Training

What is Covered in this Presentation?

- TSR & Contact Information
- In-Pen Weighing Hardware
- In-Pen Weighing Maintenance
- DAQ Software
- Daily Procedures
- Troubleshooting
- Beef Marketing Program Procedures
- Data Submission and Reporting

TSR & Contact Information

Technical Support Representative (TSR)

- Post installation, the TSR team is your main point of contact.
- The TSR is responsible for ensuring proper system function of the Vytelle SENSE™ system (previously known as the GrowSafe System).
- When the system is on trial the TSR remotely monitors the system during business hours.
- If an issue arises a TSR will assign an action item that needs to be carried out as soon as possible to limit data loss.

Technical Support Contact Information

- support@Vytelle.com
- North American toll free: 1-866-620-3015 ext. 1
- Trial notes program and Action Item's program (located on the DAQ software. Note: any notes left on the DAQ software is uploaded every 24 hours, so the TSR will not instantaneously receive the note. If an immediate response is required please use email or phone)
- For data analytical questions or requests please email support@Vytelle.com

Technical Support Help Desk Hours

- Monday through Friday, 7:00 am to 5:00 pm (MST), excluding Canadian statutory holidays
- For the quickest response, email or call the TSR team.
- Systems are not monitored on weekends or outside of business hours. To avoid potential data loss outside of business hours we suggest the following:
  - Have someone physically check the DAQ computer on the weekends, to ensure that the computer is on, connected to the internet, the DAQ software is running, and no positions are in error.
  - Use a remote desktop application to remotely access the computer periodically on the weekends – to ensure that the computer is on, connected to the internet and the software is running.
  - Use a system monitoring application to monitor the computer and notify you of any issues.
- If you have a question or concern after hours, please leave a detailed voicemail, email or trial note and a TSR will respond the following business day.

In-Pen Weighing Hardware

The following section outlines Vytelle SENSE™ 8000 In-Pen Weighing Hardware that is used for Monitoring Feedlot Cattle

In Pen Weighing (IPW) System

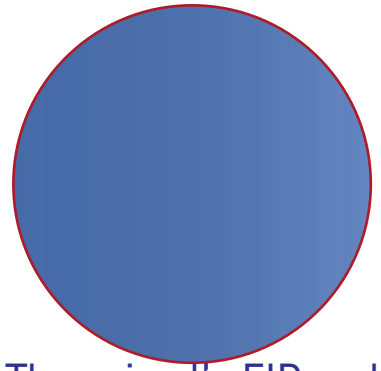
- Measures individual animal daily body weight and gain.
- Monitors water or supplement trough behaviour for each animal.
- Formally referred to as GrowSafe Beef or GSB
  - Software programs on the DAQ associated with IPW are labelled as GSB

How the IPW System Works

Each animal is tagged with a half duplex tag.

The animal places its head through the IPW neck bars to consume. Concurrently, the antenna reads the animal's EID tag

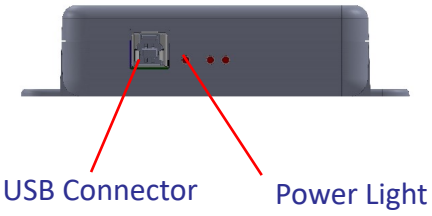
Each second that the animal is at the IPW position the animal's partial body weight is measured.



The animal's EID and partial body weight information is collected and transmitted to the DAQ computer via the Data Hub.

Data Hub

- Collects data from the DAQ Panel
- Transmits data to the computer
- Non serviceable, cannot be repaired
- Power LED indicator light (located on bottom of the DATA Hub closest to the USB connection):
  - Must always be powered on
  - If off = issue with data hub, or connection with computer

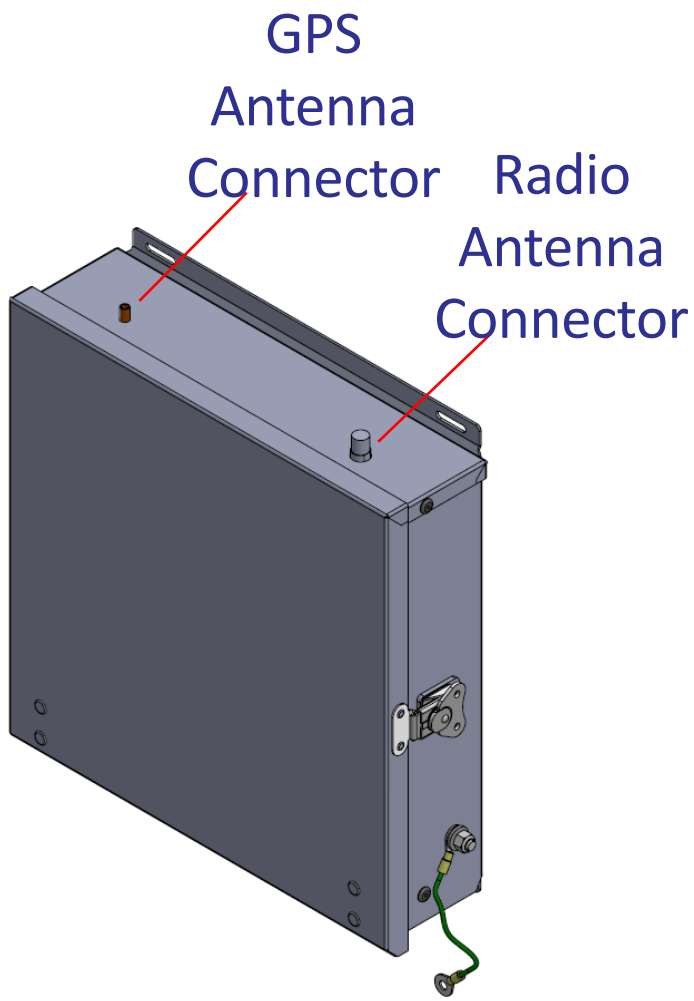


DAQ (Data Acquisition) Computer

- Records data that is collected by the data hub
- Vytelle DAQ software is installed on the DAQ computer – this software is used to communicate with the hardware installed in the pens
- Uploads select 24-hour increments of data to the Vytelle server at 06:00 am local time
- Must be powered on, connected to the internet and have DAQ Software running

DAQ Panel

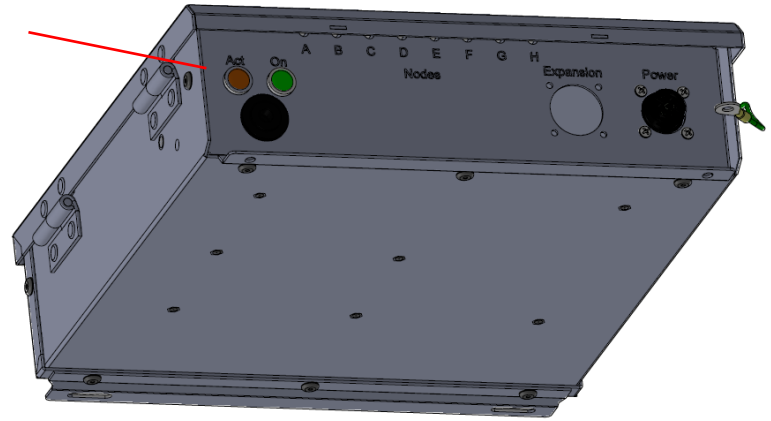
- Gathers weight + EID data from RTU
  - Transmits wirelessly (via line of sight) to the Data Hub
- Collects data every second from every node / position
- Fuse located inside the DAQ panel to protect panel from power surges
- DAQ status lights
- Channel status lights

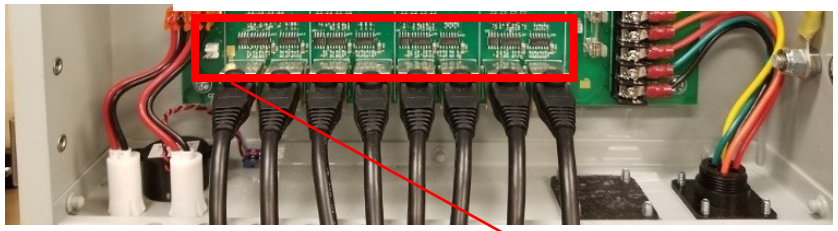


DAQ Panel – LED Indicator Lights

- DAQ status lights
  - Green LED light indicates GPS status
    - Solid green indicates there is GPS connection
    - Flashing green indicates that the GPS location cannot connect
    - Flashing green + beep indicates that there is a power error detected at the DAQ panel
  - Orange LED light indicates DAQ status
    - 0.5 sec flashing interval indicates that the DAQ panel is collecting data properly
    - Anything else indicates that the DAQ panel is in error (will see as red bars on DAQ software)
- Channel status LED lights (located inside the panel)
  - Flashing indicates that the position is collecting data
  - Not flashing indicates that the position is not collecting data. This could be an issue with data cable (unplugged or damaged) or an issue with the RTU.

DAQ Status Lights

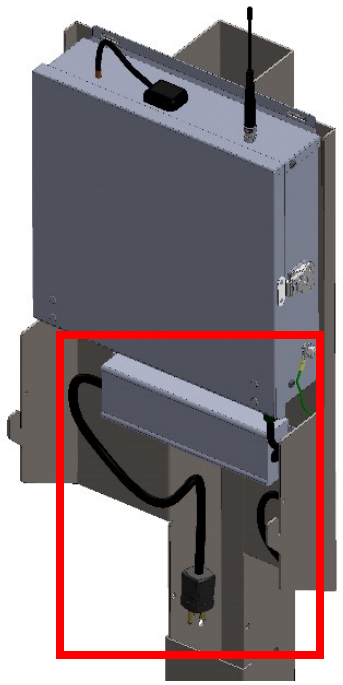




Channel Status Lights (inside panel)

Power Supply

- Provides power to the entire system
- When welding on or near the Vytelle system ensure the power supply in unplugged



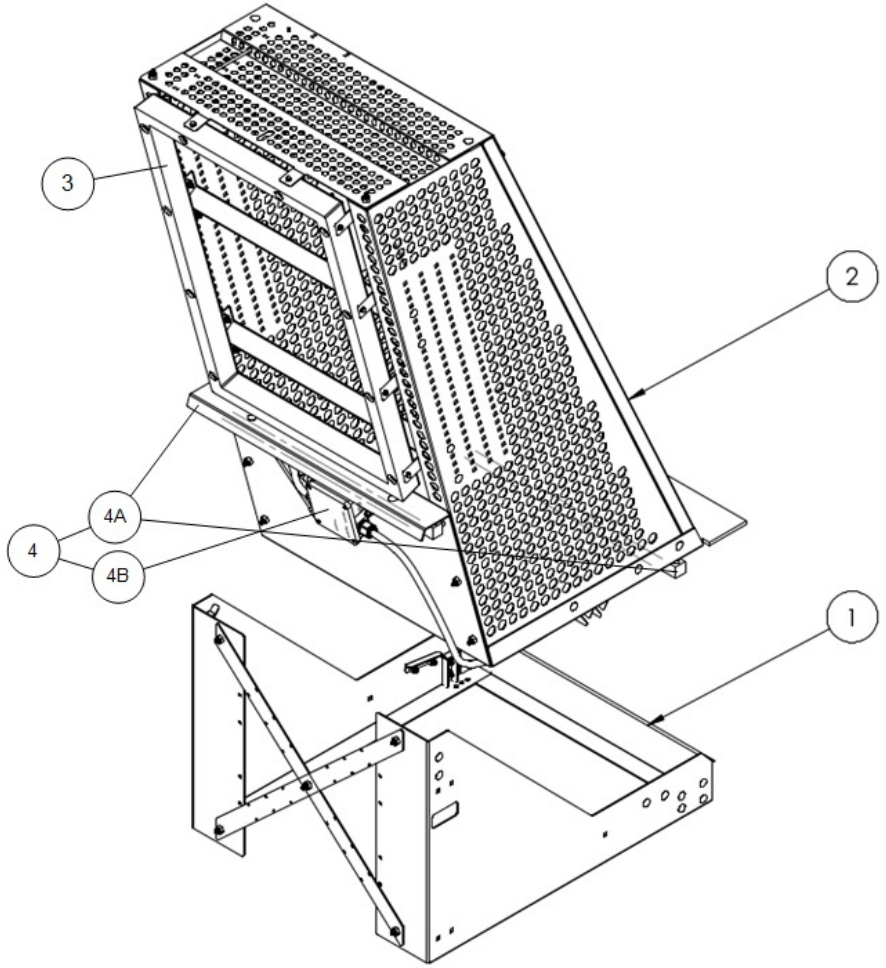
Data Cable

- Transfers weight and EID data to the DAQ panel
- 8000 Data Cables are typical Cat5 cables with a special shielding and waterproof connector
  - Spare data cable of longest length in tool box (request replacement cables from TSR)
  - In the event of an issue, data cable can be replaced with standard Cat5 cable
- Ensure cable ties and correct installation are followed to avoid animal chewing cables and cables rubbing. Cables damaged by animals, rubbing on metal work or chewing are not covered by warranty.

Test Wand

- Used to calibrate system (part of GSB pre-trial check list or when exchanging RTUs)
- Used for troubleshooting EID tag read issues
  - Not necessarily required for daily function
- Typical half duplex RFID tag located under the black cover
- RFID tag # is entered into the DAQ configuration setup window
- DAQ software is programmed to identify the test wand with an audible beep or spray if utilized with an IPW spray system

IPW Hardware Components



	IPW Position
1	IPW Frame
2	IPW Scale
3	IPW RFID Antenna
4	IPW RTU (Remote Terminal Unit) • 4A – IPW Load Bars • 4B – IPW RTU Junction Box

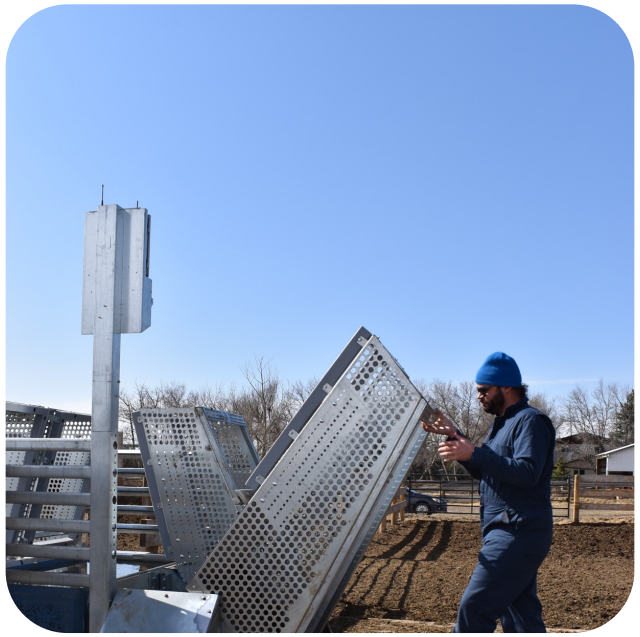
IPW Maintenance

The following section outlines maintenance procedures for Monitoring Cattle using In-Pen Weighing (IPW) Positions

IPW – General Maintenance Tips

- Check for manure buildup on top of the IPW scale(s), under the scale(s) and under the rubber mat lip.
- Using a shovel remove any excess dirt or debris.

IPW Service Position



DAQ Software

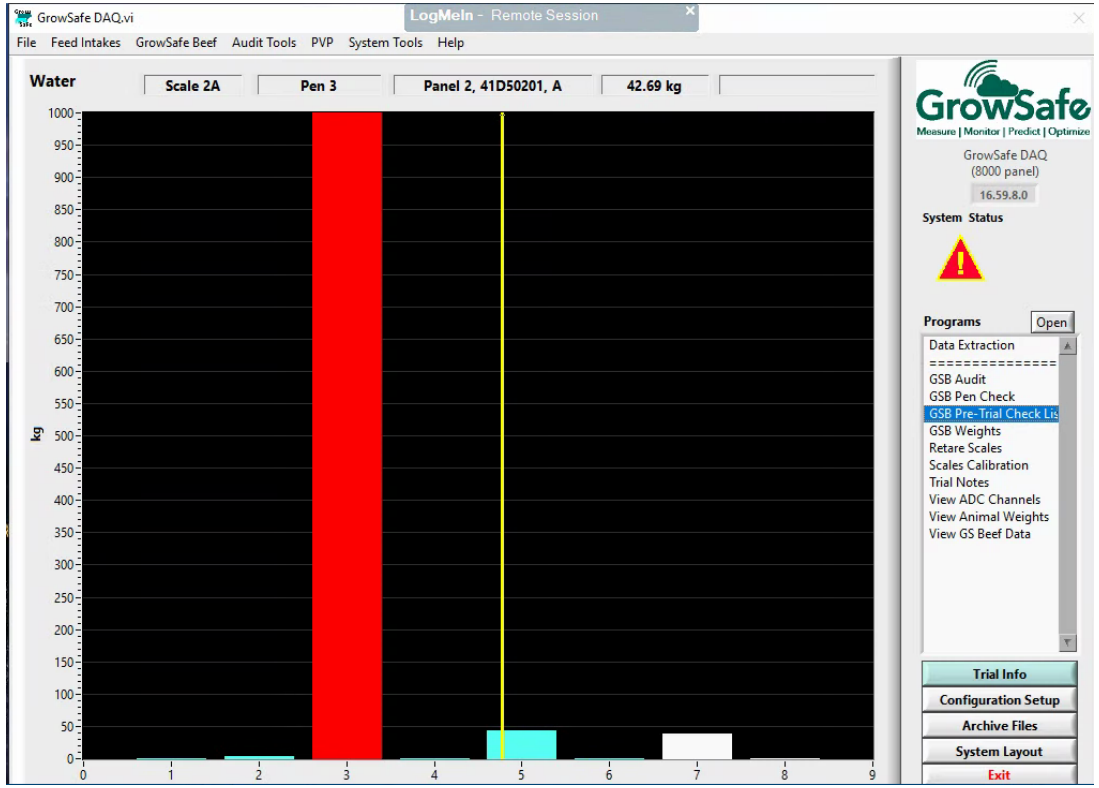
The following section outlines the DAQ Software Programs that are used for Monitoring Cattle using In-Pen Weighing (IPW) Positions

Remote Computer Access

- TSR utilizes a program called LogMeIn to remotely login and monitor the Vytelle SENSE system during normal business hours.
- Notify TSR if the LogMeIn or DAQ Computer username or password is changed.
- Due to licensing LogMeIn is limited to TSR use only. If you are interested in remote computer access, please speak with your IT department for alternative remote access programs (such as TeamViewer).

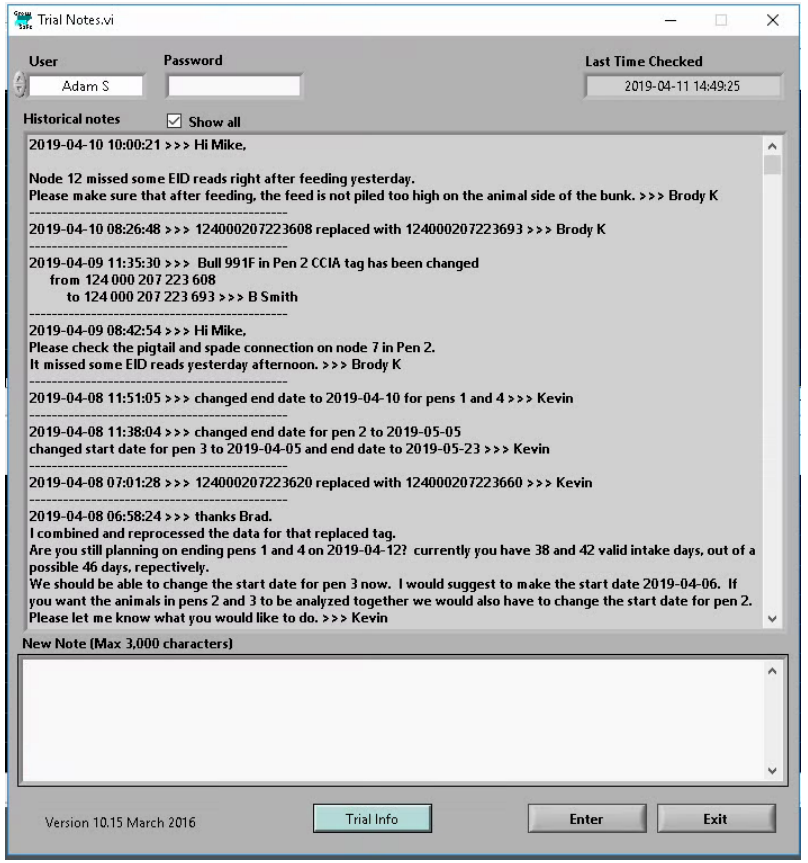
DAQ Home Screen

- This is the DAQ home screen. You can see what is happening in the pens in real-time.
- IPW Display:
  - Red indicates an IPW position is in error.
  - Blue indicates that an animal is standing on an IPW scale.
  - White indicates that the IPW position is not on trial.
- System Status:
  - Green check mark indicates that the system is functioning properly.
  - Red triangle with exclamation mark indicates that there is an issue with system.



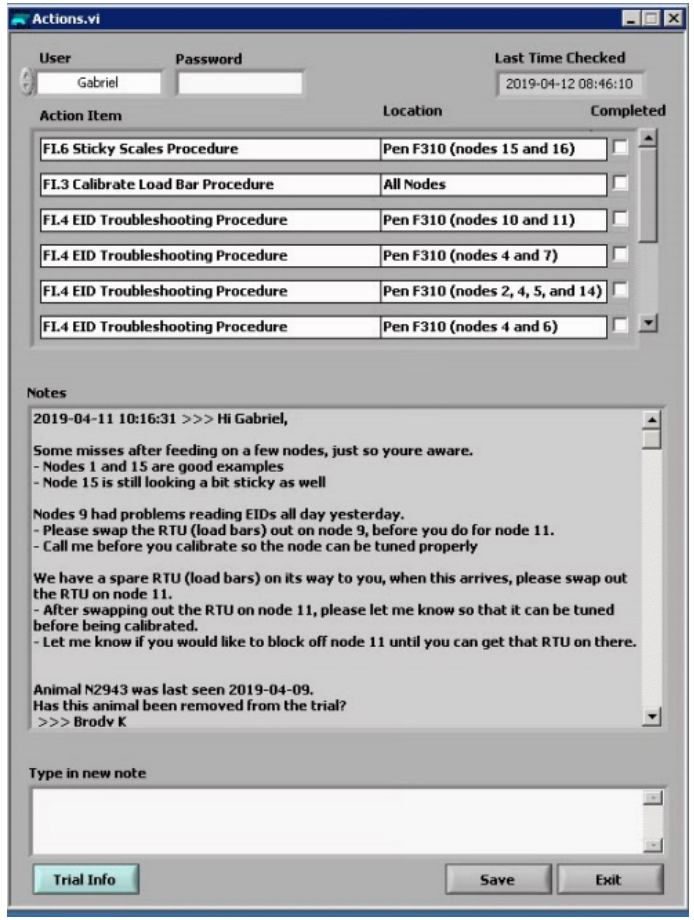
Trial Notes Program

- Trial Notes program is a communication tool for system users and TSR's
- New notes will populate at top of screen
- **Last Time Checked** indicates the last time TSR verified the system
- **Trial Info** button indicates feed intake trial progress (not used for IPW system)



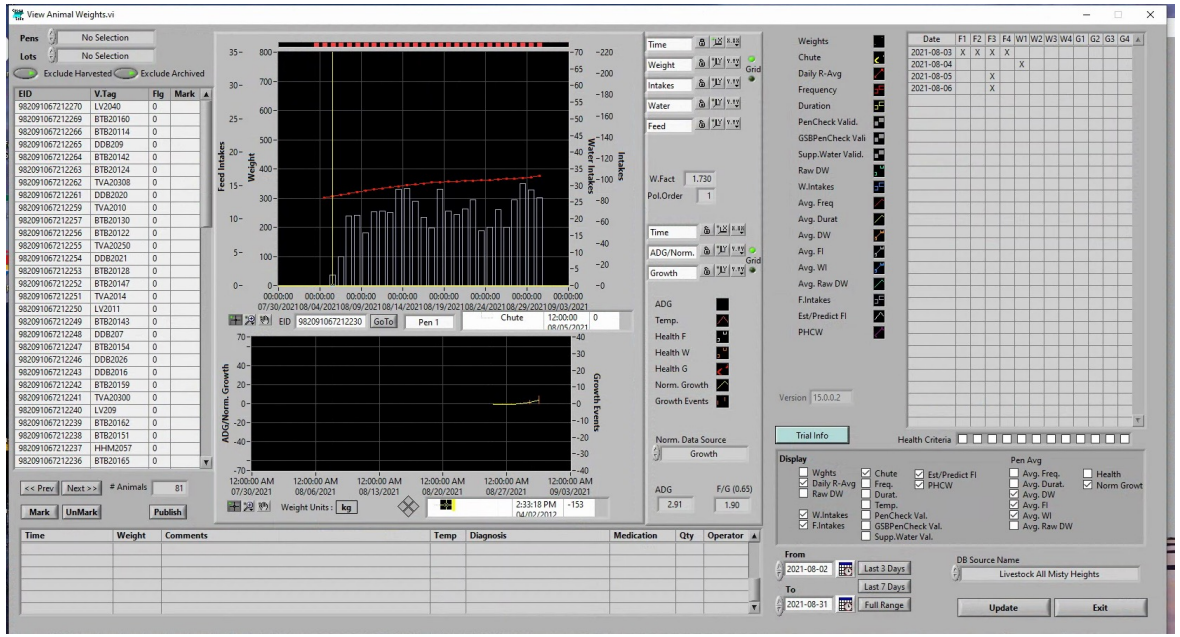
Action Items Program

- The Action Items program is a tool used to assign troubleshooting procedures or notes for system users.
- Action Items should be completed as soon as possible to ensure data loss is kept to a minimum.
- Double click the action item for detailed instructions.
- Notes entered on trial notes will show up on action items and vice versa.



View Animal Weights Program

- This **View Animal Weights** program can be used to track the body weights and growth rates of all animals in a pen with an In-Pen Weighing system and compare their weights to the averages of the pens.



View Animal Weights Program

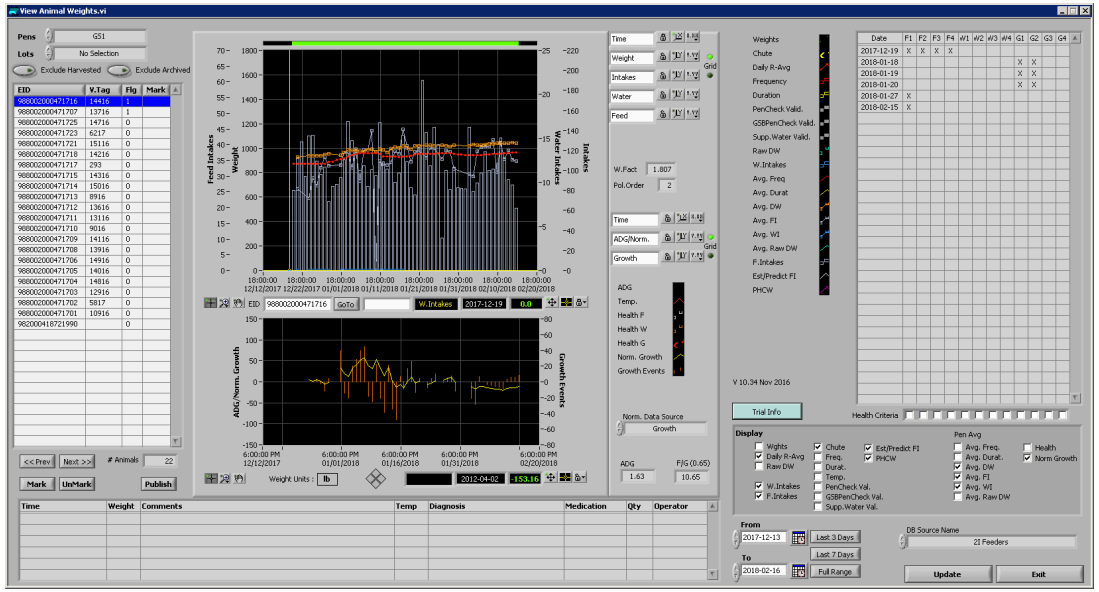
- The View Animal Weights program can be used to complete the following tasks:
  - Monitor Body Weights and Growth Rates:
    - Select pens that you want to monitor weights on
    - Scroll through the individual weights and performance of each animal in the pen and compare it to the pen average. Animals with behavior and/or weight flags will be displayed at the top of the list. If feed intakes are being collected using the feed intake system, feed intakes and flags will also be displayed in the application.
  - Animal Weight and Drinking Behavior Flags (detailed slide here)
  - Remote Animal Marking:
    - Animals listed in each In-Pen Weighing Position pen can be selected to be marked via the onboard marking system. Marking cattle allows them to be easily identified in the pen for sorting.
    - The 'Mark' column in the View Animal Weights table shows the animals that have been selected for marking, and the animals that have been marked.
    - The View Animal Weights program can also be used to unmark animals that no longer need to be sorted from the pen.

Animal Weight and Drinking Behavior Flags

- Weight flags shown in the animal data table indicate the following change in animal weight and behavior:

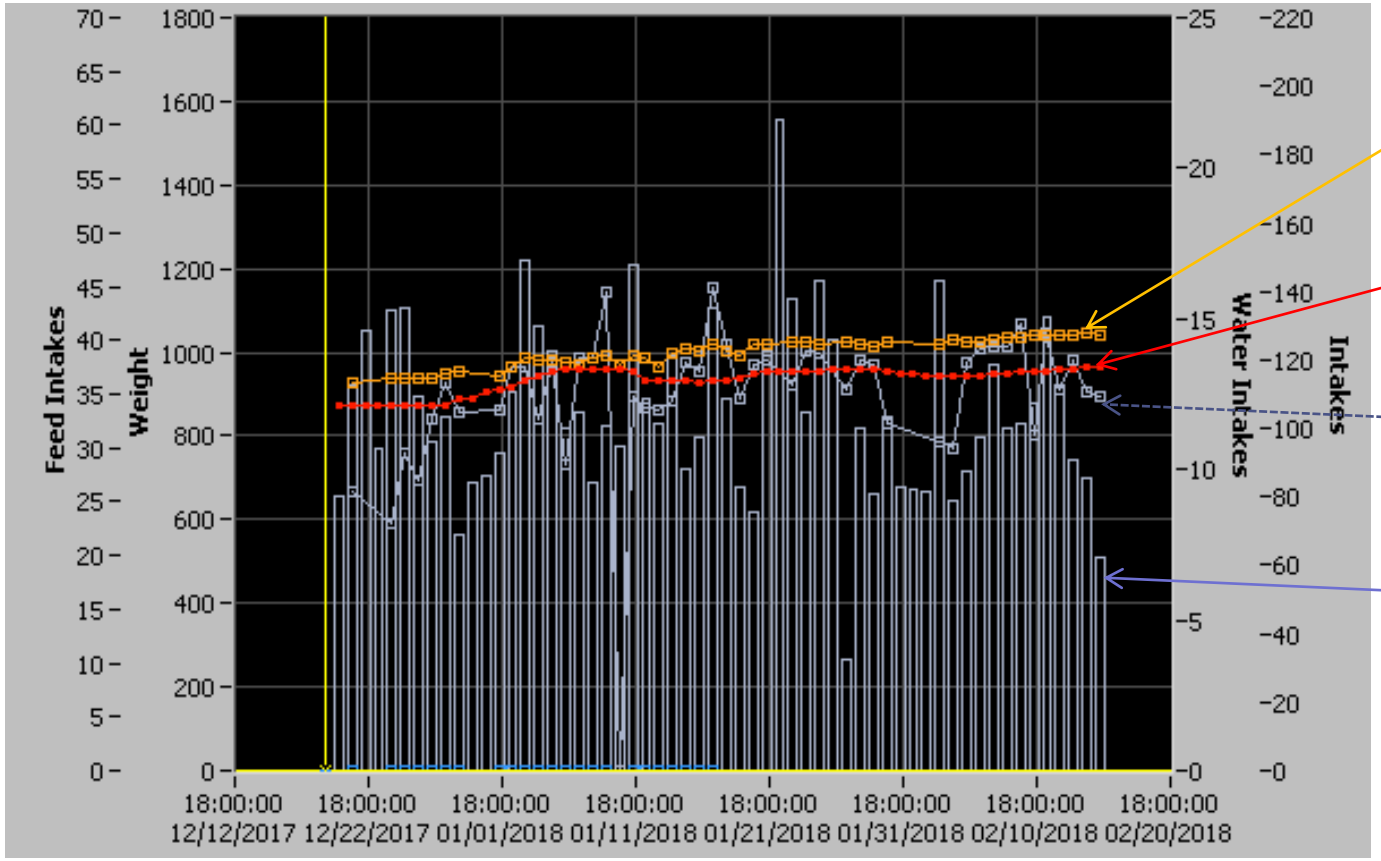
In-Pen Weighing and Behavior Flags:	
G1	Rapid Weight Loss vs Pen Average: min. 20kg loss over consecutive days
G2	Rapid Weight Loss vs Pen Average: min. 30kg loss over consecutive days
G3	Animal Growth Rate Difference vs Pen Average: min. 50kg difference
G4	Animal Growth Rate Difference vs Pen Average: min. 80kg difference
G1, G2, G3 & G4 – always compare animal average growth weight data with pen average growth weight data.	

How to Use the View Animal Weights Program



1. Set time frame,
2. Select Pen, and
3. Select Update

View Animal Weights Graph



Pen Average Body Weight

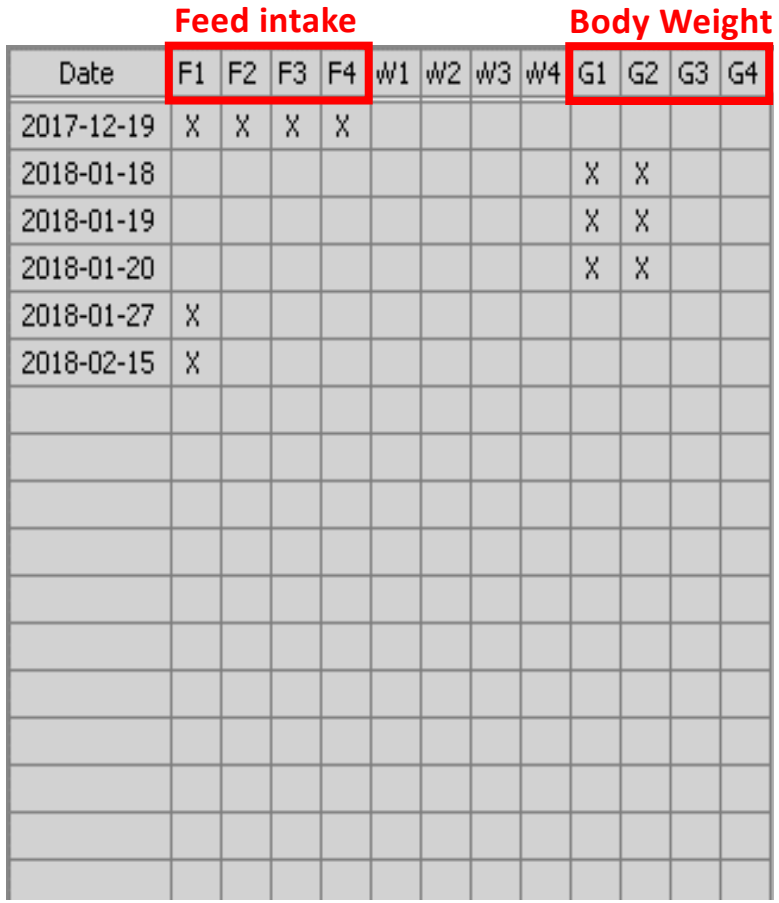
14 day Individual's Body Weight

~~Trend in~~ pen average feed intake

Individual's Daily Feed Intake

*Systems that only have IPW will not see the daily feed intakes

View Weights – Flag Criteria



	Feed intake								Body Weight			
Date	F1	F2	F3	F4	W1	W2	W3	W4	G1	G2	G3	G4
2017-12-19	X	X	X	X								
2018-01-18									X	X		
2018-01-19									X	X		
2018-01-20									X	X		
2018-01-27	X											
2018-02-15	X											

Feed Intake Flags
(do not initiate until the individual is more than 40 % below pen average for the day)

Category of Flagging	Meaning
F1	Sharp drop - 40% below individuals 7 day average
F2	Two days of 40% below individuals 7 day average
F3	Feed intake is less than 40% of pen average for 3 consecutive days
F4	Zero feed intake

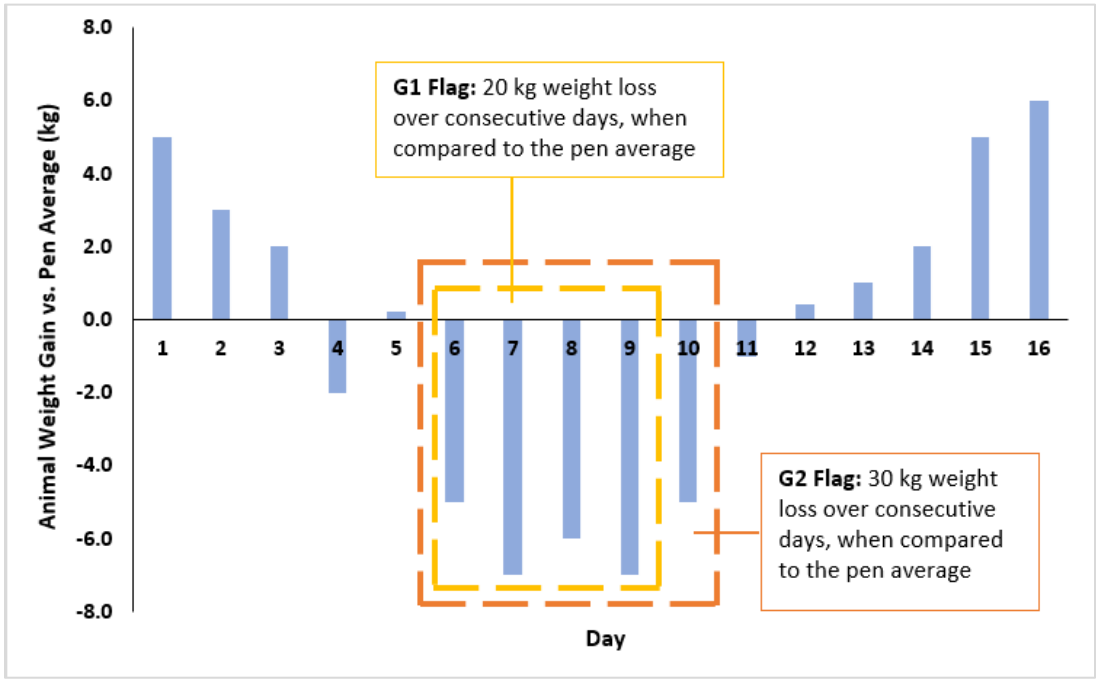
Body Weight Flags

Category of Flagging	Meaning
G1	20 kgs (44 lbs) cumulative drop from pen average*
G2	30 kgs (66 lbs) cumulative drop from pen average*
G3	50 kgs (110 lbs) animal growth rate difference when compared to pen average
G4	80 kgs (176 lbs) animal growth rate difference when compared to pen average

- *Drop in weight over consecutive days.
- G1, G2, G3 & G4 – always compare animal average growth weight data with pen average growth weight data

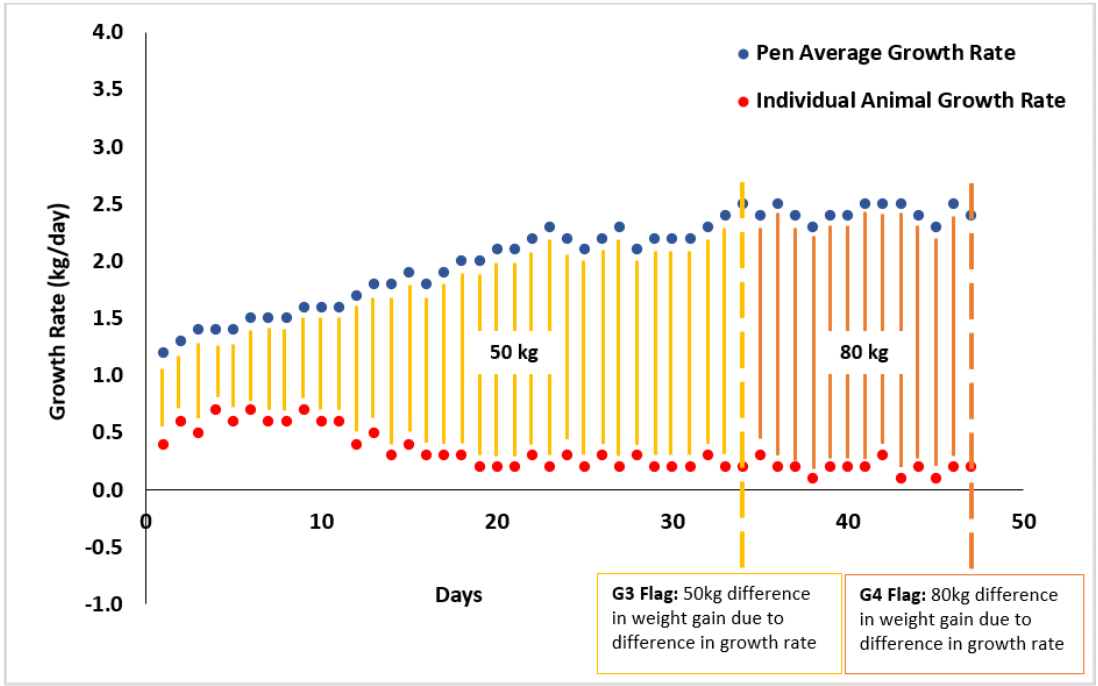
IPW Weight Flags - G1 & G2: Rapid Weight Loss vs. Pen Average

- Weight loss over consecutive days when compared to the rest of the pen
- Flags are only applied to consecutive day weight loss events compared to the pen



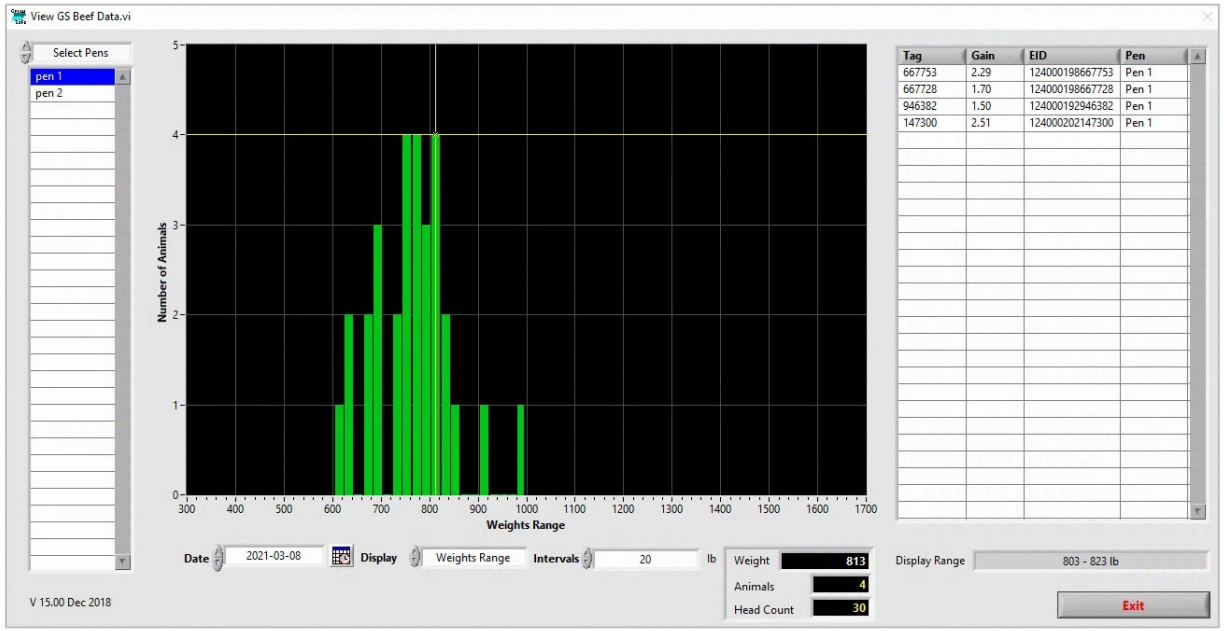
IPW Weight Flags - G3 & G4: Animal Growth Rate Difference vs. Pen Average

- Flags identify animals that are growing at a slower rate than the rest of the pen
- Flags are applied when animals reach set limits for weight that they could have gained if they were gaining at the same rate as the rest of the pen
- These flags do not necessarily mean animals are losing weight or that they are lighter than the rest of the pen



View GS Beef Data

- The View GS Beef Data program shows the distribution of animal weights and animal weight gain in each pen. The distribution intervals can be altered to reflect site specific goals.



View GS Beef Data

- View GS Beef Data Program can be used to:
  - Monitor Body Weights and Growth Rates:
    - Select pens that you want to monitor animal weights and growth rates on.
    - Set the weight interval that you want animal weights to be organized in.
    - Move the cursors on the distribution graph to show which animals fall within each interval and what their growth rate is. Double-clicking on an individual animal will reveal its weight trend.
  - Remote Marking:
    - Animals listed within each interval can be selected to be marked via the onboard marking system. Marking cattle allows them to be easily identified in the pen for sorting.
    - Individual animals, or several animals, can be selected for marking at one time.

Daily Procedures

The following section outlines the Daily Procedures that system users must carry out when Monitoring Cattle using In-Pen Weighing (IPW) Positions

Daily Procedures

- Each day the system user is required to:
  - Ensure DAQ Computer is powered on, software is running and connected to the internet.
  - Check Trial Notes program
  - Check System Status. If any IPW positions are red contact your TSR.
  - Check Action Items program and carry out any assigned action items
  - Check View Animal Weights program
  - Notify TSR if an animal needs to be archived or if an EID tag has been replaced

Monitoring Cattle Checklist

Consider this checklist when monitoring cattle using the In-Pen Weighing Positions:

- ❑ Collect chute weights from all cattle
- ❑ Collect template information for all cattle using the In-Pen Weighing Positions (breed, sex, lot specific information) and send to support@vytelle.com. If the breed is not listed in the drop-down menu, please select “Not Listed” as the breed.
- ❑ All animals tagged with new HDX tags
- ❑ Set monitoring period

Troubleshooting

The following section outlines general troubleshooting procedures for system users when Monitoring Cattle using In-Pen Weighing (IPW) Positions

General Troubleshooting

- When troubleshooting EID read issues start from the antenna and work back to DAQ panel.
- When troubleshooting weight issues start at the RTU and work back to the DAQ panel.
- Rule out components one at a time (i.e., is the antenna good? Yes? Check the load bar assembly, is it working? Yes? Check the data cable, is it intact? Yes? Check the DAQ panel, is it working? No? Replace the panel, etc.).

DAQ Panel Power Issues

- Confirm the DAQ panel has adequate power and is plugged in.
- If the power to the power supply has been verified and the panel does not power up:
  - Unplug power from the panel.
  - Remove and inspect the 20 mm 6 AMP glass tube fuse inside the DAQ panel.
  - If the fuse has been compromised, unplug all the data cables from the DAQ panel (being sure data cables are labelled correctly so they can be plugged into the correct channel after troubleshooting).
  - Install a new 20 mm 6 AMP glass tube fuse and power on the DAQ panel.
  - Slowly start plugging in the data cables one at a time. Making sure to wait until the respective data cable indicator lights blink green before plugging in the next data cable.
  - If the fuse blows again while you are plugging in a data cable, STOP and fully inspect the specific data cable that caused the fuse to blow. Inspect the data cable for any damage - likely the cable has been damaged somewhere along its length and is creating a short, meaning the cable will have to be replaced.
  - Repeat the above process until all data cables are plugged back into their respective channels and the panel remains powered on.
  - If the DAQ panel fuse still blows after the data cable is replaced on the affected position, the RTU may need to be replaced.

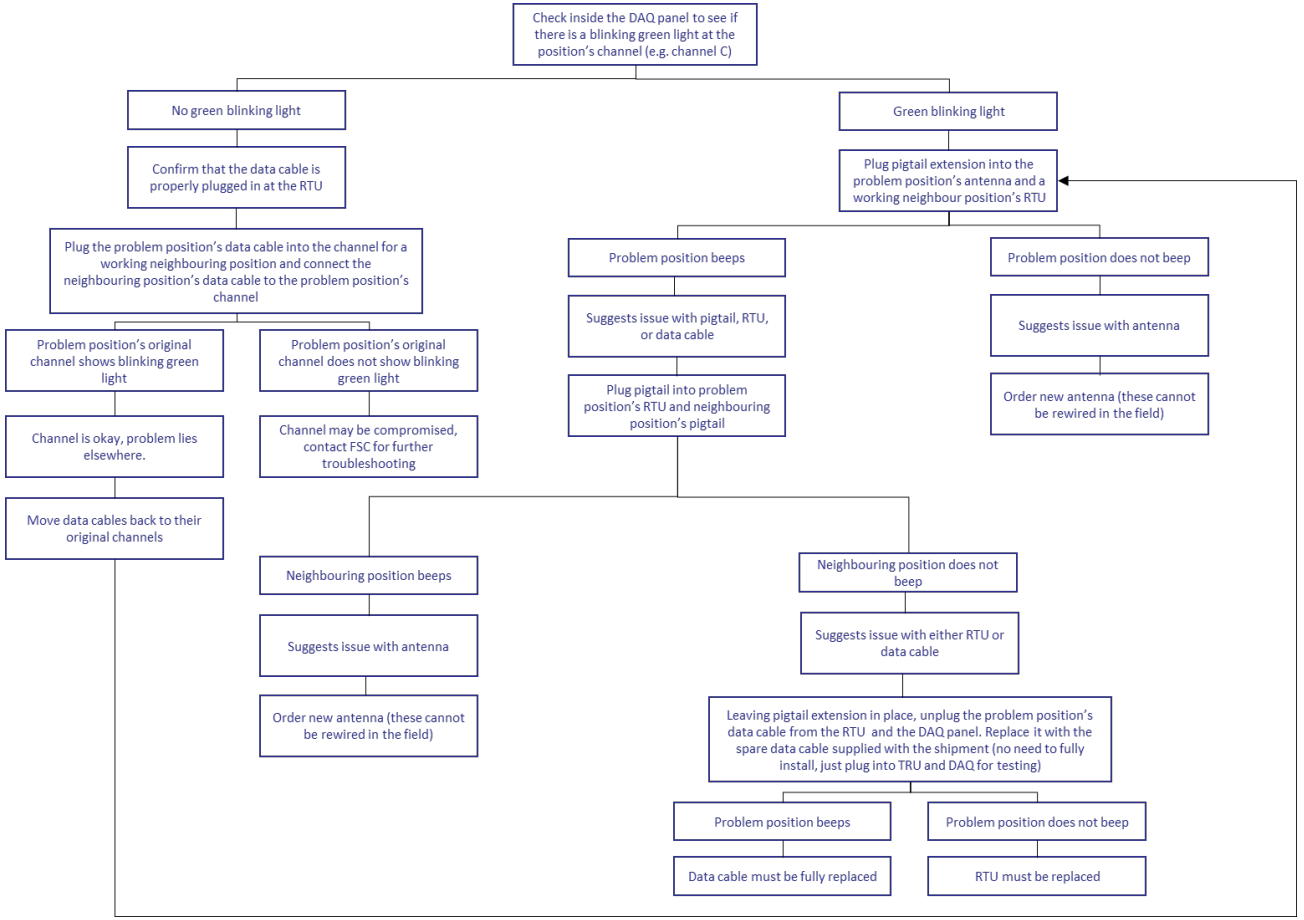
DAQ Panel GPS or Radio Issues

- Whenever the DAQ panel's orange status light is not flashing or the GPS and radio lights inside the panel are not illuminated, the DAQ panel is not transmitting data.
- Confirm that the GPS and radio antenna (located on the have not been damaged on top of the DAQ panel.
- Disconnect both antennas and then reconnect them.
- Cycle the DAQ panel power (unplug the power, wait for 30 seconds, and then plug the power back into the DAQ panel) and wait for the GPS, radio, and panel status lights to turn on (orange status light flashes every 0.5 seconds).
- It may take up to 5 minutes to establish a GPS connection. If the lights do not come on there could be an issue with the DAQ panel and it may need to be replaced.
- Do not replace a DAQ panel without talking to the TSR first.

IPW Spray System has Low or No Pressure

- Check the connection points for the installed spray hose (at the compressor and on the back of the IPW scale) for signs of a leak.
- If you observe a leak, disconnect the spray hose, and trim the hose end to ensure it is straight.
- Reconnect and re-test with the spray wand.
- If pressure is not restored, check the length of the hose for leaks and replace if necessary.
- Otherwise, check to see that the spray nozzle is not obstructed and confirm that the compressors are engaging when the spray wand is used.
- When the spray system is first tested with the spray wand, it will take several sprays to remove air from the line and fill it with paint.
- Ensure you have allowed an adequate number of sprays for the system to pressurize.

IPW Troubleshooting Flowchart



Beef Marketing Program Procedures

The following section outlines procedures for Monitoring Cattle using In-Pen Weighing (IPW) Positions

Receiving Cattle

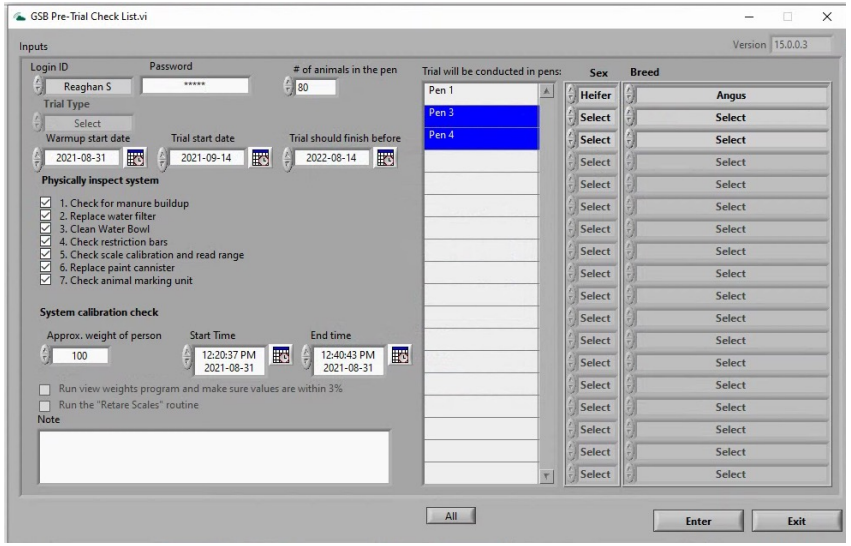
1. Collect feedlot entry chute weights and template information
2. Send data reports to support@vytelle.com
3. Ensure animals are tagged with appropriate HDX RFID ICAR compliant tags.

Set Monitoring Period

1. Complete the GSB Pre-Trial Check List application on the DAQ Computer
2. TSR will not monitor the system until the GSB Pre-Trial Check List has been completed

Completing the GSB-Pre Trial Check List

- Enter **Login ID** and **Password**
- Enter **# of animals in the pen**
- Select the Pens that will be monitored. Selected pens will highlight in blue. Ctrl + Click to select multiple pens or select **All** button at bottom of screen to select all pens.
- Select **Sex** from drop down menu
- Select **Breed** from drop down menu
  - Cross breed = cross bred animals,
  - Mixed = animals of different breeds in the same pen
- Enter **Warmup Start Date:** set this to the date that cattle will be entering pens with a Vytelle SENSE system. A warmup period is not necessary to begin monitoring cattle, but it ensures that the technology is working properly before monitoring.
- Enter monitoring start date in the **Trial start date** input box: it is recommended that the start date be set for 10 days after the warmup date as this is when weights can be accurately collected. Selecting the warmup and start dates to be the same will not affect the monitoring period.
- Enter monitoring end date in the **Trial should finish before** input box: unless you have a specific end monitoring date, set the end date to a year after the start date. If a monitoring period will be coming to an end, please inform your TSR of the updated end date.
- Complete **Physically Inspect System** Checklist and select boxes
- Conduct **System Calibration Check:**
  - Use a 100lb Vytelle certified weight
  - Enter the time you started calibrations in the **Start Time** box
  - Enter the time you ended calibration in the **End Time** box
- Enter any notes into the **Note** section
- Select **Enter** button to save GSB-Pre Trial Checklist



Calibrating IPW Positions

- Calibrations of an IPW Position need to be completed:
  - anytime an RTU is exchanged.
  - anytime a DAQ Panel is exchanged (all IPW positions connected to the exchanged DAQ Panel need to be calibrated).
  - if the TSR assigns an action item because they notice a sharp drop or rise in all animal weights.
  - anytime a pen is refilled (from being completely cleaned out of animals), or every 4 months.
- IPW calibrations need to be completed with a 100lb certified weight.

Conducting IPW Calibrations

1. Note the time
2. Use the 100lb (or 2 x 50lb) certified weight
3. Starting at the first scale, place the certified weight on the IPW scale.
4. Wait 2 minutes for the system to level
5. Without touching the IPW position (scale or frame), hold the test wand in front of you, positioned in the center of the grey antenna with the black tip toward the water trough
6. Allow the system to beep fifteen times
7. Repeat this process on all IPW positions in alphabetical order.

Archiving Cattle

- TSRs will archive animals on a weekly basis. Animals that have not accessed the Vytelle SENSE system for 7 days or more will be archived, unless specified otherwise.
- Please notify the TSR if you would like to adjust the animal archive frequency.
- If an animal is wrongfully archived, their records will be reintroduced the next time they revisit the system and the animals EID tag is read by the system.

Data Submission and Reporting

The following section outlines data submission and reporting guidelines when monitoring Cattle using In-Pen Weighing (IPW) Positions

Beef Marketing Monitoring and Forecasting Report Details

- Along with animal specific info, the Beef Marketing Monitoring Reports provide current animal weights, entry weights, average daily gains (ADGs), the number of days on the system and the last time cattle visited the system.
- This data is provided for each animal on the Vytelle SENSE™ system and summarized by pen.
- The Beef Marketing Forecasting Reports provide the same information, but also offer forecasted hot carcass weights for 30 days after the time of reporting.
- The glossary, found in the Beef Marketing forecasting report, explains the data reported.

Beef Marketing Forecasting Report Data Requirements

- The Beef Marketing Forecasting Report estimates future hot carcass weights using animal and lot specific information provided by the client in the Beef Marketing Program Template.
- For new clients just starting on the program, they must provide carcass records on at least 400 animals that have accessed the In-Pen Weighing system to ensure that hot carcass prediction models can be accurately applied.

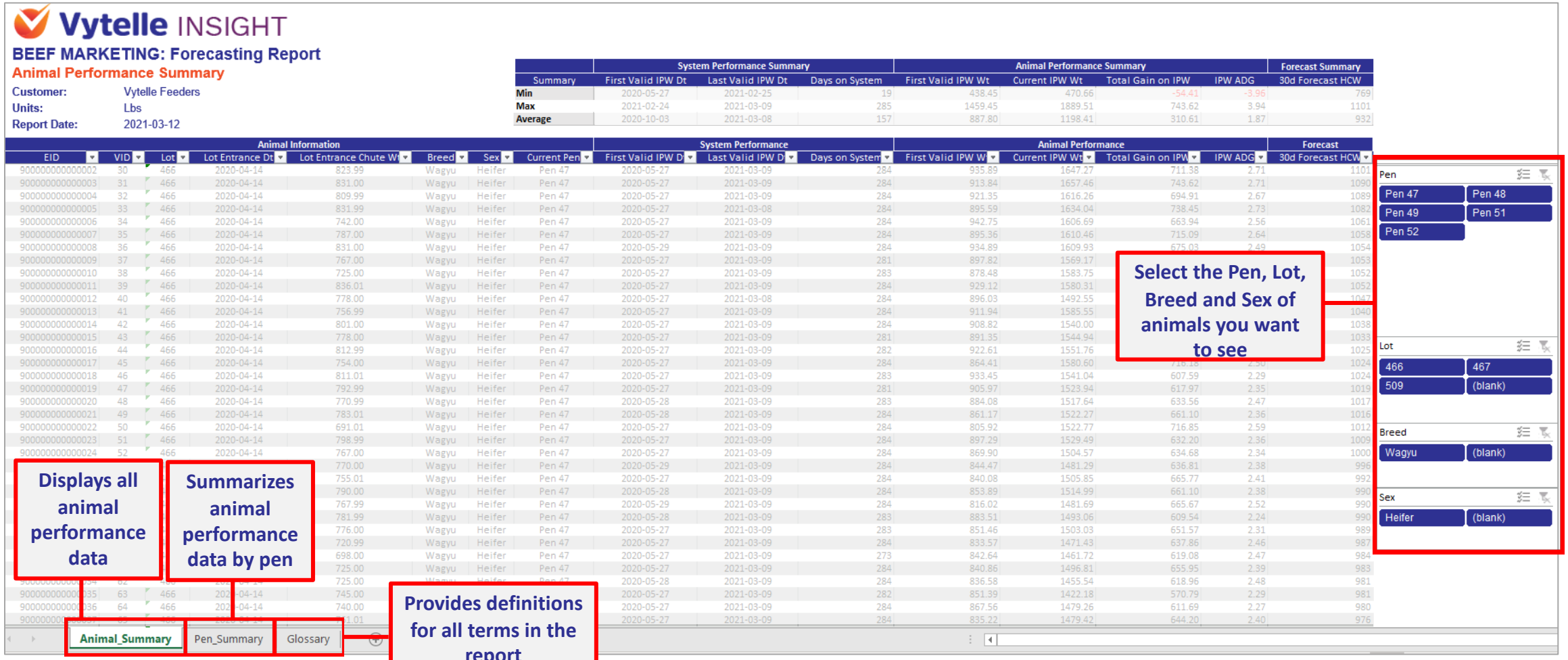
BMP Data Template

Vytelle INSIGHT

BEEF MARKETING PROGRAM: Data Template

ANIMAL INFORMATION				LOT INFORMATION		ARRIVAL CHUTE WEIGHTS		ADDITIONAL CHUTE WEIGHTS	
EID	Visual ID	Breed	Sex	Lot	Lot Entrance Date (yyyy-mm-dd)	Arrival Chute Date (yyyy-mm-dd)	Arrival Chute Weight (lb)	Additional Chute Date (yyyy-mm-dd)	Additional Chute Weight (lb)

Forecasting Report: Animal Performance Summary



Forecasting Report: Animal Performance Summary

Vytelle INSIGHT

BEEF MARKETING: Forecasting Report

Animal Performance Summary

Customer: Vytelle Feeders
Units: Lbs
Report Date: 2021-03-12

System, Animal and Forecast Summaries summarizes the min., max. and average info for all animals accessing the In-Pen Weighing Positions

	System Performance Summary			Animal Performance Summary				Forecast Summary
Summary	First Valid IPW Dt	Last Valid IPW Dt	Days on System	First Valid IPW Wt	Current IPW Wt	Total Gain on IPW	IPW ADG	30d Forecast HCW
Min	2020-05-27	2021-02-25	19	438.45	470.66	-54.41	-3.96	769
Max	2021-02-24	2021-03-09	285	1459.45	1889.51	743.62	3.94	1101
Average	2020-10-03	2021-03-08	157	887.80	1198.41	310.61	1.87	932

Animal Information								System Performance			Animal Performance				Forecast
EID	VID	Lot	Lot Entrance Dt	Lot Entrance Chute Wt	Breed	Sex	Current Pen	First Valid IPW Dt	Last Valid IPW Dt	Days on System	First Valid IPW Wt	Current IPW Wt	Total Gain on IPW	IPW ADG	30d Forecast HCW
900000000000002	30	466	2020-04-14	823.99	Wagyu	Heifer	Pen 47	2020-05-27	2021-03-09	284	935.89	1647.27	711.38	2.71	1101
900000000000003	31	466	2020-04-14	831.00	Wagyu	Heifer	Pen 47	2020-05-27	2021-03-09	284	913.84	1657.46	743.62	2.71	1090
900000000000004	32	466	2020-04-14	809.99	Wagyu	Heifer	Pen 47	2020-05-27	2021-03-09	284	921.35	1616.26	694.91	2.67	1089
900000000000005	33	466	2020-04-14	831.99	Wagyu	Heifer	Pen 47	2020-05-27	2021-03-08	284	895.59	1634.04	738.45	2.73	1082
900000000000006	34	466	2020-04-14	742.00	Wagyu	Heifer	Pen 47	2020-05-27	2021-03-09	284	942.75	1606.69	663.94	2.56	1061
900000000000007	35	466	2020-04-14	787.00	Wagyu	Heifer	Pen 47	2020-05-27	2021-03-09	284	895.36	1610.46	715.09	2.64	
900000000000008	36	466	2020-04-14	831.00	Wagyu	Heifer	Pen 47	2020-05-29	2021-03-09	284	934.89	1609.93	675.03	2.49	
900000000000009	37	466	2020-04-14	767.00	Wagyu	Heifer	Pen 47	2020-05-27	2021-03-09	281	897.82	1569.17	671.35	2.62	
900000000000010	38	466	2020-04-14	725.00	Wagyu	Heifer	Pen 47	2020-05-27	2021-03-09	283	878.48	1583.75	705.27	2.63	
900000000000011	39	466	2020-04-14	836.01	Wagyu	Heifer	Pen 47	2020-05-27	2021-03-09	284	929.12	1580.31	651.19	2.28	
900000000000012	40	466	2020-04-14	778.00	Wagyu	Heifer	Pen 47	2020-05-27	2021-03-08	284	896.03	1492.55	596.52	2.50	
900000000000013	41	466	2020-04-14	756.99	Wagyu	Heifer	Pen 47	2020-05-27	2021-03-09	284	911.94	1585.55	673.62	2.46	
900000000000014	42	466	2020-04-14	801.00	Wagyu	Heifer	Pen 47	2020-05-27	2021-03-09	284	908.82	1540.00	631.17	2.50	
900000000000015	43	466	2020-04-14	778.00	Wagyu	Heifer	Pen 47	2020-05-27	2021-03-09	281	891.35	1544.94	653.59	2.50	
900000000000016	44	466	2020-04-14	812.99	Wagyu	Heifer	Pen 47	2020-05-27	2021-03-09	282	922.61	1551.76	629.15	2.32	
900000000000017	45	466	2020-04-14	754.00	Wagyu	Heifer	Pen 47	2020-05-27	2021-03-09	284	864.41	1580.60	716.18	2.50	
900000000000018	46	466	2020-04-14	811.01	Wagyu	Heifer	Pen 47	2020-05-27	2021-03-09	283	933.45	1541.04	607.59	2.29	
900000000000019	47	466	2020-04-14	792.99	Wagyu	Heifer	Pen 47	2020-05-27	2021-03-09	281	905.97	1523.94	617.97	2.35	
900000000000020							Pen 47			283				2.47	
900000000000021							Pen 47			284				2.36	
900000000000022							Pen 47			284				2.59	
900000000000023							Pen 47			284				2.36	
900000000000024							Pen 47			284				2.34	
900000000000025							Pen 47			284				2.38	
900000000000026							Pen 47			284				2.41	
900000000000027							Pen 47			284				2.38	990
900000000000028							Pen 47			284				2.52	990
900000000000029							Pen 47			283				2.24	990
900000000000030							Pen 47			283				2.31	989
900000000000031							Pen 47			284				2.46	987
900000000000032							Pen 47			273				2.47	984
900000000000033							Pen 47			284				2.39	983
900000000000034							Pen 47			284				2.48	981
900000000000035							Pen 47	2020-05-27	2021-03-09	282	851.39	1422.18	570.79	2.29	981
900000000000036							Pen 47	2020-05-27	2021-03-09	284	867.56	1479.26	611.69	2.27	980
900000000000037	55	466	2020-04-14	761.01	Wagyu	Heifer	Pen 47	2020-05-27	2021-03-09	284	835.22	1479.42	644.20	2.40	978

Animal Information shows the following for each animal if available:

- EID
- Visual ID
- Lot#, Lot Entrance Date and Chute Weight
- Breed
- Sex
- Current Pen

System Performance shows the date of the first and last valid in-pen weight collected for each animal, along with the number of valid days each animal has been on the system

Animal Performance shows the first and last valid in-pen weight for each animal, along with each animal's total weight gain and average daily gain over the entire time that they accessed the In-Pen Weighing Positions

Forecast shows the forecasted hot carcass weights for each animal 30-days from the time of reporting. Forecasted values will only be reported if animal lot entrance date, breed and sex are provided

Pen
Pen 47 | Pen 48
Pen 49 | Pen 51

Sex
Heifer | (blank)

Animal_Summary | Pen_Summary | Glossary

Forecasting Report: Pen Summary

Vytelle INSIGHT

BEEF MARKETING: Forecasting Report

Pen Summary

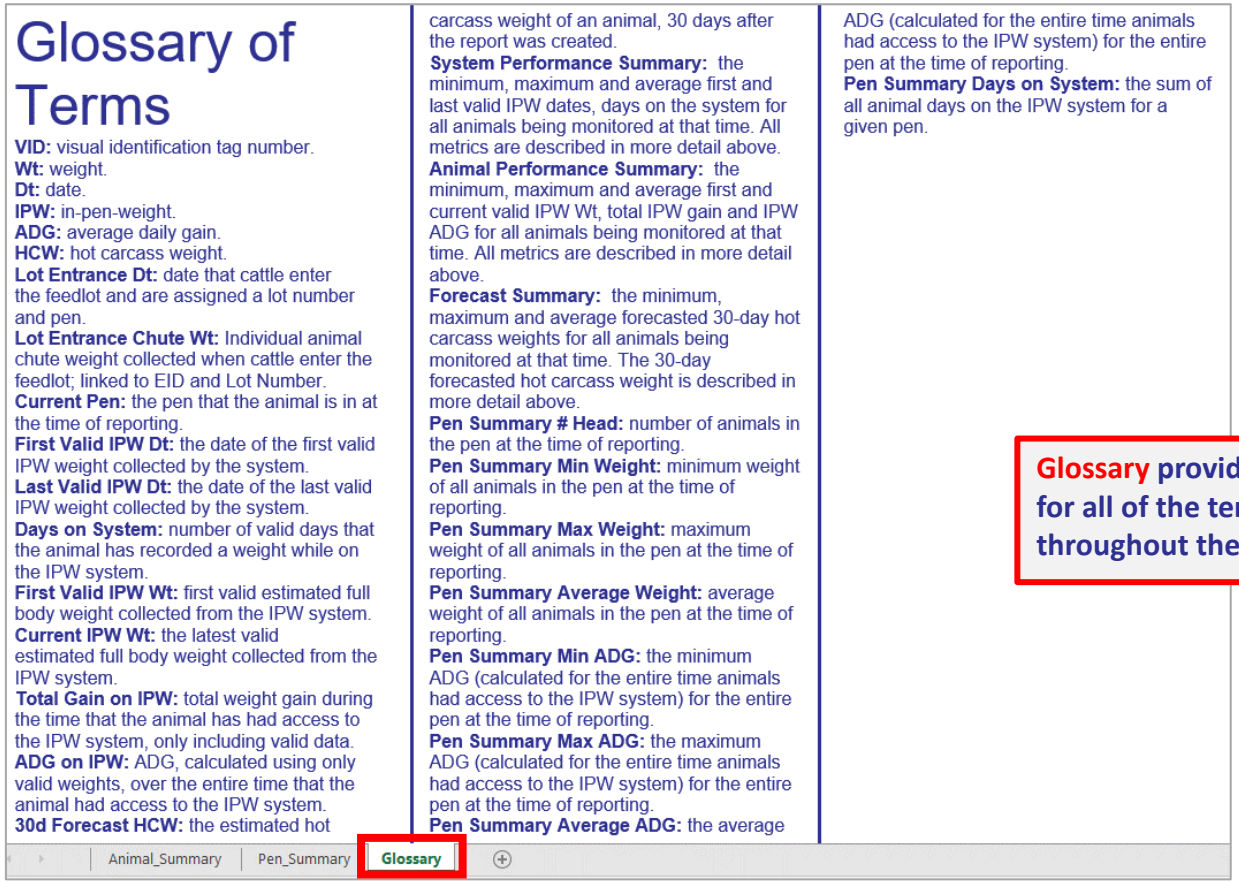
Customer: Vytelle Feeders
Units: Lbs
Report Date: 2021-03-11

	Animal Information							System Summary
Pen	# Head	Min Weight	Max Weight	Average Weight	Min ADG	Max ADG	Average ADG	Days on System
Pen 47	149	1186	1657	1397	1.15	2.73	2.19	42226
Pen 48	154	1070	1673	1365	-1.05	2.39	1.58	29536
Pen 49	152	1320	1890	1551	0.40	2.77	1.93	27170
Pen 51	162	702	1317	1003	0.90	3.45	2.39	16704
Pen 52	141	471	825	650	-3.96	3.94	1.16	3088

Pen Summary summarizes all of the animal weight info by pen

Animal_Summary | Pen_Summary | Glossary

BMP Report - Glossary



Glossary of Terms

VID: visual identification tag number.
Wt: weight.
Dt: date.
IPW: in-pen-weight.
ADG: average daily gain.
HCW: hot carcass weight.
Lot Entrance Dt: date that cattle enter the feedlot and are assigned a lot number and pen.
Lot Entrance Chute Wt: Individual animal chute weight collected when cattle enter the feedlot; linked to EID and Lot Number.
Current Pen: the pen that the animal is in at the time of reporting.
First Valid IPW Dt: the date of the first valid IPW weight collected by the system.
Last Valid IPW Dt: the date of the last valid IPW weight collected by the system.
Days on System: number of valid days that the animal has recorded a weight while on the IPW system.
First Valid IPW Wt: first valid estimated full body weight collected from the IPW system.
Current IPW Wt: the latest valid estimated full body weight collected from the IPW system.
Total Gain on IPW: total weight gain during the time that the animal has had access to the IPW system, only including valid data.
ADG on IPW: ADG, calculated using only valid weights, over the entire time that the animal had access to the IPW system.
30d Forecast HCW: the estimated hot carcass weight of an animal, 30 days after the report was created.
System Performance Summary: the minimum, maximum and average first and last valid IPW dates, days on the system for all animals being monitored at that time. All metrics are described in more detail above.
Animal Performance Summary: the minimum, maximum and average first and current valid IPW Wt, total IPW gain and IPW ADG for all animals being monitored at that time. All metrics are described in more detail above.
Forecast Summary: the minimum, maximum and average forecasted 30-day hot carcass weights for all animals being monitored at that time. The 30-day forecasted hot carcass weight is described in more detail above.
Pen Summary # Head: number of animals in the pen at the time of reporting.
Pen Summary Min Weight: minimum weight of all animals in the pen at the time of reporting.
Pen Summary Max Weight: maximum weight of all animals in the pen at the time of reporting.
Pen Summary Average Weight: average weight of all animals in the pen at the time of reporting.
Pen Summary Min ADG: the minimum ADG (calculated for the entire time animals had access to the IPW system) for the entire pen at the time of reporting.
Pen Summary Max ADG: the maximum ADG (calculated for the entire time animals had access to the IPW system) for the entire pen at the time of reporting.
Pen Summary Average ADG: the average ADG (calculated for the entire time animals had access to the IPW system) for the entire pen at the time of reporting.
Pen Summary Days on System: the sum of all animal days on the IPW system for a given pen.

Animal_Summary | Pen_Summary | Glossary

Glossary provides definitions for all of the terms used throughout the report

Requesting Historical Data

- Requesting historical data (more than 12 months) or special requests can be subject to additional charges.