

Agenda

Feed Bin Scales
Data Collection
Positive Pressure
Gestation Sow Feeding





Feed Bin Scales

Load Cells Traditional Precision









Bin Scales

Accurate inventory
Quick inventory access
Bin climbing safety
Feed ordering management
Feed mill management
Close out management
Detect feed disappearance changes





Feed Bin Scales

Data Collection Network Master Edge







DAILY STATUS REPORTS

FeedLink Status Report 03/12/2013 6:00 AM

24 hour period: 3/11/13 12:00 AM – 3/12/13 12:00 AM FeedLink-Online: View your graphs

Feed Consumption

Name	Weight (lbs)	Cnsmptn Yesterday	Difference	Cnsmptn Avg (5 days)	Projected Empty
North Room	19480	7860	-7%	8480	03/14/2013 1:04 PM
Bin 1	400	0	-	1949	03/12/2013 1:56 AM
Bin 2	19080	7860	_	222	03/19/2013 2:19 PM
South Room	21800	8400	-4%	8740	03/14/2013 1:33 PM
Bin 3	0	2100	-	144	03/12/2013 12:00 AM
Bin 4	21800	6300	_		03/26/2013 8:55 AM

SmartFlex

Name	Run Time Yesterday	Difference	Run Time Avg(5 days)	
North Feed Line	02:18:11	-33%	03:25:20	
South Feed Line	03:10:52	+24%	02:33:36	

Water Usage

Name	Usage Yesterday	Difference	Usage Avg (5 days) 2159	
North Rm. Water	2451	+14%		
South Rm. Water	2104	+0%	2099	

Temperatures

Name	Yesterday ('F)	Range ('F)	
North Room Temp	62.6 'F - 69.6 'F	7.0 'F	
South Room Temp	60.9 'F - 67.0 'F	6.1 'F	
Outside Temp	18.4 'F - 44.2 'F	25.8 'F	



Daily Status Reports

24 hour penod: 01/21/2018 12:00 AM - 01/22/2018 12:00 AM

FeedLink-Online: View your graphs

Name	Weight (lbs)	Cusmpta Yesterday	Difference	Cosmpto Avg (5 days)	Projected Empty
North Room	46700	5180	+15%	4500	02/01/2018 1:07 PM
(F) Bin 1	29060	40	1	-	N/A
Bin 2	17640	5140		-	01/26/2018 1:29 AM
South Room	24320	3960	-19%	4880	01/27/2018 12:53 AM
Bin 3	20	0			01/22/2018 12:07 AM
Bin 4	24320	3960	12	2	02/14/2018 4:04 AM

SmartFlex Name	Run Time Yesterday	Difference	Run Time Avg(5 days)	
North Feed Line	02:15:52	-796	02:25:36	
South Feed Line	01:23:09	+0%	01:23:34	

Water Usage				
Name	Usage Yesterday	Difference	Usage Avg (5 days)	
North Rm. Water	0	+0%	0	
South Rm. Water	1801	-7%	1940	

Name	Yesterday ('F)	Range ('F)
North Room Temp	62.8 'F - 67.6 'F	4.8 'F
South Room Temp	63.2 'F - 67.4 'F	4.2 F
Outside Temp	36.4 'F - 39.5 'F	3.1 'F

F: Perform FullBin



NOTIFICATIONS

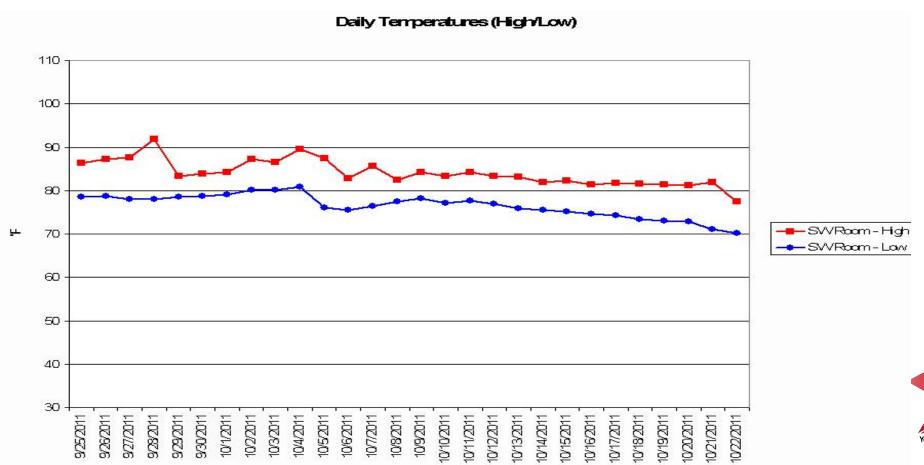
Notifications

- Email Or Text Message
- Stored For 1 Year Online
- Definable Thresholds For Notifications & Re-notifications
- Temp & Water: Hi Temp, Low Temp, Water Difference
- •SmartFlex II: Run Time Difference, Max Run, Idle Time, Pressure Switch
- Power Loss
- Tanks: Feed Consumption Difference, Feed Added, Low Feed, Empty Bin

```
From: Feedlink Call Center [mailto:feedlink@becs.com]
Sent: Thursday, November 10, 2011 9:37 PM
Subject: Temperature Report - Finisher
FeedLink: Temperature Report
11/10/2011, 9:37 PM
Outside Temperature: 2/.0 'F
North Room Temp
Temperature: 59.2 'F
Low: 60.0 'F High: 90.0 'F Critical: 100.0 'F
South Room Temp
Temperature: 58.7 'F
Low: 60.0 'F High: 90.0 'F Critical: 100.0 'F
From: FeedLink Call Center [mailto:feedlink@becs.com]
Subject: Max Run Time Report
FeedLink: Max Run Time Report
12/21/2011, 6:39 AM
North Room, N Barn East
Max Run Time: 00:40 hour:min
North Room, N Barn West
Max Run Time: 00:40 hour:min
From: FeedLink Call Center [mailto:feedlink@becs.com]
Sent: Thursday, November 17, 2011 4:26 PM
Subject: Extended Power Outage Report - Finisher
FeedLink: Extended Power Outage Report
11/17/2011, 4:25 PM
Power Off Time: 11/17/2011 4:06 PM
Power On Time: 11/17/2011 4:19 PM
```



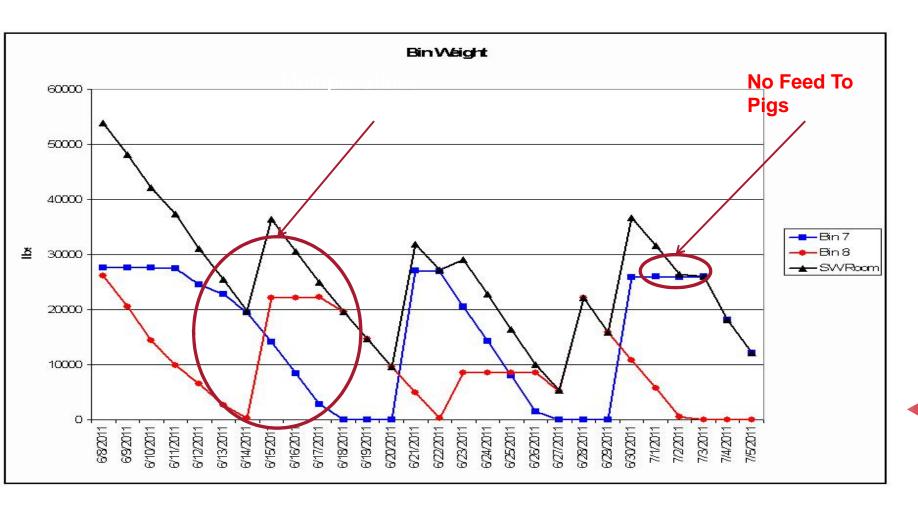
TEMPERATURE CHARTS





FEED DISAPPEARANCE GRAPH









DATA COLLECTION

Server Based System
All data from the control is recorded
Dashboard
Graphs
Reports
Exceptions
Analysis
Export to Management Software



Data Management

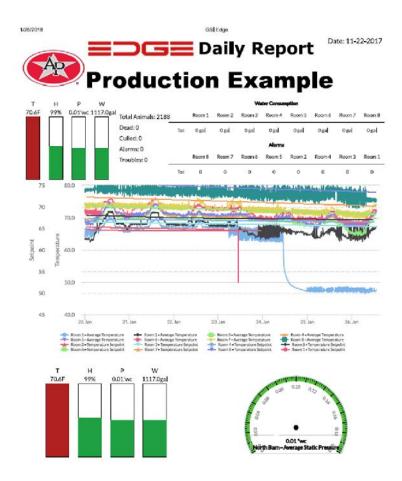
Standard Templates
Custom Reports and graphs
Sow Units, Finishers, and Nurseries

Managing the Data

Who manages the data How to use data and what to do with it



Daily Report for Production





Site Reports



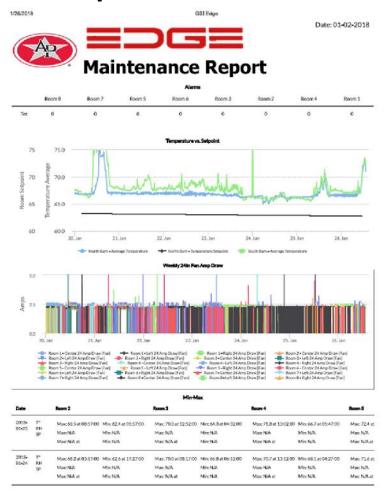


Temperature Report

				Temperatu	re			
	Room 8	Room 7	Room 5	Room 6	Room 3	Room 2	Room 4	Room 1
Set	79.4 °F	75 °F	70.1 °F	72.4 °F	67.9°F	66.6 °F	69.1°F	65.1°F
Avg	77.8 °F	72.9*F	70.3°F	71.7%	69.4 °F	66.9°F	70.3°F	60.7°F
Min	72.7°F	69.8 °F	66 °F	67.3 °F	64.3 °F	62.3 °F	66.7°F	46.4 °F
Max	81.2°F	76.5 °F	75.2°F	76.2°F	74.1 °F	72.2°F	74.7 °F	70.9°F
Range	8.4 °F	6.7*F	9.2 °F	8.9 °F	9.8°F	9.9°F	8.1 °F	24.5 °F
PV	11.5 [Front Temp - Back Temp]	8.3 [Back Temp - Back Temp]	11.8 [Back Temp - Back Temp]	10.4 [Back Temp -Front Temp]	13.3 [Back Temp - Front Temp]	15.7 [Back Temp - Front Temp]	11.3 [Back Temp -Front Temp]	25.5 [Back Temp] -Front Temp]
AV	6 [Back Temp]	4.4 [Back Temp]	6.4 [Back Temp]	5.6 [Back Temp]	7.5 [Back Temp]	8.5 [Back Temp]	6.7 [Back Temp]	14.6 [Front Temp]
н	83.2 °F [Front Temp]	77.8 °F [Back Temp]	76.8 °F [Back Temp]	77.4 °F [Back Temp]	77 °F [Back Temp]	75.5 °F [Back Temp]	77.1 °F [Back Temp]	71.5 °F [Back Temp]
с	71.7°F [Back Temp]	69.5 °F [Back Temp]	65 °F [Back Temp]	67 °F [Front Temp]	63.7 °F [Front Temp]	59.8 °F [Front Temp]	65.8 °F [Front Temp]	45.9°F [Front Temp]
2			2					
1			1					
1			1					
0		0	0			0-1		
-	Vorth Barn • 0 \$ on Prima Vorth Barn − Red Prima	Spray Value (Inventory 1 Spray Value (Inventory 1	fietall otall	Outsid	ie - Tank 2 Days Left (Feed le - Tank 1 Days Left (Feed le - Tank 5 Days Left (Feed	Tank) Outside	e • Tank 3 Days Left [Feed • • Tank 4 Days Left [Feed • • Tank 6 Days Left [Feed	Tank)



Maintenance Report







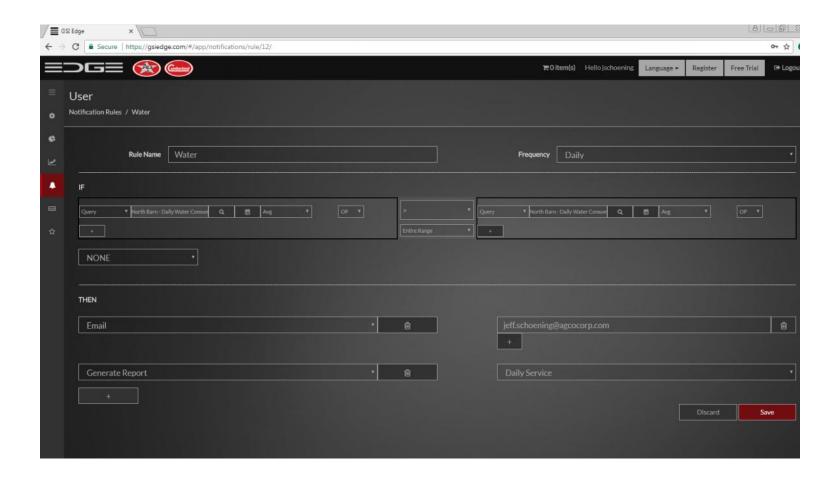
Custom Graphs







Exception Reports





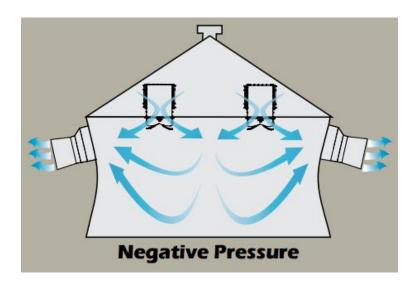


Positive Pressure and Filtered Barns

Clean Air is pushed out Less yearly concern regarding contaminated air Push clean air into barn and control static pressure

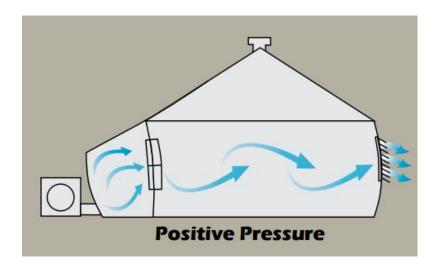


Negative Pressure Barn





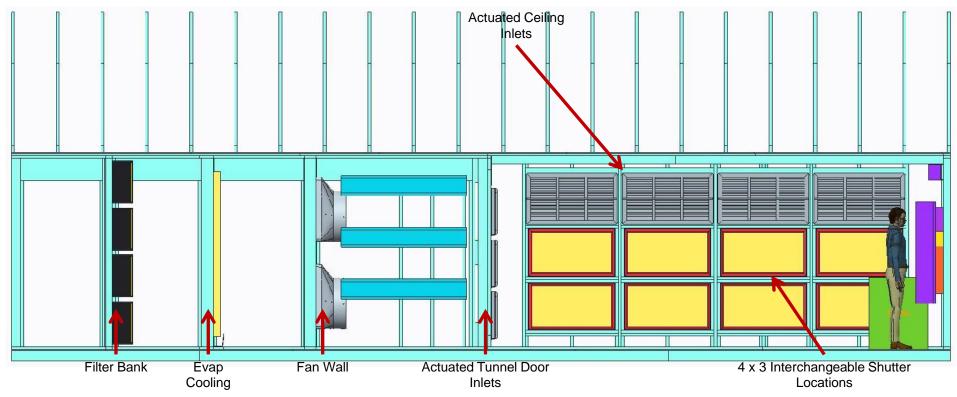
Positive Pressure Barn







EXAMPLE BUILDING LAYOUT



COMPANY CONFIDENTIAL





Positive Pressure







Positive Pressure







Pen Gestation Feeding Options

Stalls
Free Access
Stanchions
Electronic Free Access
Traditional ESF





Stalls

Moved towards for animal care Feed and treat animals individually Ideal for Al







Free Access

Mimics traditional stalls
Can treat animals individually if locked in
Increase building expense
Sows can choose







Stanchions

Less technology
Simple to operate
Lower Feed utilization
Competitive feeding
results in higher fall out







Electronic Free Access

Automated feeder on free access stall Walk in / back out Different training procedure Lower through put than traditional ESF Potential for renovated barns







Traditional ESF

Higher throughput
Multiple feed options with water
Sorter option
Able to add new technology
Improved Feed Utilization
Requires simple training procedure







ESF Training

Stage 1 "food / water court"

Stage 2 Stall Break

Stage 3 ESF feeder usage









THANK YOU