

FBS Software Success Summit August 22-23, 2018

#### What We Do?

- A team of industry-leading animal experts serving producers by delivering targeted breakthrough solutions aimed at helping producers:
  - Increase productivity
  - Lower costs
  - Improve business profitability and sustainability





#### NutriQuest's "Business Solutions" Consulting Team

- Steve Weiss, President
- Casey Westphalen, Director of NQBS
- Jennifer Brown, CFO
- Kevin Christensen, CFO
- Dennis Nuetzman, CFO
- Crystal Cappel, Staff Accountant



### NutriQuest Business Solutions' (NQBS) Clients





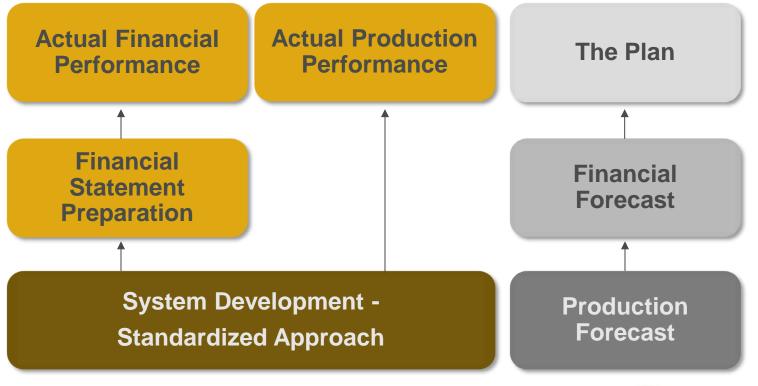
#### What is a CFO's role?

- Cash flow management
- Financial reporting to entity's stakeholders
- Financial planning
- Analyzing the company's financial/performance strengths and weaknesses
- Managing the financial risk of the entity



#### **Building the Foundation**

**Benchmarking – Financial Opportunity Analysis** 





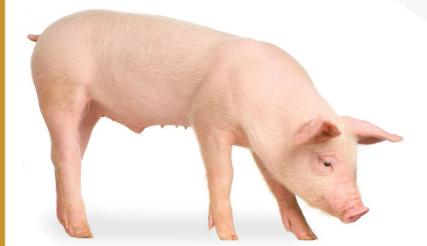
#### **Additional NQBS Services**

- Strategic planning
- Liaison with other professionals
  - Lender
  - Tax Preparer
  - Financial Statement Auditor
  - Attorney
  - Financial Advisor
  - Risk Management Broker / Consultant
- Mergers and acquisitions
- Asset Divestitures
- Financial restructuring



#### NQBS Swine Industry Modeling Tools

- Pork Network Commentary Weaned pig breakeven analysis
- Marketing Contract Analysis Optimal gross margin opportunity
- NutriQuest Right the Curve<sup>™</sup> Individual pig economic modeling tool
- NutriQuest Hog Crush<sup>™</sup> Forward margin analysis based upon CME futures pricing and producer's cost structure





	1	2-r	no	nth	n Fo	orwa	ard	Но	g C	Crue	sh		
			Ma	argin			\$5 e ncing		•	G&A			
	As of:	iQue 8/17/18	st.	12	Mon	th Fo	orwai	rd Ho	og C	rusł	ו		
Sell	Corn	Corn	Corn/	SBM	SBM	SBM/	Other Feed	Fixed	Total	LH	LH	Premiums	Margin
Month	Futures	Basis	LCWT~	Futures	Basis	LCWT~		Costs/LCWT		Futures	Basis	- Freight	Per Head
Sep-18	\$3.64	(\$0.24)	\$16.13	\$330.10	(\$13.00)	\$5.16	\$11.41	\$27.41	\$60.12	\$58.60	(\$2.01)	\$1.25	(\$4.80)
Oct-18	\$3.79	(\$0.24)	\$16.32	\$330.70	(\$3.00)	\$5.15	\$11.41	\$27.41	\$60.31	\$58.60	\$1.72	\$1.25	\$2.65
Nov-18	\$3.79	(\$0.24)	\$16.92	\$332.40	(\$1.00)	\$5.22	\$11.41	\$27.41	\$60.96	\$55.28	(\$3.70)	\$1.25	(\$17.07)
Dec-18	\$3.79							007.44	004.40				
	· · · · · · · · · · · · · · · · · · ·	(\$0.24)	\$17.12	\$332.40	(\$1.00)	\$5.25	\$11.41	\$27.41	\$61.19	\$55.28	(\$0.65)	\$1.25	(\$11.16)
Jan-19 Fob-19	\$3.91	(\$0.24)	\$17.44	\$332.00	(\$1.00)	\$5.30	\$11.41	\$27.41	\$61.57	\$61.65	(\$5.42)	\$1.25	(\$8.58)
Feb-19	\$3.91 \$3.91	(\$0.24) (\$0.24)	\$17.44 \$17.59	<b>\$332.00</b> \$329.10	(\$1.00) (\$1.00)	\$5.30 \$5.30	\$11.41 \$11.41	\$27.41 \$27.41	\$61.57 \$61.72	\$61.65 \$61.65	(\$5.42) (\$9.14)	\$1.25 \$1.25	(\$8.58) (\$16.71)
Feb-19 Mar-19	\$3.91 \$3.91 \$3.91	(\$0.24) (\$0.24) (\$0.24)	\$17.44 \$17.59 \$17.73	\$332.00 \$329.10 \$329.10	(\$1.00) (\$1.00) (\$1.00)	\$5.30 \$5.30 \$5.29	\$11.41 \$11.41 \$11.41	\$27.41 \$27.41 \$27.41	\$61.57 \$61.72 \$61.85	\$61.65 \$61.65 \$67.40	(\$5.42) (\$9.14) (\$2.79)	\$1.25 \$1.25 \$1.25	(\$8.58) (\$16.71) \$8.42
Feb-19 Mar-19 Apr-19	\$3.91 \$3.91 \$3.91 \$3.91 \$3.91	(\$0.24) (\$0.24) (\$0.24) (\$0.24)	\$17.44 \$17.59 \$17.73 \$17.88	\$332.00 \$329.10 \$329.10 \$326.30	(\$1.00) (\$1.00) (\$1.00) (\$1.00)	\$5.30 \$5.30 \$5.29 \$5.27	\$11.41 \$11.41 \$11.41 \$11.41 \$11.41	\$27.41 \$27.41 \$27.41 \$27.41	\$61.57 \$61.72 \$61.85 \$61.97	\$61.65 \$61.65 \$67.40 \$67.40	(\$5.42) (\$9.14) (\$2.79) (\$3.15)	\$1.25 \$1.25 \$1.25 \$1.25 \$1.25	(\$8.58) (\$16.71) \$8.42 \$7.41
Feb-19 Mar-19	\$3.91 \$3.91 \$3.91	(\$0.24) (\$0.24) (\$0.24) (\$0.24) (\$0.24)	\$17.44 \$17.59 \$17.73	\$332.00 \$329.10 \$329.10 \$326.30 \$326.30	(\$1.00) (\$1.00) (\$1.00) (\$1.00) (\$1.00)	\$5.30 \$5.30 \$5.29	\$11.41 \$11.41 \$11.41	\$27.41 \$27.41 \$27.41	\$61.57 \$61.72 \$61.85	\$61.65 \$61.65 \$67.40 \$67.40 \$73.50	(\$5.42) (\$9.14) (\$2.79) (\$3.15) (\$4.25)	\$1.25 \$1.25 \$1.25 \$1.25 \$1.25 \$1.25	(\$8.58) (\$16.71) \$8.42
Feb-19 Mar-19 Apr-19 May-19	\$3.91 \$3.91 \$3.91 \$3.91 \$3.98 \$4.04	(\$0.24) (\$0.24) (\$0.24) (\$0.24) (\$0.24) (\$0.24)	\$17.44 \$17.59 \$17.73 \$17.88 \$17.96 \$18.12	\$332.00 \$329.10 \$329.10 \$326.30 \$326.30 \$327.40	(\$1.00) (\$1.00) (\$1.00) (\$1.00) (\$1.00) (\$1.00)	\$5.30 \$5.30 \$5.29 \$5.27 \$5.24 \$5.24	\$11.41 \$11.41 \$11.41 \$11.41 \$11.41 \$11.41	\$27.41 \$27.41 \$27.41 \$27.41 \$27.41 \$27.41	\$61.57 \$61.72 \$61.85 \$61.97 \$62.03 \$62.18	\$61.65 \$61.65 \$67.40 \$67.40 \$73.50 \$78.60	(\$5.42) (\$9.14) (\$2.79) (\$3.15) (\$4.25) (\$5.99)	\$1.25 \$1.25 \$1.25 \$1.25 \$1.25 \$1.25 \$1.25 \$1.25	(\$8.58) (\$16.71) \$8.42 \$7.41 \$17.78 \$24.53
Feb-19 Mar-19 Apr-19 May-19 Jun-19	\$3.91 \$3.91 \$3.91 \$3.91 \$3.91 \$3.98	(\$0.24) (\$0.24) (\$0.24) (\$0.24) (\$0.24)	\$17.44 \$17.59 \$17.73 \$17.88 \$17.96	\$332.00 \$329.10 \$329.10 \$326.30 \$326.30	(\$1.00) (\$1.00) (\$1.00) (\$1.00) (\$1.00)	\$5.30 \$5.30 \$5.29 \$5.27 \$5.24	\$11.41 \$11.41 \$11.41 \$11.41 \$11.41 \$11.41 \$11.41	\$27.41 \$27.41 \$27.41 \$27.41 \$27.41	\$61.57 \$61.72 \$61.85 \$61.97 \$62.03	\$61.65 \$61.65 \$67.40 \$67.40 \$73.50	(\$5.42) (\$9.14) (\$2.79) (\$3.15) (\$4.25)	\$1.25 \$1.25 \$1.25 \$1.25 \$1.25 \$1.25	(\$8.58) (\$16.71) \$8.42 \$7.41 \$17.78

#### \$61.56 COP per LCWT



#### 12-month Forward Hog Crush – Including G&A and Financing Costs

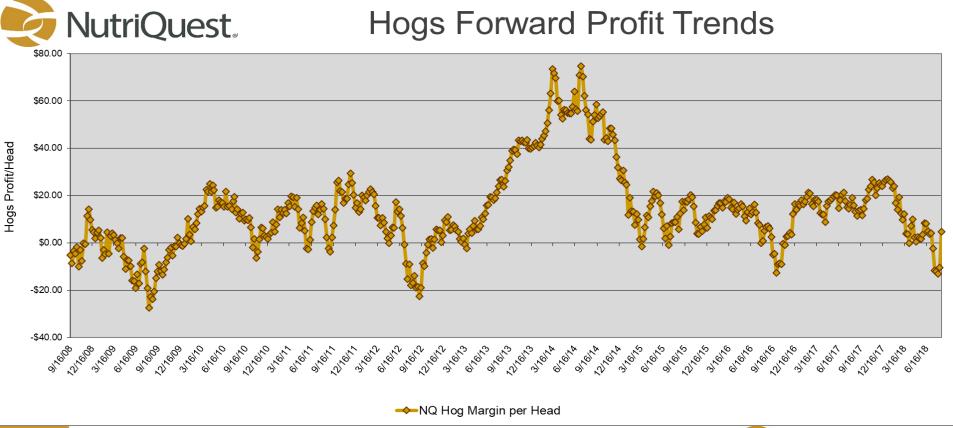
Margin per Head \$0 to \$(5)

			Avg 12 mos	<u>Avg 12 Mos</u>
G&A and Financing Costs	Per Head	Per Icwt	Cost/LCWT	Margin per head:
at	\$0.00	\$0.00	\$61.56	\$4.77
	\$5.00	\$2.38	\$63.94	(\$0.23)
	\$7.50	\$3.57	\$65.13	(\$2.73)
	\$10.00	\$4.76	\$66.32	(\$5.23)



#### 2008 – 2017 Forward Hog Crush

	His	storical	Pre	2014	Exc	cl 2014	Pos	st 2014
Average	\$	17.26	\$	7.71	\$	8.87	\$	11.43
St Dev	\$	17.79	\$	13.90	\$	12.40	\$	7.60





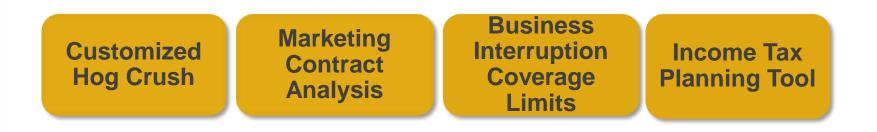
#### "Weighted" Customized Crush

Producer's Cost and Production Structure + Forward Protection

		Revenue								Per pig	Ma	rgin per
Projected			Average	%	Wtd Price		Cost of		Pig Today's			
Month	Marketings		Short	Marketed	F	utures	W	ith Basis	Ρ	roduction		Price
Jan'17	40,000	\$	68.50	99%	\$	54.65	\$	69.34	\$	139.42	\$	9.19
Feb'17	37,500	\$	68.50	80%	\$	54.65	\$	66.76	\$	139.50	\$	3.58
Mar'17	41,500	\$	-	0%	\$	61.00	\$	62.00	\$	139.39	\$	(6.51)



#### NutriQuest Business Solutions Tool Box and Services Profile



Benchmarking – Opportunity Analysis:
1. Actual Performance to Plan Analysis
2. Actual Performance compared to Industry





Kevin Christensen kevinchristensen@nutriquest.com Cell: (712) 571-0713

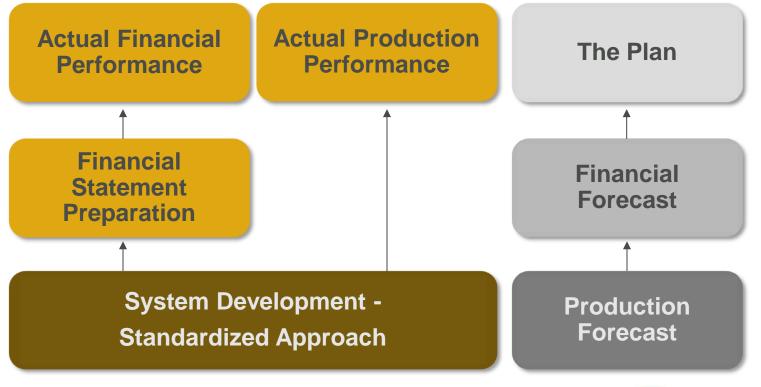
#### NutriQuest's "Business Solutions" Consulting Team

- Steve Weiss, President
- Casey Westphalen, Director of NQBS
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- Crystal Cappel, Staff Accountant



#### **Building the Foundation**

**Benchmarking – Financial Opportunity Analysis** 





#### The Plan – Bottom Up

- Bottom up projections
  - Begin with the drivers of the operation
  - Start with sow production drivers:

	16 Week	Current Forecast
Breeding_	Average	Assumption
Matings per week	194	200
Farrowing Rate	91.49%	92.50%
Litters [CALC]	177	185
Weaned/Litter	12.02	11.10
Weaned Pigs Produced	2,134	2,054



#### The Plan – Bottom Up

- Bottom up projections
  - Using historical production records
    - 52 week sow performance report in conjunction with 16 week farrowing report
  - Modeling changes to the system
    - Performance improvement
    - Operational Growth
    - Health issues
      - PEDv
      - PRRS



#### The Plan

- The sow performance targets drive the calculations for:
  - Feed usage and costs
  - Weaned pig output which feeds into nursery and finishing flow
- Nursery and Finishing Animal Flow
  - Feed usage and costs
  - Marketing
  - Yardage capacity v. utilization assessment



## Production Drivers – Actual to Budget (Sow metrics)

Key Drivers	Actual	Budget	V	ariance
Sows = # of Head	9,000	9,100		(100)
Gilts= # of Head	1,200	1,250		(50)
Sows Culled = # of Head	4,680	4,550		130
Sows Death = # of Head	720	910		(190)
Tons Fed	12,500.00	12,300.00		200.00
Cost per Ton	\$ 255.60	\$ 226.83	\$	28.77
Total Matings	24,100	24,080		20
Farrowings	21,931	21,672		259
Farrowing Rate	91.0%	90.0%		1.0%
Pigs Weaned - # of Head	263,611	240,559		23,051



### Financial + Production Comparison: Actual to Budget

	Year to Dat	e		Per Pig	Weane	d
	Actual	Budget	Variance	Actual	Budget	Variance
Expenses						
Feed	3,000,000	2,600,000	400,000	11.38	10.81	0.57
Grind Mix Del	195,000	190,000	5,000	0.74	0.79	(0.05)
TOTAL FEED	3,195,000	2,790,000	405,000	12.12	11.60	0.52
Income - Cull Sales	(900,000)	(875,000)	(25,000)	(3.41)	(3.64)	0.22
Cull & Dead Sows	1,200,000	1,210,000	(10,000)	4.55	5.03	(0.48)
Depreciation	1,800,000	1,810,000	(10,000)	6.83	7.52	(0.70)
Gas, Fuel & Oil	10,000	11,000	(1,000)	0.04	0.05	(0.01)
Genetic Pmt	263,600	240,000	23,600	1.00	1.00	0.00
Insurance	250,000	245,000	5,000	0.95	1.02	(0.07)
Interest Expense	200,000	195,000	5,000	0.76	0.81	(0.05)
Repairs & Main-Sows	350,000	355,000	(5,000)	1.33	1.48	(0.15)
Breeding Expenses	250,000	300,000	(50,000)	0.95	1.25	(0.30)
Utilities	300,000	295,000	5,000	1.14	1.23	(0.09)
Vet/Med and Supplies	950,000	960,000	(10,000)	3.60	3.99	(0.39)
Wages	1,600,000	1,400,000	200,000	6.07	5.82	0.25
TOTAL Expenses	\$9,468,600	\$ 8,936,000	\$ 532,600	\$ 35.92	\$37.15	\$ (1.23)
Cost Variance						\$ 2.21
Thruput Variance						\$ (3.44)



### Financial + Production Comparison: Actual to Budget

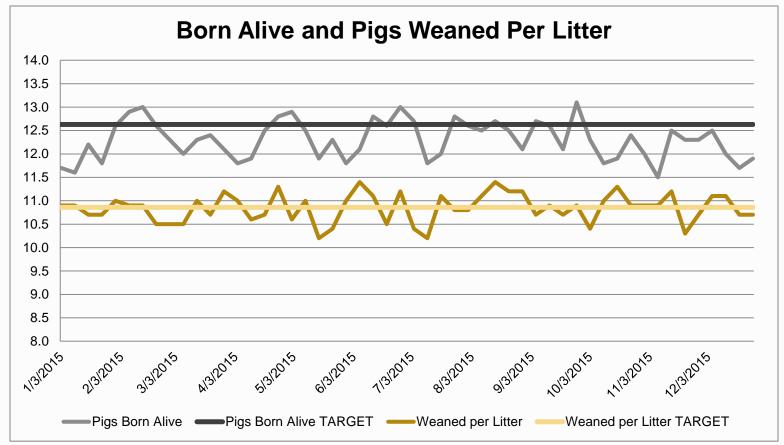
Key Drivers	Actual	Budget	Variance
Tons Fed	12,500.00	12,300.00	200.00
Cost per Ton	\$ 255.60	\$ 226.83	\$ 28.77

	Year to Dat	e		Per Pig Weaned			
	Actual	Budget	Variance	Actual	Budget	Variance	
Expenses							
Feed	3,000,000	2,600,000	400,000	11.38	10.81	0.57	
Grind Mix Del	195,000	190,000	5,000	0.74	0.79	(0.05)	
TOTAL FEED	3,195,000	2,790,000	405,000	12.12	11.60	0.52	

FEED Variance Analysis	
Price Variance	\$ 353,880
Quantity Variance	\$ 51,120
Total Feed Variance	\$ 405,000

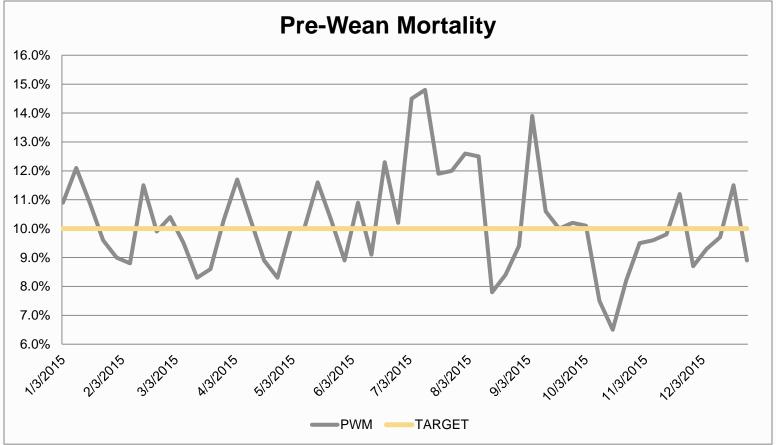


# Production Drivers – Actual to Budget



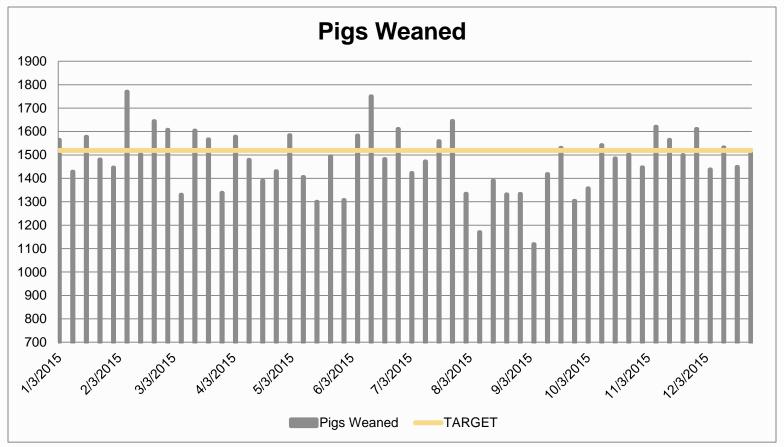


## Production Drivers – Actual to Budget





# Production Drivers – Actual to Budget





#### The Plan – Farrow-to-Finish

- Financial plan output
  - Commodity planning
    - Monthly feed ingredient requirements
    - Monthly livestock sales
  - Income Statement
    - Cost of production
  - Balance Sheet
    - Comparison to loan covenants
  - Statement of Cash flow
    - Short and long-term financing needs



#### The Plan – Farrow-to-Finish

• Production plan – Feed requirements

CORN		Month 1	Month 2	Month 3	Total
Sows	BU	34,975	31,639	39,925	352,000
W-F	BU	201,777	190,108	234,168	2,108,088
Total	BU	236,752	221,747	274,093	2,460,088

#### Production plan – Marketing volumes

LEAN HO	DGS	Month 1	Month 2	Month 3	Total
Marketing Volume		29,328	27,512	34,036	306,408
Packer 1	Contract	9,320	9,320	9,320	9,320
Packer 2	Open Mkt	14,008	12,192	18,716	222,088
Packer 3	Contract	6,000	6,000	6,000	75,000
Total		29,328	27,512	34,036	306,408





### Questions?



### **Consulting CFO Services**

- Helping producers
  - Increase productivity
  - Lower costs
  - Improve the profitability and sustainability of their business







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