Tactics and Strategies for Maximizing Net Returns from the Sale of Market Hogs



	Outline
	 Feed cost Feeding program development Ingredient selection DE versus NE Least costing of diets Feed budget implementation Feed additives
	 Marketing ✓ Optimizing shipping weight ✓ Sorting
	 Barn throughput ✓ Growth rate ✓ Variation in body weight
PRAIRIE SWINE CENTRE	Sow productivity



Objectives of a feeding program

- 1. Maximize return over feed cost/pig sold
- 2. Maximize return over feed cost/year
- 3. Maximize expression of genetic potential
- 4. Achieve specific carcass characteristics
- 5. Achieve specific pork characteristics
- 6. Minimize operational losses

Feeding program objectives must be clearly defined; Objectives can and indeed will change over time

Se	elect ph	nasin	g of th	e diet	S
Diet	Pig Wt.,	Days	A.D.G.,	A.D.F.,	Feed,
	kg		g/d	g/d	kg/pig
St #1	6	4	115	125	0.5
St #2	7 to 8	6	300	330	2.0
St #3	8 to 14	13	475	620	8
St #4	14 to 22	13	600	870	11
St #5	22 to 35	17	765	1,224	21
Gr #1	35 to 50	16	865	1,900	31
Gr #2	50 to 65	16	920	2,300	38
Fi #1	65 to 80	16	930	2,600	46
Fi #2	80 to 95	16	930	2,850	46
Fi #3	95 to 105	11	880	3,000	38
Fi #4	105 to Mkt	12	830	3,000	32
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Sele	ecting the optimum	diet ene	rgy conce	entration
DIE	T DE, Mcal/kg	3.12	3.30	3.43
NE,	Mcal/kg	2.21	2.32	2.43
Initia	ll wt., kg	37.4	36.6	36.5
Fina	l wt., kg	118.6	118.0	119.0
Ave.	daily gain, kg	0.99	0.98	1.00
Ave.	daily feed, kg ¹	2.94	2.85	2.77
Gain	lieeu ^r	2.94	2.94	2.70
	Tail-enders, n	48	45	37
PRAIRIE SWINE CENTRE	¹ Effect of diet significant, P<0.05 Source: Patience et al., 2005			

Selecting the optimum	diet ener	gy conce	ntration
DIET DE, Mcal/kg	3.12	3.30	3.43
NE, Mcal/kg	2.21	2.32	2.43
Feed cc	ost/pig solo	<u>1</u>	
October, 2005	30.80	29.76	31.60
October, 2007			
- Without corn	55.88	59.11	68.78
- With corn	53.94	53.55	52.34
Selecting the incorrect can lower costs by	: dietary en / \$1 per pig	ergy conce to \$13 per	ntration pig

Sele	Selecting ingredients				
	Simple	New	Aggressive new		
Wheat	30 54	29 13	ingredients -		
Barley	41.24	22.50	39.07		
Corn	-	-	34.80		
Peas	-	26.50	-		
Soymeal	24.10	12.80	16.50		
Canola meal	-	5.00	5.00		
Canola oil	1.00	1.00	1.00		
Other	+	+	+		
Price, \$/tonne	\$249.86	\$245.25	\$230.57		
Growout cost, \$/pig	\$59.25	\$58.10	\$54.43		
Savings, \$/pig	-	\$1.15	\$4.72		
Aggressive ado reduce f	Aggressive adoption of a variety of ingredients can reduce feed costs by up to \$5 per pig				

DE versus NE sys	stem for fo	rmulating) diets
DIET DE, Mcal/kg	3.12	3.30	3.43
NE, Mcal/kg	2.21	2.32	2.43
Feed cost/pi	g sold (Octo	ober, 2007)
DE system	\$56.07	\$59.17	\$60.93
NE system	\$54.82	\$55.43	\$56.51
Savings	\$1.25	\$3.74	\$4.42
Adoption of the NE reduce feed of	system of d costs by \$1 a	iet formula and \$5 per p	tion can big

Effect of diet re-formulation (least costing) on feed costs (\$/tonne)

	Fixed formula	Re-formulated
Starter 5 (21 kg/pig)	\$280.12	\$278.23
Grower #1 (31 kg/pig)	\$253.62	\$252.79
Finisher #4 (32 kg/pig)) \$234.23	\$218.58
Feed cost/pig sold		\$3.12
Regular re reduce feed	-formulation of d d costs by \$3 to \$	iets can 4 per pig

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Feed Budget Versus Actual Usage		
Diet Gilt developer Gestation Lactation Starter 1 Starter 2	Budget 2 34 18 2 15	Actual 3.9 <u>41.5</u> 19.5 2.2 15.6
Starter 2 Starter 3 Grower Finisher 1 Finisher 2	23 60 90 88	22.5 <u>72.8</u> 94.3 90.7
PRAIRIE SWINE CENTRE	\$63.64 (\$69.87 6.23/pig sold

Feed Budge	t Versus Actu	ual Usage		
Diet	Budget	Actual		
Gilt developer	2	4.6		
Gestation	34	39.6		
Lactation	18	16.5		
Starter 1	2	2.2		
Starter 2	15	14.5		
Starter 3	23	20.6		
Grower	60	69.2		
Finisher 1	90	87.7		
Finisher 2	88	82.5		
Cost	\$63.64	\$64.83		
Difference	Difference \$1.19/pig sold			
Regular trac PRAIRIE SWINE CENTRE	Regular tracking of the feed budget can reduce feed costs by up to \$5 per pig			





Load summary: October 2007				
	Total Load	In Core	Below Core	Above Core
		(90 to 105 kg)	(<90kg)	(>105 kg)
Number of pigs this load	200	133	59	8
Carcass weight, kg	93.0	94.3	87.5	112.8
Carcass index	108.6	108.3	106.6	82.5
Backfat, mm	19.3	19.7	18.1	22.4
Loin, mm	62.0	62.8	59.7	65.8
Value, \$/pig	103.42	106.00	97.94	95.99
Return over feed, \$/pig	18.23	19.61	12.93	-11.10
Net income, \$/pig	-31.77	-29.73	-37.09	-52.85
Achieving 85% in core, rather than 66% in core, would increase return over feed cost from \$18.23 to \$20.04, an increase of \$1.81				

PRAIRIE SWINE CENTRE

Effect of sow productivity on financial outcomes

20.7 88.35 6.50 9.50 5.50 5.50 4.00 2.80	23.5 86.65 14.53 9.50 4.84 4.84 3.52 2.47	26.3 85.30 12.99 9.50 4.33 4.33 3.15 2.20
88.35 6.50 9.50 5.50 5.50 4.00 2.80	86.65 14.53 9.50 4.84 4.84 3.52 2.47	85.30 12.99 9.50 4.33 4.33 3.15 2.20
88.35 6.50 9.50 5.50 5.50 4.00 2.80	86.65 14.53 9.50 4.84 4.84 3.52 2.47	85.30 12.99 9.50 4.33 4.33 3.15 2.20
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5.50 4.00 2.80	4.84 3.52 2.47	4.33 3.15 2.20
4.00 2.80	3.52 2.47	3.15 2.20
2.80	2.47	2.20
2.00	1.76	1.57
1.00	0.88	0.79
3.18	2.80	2.50
4.00	3.52	3.15
5.00	4.40	3.94
7.33 1	139.71 1	33.75
51.39/kg	\$1.31/kg	\$1.26
1	3.18 4.00 5.00 47.33 \$1.39/kg	3.18 2.80 4.00 3.52 5.00 4.40 47.33 139.71 1 \$1.39/kg \$1.31/kg

	Summary
1.	Feeding program objectives must be clearly defined and communicated
2.	Selecting the correct dietary energy level can reduce costs by \$1 to \$13 per pig
3.	Adoption of net energy can reduce feed costs by \$1 to \$5 per pig
4.	Aggressive use of a variety of ingredients can reduce feed costs by up to \$5 per pig
5.	Regular re-formulation of diets can reduce feed costs by \$3 to \$4 per pig
6.	Tracking of the feed budget can reduce costs by up to \$5 per pig
7.	Optimum market weights change substantially with market conditions
8.	Achieving 85% in core, compared to 66%, can increase net income by almost \$3 per pig
9.	The use of enzymes becomes increasingly economical as feed costs rise
RAIRIE WINE	Improving sow productivity can reduce the break-even COP by up to \$13/ckg
ENTRE	والمتعامات المتعالم بمراحل والمراج المتعالم المتعالم المتعالم المتعالم

