McBryde, Gary L

From:	(b)(7)c
Sent:	Tuesday, June 30, 2009 2:51 PM
То:	McBryde, Gary L; (b)(7)c
Cc:	Johnson, Jay A; Christian, Alan R;(b)(7)c
Subject:	Percent of Packer to Packer Sales in the Negotiated Market
Attachments:	packerpercentages2.xlsx

Gary

Below is the average percent of packer to packer hog sales being reported in the AMS negotiated market over the past several years in Western Cornbelt (WCB). Prior to 2006, AMS reported <u>(b)(4)</u> (b)(4) hogs being sold to <u>(b)(4)</u> as being sold on the negotiated market, as producer owned. After 2006 complaint, AMS begun reporting such transactions as packer --owned hogs. The other factor that caused a rapid increase of one packer selling to another packer in 2006 of over 10% was <u>(b)(4)</u> the Western Cornbelt. <u>(b)(4)</u> (b)(4) <u>(b)(4)</u> (b)(4) in the open market which increased the number of packer-owned negotiated transactions . The highest percent of packer to packer sales reported on the Western Corbelt occurred March 1, 2007, with 56% of the negotiated market consisted of one packer selling to another packer. Remember that packer negotiated hogs are part of the 8% hogs being reported in the negotiated market.

Packer to Packer Sales on the negotiated Market

WCB Annual Averages

2001	0.03%
2002	0.44%
2003	0.11%
2004	0.03%
2005	0.00%
2006	10.30%
2007	15.36%
2008	10.09%
2009	4.15%

Attached is the spreadsheet to support our analysis.

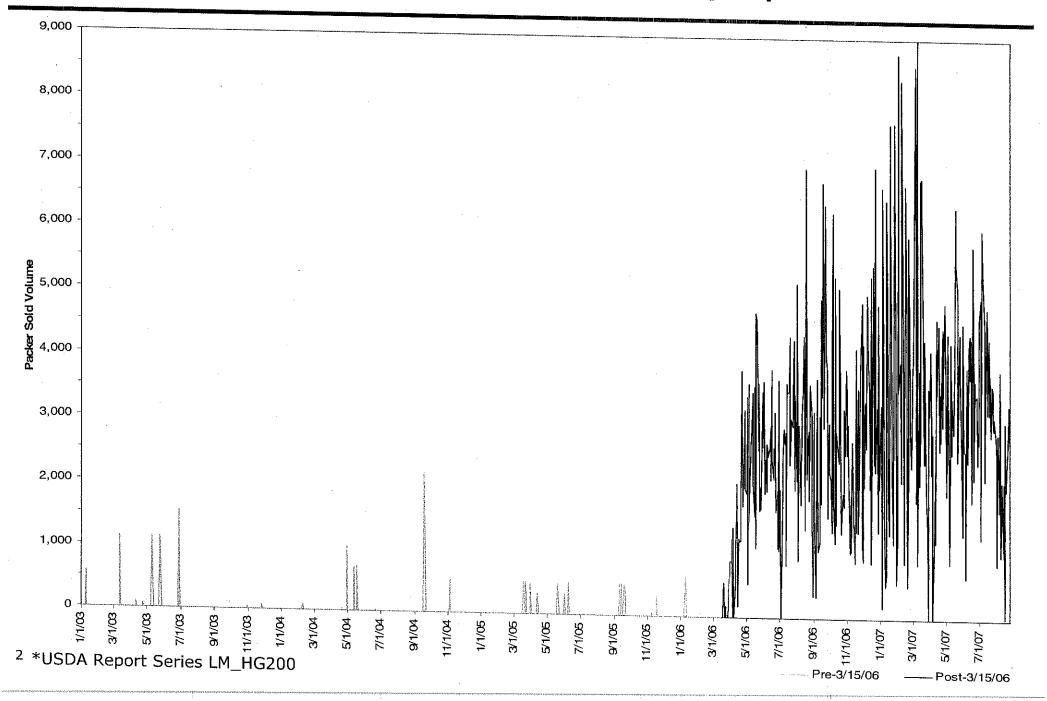
If you have questions, please advise

(b)(7)c	

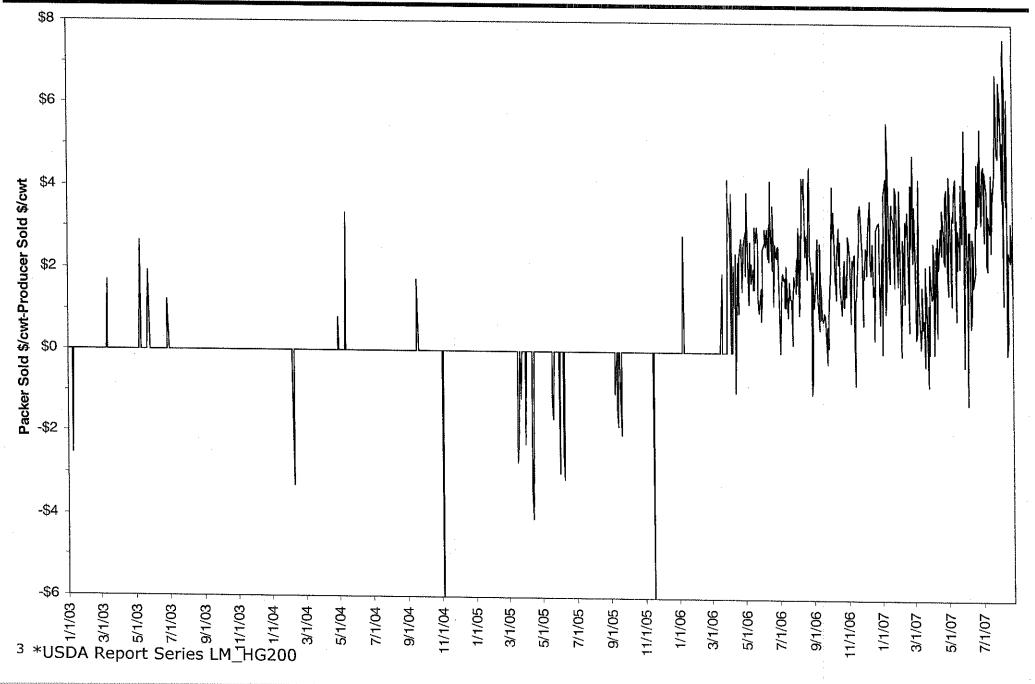
Hog Market Analysis

8/30/2007

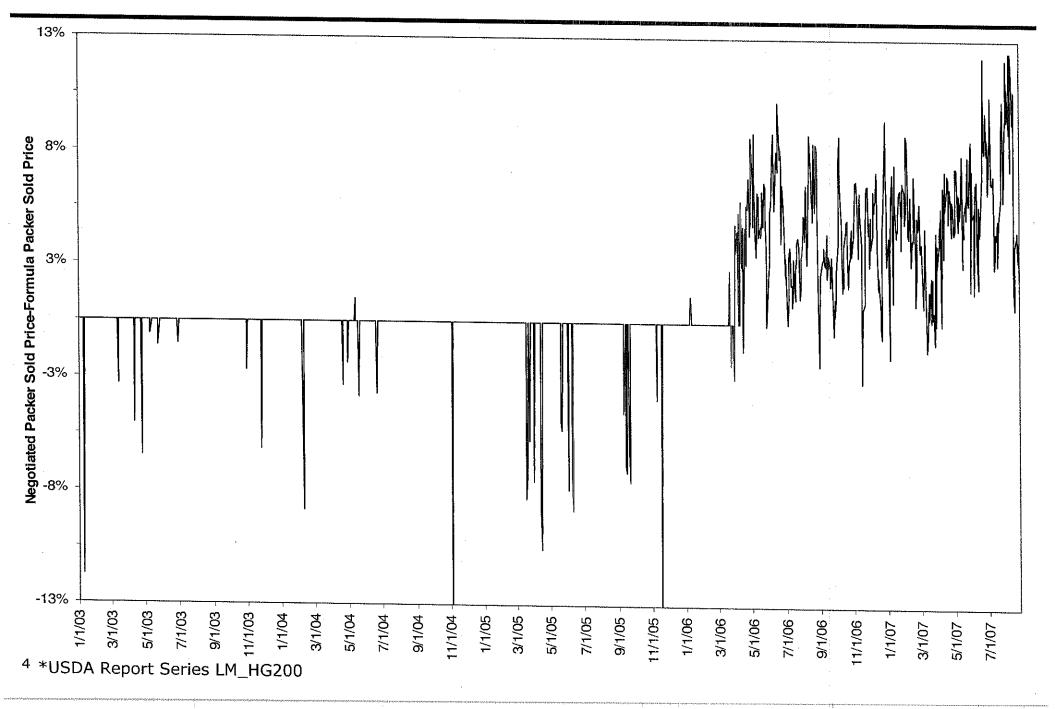
Packer Sold Hogs volume increased dramatically after USDA Packer Sold classification change on 3/15/2006



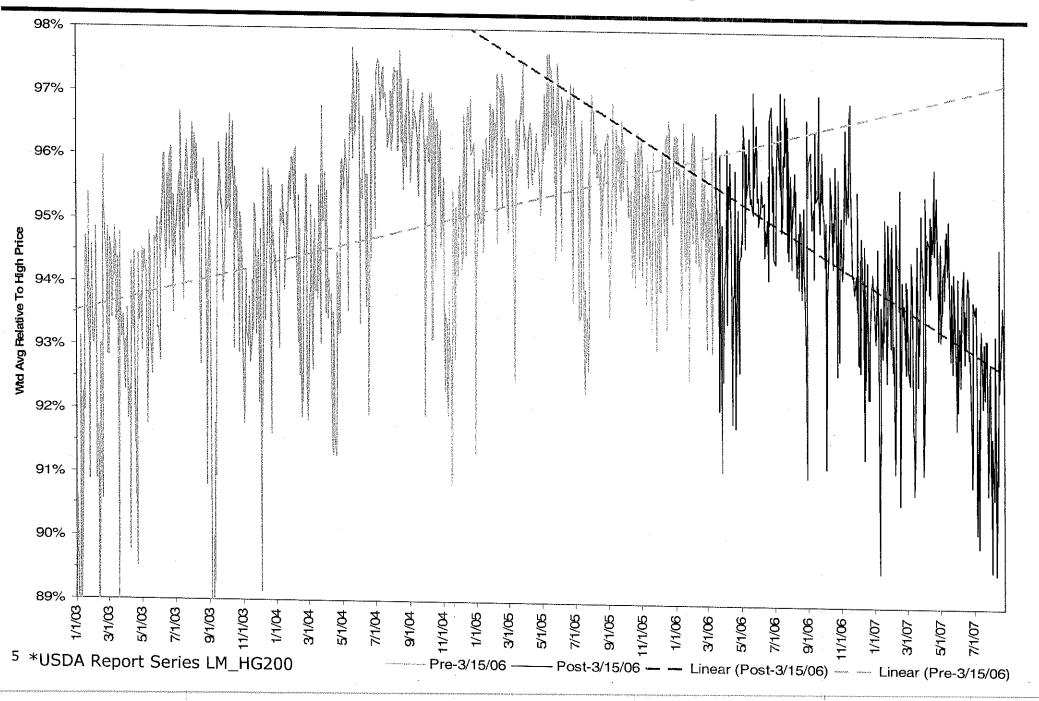
Packer Sold hogs were immediately more valuable as demonstrated by the producer achieved price vs the packer achieved price



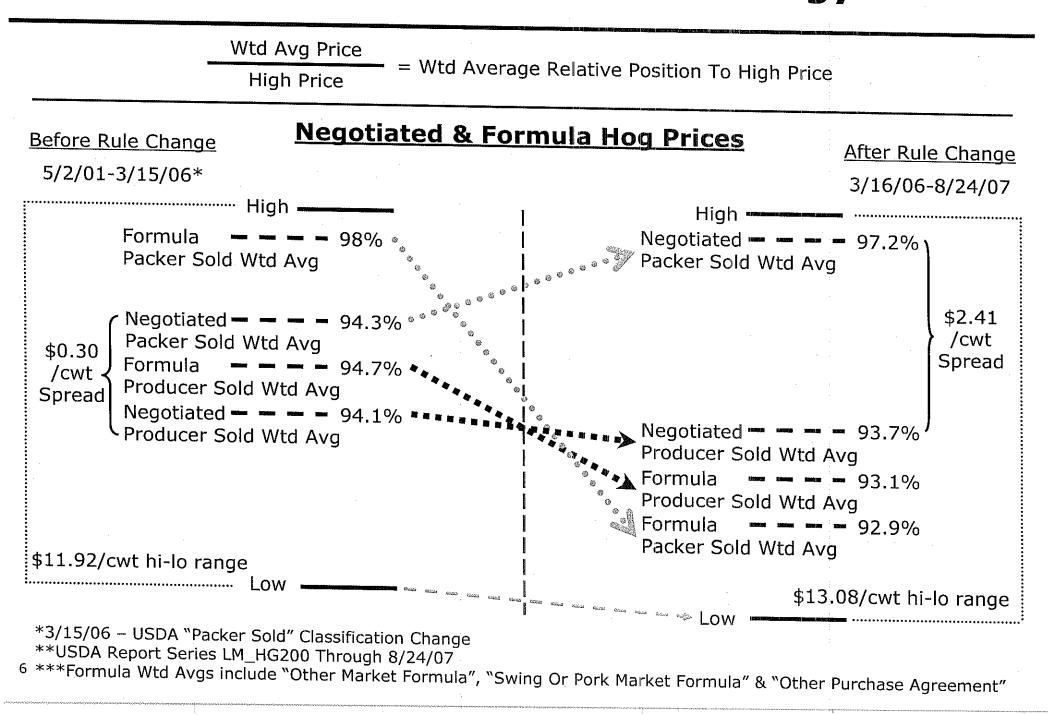
Relationship between Packer Negotiated Hogs and Packer Formula Hogs has reversed



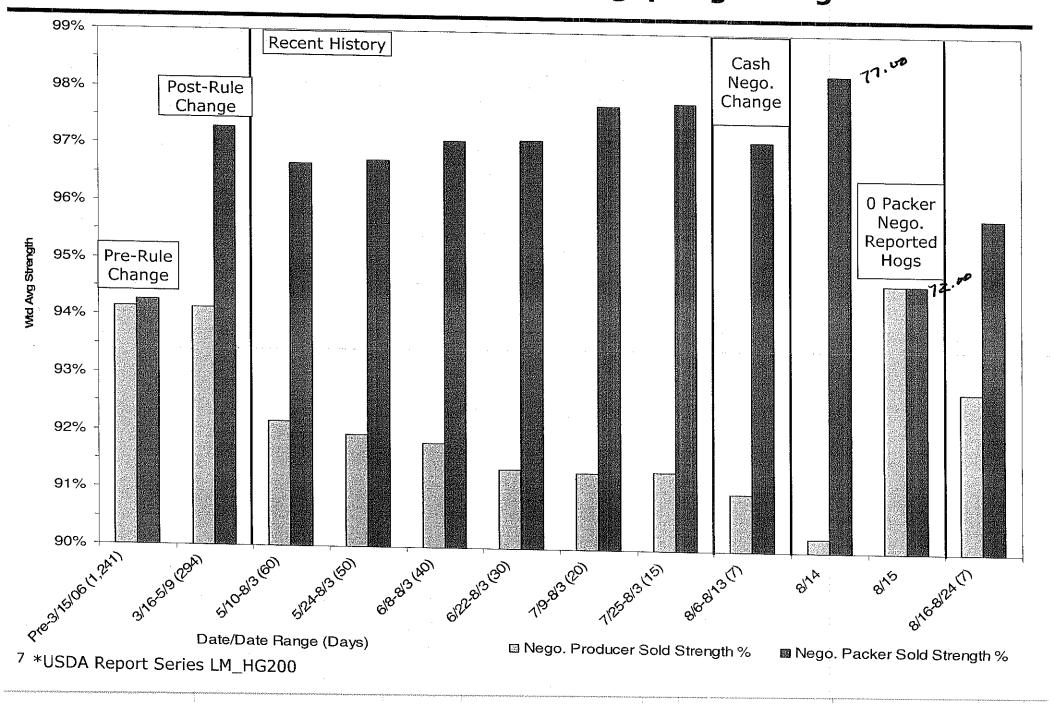
Trend relationship between daily High Price and Wtd Avg has shifted; Daily Wtd Avg pulling away from High Price



Live Hog Market Analysis Methodology

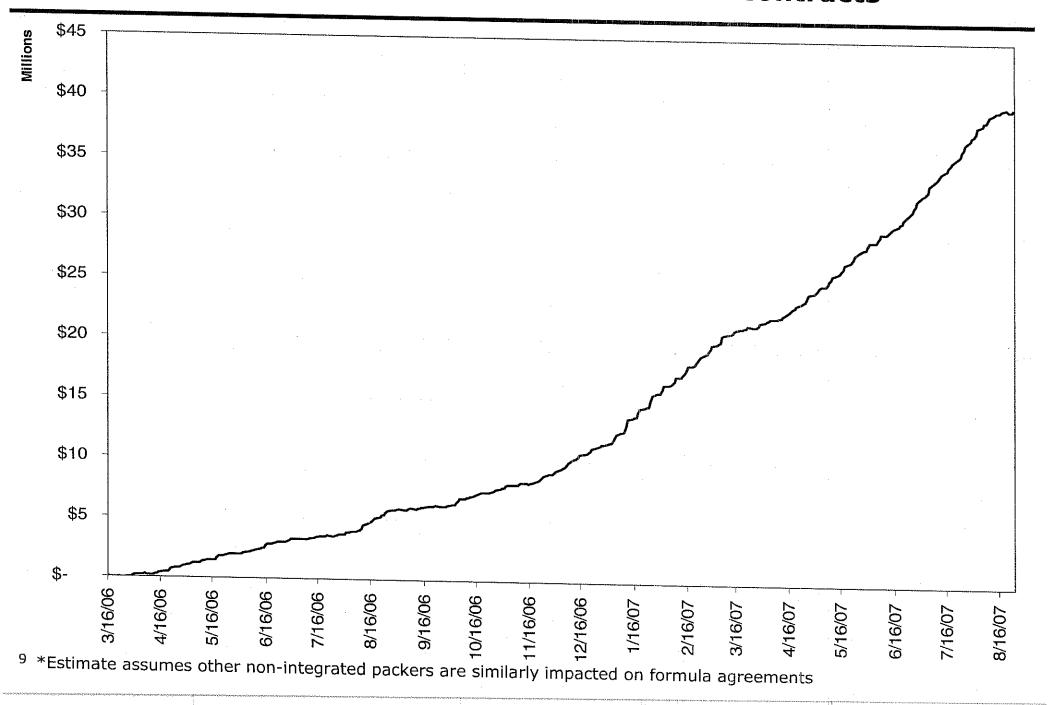


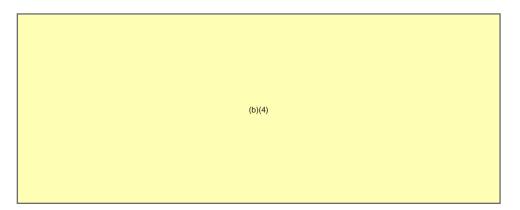
Packer sold hogs consistently achieve higher averages than Producer sold hogs. Differential price gap is growing.



Supplement

Loss is estimated between \$30-\$50M dollars to non-integrated packers who depend on market based formula contracts





COMPETITION INVESTIGATION C8I4 WORKPLAN

•

\sim	
Lead Investigator:	
Investigator:	
Lead Supervisor:	(b)(7)c
Legal Specialist:	
IAD Contact:	
SMRP Meeting:	

Pages 2 through 6 redacted for the following reasons: (b)(5) predecisional and deliberative

UNITED STATES DEPARTMENT OF AGRICULTURE

GRAIN INSPECTION, PACKERS AND STOCKYARDS ADMINISTRATION 210 WALNUT STREET, SUITE 317 DES MOINES, IOWA 50309

INVESTIGATIVE REPORT

Date:	File No.	Report Made By:
146 0040		(b)(7)c
pril 15, 2010	42996	Legal Specialist
	(b)(4)	
	(5)(4)	
	Unlawful Practices	8
YNOPSIS OF FACTS:		
	Non-responsive	
Non-responsive The majo	r findings of the document r	eview were as follows:
	e did not yield documents that	
behind the premium/di	scount schedule used in the	open market transactions. (b)(4)
	(b)(4)	
• (b)(4) weighted average price		e impact of their transactions on the
	1 .7	
• There were no docume	nts supporting the allegation	that ^{(b)(4)} and
(b)(4)	were participating in an agre	ement to buy hogs at an inflated price.
A relatively small mino	rity of the here cold by	
		(b)(4) to (b)(4)
packers were priced usi	ng formulas that reference the	ne reported prices artificially inflated
packers were priced usi		ne reported prices artificially inflated
packers were priced usi by (b)(4) actions (V	ng formulas that reference the Western Cornbelt or Iowa-M	ne reported prices artificially inflated innesota).
packers were priced usi by (b)(4) actions (V	ng formulas that reference the Western Cornbelt or Iowa-M Iwritten notes from a three h	ne reported prices artificially inflated innesota).
 packers were priced usi by (b)(4) actions (V November 1, 2004 hand 	ng formulas that reference the Western Cornbelt or Iowa-M lwritten notes from a three h (b)(7)c	ne reported prices artificially inflated innesota). our meeting between (b)(7)c
 packers were priced usi by (b)(4) actions (V November 1, 2004 hand (b)(4) 	ng formulas that reference the Western Cornbelt or Iowa-M lwritten notes from a three h (b)(7)c discussing open market pigs	ne reported prices artificially inflated innesota). our meeting between (b)(7)c s. One notable entry in these notes
 packers were priced using by (b)(4) actions (Value) November 1, 2004 hand (b)(4) shows (b)(7) as advising 	ng formulas that reference the Western Cornbelt or Iowa-M dwritten notes from a three h (b)(7)c discussing open market pig g that it is important for	ne reported prices artificially inflated innesota). our meeting between (b)(7)c s. One notable entry in these notes (b)(4) to
 packers were priced using by (b)(4) actions (Value) November 1, 2004 hand (b)(4) shows (b)(7) as advising 	ng formulas that reference the Western Cornbelt or Iowa-M lwritten notes from a three h (b)(7)c discussing open market pigs	ne reported prices artificially inflated innesota). our meeting between (b)(7)c s. One notable entry in these notes (b)(4) to
 packers were priced using by (b)(4) actions (Value) November 1, 2004 hand (b)(4) shows (b)(7) as advising 	ng formulas that reference the Western Cornbelt or Iowa-M lwritten notes from a three h (b)(7)c discussing open market pig- g that it is important for been market to keep live hog p	ne reported prices artificially inflated innesota). our meeting between (b)(7)c s. One notable entry in these notes (b)(4) to

- Internal email correspondence showed (b)(7)c expressing concern to the procurement staff regarding the price levels paid to open market producers during the summer of 2007. (b)(7)c repeatedly urged the procurement staff to work procurement costs lower.
- In September 2007, (b)(4) & (b)(7)(C)
 (b)(4)
- In a handwritten letter to dated October 30, 2007, (b)(7)c attributed the (b)(7)c following statement to (b)(7)c (b)(4) noted on the same document that bir confronted (b)(7)c (b)(4) regarding this issue and suggested the statement did not (b)(7)c (b)(7)c philosophy. accurately reflect (b)(4)
- During the depositions it was discovered that (b)(4) submits (b)(4)
 procurement data to AMS. (b)(4) denied small producers access to their plant so that
 they could purchase from (b)(4)

Background:

(b)(4)

On January 8, 2007 the MRO received a complaint from (b)(7)d (b)(7)d concerning the pricing and price reporting of hogs on January 5, 2007 in the Western Cornbelt. (b)(7)d stated that AMS initially reported an afternoon weighted average price for the Western Cornbelt at \$54.89, based on 7,202 head but published a correction to the afternoon report by adding an additional 5,933 head, which increased the weighted average price to \$57.20; an increase of \$2.31. In consultation with AMS, MRO identified (b)(4) as the packer that caused the price correction.

Depositions:

After reviewing the documents sup	oplied by	(b)(4)	_	(b)(5) attorney-client privilege
jointly determined to depose three	(b)(4)	. The individ	tuals selec	ted to be deposed were
	(b)(7)c			
• July 22 and 23, 2008,	(b)(7)c			
-				
• August 11, 2008,	(b)(7)c			
• September 25-26, 2008,		((b)(7)c	
(b)(7)c				

(b)(4)	all testified that th)(4)	played a pass	sive role in	any day
to day operations of the pl		(b)(7)c		could recall ad		
market procurement in		layed any		the developmen	nt of (b)(4) open
market purchase program.	Documents rece	ived from	(b)(4)	suggested that	(b)((4)
	Predecisional and Deliberativ			(b)(7)c		that this
interest was prompted by	lowa's corporate i	farming la	w requi	ring packers to	purchase 25	5 percent
of its slaughter on the open	n market.					
		(b)(4)				
(b)(4)	Depositions:					
(5)(7)	Depositions.				•	
The next stage of the inves	tigation was depo	sing the o	fficers a	nd procuremen	t staff of	(b)(4)
(b)(4) The individuals sel	· · · · ·			(b)(7)c		
(b)(7)c						

The (b)(7)c deposition took place on May 29, 2009. (b)(7)c testified that market conditions forced (b)(4) to pay the high prices observed during the Summer of 2007. (b)(7)c said the primary factor forcing to pay high base prices relative to other packers was the (b)(4) High prices were necessary to induce producers to sever a relationship with a closer packer and ship the hogs (b)(4)

(b)(7)c stated (b)(7)c ould not recall the specific details surrounding the conversation between (b)(7)c and (b)(7)c regarding the statement that (b)(4) wanted to carry a high price in the market. (b)(7)c explicitly denied any role in purchasing hogs at a price higher than necessary for any reason. (b)(7)c also denied the possibility of any type of arrangement with (b)(4) or intentionally paying inflated prices for the benefit of (b)(4)

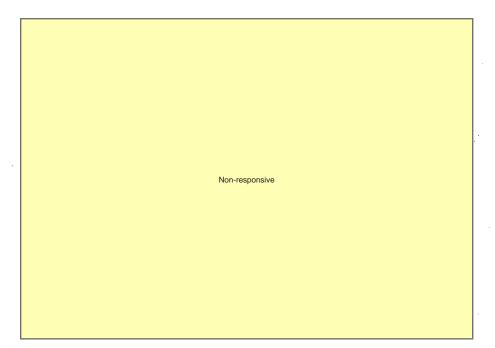
The (b)(7)c testimony occurred on June 3-4, 2009. (b)(7)c testified, in general, that (b)(4) purpose in (b)(4)

(b)(7)c testified that in b)(7)c dealings with (b)(4) (b)(4) (b)(7)c has seen nothing that raises suspicion that they were colluding in any way. However, b)(7)c related one incident which caused (b)(7)c to be suspicious that (b)(7)c was attempting to time the transaction for maximum impact on the reported AMS price.

Tł	(b)(7)c	deposition occurred on June	10-11, 2009.	(b)(7)c	testifi	ed that
	(b)(4)		never intended to pay higher	r prices than n	ecessary for	hogs.	(b)(7)c
als	o testified t	that _{(b)(7)c} y	vas the primarily responsible		(b)(7)	•	
	(b)(7)c						

The	(b)(7)c	deposition occurred o	n June 17-18, 2009.	(b)(7)c explained the	(b)(4)
		(b)(4)	(b)(7)c	estified that (b)(7)c managen	nent
objectiv	ve		(b)(4)		
	(b)(4)			of the email notifying	(b)(7)c
_	(b)(7)c			nuary 2007 reporting err	or is
contain	ed in the fol	lowing excerpt from t	he deposition transci	ript.	
A flow encountry the two provides further it was discovered that (b)(1) misropresented					

After examining the transcripts further it was discovered that (b)(4) misrepresented matrixes to farmers and have (b)(4) submit their procurement data to AMS. Plus (b)(4) denied small producers access to their plant so that they could purchase from (b)(4)



(b)(5) attorney-client privilege

(b)(5) attorney-client privilege

(b)(4) Case Description August 24, 2007

The Players:	Non-responsive
	Non-responsive
	Non-responsive
	Non-responsive . In January, 2007 the Packers and
Stockyards Program	m's Midwestern office began receiving complaints from other large
hog packers includ	that
(b)(4) purchas	tes from the (b)(4) producers was significantly increasing their
costs of hog procur	rement by artificially inflating hog prices published daily by the
Agricultural Marke	eting Service.

Agricultural Marketing Service: The Agricultural Marketing Service (AMS) publishes a morning and afternoon hog price report as part of the Livestock Mandatory Price Reporting Act (LMPR Act). Under the LMPR Act packers are required to report twice daily information on hogs they purchase. Relevant to this case, packers report a definition of their base hog, a base price for the base hog (the prices are on a carcass basis), and a schedule of premiums and discounts applied to hogs that fail to meet the specifications (say percent lean and loin depth) of the base hog. The definition of a particular packer's base hog and the schedule of premiums and discounts tend to be constant over time and are based on business strategies related to procurement and the retail niche the packer is filling. Alternately, the base price is negotiated daily on supplydemand conditions.

The reporting process is each packer provides to AMS the number of hogs purchased and the base price offer for the hogs. AMS then applies the packer's schedule of premiums and discounts to calculate an industry net price for a matrix (or grid) of carcass quality characteristics. AMS then publishes twice daily the base price range (attachment 1.A), and the weighted (by all packers volumes) base price (attachment 1.B), and a grid of net prices by different carcass characteristics (attachment 1.C).

Industry Reporting Practices: Historically, packers tended to provide definitions of their base market hogs so that some hogs earned a premium value and some were discounted off the base price. The idea being that the base price (or target) of the grid was the carcass characteristics the packer was seeking for processing or marketing reasons.

	Practices:	(b)(4)
but after the grid disco net price. (b)(4) Both grids facility does not bear s (b)(4) The pr offer, does however, s (b)(4) enters the ma (b)(4) sta co competing packers in Competing packers have	and to benefit from the inflated AM independent of (b)(4) (d) d existing contracts with ase price for purposes of establishin MS base price and the existing con (4) receive a higher price th (b)(4) definition of a base market	net price is close to the market's he net effect being the packing s procured from the negotiated hogs with the high base price ice up (\$1-5 per cwt) when (S base price when they sale hogs (b)(4) benefit because (b)(4) that ng a transaction price. The net
nigher prices for hogs, producers.	either bought from (b)(4) or other hog

In summary,	(b)(4) actions involve a buying and selling component. The	ie buying	
_component is	S: (b)(4)		
	(b)(4)	The	
selling compo	onent, which provides (b)(4)		
	(b)(4)		
Those three key characteristics are identified by a lower case letter in the			

(b)(4) These three key characteristics are identified by a lower case letter in the reference below for establishing existing data on the case (Table 1).

Table 1. Summary of existing evidence, significance, and value to case.

(b)(5) Predecisional and Deliberative

Table 1. Continues

Table 1. Continued.

Table 1. Committee.
(b)(5) Predecisional and Deliberative
Deta Deleveness Assessing the relevance of exiting case data by each of the three key
Data Relevance: Assessing the relevance of exiting case data by each of the three key actions (b)(4) is engaged in the first action is related to does (b)(5) Predecisional and Deliberative
(b)(5) Predecisional and Deliberative This is well documented (Exhibits E-F2).
Documentation for whether (b)(4)
(b)(4) is also well documented (Exhibits G-K).
The selling action by and the benefit amount (or increase cost to
(b)(4) is much less documented than the first two buying components. Exhibits
L and N documen (b)(4)
(b)(4)
Evidence Limitations: A limitation on the buying side is that indicated
in (b)(7) affidavit that the (b)(4)
(b)(4)
(b)(4) & (b)(7)(C) This suggests (b)(4) & (b)(5)
(b)(4) & (b)(5)
(b)(4) & (b)(5) Considerations such as these suggest (b)(4) & (b)(4) & (b)(5)
$(b)(4) \otimes (b)(5)$
Although somewhat terminological, these observations relate to the legality, or if a
lack thereof to the question of (b)(5) Predecisional and Deliberative The
chart in Exhibit G also suggests(b)(5) Predecisional and Deliberative
(b)(5) Predecisional and Deliberative
¹ Specifically (b)(7)c stated: (b)(4)
(b)(4)
² "Price discovery" and "price determination" are economic terms of art. Price discovery is how buyers and

² "Price discovery" and "price determination" are economic terms of art. Price discovery is how buyers and sellers learn what each will agree on as a particular price to effect a given transaction. Price determination refers to how the broad forces of supply and demand interact to establish a market price that buyers and sellers agree is acceptable for trade. In cases of monopoly, the single seller has sufficient market power that they can restrict output (alter supply) to raise prices or "determine" prices.

	Currently, the limitation in evidence on the selling side o
	(b)(5) Predecisional and Deliberative
Pre <mark>d</mark>	ecisional and Deliberative , it would seem either
	(b)(5) Predecisional and Deliberative
	Currently we have evidence suggesting (b)(5) Predecisional and Deliberative
	(b)(5) Predecisional and Deliberative
Г	Summary: (b)(4) is using two distinct pricing grids, (b)(4)
Ē	(b)(4) that appears (b)(5) Predecisional and Deliberative That is,
	(b)(5) Predecisional and Deliberative
	(b)(5) Predecisional and Deliberative Evidence
	shows the effect of (b)(4) base hog definition causes base
	prices paid forhogs to be significantly higher, which in turn causes the
	reported AMS negotiated base hog price to be significantly higher when (b)(4)
	purchases hogs from (b)(4)
	(b)(4) The high
	negotiated base price, however, is reported in the AMS price reports and is then
	referenced in contracts existing between
	competing with (b)(4) These contracts were in existence prior to (b)(4)
[(b)(4) program.
l	
	The effect is that (b)(4) can artificially (through a non-value added method) inflate
	benefits to The single largest evidence limitation
	is a lack of information connecting (b)(4) together in designing
_	the (b)(4) with the intention of benefiting (b)(4)
	(b)(4) who sell to competing packers. There is sufficient evidence of the
	buying effect on AMS prices, but limited evidence thatare benefiting
ľ	(although it seems (b)(5) Predecisional and Deliberative
	(b)(5) Predecisional and Deliberative
_	Another issue is whether (b)(5) Predecisional and Deliberative That is, why should
	(b)(5) Predecisional and Deliberative (b)(5) Predecisional and Deliberative
	(b)(5) Predecisional and Deliberative
	(b)(5) Predecisional and Deliberative

While the market may in the longer term discipline (b)(4) there are several short and intermediate term concerns. The actions by (b)(4) are distorting indirectly market prices. This is not just the cash market but appears also to extend into the futures markets. The distorted prices are sending false signals on the cash market to producers, which could lead to greater price volatility through over production and a sudden price deflation.

Another interesting	question is the relation	n between (b)(4) and the (b)(4)
(b)(4) it is purc	hasing from ((b)(4)
(b)(4)). Is this	(b)(5) Predecisional and Deliberative
	(b)(5) Predecis	isional and Deliberative

A final concern with (b)(4) actions is if (b)(4) can define a base hog outside the AMS definition, and have AMS accept the artificially high base prices reported by (b)(4) from these transactions, why can't any other (b)(4) do the same? Leaving this path open seems to led to increased confusion in livestock prices.

Attachement 1

LM_HG212 Des Moines, Iowa

Thu, Aug 09, 2007

USDA Market News

В

This report is based on information provided by companies that agreed to continue to participate in Livestock Mandatory Reporting on a voluntary basis.

WESTERN CORNBELT DAILY DIRECT AFTERNOON HOG REPORT BASED ON STATE OF ORIGIN PLANT DELIVERED PURCHASE DATA FOR Thursday, August 9, 2007 (As of 1:30 PM)

> CURRENT VOLUME BY PURCHASE TYPE LIVE AND CARCASS BASIS

	Estimated	Actual	Actual	Actual
	Today	Today	Week Ago	Year Ago
Producer Sold: Negotiated Other Market Formula Swine or Pork Market Formula Other Purchase Arrangement Packer Sold (All Purchase Types):	12,591 30,815 77,671 18,077 8,918	11,787 7,963 45,939 13,434 4,086	9,194 24,407 40,687 12,647 5,521	9,678 25,319 32,534 14,776 5,097

NEGOTIATED PURCHASE (Including Packer Sold)

Barrows & Gilts (carcass basis): 11,033

Compared to Prior Day's closing weighted average (LM_HG208), 1.78 lower.

Base Price Range \$62.50 - \$78.75, Weighted Average \$72.59

Base Market Hog 185 lb Carcass Basis (0.9-1.1 inch back-fat, 6 square inch loin/2.0 depth)

WESTERN CORNBELT DAILY DIRECT NEGOTIATED HOG PURCHASES MATRIX 185 lb Carcass Basis (Defined by Muscle and Fat)

LOIN AREA/DEPTH (INCHES)

BACK-FAT 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.4	4.0/1.4 65.00 80.03 62.50 81.03 62.50 79.78 62.50 78.53 60.50 78.53 60.50 77.03 59.50 74.53 58.50 72.75 58.50 72.75 53.54 72.75	5.0/1.7 66.44 $80.7565.00$ $81.0365.00$ $81.0362.50$ $79.7862.50$ $78.5362.50$ $77.0360.50$ $77.0360.50$ $74.5359.50$ $72.7553.54$ 72.75	6.0/2.0 66.44 $82.2566.44$ $81.5066.50$ $81.0365.00$ $79.7862.50$ $78.5362.50$ $77.0362.50$ $75.7560.50$ $74.7553.54$ 72.75	62.50 76.75]c
		CARCASS WEIGH	HT DIFFERENTIA	 LS		
145# 155# 165#	-27.20 -8.16 -27.20 -5.00 -10.20 -0.67	175# 185# 195#	-3.75 0.00 -1.50 0.00 0.00 0.00	205# 215# 225#	0.00 0.00 -3.00 0.00 -5.26 0.00	
	MEASURE	EMENTS BASED ON	N SLAUGHTER DAT	TA SUBMITTED		

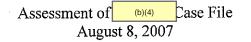
5 Day Rolling Average Market Hog: 194.94 lb carcass, 0.75 inch back-fat, 7.05 square inch loin/2.35 inch loin depth, FFLI: 51.38%

Page 2 of 2

Price Range \$	66.50 - \$80.75				
SWIN	IE OR PORK MARKE			ng Packer Sold)	
Barrows & Gil	ts (carcass bas	is): 44,574			
Base Price Ra	inge \$62.72 - \$7	7.72, Weighte	ed Average \$69.	93	
			Including Packe	r Sold)	
Barrows & Gil	ts (live basis,	240-300 lbs)): 1,780		
Compared to F	Prior Day's clos	ing weighted	average (LM_HG	208), 1.46 lowe:	r.
Price Range \$	50.99 - \$58.00,	Weighted Ave	erage \$54.58		
	NEGOTIATE	SC D PURCHASE (1	DWS Including Packe		
Sows Purchase	d (live and car	cass basis):	/92		
(Live Basis)	300-449 lbs. 450-499 lbs.	264 96 432	401 461 562	40.19-42.78	41.26 42.00 42.68
ALL SWINE PUR	CHASES BY STATE			············	
Iowa Minnesota Nebraska	45,050 22,230 11,041			83 1,29 3,80	€0
	USDA Market Ne 515-284-4460 http://www.ams	email: des	sm.lgmn@usda.go	4	
1500C					

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, 8/10/2007



Allegation: (b)(4) is using an unfair carcass merit buying program with the intent and effect of manipulating prices.

Mechanism: To capitalize on a potential price manipulating system, (b)(4) uses a mechanism with coordinated buying and selling components. The buying component (b)(4) consists of (b)(4) (b)(4) The definition allows for a significantly higher base price offer (compared to other packers) but after the grid discounts are applied to the carcass the net price is close to the market net price. (b)(4) Both grids result in similar net prices, (b)(4) with the net effect being the packing facility does not bear significantly different costs of hogs procured from the negotiated The procurement of negotiated (b)(4) (b)(4) hogs with the high base price offer, does however, significantly affect the AMS enters the market. price reports when (b)(4) (b)(4) The selling component of pricing manipulation involves (b)(4) The selling component of (b)(4) The selling the mechanism provides the monetary incentive to (b)(4) component depends on two features. First, it depends on the action taken in the (b)(4) (b)(4) The second feature is that the hogs (b)(4) The net effect of (b)(4) receive a higher price than they would have the two features is that (b)(4) otherwise. That is, the actions significantly increase the price competing packers pay for hogs. (b)(4)

(b)(4)

Figure 1. Relevant entities and transactions in (b)(4) price manipulation case.

1

In summary, the mechanism for (b)(4)	to manipulate prices involves a buying and
selling component. The buying compon	nent relies on: (b)(4)
	(b)(4)
(b)(4)	he selling component, which provides the

(b)(4) (b)(4) The three key characteristics are identified by a lower case letter in the reference for establishing evidentiary value (Table 1).

Table 1. Summary of evidence, significance, and value to key price manipulation mechanisms components.

III COMPANIE COMPANIE CI		
Exhibit	Significance	Evidentiary value
	-	to manipulation
		component

	(b)(5) Predecisional and Deliberative
Table 1. Continues	

Table	1	Continued.
1 auro	1.	Commuca.

Exhibit	Significance	Evidentiary Value
	(b)(5) Predecisional and Delibera	ative
The key mechanism selling activities. Evidence Strength in the investigative	: Assessing the strength of evidence for report shows the following points. The	e key buying component (b)(4)
selling activities. Evidence Strength in the investigative	: Assessing the strength of evidence fo	or each key component as listed
selling activities. Evidence Strength	: Assessing the strength of evidence for report shows the following points. The	or each key component as listed e key buying component (b)(4) "" is well documented
selling activities. Evidence Strength in the investigative (Exhibits E-F2).	: Assessing the strength of evidence for report shows the following points. The (b)(4)	br each key component as listed be key buying component (b)(4) " is well documented
selling activities. Evidence Strength in the investigative (Exhibits E-F2).	: Assessing the strength of evidence fo report shows the following points. The	br each key component as listed be key buying component (b)(4) " is well documented
selling activities. Evidence Strength in the investigative r (Exhibits E-F2). The key buying com (b)(4)	Assessing the strength of evidence for report shows the following points. The (b)(4)	br each key component as listed be key buying component (b)(4) " is well documented
selling activities. Evidence Strength in the investigative r (Exhibits E-F2). The key buying com (b)(4)	: Assessing the strength of evidence for report shows the following points. The (b)(4)	br each key component as listed (b)(4) (b)(4
selling activities. Evidence Strength in the investigative r (Exhibits E-F2). The key buying com (b)(4)	Assessing the strength of evidence for report shows the following points. The (b)(4)	br each key component as listed (b)(4) (b)(4) (b)(4) (b)(4) (b)(4) (b)(4) (b)(4)

producers.

Evidence Limitations: A limitation on the two buying components is that (b)(7)c indicated in (b)(7)c iffidavit that the (b)(4)

(b)(4)

(b)(4) ¹ Specifically (b)(4) (b)(7)c stated: (b)(4)

² "Price discovery" and "price determination" are economic terms of art. Price discovery is how buyers and sellers learn what each will agree on as a particular price to effect a given transaction. Price determination refers to how the broad forces of supply and demand interact to establish a market price that buyers and sellers agree is acceptable for trade. In cases of monopoly, the single seller has sufficient market power that they can restrict output (alter supply) to raise prices or "determine" prices.

	method	(b)(7)c	describes to	(b)(4)	This sugge	sts (b)(5)	Predecisional and Deliberative	
				(b)(5) Predecision	al and Deliberative		· · ·	
(b)(5) Predecisional a		nsiderations su	ich as these	suggest	(b)(5) Prede	ecisional and Deliberative	
	,		(b)(5) Predecisional			Althoug	gh somewhat	
	terminolo	ogical, the	ese observation	s relate to th	ne legality, or if	a lack thereo	of to the question	
	of)(5) Predecisional and De		The cl	hart in Exhibi	t G also	
	suggests	(-			decisional and Deliberative		1 1	
			al and Dallhamative	(b)(5) 116				
			al and Deliberative		elling side of	(b)(4) acti	ons is whether	
		<u></u>					d acom aithan	
'r <mark>ede</mark>	ecisional and Delit	enven that	.t (b)(4)	are or	n the (b)(4)		d seem either	
				(b)(5) Predecision	al and Deliberative			
				(b)(5) Predecisiona	I and Deliberative			
	Currently	we have	evidence sugg	esting the	(b)(5) Predecisional and D	Deliberative	
				(b)(5) Predecisi	onal and Deliberative			
	There is a	un additio	nal factor that	is a concern	, even though	(b)(5) Pi	redecisional and Deliberative	_
				(b)(5) Predecisi	onal and Deliberative			
I								
	Conclusi		. . ,		_			
		ODS (b)	(A) is using ty	wo distinct i	pricing grids.		(b)(4)	1
Г	Conclusi	ons: (b)		wo distinct j	oricing grids,		(b)(4) (b)(4)]
	Conclusi	ons: (b)	(b)(4)		oricing grids,	which	(b)(4)	
			(b)(4) (b)	(4)			(b)(4) is published on]
[AMS's da	aily hog p	(b)(4) (b) price reports. E	(4) vidence sho	ws the effect of	f	(b)(4) is published on (b)(4)]
	AMS's da	aily hog p	(b)(4) (b) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	(4) widence sho causes base	ws the effect of prices paid for	(b)(4)	(b)(4) is published on (b)(4) hogs to be]
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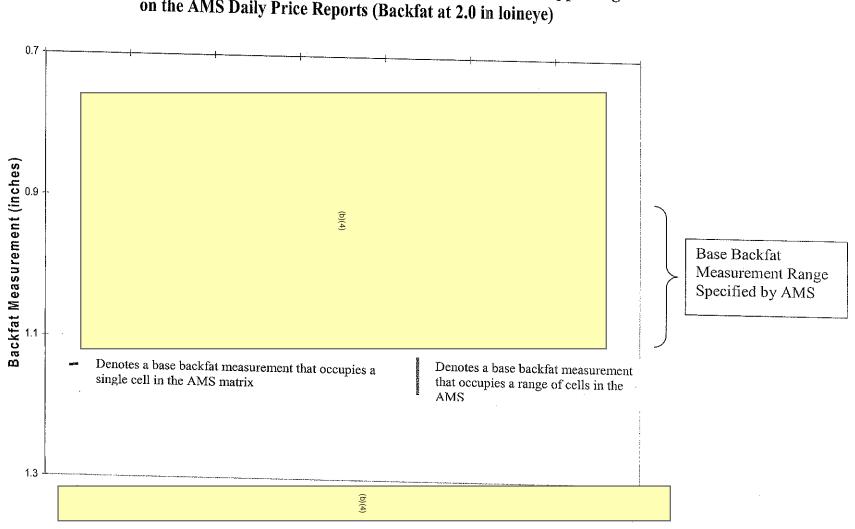
4

	That is, why should	
(b)(5) Predecisional and Deliberative	- · ·	
(b)(5) Predecisional and Deliberative		

While the market may in the longer term discipline (b)(4) there are several short and intermediate term concerns. The actions by (b)(4) are distorting indirectly market prices. This is not just the cash market but appears also to extend into the futures markets. The distorted prices are sending false signals on the cash market to producers, which could lead to greater price volatility through over production and a sudden price deflation.

	On the futur	es market, there appears		(b)(5) Predecisional and Delibe	erative	
		(b)(5) Predecisional and Deliberative	· · · -	. Whether this is 1(5) F	Predecisional and Delibera	ative
. [(b)(5) Predecisional and Del	iberative		
b) <mark>(5) Predecisiona</mark>	l and DeliberativThe		soming to	⁾⁽⁴⁾ are, however,	(b)(4)	
	(b)(4)	or a producer that held a	a governance p	osition on the	(b)(4)	

A final concern with ______ actions is if ______ can define a base hog outside the AMS definition, and have AMS accept the artificially high base prices reported by ______ (b)(4) _____ from these transactions, why can't any other ______ (b)(4) _____ do the same? Down this path leads massive confusion in livestock prices.



Comparison of Packer Base Price Ranges as Defined in the Matrix appearing on the AMS Daily Price Reports (Backfat at 2.0 in loineye) LM_HG203 Des Moines, Iowa

Wed, May 23, 2007

USDA Market News

This report is based on information provided by companies that agreed to continue to participate in Livestock Mandatory Reporting on a voluntary basis.

NATIONAL DAILY DIRECT AFTERNOON HOG REPORT PLANT DELIVERED PURCHASE DATA FOR Wednesday, May 23, 2007 (As of 1:30 PM)

CURRENT VOLUME BY PURCHASE TYPE LIVE AND CARCASS BASIS

	Estimated Today	Actual Today	Actual Week Ago	Actual Year Ago
Producer Sold:				
Negotiated	29,220	25,818	27,465	19,442
Other Market Formula	. 24,285	28,710	8,682	12,126
Swine or Pork Market Formula	126,397	78,705	75,147	64,815
Other Purchase Arrangement	32,779	29,493	24,563	27,482
Packer Sold (All Purchase Types):	21,657	10,361	13,637	5,935

NEGOTIATED PURCHASE (Including Packer Sold)

Barrows & Gilts (carcass basis): 18,547

Compared to Prior Day's closing weighted average (LM_HG200), .09 lower.

Base Price Range \$63.75 - (\$79.50, Weighted Average \$73.60

Base Market Hog 185 lb Carcass Basis (0.9-1.1 inch back-fat, 6 square inch loin/2.0 depth)

NATIONAL DAILY DIRECT NEGOTIATED HOG PURCHASE MATRIX 185 lb Carcass Basis (Defined by Muscle and Fat)

LOIN AREA/DEPTH (INCHES)

	BACK-FAT 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.4	4.0/1.4 66.25 $80.5063.75$ $79.6863.75$ $81.0063.75$ $81.0061.75$ $81.0061.75$ $77.2560.75$ $77.2559.75$ $73.5159.75$ $73.5056.25$ 73.50	5.0/1.7 67.75 $81.5066.25$ $80.5066.25$ $81.0063.75$ $81.0063.75$ $81.0063.75$ $77.2561.75$ $77.2561.75$ $74.5060.75$ $73.5159.14$ 73.50	$\begin{array}{r} 6.0/2.0\\ 69.25 83.00\\ 69.25 82.25\\ 67.75 81.50\\ 66.25 81.00\\ 66.25 81.00\\ 63.75 78.50\\ 63.75 77.50\\ 63.75 76.50\\ 61.75 75.50\\ 59.14 73.51 \end{array}$	7.0/2.3 70.25 84.50 70.25 83.75 69.25 83.00 69.25 82.25 67.75 81.50 66.25 80.50 66.25 79.50 63.75 78.50 63.75 77.50 59.14 75.50	8.0/2.7 70.25 85.50 70.25 85.00 70.25 84.50 70.25 83.75 70.25 83.00 69.25 82.25 67.75 81.50 67.75 80.50 66.25 79.50 59.14 77.50
nof		-30.00 -7.05	CARCASS WEIG	GHT DIFFERENTIA	LS 205#	-5.64 0.00
	155# 165#	-30.00 0.00 -11.25 0.00	185# 195#	-1.50 0.00 -1.41 0.00	215# 225#	-5.64 0.00 -5.64 0.00
s. Sala		MEASUREM	ENTS BASED ON	SLAUGHTER DATA	SUBMITTED	

5-Day Rolling Average Market Hog: 199.17 lb carcass, 0.74 inch back-fat, 7.05 square inch loin/2.35 inch loin depth, FFLI: 51.53%

http://www.ams.usda.gov/mnarchive/2007/may/05%2D23%2D2007/lm%5Fhg203.txt

7/19/2007 202



CME Commodity Products

Daily Livestock Report

Livestock market information provided by Steve Meyer and Len Steiner.

ODUCTION & PRI	CE SUMMA	ARY			Week	Ending	1	B/4/2007
14	11			Pct.		Pct.		Y/Y 9
ltem	Units	Last Week	Prior Week	Change	Last Year	Change	2007 YTD	Change
		4-Aug-07	28-Jul-07		5-Aug-06			
FI Slaughter	Thou. Head	. 671	668	0,45%	628	6.92%	20,001.0	1.6
Avg. Live Weight	Lbs.	1,283	1,282	0.08%	1,273	0.79%	1,261.2	-0,5%
Avg. Dressed Weight	Lbs.	. 781	778	0.39%	780	0.13%	766,0	-1.1
Beef Production	Million Lbs.	522,3	517.9	0.85%	488.9	6.83%	15,274,7	0.6
Live Fed Steer Price	\$ per cwt	90.75	90,63	0.13%	80.52	12.70%		
Georgia Feeder Steer Price	600-700 Lbs.	106.91	103.63	3.17%	104.43	2.37%		
Beef Cutout Value	600-900 Ch.	143.75	140,77	2.12%	140,62	2,23%		
Hide/Offat	\$/cwt	9.74	9.80	-0.61%	8.35	16.65%		
FI Slaughter	Thou, Head	1,992	1,977	0.76%	1,887	5.58%	61,242.0	2.3
Avg. Dressed Weight	Lbs.	198.0	199.0	-0.50%	196.0	1.02%	201.6	-0.1
Pork Production	Million Lbs.	394.7	392	0.69%	368.4	7.14%	12,330.5	2.2
Iowa-S. Minn, Direct	Wtd. Avg.	70.99	70,55	0.62%	68,63	3,44%		
Natl. Base Carcass Price	Wtd. Avg.	70,34	69.86	0.69%	65.60	7.23%		
Natl. Net Carcass Price	Wtd, Avg.	72.89	72.36	0.73%	67.94	7.29%		
Pork Cutout	185 Lbs.	72.09	75,11	-4.02%	72.27	-0,25%		
Young Chicken Slaughter	Million Head	164.4	165.8	-0.84%	161.3	1.95%	4,791.4	-0.7
Avg. Weight	Lbs.	5.48	5.46	0.37%	5.22	4.98%	5.4	1.1
Chicken Production	Million Lbs.	918.5	922.2	-0.40%	857.3	7.14%	25,967,9	0.4
Eggs Set	Million	218.3	217.8	0.22%	214.5	1.75%	6,487.3	0.4
Chicks Placed	Million Head	177,3	173.2	2.37%	173.1	2.42%	5,298,6	0,8
12-City Broiler Price	Composite	78.62	80.51	-2.35%	67.4	16.65%		
Georgia Dock Broiler Price	2.5-3 Lbs.	80.26	80.64	-0.47%	69,29	15.83%		
Young Turkey Slaughter	Million Head	5.015	4.832	3.79%	4,845	3.51%	136,0	1.5
Avg. Weight	Lbs.	28.23	28.19	0.14%	27.49	2,69%	28.9	-0.5
Turkey Production	Million Lbs.	141.6	136.2	3.93%	133.2	6.30%	3,931,0	1,1
Eastern Region Hen Price	8-16 Lbs.	88.00	87.70	0.34%	76.20	15.49%		
Com, Omaha	\$ per Bushel	3,14	3.06	2,61%	2.17	44,70%		
Wheat, Portland	\$ per Bushel	6,54	6,58	-0.61%	3,95			
Wheat, Kansas City	\$ per Bushel	6.30			4.71			
Soybeans, S. Iowa	\$ per Bushel	7.90			5,43			
Soybn Meal, 48% Decatur	\$ per Ton	207.10			162.40			

* Chicken & turkey slaughter & production are 1 week earlier than the date at the top of this sheet.

Please feel free to forward the Daily Livestock Report to others who you think will benefit from having this information. The DLR is published daily by Steve Meyer and Len Steiner, and distributed courtesy of Chicago Mercantile Exchange, Inc. You can subscribe for free by going to <u>www.dailylivestockreport.com/subscribe.asp</u>. To submit a comment or suggestion, please send an e-mail to: <u>feedback@dailylivestockreport.com/</u> To unsubscribe from the DLR newsletter, go to www.dailylivestockreport.com/unsubscribe.asp.

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Volume 5, Issue 147	Aug	ust 3, 2007	
E-Livestock Volume	3-Aug	2-Aug	27-Jul
LE (E-Live Cattle):	2402	1816	2480
GF (E-Feeder Cattle):	21	· 19	23
HE (E-Lean Hogs):	5963	5339	4289

Free real-time Globex quotes: www.cme.com/elivestockquotes

Market Comments

Friday was another very strong day for US hog futures, with October, December and February contracts closing at new contract highs. Even the nearby August contract registered strong gains, despite continuing news of heavy pork supplies coming to market. Indeed, a combination of weekly hog slaughter near 2 million head (+5.6% vs. 06) and also 1% heavier hog carcasses, caused overall weekly pork production for the week to jump by more than 7% compared to last year. Despite estimates of negative margins, packers appear willing to process as many hogs as they can find and pay a premium for doing so. For the week, the lean hog carcass price was an average \$70.99 /cwt, 3.44% higher than a year ago. The pork cutout, on the other hand, was for the week at \$72.09 /cwt, now slightly down compared to last year. Furthermore, the lean hog carcass price on Friday closed at \$72.70 and above the cutout value of \$70.95. It is not often that the cutout trades below the price of hogs, the last time it did was at the end of June and early July following the surge in pork supplies.

At near \$2 per cwt, the spread between carcass and cutout values is very significant and indicates that a) packers are somehow getting ahead of the market and may soon need to adjust their processing plans and avoid further cutout declines; or b) packers are ramping up production in order to fill orders (China orders speculation continues rampant). It is our understanding that USDA pricing reports reflect only prices paid in the US market by US market participants. In the short term, it is possible that packers are receiving revenue streams that are not immediately apparent. However, if it is true that US packers are increasing slaughter to fill export orders and those orders start flowing out, we should see an eventual impact on US prices as domestic supplies tighten. As the DLR on August 1 pointed out, it is important to keep an eve on ham cutout values in the second half of the year, an item that normally has a seasonal up and generally carries overall pork prices into the high demand Q4 period. Ham prices closed at around \$66 /cwt this week while the Q4 implied futures price is well over \$90. Ham prices need to gain some traction to justify the very lofty futures prices for October and December. One casualty of the surge in pork supplies this week-pork belly futures for August declined the permissible daily limit of 450 points on Friday.

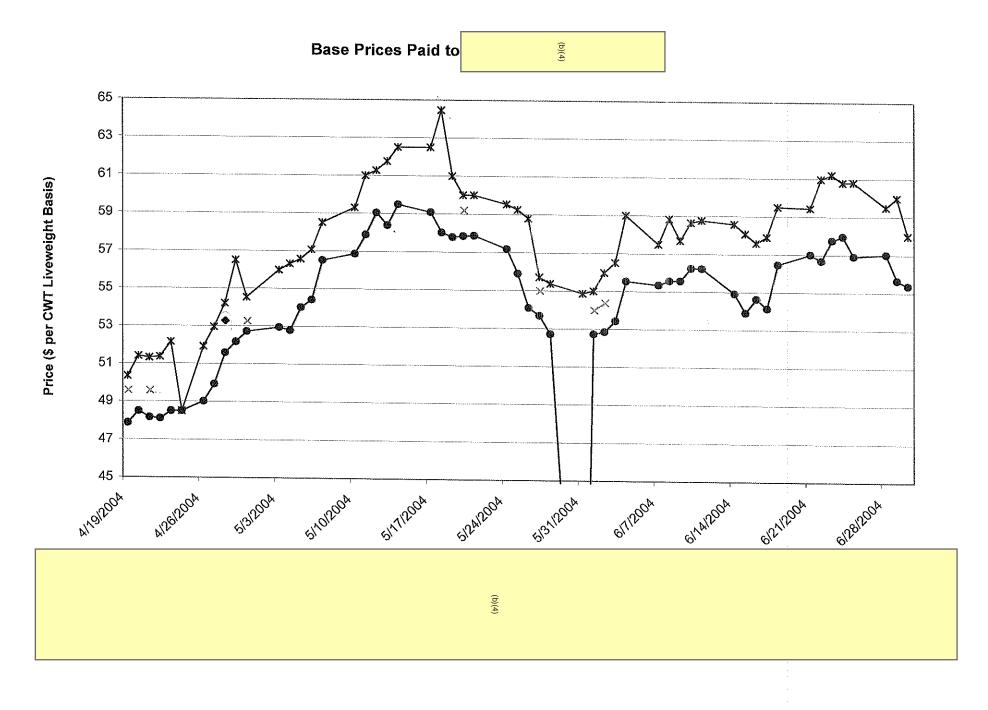
(b)(4)	Analysis		
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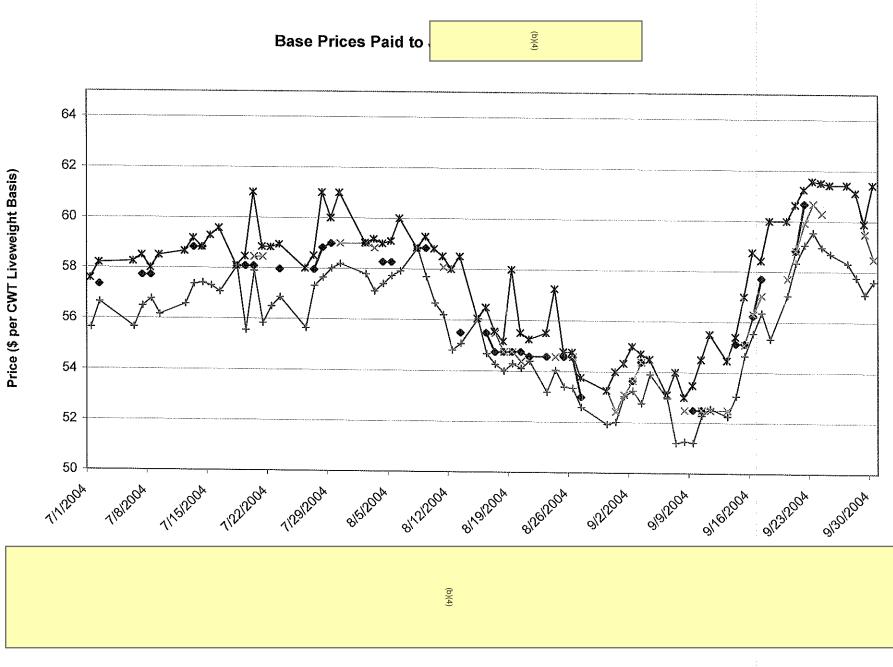
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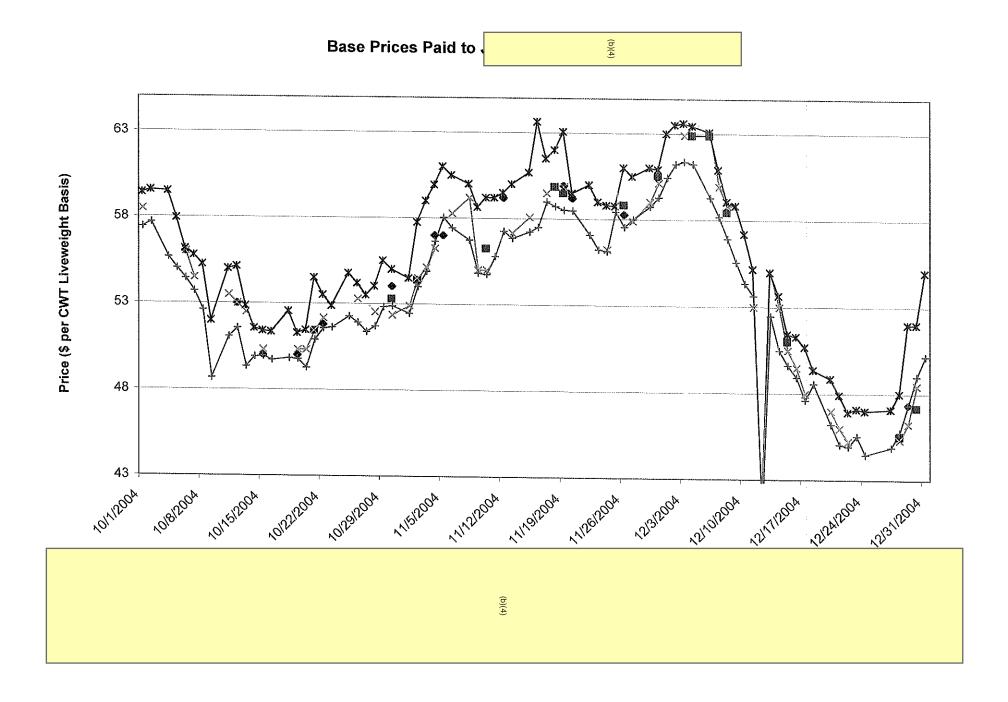
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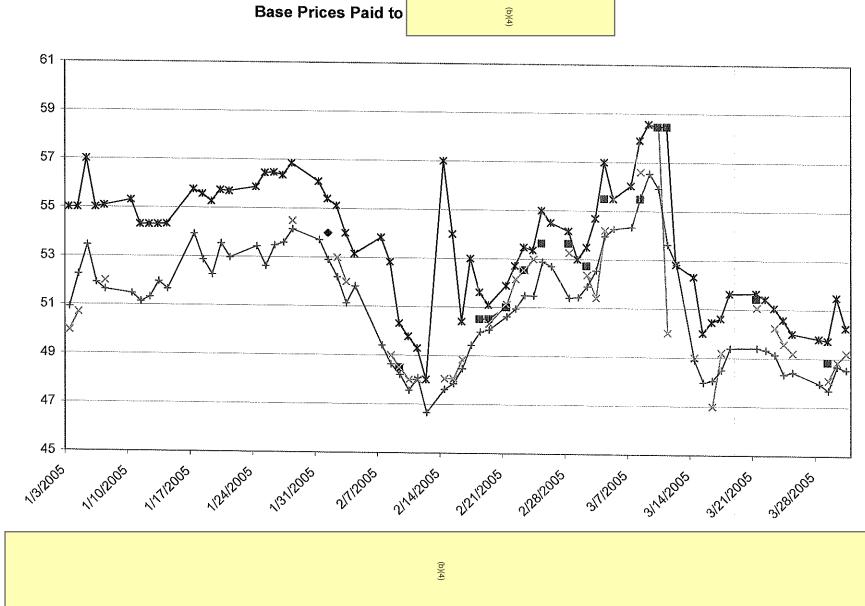
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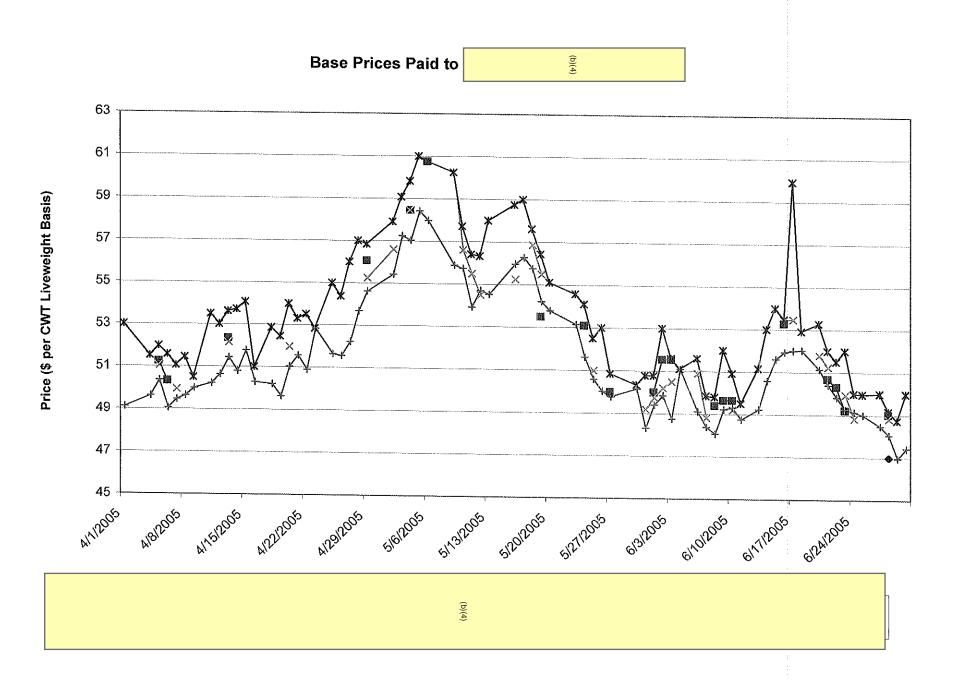
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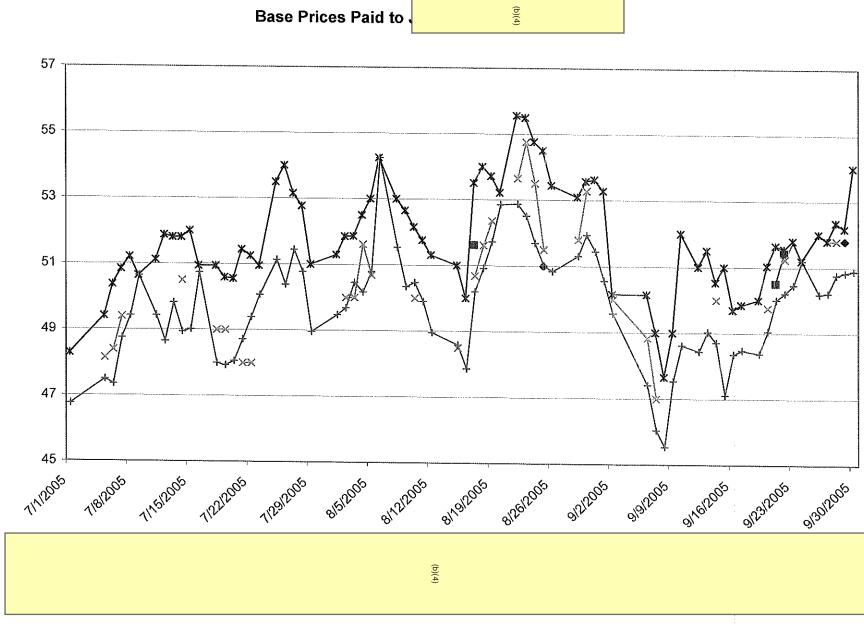
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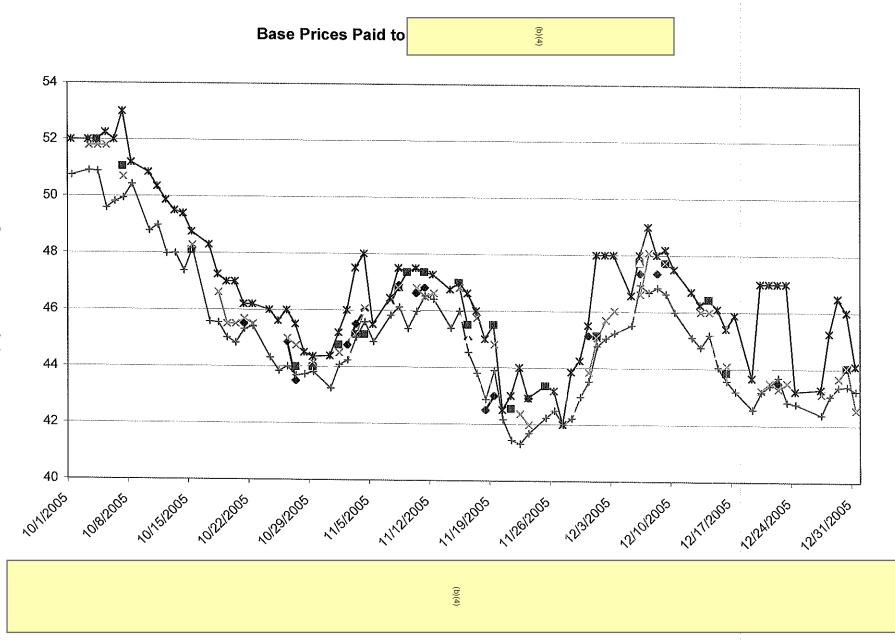
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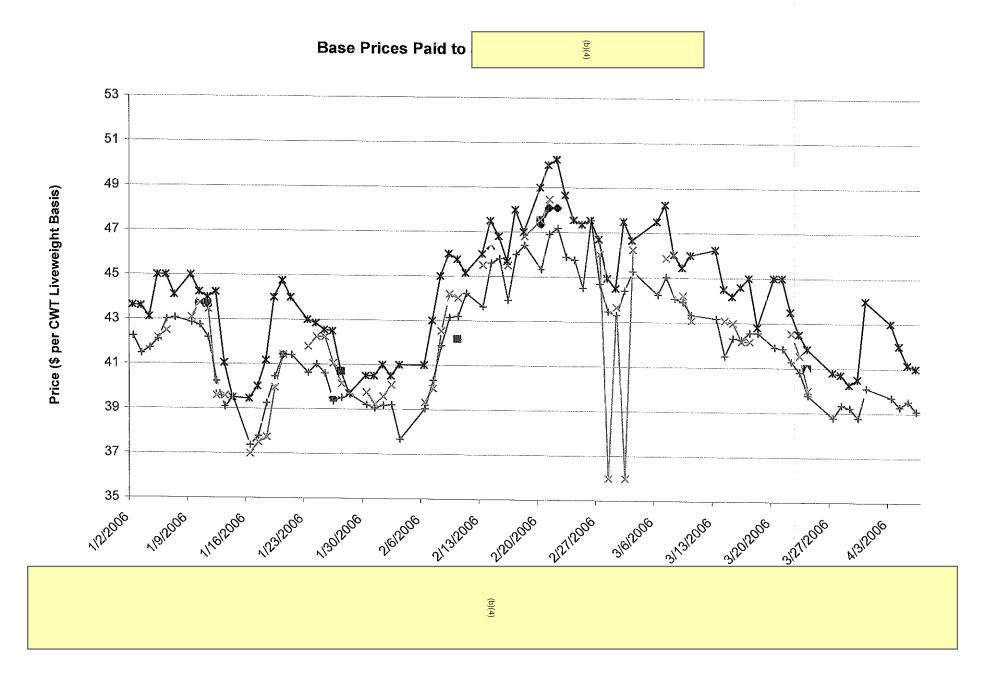


Price (\$ per CWT Liveweight Basis)

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Price (\$ per CWT Liveweight Basis)



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United States Department of Agriculture Grain Inspection, Packers and Stockyards Administration Stop 3601 1400 Independence Ave., SW Washington, DC 20250-3601

MAR 1 4 2006

TO: Lloyd C. Day Administrator Agricultural Marketing Service

FROM:	James Link Administrator James E. Link	
	Grain Inspection, Packers and Stockyards Administration	

SUBJECT: Agricultural Marketing Service (AMS) Classification of Hog Transactions Between (b)(4)

The Packers and Stockvards Program (P&SP) recently requested and received from (b)(4)

(b)(4)	information regarding	(b)(4)		
			е	
			DI	n
	(b)(4)		
		, 		
		(b)(4)		
t in DY-VD's understandie	a that ANAC is assumed			
t is P&SP's understandin		n as packer-owned purcha)(4)
(b)(4) hogs as negotiat	ou purchases rather tha	ii as packer-owned purcha	.203.	

(b)(5) P&SP respectfully recommends that (b)(4) purchases of (b)(4) hogs be classified as packer-owned transactions for AMS reporting purposes. If you have any questions or concerns about this request, or any question or comments, please contact Gary McBryde, Director of P&SP's Industry Analysis Division, at (202) 720-5552.

Estimated Daily U.S. Slaughter Capacity

_ ·	•		2001		ng 2002		ii 2002		ng 2003		1 2003		2004
Company	Plant	Plant (Co. Total	Plant	Co. Total	Plant	Co. Tota	Plant	Co, Total	Plant	Co. Total	Plant	Co. Total
1 Smithfield Smithfield, VA	Tar Heel , NC 9,500	32,000	9,500	32,000	9,500	32,000	9,500	32,000		32,000		32,000	· .
Morrell	Gwaltney, VA	8,800 15,000	,,	8,800		8,800		8,800	9,500	8,800	9,000	10,000	
	Sioux City, IA	15,000	80,300	15,000 15,000	80,300	15,000 15,000	80,300	15,000	80,300 、	15,000 15,000	80,300	17,000 14,500	
Farmland	Crete, NE Denison, IA	10,000 7,500		10,000		10,000 7,500		10,000 7,500	, (10,200	00,000	10,400	
2 Tyson Foods (18P)	Monmouth, IL Waterloo,IA.		25,500	8,000	25,500	8,000	25,500	8,000	25,500	9,200	29/80	9,200	112,300
Construction of the second	Logansport, IN	14,000		19,000 14,000		19,000 14,000		19,000 14,000		19,000		19,200	
	Storm Lake, IA Col. Junction, IA	14,000 .9,800		14,000 9,800		14,000 9,800		14,000		14,000		14,500	
	Madison, NE Perry, IA	7,500	1 000	7,500	71 200	7,500	<u> </u>	9,800 7,500	1	9,800 7,500		9,800 7,500	e dire. Rec
3. Swift strain that	Worthington, MN	17,000	1,000	6,700	71,000	6,700	71,000	6,700	71,000	6,700	71,000	6,800	72,300
	Marshalltown, IA Louisville, KY	17,500 8,500 4	3,000	17,500 8,500	43,000	17,500 8,500	43,000	17,500	42,000	17,500		18,500	
4 Excel	8eardstown, IL Ottumwa, IA	16,000 16,000		16,000	-10,000	16,000	43,000	8,500 16,000	43,000	10,000	44,500	10,000	46,000
5 Horme	Austin, MN	17,000		16,000 17,000	····	16,000		16,000		16,000	32,000	18,000	
6 Prem Std	Fremont, NE Milan, MO	9,000		9,000 7,100		9,000		9,000		9,000	26,000	18,000	26,800
	Clinton, NC	6,500 1	3,600	10,000	17,100	7 100	17,100	7,100	17,100	7,100	17.100	7,300	
8 Cindiana Pack	 Guymon, OK Delphi, IN 		6,000 2,000	16,000	16,000	16,000	16,000	16,000	16,000	16:000	16,000	16,000	16,000
9 v Hatfield. 10 Sara Lec	Hatfield, PA		7,800	7,800	7,800	7,800	7,800	7,800		7.800	12,000	12,500 (12,500
	Newburn, TN	2,500	7,000	6,500	9,000	6,500 2,500	9,000	6,500 2,500	9,000	6,500	9.000		
11 Clougherty 12 UH Routh	Vernon, CA Sandusky, OH		5,800 1,200	6,800 4,200	6,800 4,200	6,800	6,800	6,800	6,800	6.800	6,800	7,300	8,800 7,300
 Meadovibroek Farms Sigux Prame 	🕴 Rantoul, IL							4,200	4,200	≈ 4, <u>200</u>)	4,200	4,200	4,200
15 Greenwood	Sloux Center, IA Greenwood, SC		2,900	2,900	2,900	2,900 3,000	2,900	2,900	2,900	2,900	2,900	3.500	3 500
16 Johnsonvilletty	Watertown, WI Momence, IL	550	800	550 1,250		550	1	550		3,000 550	3,000	3,000	3.000
Oldhäm's Sausage.	Holton, KS				1,800	1,250	1,800	1,250	1,800	1,250	1,800	1,350	37,20
17 Pirie Ridge Farms 18 «Perk King Packing	Des Moines, A Marengo, IL	6,000 6	,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	2,500	2,500
19. Fisher Ham and Mear	Spring, TX Navasota, TX			مربوب تستحد بدور		موتر بارون و رواند و ر				فمنحصب فعيقت		2,000	2,000
20 USA Pork Broducts	Hazellton, PA							internet (500	2000
27. Abbyland Foods 22. Spectrum Mears	Curtiss, WI Mount Morris, IL	700	700	700	700	700	700	200	700	700	700	2000 1,700	2000
23 Yosemite Mean	Modesto, CA		,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,200	1,600	1,600
24 Reidy's 25 Vin-Lee-Ron	Souderton, PA	and the second sec	800.	800	800	800	800	800	800	800	800	1,400	1,400
26 Boo Evars Farms 🐳	Bidwell, OH Xenia, OH	150 300		150		150		150		150		1,100 200	1,100
	Hillsdale, MI	500		300 500	-	300 500		300 500		. 300 500		300 300	
27 Odom's	Galva, II Little Rock, AR		450 750	500 750	1,450	500 750	1,450	500	1 450.	500	1,450	300	1,100
8 Martin's Pork Products 9 Cloverdale Foods	Falcon, NC Minot, ND	600		600		600	750	750 600	750	750 600		1,000 1,000	1,000
0. Verschop, Meats	Sioux City, IA	920	920	920	920	920	920	920	. 920	920	920	920	920
1. Peorla Packing 2. The Pork Company	Chicago, IL Warsaw, NC	نىغىمىسىغى بىغىمىغى. ئەيمىسىغى بىغى ب										800 750	800. 750
3 Independent Meat	Twin Falls, ID		350	650	650	650	650	650	650	650	650	750 650	750 650
4 Masami Weat Co. 5 Owens Sausage	Klammath Falls, OR Richardson, TX		300 300	300 800	300 800	300 800	300 800	300 800	300	300	300:	650	650
6 Dekalb Co Packing 7 Calinan	De Kalb, IL Peoria, IL	مىلغانى بىيغانىيى بىرىغىيە. ۋىلەت سىمىرىيە قىيىد					000	800	800	800	800	600 500	600 500
8 EB Purnell Sausage	Simsoriville, KY											425 400	425
9 U.C. Potter Atlance Premium Brands)	Durant, OK	∙ini ing in •	'					بر این			****		400
), Williams Sausage Co. L. Carleton Packing	Union City, KY			050						ium ul ur		400	400
2 Lowell Packing	Carleton, OR Fitzgerald, GA		50 50	250 350	250 350	250 350	250 350	250 350		250	250	375	375
3 Parks Family Meats 3 Dean Sausage	Warsaw, NC Atalla, AL								~~~	350	350	350	350 300
4 Morris Meat Packing	Morris, IL					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					·	225 200	225 200
Southern Quality Meats	Lenoir City, TN Pontotoc, MS									······································		200	200
Gunhoe Sausage	Goode, VA								~			130 100	130
TOTAL CAPACITY		381,12	20	381,	,020	381,	020	377,	420	383,			775

50

SOURCE: Pork Checkoff

Winter 2004/05

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(b)(4)

5

The REG Procedure Model: MODEL1 Dependent Variable: Base_price Base_price

Analysis of Variance

	Sumof	Mean		
DF	Squares	Square	F Value	$\Pr > F$
16	65102	4068 84725	374.50	<.0001
2874	31225	10.86478		
2890	96327			
	2 00610	D. G	0 0750	
	16 2874	DF Squares 16 65102 2874 31225 2890 96327	DF Squares Square 16 65102 4068.84725 2874 31225 10.86478 2890 96327	DF Squares Square F Value 16 65102 4068.84725 374.50 2874 31225 10.86478 2890 96327 96327

Root MSE	3.29618	R-Square	0.6758
Dependent Mean	51.27481	Adj R-Sq	0.6740
Coeff Var	6.42845		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value
Intercept	Intercept	1	54.04297	1.09610	49.30
Head Received	Head received per lot	1	0.00086423	0.00176	0.49
Avg backfat	Average backfat per lot	1	-0.18009	0.73704	-0.24
Negotiated price	Binary Var; 1 negotiated price	1	-0.12500	0.30058	-0.42
	0 otherwise				
Tot live wgt PH	Total live weight per head	1	0.00771	0.00416	1.85
IV S1	Dummy Var; 1 if Jan 0	1	-1.30948	0.31032	-4.22
	otherwise				
IV_S2	Dummy Var; 1 if Feb 0	1	-0.87574	0.30557	-2.87
	otherwise				
IV_S3	Dummy Var; 1 if Mar 0	1	0.17939	0.32856	0.55
	otherwise				
IV_S4	Dummy Var; 1 if Apr 0	1	-2.94716	0.26685	-11.04
	otherwise				
IV_S5	Dummy Var; 1 if May 0	1	4.54458	0.32508	13.98
	otherwise				
IV_S6	Dummy Var; 1 if Jun 0	1	2.19720	0.30017	7.32
	otherwise				
IV_S7	Dummy Var; 1 if Jul 0	1	3.35454	0.29792	11.26
	otherwise		o	0.00405	10 00
IV_S8	Dummy Var; 1 if Aug 0	1	3.46494	0.32405	10.69
	otherwise		a	0.0001	11 00
IV_S9	Dummy Var; 1 if Sep 0	1	3.40946	0.30081	11.33
	otherwise	-	1 1 4 7 7 0	0 20220	2 70
IV_S10	Dummy Var; 1 if Oct 0	1	1.14779	0.30338	3.78
	otherwise				

The REG Procedure Model: MODEL1 Dependent Variable: Base_price Base_price

6

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value
IV_S11	Dummy Var: 1 if Nov 0	1	1.06667	0.31161	3.42
Trend	otherwise Trend Var from 0 to 24 in order of month	1	-0.50162	0.00980	-51.16

Parameter Estimates

Variable	Label	DF	Pr > t
Intercept	Intercept	1	<.0001
Head Received	Head received per lot	1	0.6235
Avg backfat	Average backfat per lot	1	0.8070
Negotiated_price	Binary Var; 1 negotiated price 0 otherwise	1	0.6775
Tot live wgt PH	Total live weight per head	1	0.0644
IV S1	Dummy Var; 1 if Jan 0	1	<.0001
······································	otherwise		
IV_S2	Dummy Var; 1 if Feb 0	1	0.0042
***	otherwise		
IV S3	Dummy Var; 1 if Mar 0	1	0.5851
±v_55	otherwise		
IV_S4	Dummy Var; 1 if Apr 0	1	<.0001
±v_01	otherwise		
IV_S5	Dummy Var; 1 if May 0	1	<.0001
TA-22	otherwise		
IV_S6	Dummy Var; 1 if Jun 0	1	<.0001
10_30	otherwise	-	
TV 97	Dummy Var; 1 if Jul 0	1	<.0001
IV_S7	otherwise	-	
T17 CO	Dummy Var; 1 if Aug 0	1.	<.0001
IV_S8	otherwise		
TT 00	Dummy Var; 1 if Sep 0	1	<.0001
IV_S9	otherwise	7	(,0001
TV. 010	Dummy Var; 1 if Oct 0	1	0.0002
IV_S10	otherwise	T	0.0002
011		1	0.0006
IV_S11	Dummy Var; 1 if Nov 0	Ŧ	0.0000
	otherwise	1	<.0001
Trend	Trend Var from 0 to 24 in	7	<.0001
	order of month		

(b)(4)

The REG Procedure Model: MODEL1 Dependent Variable: Base_price Base_price

7

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr >
Model Error	16 50777	1031463 580576	64466 11.43385	5638.21	<.00
Corrected Total	50793	1612039			

Root MSE	3.38140	R-Square	0.6398
Dependent Mean	50.18543	Adj R-Sq	0.6397
Coeff Var	6.73781		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value
Intercept	Intercept	1	55.72387	0.29828	186.81
Head Received	Head received per lot	1	0.00261	0.00025002	10.44
Avg backfat	Average backfat per lot	1	-0.16022	0.14907	-1.07
Negotiated price	Binary Var; 1 negotiated price	1	-0.35764	0.03108	-11.51
	0 otherwise				
Tot live wgt_PH	Total live weight per head	1	-0.00108	0.00114	-0.95
IV_S1	Dummy Var; 1 if Jan 0	1	-0.40020	0.07317	-5.47
—	otherwise				
IV_S2	Dummy Var; 1 if Feb 0	1	0.14024	0.07445	1.88
	otherwise			0.07000	7 20
IV_S3	Dummy Var; 1 if Mar O	1	0.53446	0.07238	7.38
	otherwise	1	-2.34229	0.06892	-33.99
IV_S4	Dummy Var; 1 if Apr 0	T	-2.34229	0.00092	
	otherwise	1	4.68409	0.07690	60.91
IV_S5	Dummy Var; 1 if May 0 otherwise	Ŧ	4.00400		00.01
TM 86	Dummy Var; 1 if Jun 0	1	2.04994	0,07563	27.11
IV_S6	otherwise	-			
IV_S7	Dummy Var; 1 if Jul 0	1	3.10513	0.07795	39.84
±•_07	otherwise				
IV_S8	Dummy Var; 1 if Aug 0	1	3.16994	0.07413	42.76
- · _ + ·	otherwise			•	
IV S9	Dummy Var; 1 if Sep 0	1	2.58867	0.07185	36.03
—	otherwise				
IV_S10	Dummy Var; 1 if Oct 0	1	0.69558	0.07188	9.68
	otherwise				

The REG Procedure Model: MODEL1 Dependent Variable: Base_price Base_price

8

Parameter Estimates

Variable	Label	DF	Parameter Estimate		t Value
IV_S11	Dummy Var; 1 if Nov 0 otherwise	1	1.26656	0.07153	17.71
Trend	Trend Var from 0 to 24 in order of month	1	-0.52233	0.00236	-221.69

Parameter Estimates

Variable	Label	DF	Pr > t
Intercept	Intercept	1	<.0001
Head Received	Head received per lot	1	<.0001
Avg backfat	Average backfat per lot	1	0.2825
Negotiated_price	Binary Var; 1 negotiated price 0 otherwise	1	<.0001
Tot live wgt PH	Total live weight per head	1	0.3446
IV SI	Dummy Var; 1 if Jan 0	1	<.0001
—	otherwise		
IV_S2	Dummy Var; 1 if Feb 0	1	0.0596
<u> </u>	otherwise		
IV S3	Dummy Var; 1 if Màr O	1	<.0001
-	otherwise		
IV S4	Dummy Var; 1 if Apr 0	1	<.0001
-	otherwise		
IV S5	Dummy Var; 1 if May 0	1	<.0001
—	otherwise		
IV S6	Dummy Var; 1 if Jun 0	1	<.0001
-	otherwise		
IV S7	Dummy Var; 1 if Jul 0	1	<.0001
—	otherwise		
IV S8	Dummy Var: 1 if Aug O	1	<.0001
_	otherwise		
IV S9	Dummy Var; 1 if Sep 0	1	<.0001
<u> </u>	otherwise		
IV S10	Dummy Var; 1 if Oct 0	1	<.0001
	otherwise		
IV_S11	Dummy Var; 1 if Nov 0	1	<.0001
	otherwise		
Trend	Trend Var from 0 to 24 in	1	<.0001
	order of month		

The REG Procedure Model: MODEL1 Dependent Variable: Base_price Base_price

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	···Pr· >· F·· ···
Model Error Corrected Total	16 27797 27813	497155 419629 916784	31072 15.09620	2058.28	<.0001

Root MSE	3.88538	R-Square	0.5423
Dependent Mean	50.00061	Adj R-Sq	0.5420
Coeff Var	7.77067		

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value
Intercept	Intercept	1	56.89775	0.43317	131.35
Head Received	Head received per lot	1	0.00158	0.00035107	4.49
Avg backfat	Average backfat per lot	1	-2.61887	0.25992	-10.08
Negotiated_price	Binary Var; 1 negotiated price 0 otherwise	1	0.59968	0.04979	12.04
Tot live wgt PH	Total live weight per head	1	-0.00346	0.00172	-2.01
	Dummy Var; 1 if Jan 0	1	-0.71230	0.11426	-6.23
IV_S1	otherwise				
IV_S2	Dummy Var; 1 if Feb 0	1	-0.28998	0.11428	-2.54
10_02	otherwise				
IV_S3	Dummy Var; 1 if Mar 0	1	0.03415	.0.11500	0.30
	otherwise			A 4000	01 10
IV_S4	Dummy Var: 1 if Apr 0	1	-2.26258	0.10723	-21.10
—	otherwise			0 10167	38.40
IV_S5	Dummy Var; 1 if May 0	1	4.67242	0.12167	38.40
_	otherwise	2	2.03088	0.11893	17.08
IV_S6	Dummy Var; 1 if Jun 0	1	2.03088	0.11033	11.00
	otherwise	1	2.70459	0.11719	23.08
IV_S7	Dummy Var; 1 if Jul 0	T	2.70400	0.11,10	20100
	otherwise	1	2,98712	0.11654	25.63
IV_S8	Dummy Var; 1 if Aug 0	T	2.90712		
	otherwise	1	2.48921	0.11386	21.86
IV_S9	Dummy Var; 1 if Sep 0 otherwise	-	2.10951		
	Otherwise Dummy Var; 1 if Oct 0	1	0.77910	0.11178	6.97
IV_S10	otherwise				
TT7 011	Dummy Var; 1 if Nov 0	1	1.52166	0.11293	13.47
IV_S11	otherwise	. —	•		
	OCHETHIOC				

The REG Procedure Model: MODEL1 Dependent Variable: Base_price Base_price

Parameter Estimates

Variable	Label	Ľ)F	Parameter Estimate	Standard Error	t Value
Trend	Trend Var from order of month		1	-0.46754	0.00366	-127.60
		Parameter Estima	ites			
	Variable	Label		DF	Pr > t	
	Intercept	Intercept		1	<.0001	
	Head Received	Head received per lo	ot	1	<.0001	
	Avg backfat	Average backfat per	lot	1	<.0001	
	Negotiated price	Binary Var; 1 negoti		orice 1	<.0001	
	negouraboa_P====	0 otherwise	-			
	Tot live wgt PH	Total live weight pe	r head	1 1	0.0440	
	IV_S1	Dummy Var; 1 if Jan		1	<.0001	
	TA ^{TA}	otherwise	•			
	TT7 CO	Dummy Var; 1 if Feb	0	1	0.0112	
	IV_S2	otherwise	Ŭ			
	T11 00	Dummy Var; 1 if Mar	Ω	1	0.7665	
	IV_S3	otherwise	0	1	0110000	
			0	1	<.0001	
	IV_S4	Dummy Var; 1 if Apr	0	T	1.0001	
		otherwise	•	1	<.0001	
	IV_S5	Dummy Var; 1 if May	U	. 1	<.0001	
		otherwise		-	4 0001	
	IV_S6	Dummy Var; 1 if Jun	0	1	<.0001	
		otherwise				
	IV S7	Dummy Var; 1 if Jul	0	1	<.0001	
•	<u> </u>	otherwise				•
	IV_S8	Dummy Var: 1 if Aug	0	1	<.0001	
		otherwise				
	IV S9	Dummy Var; 1 if Sep	0	1	<.0001	
		otherwise				
	IV_S10	Dummy Var; 1 if Oct	0	1	<.0001	
	10_210	otherwise				
	717 011	Dummy Var; 1 if Nov	0	1	<.0001	
	IV_S11	otherwise	~			
		Trend Var from 0 to	24 in	. 1	<.0001	
	Trend		2-1 II	-		
		order of month				

The REG Procedure Model: MODEL1 Dependent Variable: Base_price Base_price

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	16	282528	17658	1732.36	<.0001
Error	12880	131287	10.19305		
Corrected Total	12896	413815			
Root	MSE	3.19266	R-Square	0.6827	

Root MSE	3.19266	R-Square	0.6827
Dependent Mean	51.80522	Adj R-Sq	0.6823
Coeff Var	6,16281		

Parameter Estimates

	· · · · · · · · · · · · · · · · · · ·		Parameter	Standard	
Variable	Label	DF	Estimate	Error	t Value
Intercept	Intercept	1	59.82606	0.47195	126.76
Head Received	Head received per lot	1	0.00093230	0.00073403	1.27
Avg backfat	Average backfat per lot	1	-2.97717	0.43547	-6.84
Negotiated price	Binary Var; 1 negotiated price	1	-0.76038	0.08169	-9.31
	0 otherwise				
Tot live wgt_PH	Total live weight per head	1	-0.00063706	0.00195	-0.33
IV_S1	Dummy Var; 1 if Jan 0	1	-0.08070	0.14039	-0.57
-	otherwise				
IV_S2	Dummy Var; 1 if Feb 0	1	0.06014	0.14433	0.42
-	otherwise				0 70
IV_S3	Dummy Var; 1 if Mar 0	1	0.37445	0.13782	2.72
_	otherwise				15 00
IV_S4	Dummy Var; 1 if Apr 0	1	-2.10698	0.13198	-15,96
_	otherwise	_		0 14000	51 10
IV_S5	Dummy Var; 1 if May 0	1	4.35581	0.14008	31.10
—	otherwise	_	4 60.00	0 10000	12.21
IV_S6	Dummy Var; 1 if Jun 0	1	1.69490	0.13882	12.21
—	otherwise	_	0 51000	0 14070	19.01
IV_S7	Dummy Var; 1 if Jul 0	1	2.71289	0.14270	19.01
	otherwise		A AF733	0.14055	21.75
IV_S8	Dummy Var; 1 if Aug 0	1	3.05733	0.14055	21.15
	otherwise	1	0 70050	0.13673	20.26
IV_S9	Dummy Var; 1 if Sep 0	1	2.76952	0.13075	20.20
	otherwise	1	0.47436	0.13575	3.49
IV_S10	Dummy Var; 1 if Oct 0	• 1	0.47430	0.135/5	5.45
	otherwise	1	1.86533	0.13348	13.97
IV_S11	Dummy Var; 1 if Nov 0	Т	T.00722	V.10040	±
	otherwise				

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The REG Procedure Model: MODEL1 Dependent Variable: Base_price Base_price

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error t Value
Trend	Trend Var from 0 to 24 in order of month	1	-0.57868	0.00475 -121.72

Parameter Estimates

Variable	Label	DF	Pr > t
Intercept	Intercept	1	<.0001
Head Received	Head received per lot	1	0.2041
Avg backfat	Average bäckfat per lot	1	<.0001
Negotiated price	Binary Var; 1 negotiated price	1	<.0001
Hegeeracea_price	0 otherwise		
Tot live wgt PH	Total live weight per head	1	0.7445
IV S1	Dummy Var; 1 if Jan 0	1	0.5654
±*_~~	otherwise		
IV_S2	Dummy Var; 1 if Feb 0	1	0.6769
	otherwise		
IV S3	Dummy Var; 1 if Mar O	1	0.0066
	otherwise		
IV S4	Dummy Var; 1 if Apr 0	1	<.0001
	otherwise		
IV_S5	Dummy Var; 1 if May 0	1	<.0001
	otherwise		
IV S6	Dummy Var; 1 if Jun 0	1	<.0001
—	otherwise		
IV S7	Dummy Var; 1 if Jul 0	1	<.0001
—	otherwise		
IV S8	Dummy Var; 1 if Aug 0	1	<.0001
— .	otherwise		
IV S9	Dummy Var; 1 if Sep 0	1	<.0001
—	otherwise		
IV_S10	Dummy Var; 1 if Oct 0	1	0.0005
_	otherwise		
IV_S11	Dummy Var; 1 if Nov 0	1	<.0001
_	otherwise		
Trend	Trend Var from 0 to 24 in	1	<.0001
	order of month		

The REG Procedure Model: MODEL1 Dependent Variable: Base_price Base_price

Analysis of Variance

Source		DF	Sum of Squares	Mean Square	F Value	Pr > F
Model Error Corrected To	tal	16 5201 5217	97639 50992 148631	6102.45716 9.80422	622.43	<.0001
	Root MSE Dependent Coeff Var	Mean	3.13117 51.86454 6.03721	R-Square Adj R-Sq	0.6569 0.6559	

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value
Intercept	Intercept	1	55.16591	0.73964	74.59
Head Received	Head received per lot	1	0.00118	0.00099889	1.18
Avg backfat	Average backfat per lot	1	-1.55631	0.53933	-2.89
Negotiated_price	Binary Var; 1 negotiated price 0 otherwise	1	0.13404	0.10830	1.24
Tot live wgt PH	Total live weight per head	1	0.00626	0.00279	2.25
IV_S1	Dummy Var; 1 if Jan 0	1	0.71478	0.23494	3.04
IV_S2	otherwise Dummy Var; 1 if Feb 0 otherwise	1	0.68246	0.24539	2.78
IV_S3	Dummy Var; 1 if Mar 0	1	0.96379	0.22978	4.19
IV_S4	otherwise Dummy Var; 1 if Apr 0 otherwise	1	-2.60426	0.21932	-11.87
IV_S5	Dummy Var; 1 if May 0 otherwise	1	4.82595	0.22793	21.17
IV_S6	Dummy Var; 1 if Jun 0 otherwise	1	2.59829	0.21775	11.93
IV_S7	Dummy Var; 1 if Jul 0 otherwise	1	3.64168	0.22657	16.07
IV_S8	Dummy Var; 1 if Aug 0 otherwise	1	3.73016	0.21754	17.15
IV_S9	Dummy Var; 1 if Sep 0	1	3.65657	0.22929	15.95
IV_S10	otherwise Dummy Var; 1 if Oct 0	1	1.58321	0.23805	6.65
IV_S11	otherwise Dummy Var; 1 if Nov 0 otherwise	1	1.58656	0.24559	6.46

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The REG Procedure Model: MODEL1 Dependent Variable: Base_price Base_price

Parameter Estimates

Variable	Label			DF	Parameter Estimate	Standard Error	t Value
Trend	Trend Var from 0 order of month	to 24	in	1	-0.51607	0.00756	-68.24

Parameter Estimates

Variable	Label	DF	Pr > t
Intercept	Intercept	1	<.0001
Head Received	Head received per lot	1	0.2370
Avg backfat	Average backfat per lot	1	0.0039
Negotiated_price	Binary Var; 1 negotiated price 0 otherwise	1	0.2159
Tot live wgt PH	Total live weight per head	1	0.0246
IV_S1	Dummy Var; 1 if Jan 0 otherwise	1	0.0024
IV_S2	Dummy Var; 1 if Feb 0	1	0.0054
IV_S3	Dummy Var; 1 if Mar 0	1	<.0001
IV_S4	otherwise Dummy Var; 1 if Apr 0	1	<.0001
IV_S5	otherwise Dummy Var; 1 if May 0	1	<.0001
IV_S6	otherwise Dummy Var; 1 if Jun 0	1	<.0001
IV_S7	otherwise Dummy Var; 1 if Jul 0	1	<.0001
IV_S8	otherwise Dummy Var; 1 if Aug 0	1	<.0001
IV_S9	otherwise Dummy Var; 1 if Sep 0 otherwise	1	<.0001
IV_S10	Dummy Var; 1 if Oct 0	1	<.0001
IV_S11	otherwise Dummy Var; 1 if Nov 0	1	<.0001
Trend	otherwise Trend Var from 0 to 24 in order of month	1	<.0001

The REG Procedure Model: MODEL1 Dependent Variable: Base_price Base_price

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model Error Corrected Total	16 42899 42915	808685 558428 1367113	50543 13.01728	3882.75	<.0001

Root MSE	3.60795	R-Square	0.5915
Dependent Mean	50.57811	Adj R-Sq	0.5914
Coeff Var	7.13342		

Parameter Estimates

			Parameter	Standard	
Variable	Label	DF	Estimate	Error	t Value
Intercept	Intercept	1	59.85254	0.33909	176.51
Head Received	Head received per lot	1	-0.00068656	0.00016536	-4.15
Avg backfat	Average backfat per lot	1	-1.26202	0.17456	-7.23
Negotiated_price	Binary Var; 1 negotiated price 0 otherwise	1	-1.32496	0.04023	-32.93
Tot live wgt PH	Total live weight per head	1	-0.01123	0.00127	-8.81
IV_S1	Dummy Var; 1 if Jan 0	1	-0.54781	0.08672	-6.32
IV_S2	otherwise Dummy Var; 1 if Feb 0	· 1	-0.28809	0.08750	-3.29
IV_S3	otherwise Dummy Var; 1 if Mar 0	· 1	0.25918	0.08650	3.00
IV_S4	otherwise Dummy Var; 1 if Apr 0 otherwise	1	-2.98875	0.08073	-37.02
IV_S5	Dummy Var; 1 if May 0 otherwise	1	3.88130	0.09060	42.84
IV_S6	Dummy Var; 1 if Jun 0 otherwise	1	1.77651	0.08758	20.28
IV_S7	Dummy Var; 1 if Jul 0 otherwise	1	2.59457	0.08933	29.05
IV_S8	Dummy Var; 1 if Aug 0 otherwise	1	2.36412	0.08694	27.19
IV_S9	Dummy Var; 1 if Sep 0 otherwise	1	1,95452	0.08464	23.09
IV_S10	Dummy Var; 1 if Oct 0 otherwise	1	0.69164	0.08354	8.28
IV_S11	Dummy Var; 1 if Nov 0 otherwise	1	1.49260	0.08428	17.71

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The REG Procedure Model: MODEL1 Dependent Variable: Base_price Base_price

Parameter Estimates

Variable	Label	DF	Parameter Estimate	Standard Error	t Value
Trend	Trend Var from 0 to 24 in order of month	1	-0.49615	0.00277	-179.35

Parameter Estimates

Variable	Label	DF	Pr > t
Intercept Head Received	Intercept Head received per lot	1 1	<.0001 <.0001
Avg backfat	Average backfat per lot	1	<.0001
Negotiated_price	Binary Var; 1 negotiated price 0 otherwise	1	<.0001
Tot live wgt PH	Total live weight per head	1	<.0001
IV_S1	Dummy Var; 1 if Jan 0 otherwise	1	<.0001
IV_S2	Dummy Var; 1 if Feb 0 otherwise	1	0.0010
IV_S3	Dummy Var; 1 if Mar 0 otherwise	1 .	0.0027
IV_S4	Dummy Var; 1 if Apr 0 otherwise	1	<.0001
IV_S5	Dummy Var; 1 if May 0 otherwise	1	<.0001
IV_S6	Dummy Var; 1 if Jun 0 otherwise	1:	<.0001
IV_S7	Dummy Var; 1 if Jul 0 otherwise	1	<.0001
IV_S8	Dummy Var; 1 if Aug 0 otherwise	1	<.0001
IV_S9	Dummy Var; 1 if Sep 0 otherwise	1	<.0001
IV_S10	Dummy Var, 1 if Oct 0 otherwise	1	<.0001
IV_S11	Dummy Var; 1 if Nov 0 otherwise	1	<.0001
Trend	Trend Var from 0 to 24 in order of month	1	<.0001

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The REG Procedure Model: MODEL1 Dependent Variable: Base_Price Base price

Analysis of Variance Sum of Squares Mean DF Source Square F Value Pr > FModel 23 1123180 48834 3835.57 <.0001 Error 62247 792521 12.73187 1915701 Corrected Total 62270

Root MSE	3.56818	R-Square	0.5863
Dependent Mean	50.03562	Adj R-Sq	0.5861
Coeff Var	7.13127		

Parameter Estimates,

			Parameter	Standard	
Variable	Label	DF	Estimate	Error	t Value
	· · · · · · · · · · · · · · · · · · ·		100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 	н. 1	
Intercept	Intercept	1	42.81784	0.20608	207.77
Head_Received	Head received per lot	1	0.00306	0.00022082	13.87
Avg_Backfat	Average backfat per lot	1	0.14233	0.00444	32.03
Negotiated_price	Binary Var; 1 negotiated price	1	0.04028	0.03309	1.22
· .	0 otherwise			1	
Shrink	1 minus head Killed divided by	1	-0.83871	0.31793	-2.64
	head recieved		· · · · ·		
PLG	Price length, puchase date	1	-0.25056	0.01504	-16.66
	minus kill date		•		
Tot live wgt PH	Total live weight per head	1 .	-0.03043	0.00056687	-53.67
Truck D	Trucking deduction	1	-0.02921	0.00566	-5.16
NPB D	NPB deduction	. 1	0.36255	0.01220	29.73
Ins D	Insurance deduction	1	-0.05024	0.01651	-3.04
Other D	Other deduction	1	0.00202	0.00589	0.34
Yr 2004		1	12.77160	0.06402	199.51
Yr 2005		1	7.69116	0.05456	140.96
IV S1	Dummy Var; 1 if Jan 0 else	1	4.93275	0.07846	62.87
IV S2	Dummy Var: 1 if Feb 0 else	1	5.49376	0.07626	72.04
IV S3	Dummy Var; 1 if Mar 0 else	1	5,15059	0.07576	67.99
IV ⁻ S4	Dummy Var, 1 if Apr 0 else	1	3.31485	0.07288	45.48
IV S5	Dummy Var; 1 if May 0 else	1	7.17156	0.07255	98.85
IVS6	Dummy Var; 1 if Jun 0 else	1	4.01234	0.07027	57.10
IV S7	Dummy Var; 1 if Jul 0 else	1	4.46274	0.07043	63.37
IV S8	Dummy Var; 1 if Aug 0 else	1	4.39326	0.06857	64.07
IV S9	Dummy Var; 1 if Sep 0 else	. 1	3.69241	0.06726	54.90
IV_S10	Dummy Var: 1 if Oct 0 else	1	1.09378	0.06779	16.13
IV S11	Dummy Var: 1 if Nov 0 else	1	1.78476	0.06833	26.12
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The REG Procedure Model: MODEL1 Dependent Variable: Base_Price Base price

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Parameter Estimates

Variable	Label	DF	Pr > t
Intercept	Intercept	1	<.0001
Head Received	Head received per lot	1	<.0001
Avg_Backfat	Average backfat per lot	1 '	<.0001
Negotiated_price	Binary Var; 1 negotiated price 0 otherwise	1	0.2234
Shrink	1 minus head Killed divided by head recieved	1	0.0083
PLG	Price length, puchase date minus kill date	1	<.0001
Tot live wgt_PH	Total live weight per head	1	<.0001
Truck D	Trucking deduction	1	<.0001
NPB D	NPB deduction	1	<.0001
Ins D	Insurance deduction	1	0.0023
Other D	Other deduction	1	0.7311
Yr 2004		1	<.0001
Yr_2005		1	<.0001
IV_S1	Dummy Var; 1 if Jan 0 else	1 1	<.0001
IV_S2	Dummy Var; 1 if Feb 0 else		<.0001
IV_S3	Dummy Var; 1 if Mar 0 else	1	<.0001
IV_S4	Dummy Var; 1 if Apr 0 else	1	<.0001
IV_S5	Dummy Var; 1 if May 0 else	1	<.0001
IV_S6	Dummy Var; 1 if Jun 0 else	1 1	<.0001
IV_S7	Dummy Var; 1 if Jul 0 else		<.0001
IV_S8	Dummy Var; 1 if Aug 0 else	1	<.0001
IV_S9	Dummy Var; 1 if Sep 0 else	1	<.0001
IV_S10	Dummy Var; 1 if Oct 0 else	1	<.0001
IV_S11	Dummy Var; 1 if Nov 0 else	1	<.0001

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Coeff Var

The REG Procedure Model: MODEL1 Dependent Variable: Base_Price Base price

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	·		Analysis of Var	riance		
	· .		Sum of	Mean	¥7 7	D 2 E
Source		DF	Squares	Square	F Value	Pr > F
Model		23	260590	11330	1479.54	<.0001
Error		10363	79358	7.65780		
Corrected To	otal	10386	339948			
		· .				
	Root MSE		2.76727	R-Square	0.7666	
	Dependent	Mean	52.24120	Adj R-Sq	0.7660	

Parameter Estimates

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			Parameter	Standard	1
Variable	Label	DF	Estimate	Error	t Value
			; 		
Intercept	Intercept	1	36.49049	0.48049	
Head_Received	Head received per lot	1	0.00138	0.00083094	1.66
Avg_Backfat	Average backfat per lot	1	0.04598	0.01464	3.14
Negotiated price	Binary Var; 1 negotiated price	1	-0.64700	0.09087	-7.12
	0 otherwise				
Shrink	1 minus head Killed divided by	1	-0.53851	0.61453	-0.88
	head recieved				· .
PLG	Price length, puchase date	. 1	-0.08945	0.04388	-2.04
	minus kill date				
Tot live wgt PH	Total live weight per head	1	-0.01041	0.00166	-6.25
Truck D	Trucking deduction	- 1	-0.47502	1.32025	-0.36
NPB D	NPB deduction	1	0.22490	0.04027	5.58
Ins D	Insurance deduction	1	-2.56129	2.21924	-1.15
Other D	Other deduction	1.	-1.83761	0.92203	-1.99
Yr 2004		1	17.27740	0.13884	124.45
Yr 2005		1	10.81995	0.12381	87.39
IV_S1	Dummy Var; 1 if Jan 0 else	1	7.99821	0.15465	51.72
IV S2	Dummy Var: 1 if Feb 0 else	1	6.67003	0.15262	43.70
IV S3	Dummy Var; 1 if Mar 0 else	1	6.24552	0.15310	40.80
IV S4	Dummy Var; 1 if Apr 0 else	1	4.60112	0.13943	33.00
IV S5	Dummy Var; 1 if May 0 else	1	8.35991	0.12910	64.76
IV S6	Dummy Var; 1 if Jun 0 else	1	5.86766	0.12228	47.98
IV S7	Dummy Var; 1 if Jul 0 else	1	5.68446	0.13239	42.94
IV S8	Dummy Var; 1 if Aug 0 else	1-	5.05516	0.13202	38.29
IV S9	Dummy Var; 1 if Sep 0 else	1	4.58971	0.13163	34.87
IV_S10	Dummy Var; 1 if Oct 0 else	1	1.79608	0,12871	13.95
IV_510 IV_511	Dummy Var; 1 if Nov 0 else	1	2.33361	0.12620	18,49
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The REG Procedure Model: MODEL1 Dependent Variable: Base_Price Base price

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Variable	Label	DF	Pr > t
Intercept	Intercept	1	<.0001
Head Received	Head received per lot	1	0.0974
Avg Backfat	Average backfat per lot	1	0.0017
Negotiated_price	Binary Var; 1 negotiated price 0 otherwise	1	<.0001
Shrink	1 minus head Killed divided by head recieved	1	0,3809
PLG	Price length, puchase date minus kill date	1.	0.0415
Tot live wgt PH	Total live weight per head	1	<.0001
Truck D	Trucking deduction	1	0.7190
NPB D	NPB deduction	1	<.0001
Ins D	Insurance deduction	1	0.2485
Other D	Other deduction	. 1	0.0463
Yr 2004		1	<.0001
Yr 2005		1	<.0001
IV S1	Dummy Var; 1 if Jan 0 else	1	<.0001
IV S2	Dummy Var; 1 if Feb 0 else	. 1	<.0001
IV ⁻ S3	Dummy Var; 1 if Mar 0 else	1	<.0001
IV S4	Dummy Var; 1 if Apr 0 else	1	<.0001
IV S5	Dummy Var; 1 if May 0 else	1	<.0001
IV S6	Dummy Var; 1 if Jun 0 else	1	<.0001
IV S7	Dummy Var; 1 if Jul 0 else	1 .	<.0001
IV S8	Dummy Var; 1 if Aug 0 else	1	<.0001
IV S9	Dummy Var; 1 if Sep 0 else	1	<.0001
IV S10	Dummy Var; 1 if Oct 0 else	1	<.0001
IV_S11	Dummy Var; 1 if Nov 0 else	1	<.0001

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The REG Procedure Model: MODEL1 Dependent Variable: Base_Price Base price

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	'		Anal	ysis of Var	riance		
Source		DF		Sum of Squares	Mean Square	F Value	Pr > F
Model Error Corrected Tot	cal .	23 7956 7979	. *	229876 67790 297666	9994.61739 8.52064	1172.99	<.0001
	Root MSE Dependent Coeff Var			2.91901 51.75531 5.64003	R-Square Adj R-Sq	0.7723 0.7716	

Parameter Estimates

				Parameter	Standard	
	Variable	Label	DF	Estimate	Error	t Value
				1.		1
	Intercept	Intercept	1	36.05072	0.56626	63.66
	Head_Received	Head received per lot	1	0.00908	0.00076608	11.85
,	Avg_Backfat	Average backfat per lot	1	0.07288	0.01700	4.29
	Negotiated_price	Binary Var; 1 negotiated price	1	-0.14530	0.19487	-0.75
	· .	0 otherwise				
	Shrink	1 minus head Killed divided by	1	-2.42136	1.14156	-2.12
		head recieved				
	PLG	Price length, puchase date	1	-0.01152	0.05858	-0.20
		minus kill date				
	Tot_live_wgt_PH	-Total live weight per head	1	-0.00893	0.00200	-4.47
	Truck_D	Trucking deduction	1	-0.03444	0.04880	-0.71
	NPB_D	NPB deduction	1	0.03180	0.00782	4.07
	Ins_D	Insurance deduction	1	-6.74971	0.93489	-7.22
	Other_D	Other deduction	1	2.00818	1.78722	1.12
	Yr_2004		1	15.35966	0.15556	98.74
	Yr_2005		1	9.27884	0.13052	71.09
	IV_S1	Dummy Var; 1 if Jan 0 else	1	7.20082	0.18568	
	IV_S2	Dummy Var; 1 if Feb 0 else	1 .	7.82506	0.18867	41.48.
	IV_S3	Dummy Var; 1 if Mar 0 else	-1	6.46036	0.18736	34.48
	IV_S4	Dummy Var; 1 if Apr 0 else	1	3.62540	0.18031	20.11
	IV_S5	Dummy Var; 1 if May 0 else	1	8.71933	0.16331	53.39
	IV_S6	Dummy Var; 1 if Jun 0 else	1	5.92995	0.16114	36.80
	IV_S7	Dummy Var; 1 if Jul 0 else	1	6.09732	0.16331	37.33
	IV_S8	Dummy Var: 1 if Aug 0 else	1	5.23851	0.16554	31.65
	IV_S9	Dummy Var; 1 if Sep 0 else	1	4.99396	0.17224	28.99
	IV_S10	Dummy Var; 1 if Oct 0 else	1	1.52410	0.17566	8.68
	IV_S11	Dummy Var; 1 if Nov 0 else	. 1	2.85914	0.16838	16.98

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The REG Procedure Model: MODEL1 Dependent Variable: Base_Price Base price

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Variable	Label	DF	Pr > t
Intercept	Intercept	1	<.0001
Head Received	Head received per lot	1	<.0001
Avg_Backfat	Average backfat per lot	1	<.0001
Negotiated_price	Binary Var; 1 negotiated price 0 otherwise	1	0.4559
Shrink	1 minus head Killed divided by head recieved	1	0.0339
PLG	Price length, puchase date minus kill date	1	0.8441
Tot live wgt_PH	Total live weight per head	1	<.0001
Truck D	Trucking deduction	1	0.4803
NPB D	NPB deduction	1	<.0001
Ins D	Insurance deduction	1	<.0001
Other_D	Other deduction	1	0.2612
Yr 2004	and the second	1	<.0001
Yr 2005		1	<.0001
IV_S1	Dummy Var; 1 if Jan 0 else	1 .	<.0001
IV_S2	Dummy Var; 1 if Feb 0 else	1	<.0001
IV_S3	Dummy Var; 1 if Mar 0 else	. 1	<.0001
IV S4	Dummy Var; 1 if Apr 0 else	1	<.0001
IV S5	Dummy Var; 1 if May 0 else	1	<.0001
IV S6	Dummy Var; 1 if Jun 0 else	. 1	<.0001
IV S7	Dummy Var; 1 if Jul 0 else	.1	<.0001
IV S8	Dummy Var; 1 if Aug 0 else	1	<.0001
IV_S9	Dummy Var; 1 if Sep 0 else	1	<.0001
IV_S10	Dummy Var; 1 if Oct 0 else	1	<.0001
IV_S11	Dummy Var; 1 if Nov 0 else	1	<.0001

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The REG Procedure Model: MODEL1 Dependent Variable: Base_Price Base price

		nalysis of Varia	ince		
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model Error Corrected Total	23 89668 89691	2161906 1238860 3400766	93996 13.81608	6803.37	<.0001

Root MSE Dependent Mean Coeff Var	3.71700 49.50727 7.50799	R-Square Adj R-Sq	0.6357 0.6356

Parameter Estimates

			Parameter	Standard	
Variable	Label	DF	Estimate	Error	t Value
Tu baa a	Tatoacat	1	43.53126	0.15903	273.73
Intercept	Intercept	1	0.00569	0.00019202	
Head_Received	Head received per lot	1	0.12884	0.00340	37.87
Avg_Backfat	Average backfat per lot	1 · .		0.02970	-1.33
Negotiated_price	Binary Var; 1 negotiated price 0 otherwise	T , Y	_0.03937	0.02970	1.55
Shrink	1 minus head Killed divided by	1	-1.18300	0.38227	-3.09
	head recieved				
PLG	Price length, puchase date	1	-0.21896	0.01313	-16.67
· .	minus kill date			1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	
Tot live wgt PH	Total live weight per head	1 .	-0.03712	0.00035685	-104.01
Truck D	Trucking deduction	1	-0.00499	0.00249	-2.00
NPB D	NPB deduction	1	0.13202	0.00701	18.84
Ins D	Insurance deduction	1	0.00624	0.00869	0.72
Other D	Other deduction	1	-0.03600	0.00411	-8.76
Yr 2004		1	13.82613	0.05520	250.45
Yr 2005		1	8.50971	0.04739	179.58
IV S1	Dummy Var; 1 if Jan 0 else	<u>1</u> ·	5.78359	0.06599	87.65
IV S2	Dummy Var; 1 if Feb 0 else	1	5.92614	0.06586	89.99
IV S3	Dummy Var; 1 if Mar 0 else	1	5.73063	0.06458	88.74
IV S4	Dummy Var; 1 if Apr 0 else	1	3.71208	0.06407	57.94
IV S5	Dummy Var; 1 if May 0 else	• 1	7.50896	0.06160	121.90
IV S6	Dummy Var; 1 if Jun 0 else	1	4.70098	0.05998	78.37
IV S7	Dummy Var; 1 if Jul 0 else	1	4.96732	0.06031	82.37
IV S8	Dummy Var; 1 if Aug 0 else	1	4.30731	0.05843	73.71
IV_50	Dummy Var; 1 if Sep 0 else	1	3.87882	0.05773	67.19
IV_S10	Dummy Var; 1 if Oct 0 else	1	1.45607	0.05730	25.41
IV S11	Dummy Var; 1 if Nov 0 else	1	1.89171	0.05783	32.71
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The REG Procedure Model: MODEL1 Dependent Variable: Base_Price Base price

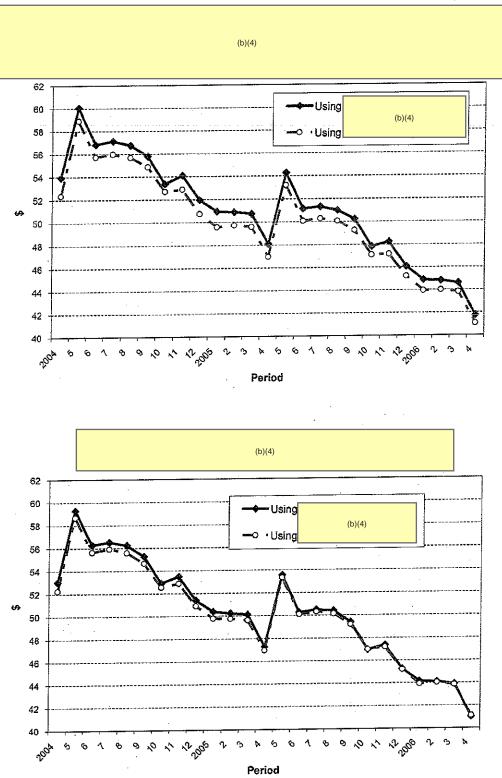
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Variable	Label	DF	Pr > t
Intercept	Intercept	1	<.0001
Head Received	Head received per lot	1	<.0001
Avg Backfat	Average backfat per lot	1	<.0001
Negotiated price	Binary Var; 1 negotiated price	1	0,1850
- <u>-</u>	0 otherwise		
Shrink	1 minus head Killed divided by	1	0.0020
	head recieved		
PLG	Price length, puchase date	1	<.0001
	minus kill date		
Tot_live_wgt_PH	Total live weight per head	1	<.0001
Truck D	Trucking deduction	- 1	0.0453
NPB D	NPB deduction	1 .	
Ins D	Insurance deduction	· 1	0.4725
Other D	Other deduction	1	<.0001
Yr 2004		1	<.0001
Yr 2005		1 1	<.0001
IV S1	Dummy Var; 1 if Jan 0 else	1	<.0001
IV S2	Dummy Var; 1 if Feb 0 else	. 1	<.0001
IV S3	Dummy Var; 1 if Mar 0 else	. 1	< 0001
IV ^{S4}	Dummy Var; 1 if Apr 0 else	. 1	<.0001
IV S5	Dummy Var; 1 if May 0 else	1	<.0001
IV S6	Dummy Var; 1 if Jun 0 else	1	<.0001
IV S7	Dummy Var; 1 if Jul 0 else	1	<.0001
IV S8	Dummy Var; 1 if Aug 0 else	1	<.0001
IV [_] S9	Dummy Var; 1 if Sep 0 else	1	<.0001
IV S10	Dummy Var; 1 if Oct 0 else	1	<.0001
IV S11	Dummy Var; 1 if Nov 0 else	1	<.0001
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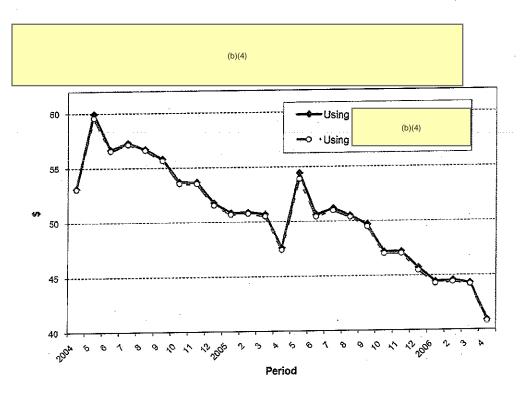
					2/3/2	1007	
					2/13/2 estima	ses	
			(b)(4)				
Apr-04	1.60	0.78	0.06	0.02	0.06	(0.02)	
May-04	1.15	0.62	0.10	0.09	0.38	0.30	
Jun-04	1.09	0.63	0.12	0.07	0.12	0.03	
Jul-04	1.14	0.59	0.14	0.09	0.14	0.05	
Aug-04	1.05	0.65	0.23	0.16	0.10	0.03	
Sep-04	0.93	0.61	0.23	0.17	0.15	0.06	
Öct-04	0.66	0.36	0.20	0.09	0.15	0.04	
Nov-04	1.22	0.60	0.10	0.00	0,15	0.01	
Dec-04	1.21	0.50	0.10	0.01	0.23	0.03	
Jan-05	1.36	0.59	0.28	0.14	0.14	(0.01)	
Feb-05	1.15	0.47	0.23	0.10	0.11	(0.03)	
Mar-05	1.14	0.49	0.25	0.08	0.19	0.01	
Apr-05	1.11	0.32	0.26	0.08	0.20	0.00	
May-05	1.07	0.22	0.28	0.14	0.54	0.32	
Jun-05	1.08	0.17	0.29	0.10	0.17	0.05	•
Jul-05	1.04	0.19	0.28	0.11	0.18	0.05	
Aug-05	0.92	0.26	0.31	0.17	0.13	0.04	
Sep-05	0.97	0.20	0.32	0.19	0.19	0.08	÷
Oct-05	0.73	(0.03)	0.21	0.10	0.17	0.04	
Nov-05	1.08	0.16	0.16	0.01	0.15	0.02	
Dec-05	0.85	0.03	0.13	0.02	0.25	0.03	
Jan-06	0.93	0.24	0.29	0.13	0.14	(0.01)	
Feb-06	0.81	0.06	0.29	0.09	0.12	(0.03)	
Mar-06	0.79	0.06	0.20	0.05	0.11	0.01	
Apr-06	0.68	(0.09)	0.21	0,07	0.10	(0.00)	
						· · ·	
Average	1.03	0.35	0.21	0.09	0.17	0.04	

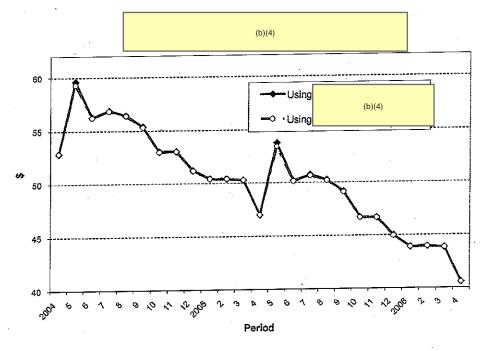
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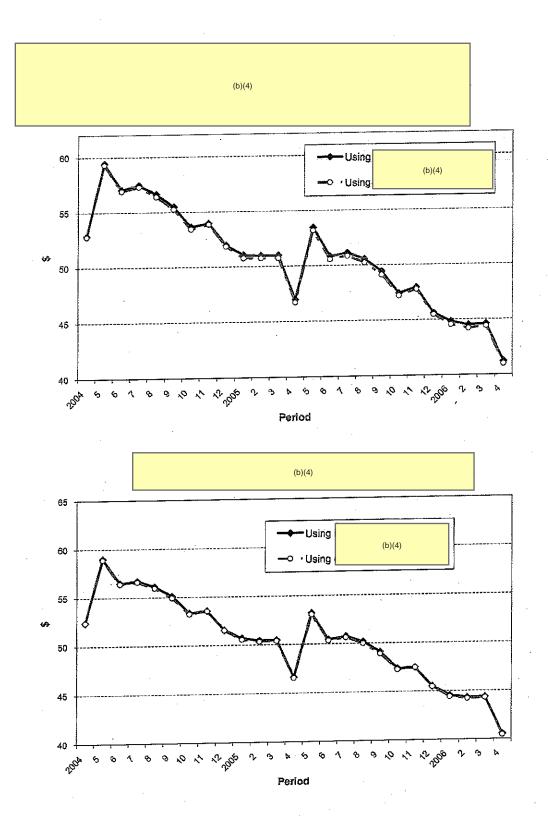


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The REG Procedure Model: MODEL1 Dependent Variable: Base_price Base_price

Analysis of Variance

			Sum	0Ť	Mean		
	Source	DF	Squar	res	Square F Va	alue Pr	> F
	Model	17	7838	313	46107 3277	7.32 <.0	001
	Error	40502	5697		4.06842		
	Corrected To		13536				
	GOI FECTED TO						
		· · · ·					
		Root MSE	3.750				
		Dependent Mean	50.572	290 Adj F	R-Sq 0.5789)	
		Coeff Var	7.416	60			
					2		
			Parameter	Estimates			
				Parameter	Standard		
					Error	t Value	Pr > [t]
Variab	ole	Label	DF	Estimate	21101	t vaido	11 1 1 1 1
Intero	Pant	Intercept	1	59.67977	0.34333	173.83	<.0001
	Received	Head_Received	1	0.00353	0.00030409	11.61	<.0001
_		Base_p_m	1	0.37139	0.01638	22.67	<.0001
Base_p	 Lated_price	Negotiated_pri	ce 1	0.042 <u>98</u>	0_04197	1.02	0.3059
-	ircass_Wgt_PH	• _	1	-0.03166	0.00176	-18.03	<.0001
		Sort_G_L	1	-0,71302	0.02477	-28.79	<.0001
Sort_G	1_ L		1	-0.63233	0.09199	-6.87	<.0001
IV_S1			1	-0.23534	0.09252	-2.54	0.0110
IV_S2			1	0.07711	0.09172	0.84	0.4005
IV_S3			1	-2.25348	0.08606	-26.19	<.0001
IV_S4	- ,		1	4.50277	0.09582	46.99	<.0001
IV_S5			1	1,96171	0.09399	20.87	<.0001
IV_S6			1	2.76744	0.09384	29.49	<.0001
IV_\$7			. 1	2,99230	0.09314	32.13	<.0001
IV_S8		•	1	2.57371	0.09084	28.33	<.0001
IV_\$9			· 1	0.70029	0.08954	7,82	<.0001
IV_S10			1.	1.65016	0.08973	18.39	<.0001
IV_S11			1.	-0.49117	0.00299	-164.07	<.0001
trend			i	Q 1 30 1 1 1			

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The REG Procedure Model: MODEL1 Dependent Variable: Base_price Base_price

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Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	17	497874	29287	1951.31	<.0001
Error	27658	415112	15,00876		
Corrected Total	27675	912986			
· · · · · ·	_	0 07411	D. Qayana	0 5453	

Root MSE	3.87411	R-Square	0.5453
Dependent Mean	50.00359	Adj R-Sq	0.5450
Coeff Var	7.74767		-1

			Parameter	Standard	•	
Variable	Label	DF	Estimate	Error	t Value	Pr > t
Intercept	Intercept	1	56,76655	0.44156	128.56	<.0001
Head Received	Head_Received	. 1	0,00090704	0.00035519	2.55	0.0107
Base p_m	Base_p_m	1	0.35018	0.01895	18.48	<.0001
Negotiated_price	Negotiated_price	1	0.59147	0.04969	11.90	< 0001
Tot_carcass_Wgt_PH		1	-0,01878	0.00226	-8,31	<.0001
Sort_G_L	Sort G_L	1	-0.44802	0.03253	-13.77	<.0001
	····	1	-0.79868	0.11452	-6.97	<.0001
IV_S1		1	-0.34796	0,11432	-3.04	0.0023
1V_S2		1	-0.04249	0.11517	-0.37	0.7121
IV_S3		1	-2.28932	0.10716	-21.36	<.0001
IV_S4		1	4.60285	0.12168	37.83	<.0001
IV_S5		1	2.03283	0.11899	17.08	<.0001
IV_S6		1	2,69586	0.11726	22.99	<.0001
IV_S7		1	2,94382	0.11650	25.27	<.0001
IV_\$8		1	2.50773	0.11403	21.99	<.0001
IV_S9		1	0.81550	0.11196	7.28	<.0001
IV_\$10		1	1.53085	0.11299	13.55	<.0001
IV_S11 trend	·	1	-0.45894	0,00369	-124.54	<.0001

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The REG Procedure Model: MODEL1 Dependent Variable: Base_price Base_price

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model Error Corrected Tota	17 44875 11 44892	848529 541932 1390461	49913 12.07648	4133.11	<.0001
	oot MSE Dependent Mean	3.47512 50.73706	R-Square Adj R-Sq	0.6103 0.6101	

Parameter	Estimates
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6.84928

Coeff Var

,	,		Parameter	Standard		
Variable	Label	DF	Estimate	Error	t Value	Pr > t
Intercept	Intercept	1	60.19197	0.32012	188.03	<.0001
Head_Received	Head Received	1	-0.00053540	0.00016181	-3.31	0.0009
Base_p_m	 Base_p_m	1	0.19813	0.01266	15.65	<.0001
Negotiated_price	Negotiated_price	1	-1 18718	0.03774	-31.46	<.0001
Tot_carcass_Wgt_PH		1	-0.02704	0.00164	-16.48	<.0001
Sort_G_L	Sort_G_L	1	-0.57026	0.02174	-26.23	<.0001
IV_S1		1	-0.41670	0.08228	-5.06	<.0001
IV_S2		1	-0.14578	0,08327	-1.75	0.0800
IV_S3		1	0.39514	0.08193	4.82	<.0001
IV_S4		1	-2.89404	0.07635	-37.90	<.0001
IV_\$5		1	4.10180	0.08472	48.42	<.0001
IV_S6		1	2.04509	0.08158	25.07	<.0001
IV_\$7		1	2.80272	0.08341	33.60	<.0001
IV_S8		1	2.69265	0.08113	33.19	<.0001
IV_S9		1	2.14510	0.08033	26.70	<.0001
IV_\$10		1.	0.92171	0.08010	11.51	<.0001
IV_S11		1	1.57114	0.08093	19.41	<.0001
trend		1	-0.48871	0.00263	-185.94	<.0001

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The REG Procedure Model: MODEL1 Dependent Variable: Base_price Base_price

Analysis of Variance

Source	. DF	Sum of Squares	Mean Square	F Value	Pr > F
Model Error Corrected Total	17 39727 39744	748221 488148 1236369	44013 12.28756	3581.91	<.0001

Root MSE Dependent Mean Coeff Var	3.50536 50.58801 6.92923	R-Square Adj R-Sq	0.6052 0.6050
Coerr var	0.92920		

Parameter Estimates

·			Parameter	Standard		
Variable	Label	DF	Estimate	Error	t Value	Pr > t
Intercept	Intercept	1	59.98364	0.35454	169.19	<.0001
Head Received	Head Received	1	-0.00095788	0.00016750	-5.72	<.0001
Base_p_m	Base_p_m	1	0.17353	0.01334	13.01	<.0001
Negotiated_price	Negotiated_price	1	-1,33237	0.04031	-33.05	<.0001
Tot_carcass_Wgt_PH		1	-0.02459	0.00183	-13.44	<.0001
Sort G_L	Sort_G_L	1	-0.45548	0.02453	-18.57	<.0001
IV_S1		1	-0.53589	0.08748	-6.13	<.0001
IV_51 IV_52		1	-0.23637	0.08821	-2.68	0.0074
IV_52 IV_53		1	0.33575	0.08738	3.84	0.0001
—		1	-2,94908	0.08119	-36.32	<.0001
IV_S4		f	3.97325	0.09094	43.69	<.0001
IV_\$5		1	1.93455	0.08791	22.01	<.0001
IV_S6		1	2,68349	0.08953	29,97	<.0001
IV_S7		1	2.50285	0.08734	28.66	<.0001
.IV_S8		1	1.94794	0.08543	22.80	<.0001
IV_\$9			0.81155	0.08476	9.58	<.0001
IV_S10			1.57286	0.08547	18.40	<.0001
IV_S11 trend		1	-0.48939	0.00281	-174.16	<.0001

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The REG Procedure Model: MODEL1 Dependent Variable: Base_price Base_price

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model Error Corrected Total	17 51355 51372	1042503 580015 1622518	61324 11.29423	5429.65	<.0001

Root MSE	3.36069	R-Square	0.6425
Dependent Mean	50.18429	Adj R-Sq	0.6424
Coeff Var	6.69670		

Parameter Estimates

· . ·			Parameter	Standard		
Variable	Label	DF	Estimate	Error	t Value	Pr > t
Intercept	Intercept	1	55.07453	0.30251	182.06	<.0001
Head Received	Head_Received	.1	0.00122	0.00024940	4.90	<.0001
Base_p_m	Base_p_m	1	0.38351	0.01183	32.43	<.0001
Negotiated_price	Negotiated_price	1	-0.46457	0.03107	-14.95	<.0001
Tot_carcass_Wgt_PH	U	1	-0.00472	0.00154	-3.06	0.0022
Sort_G_L	Sort_G_L	1	-0.53530	0.02115	-25.31	<.0001
IV_S1	· · · ·	1	-0.59045	0.07202	-8.20	<.0001
IV_S2		1	-0.04265	0.07303	-0.58	0.5592
IV_83		1	0.38460	0.07165	5.37	<.0001
IV_54		1	-2.35460	0.06776	-34,75	<.0001
IV_S5		1	4.62598	0.07616	60.74	<.0001
IV_56		1	2.09234	0.07421	28.20	<.0001
IV_S7		1	3.14264	0.07631	41.18	<.0001
IV_S8		1	3,18604	0.07328	43.48	<.0001
		1	2.67191	0.07103	37.62	<.0001
IV_S9		1	0.82483	0.07108	11.60	<.0001
IV_\$10		1	1.33466	0.07065	18.89	<.0001
IV_S11 trend		1	-0.51269	0.00235	-218.59	<.0001

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The REG Procedure Model: MODEL1 Dependent Variable: Base_price Base_price

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Analysis of Variance

		Sum of	Mean		
Source	DF	Squares	Square	F Value	Pr > F
Model	17	975064	57357	5069.21	<.0001
Error	48499	548752	11,31471		
Corrected Total	48516	1523816			

Root MSE Dependent Mean Coeff Var	3.36373 50.12104 6.71122	R-Square Adj R-Sq	0.6399 0.6398
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Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept Head_Received Base_p_m Negotiated_price Tot_carcass_Wgt_PH Sort_G_L IV_S1 IV_S2 IV_S3 IV_S4 IV_S5 IV_S5 IV_S6	Label Intercept Head_Received Base_p_m Negotiated_price Sort_G_L	DF 1 1 1 1 1 1 1 1 1 1			t Value 175.35 3.02 30.90 -13.93 -2.38 -20.50 -7.22 0.26 5.53 -33.12 59.16 26.94 39.25	<pre>Pr > t <.0001 0.0025 <.0001 <.0001 0.0172 <.0001 <.0001 0.7950 <.0001 <.00</pre>
IV_S7 IV_S8 IV_S9 IV_S10 IV_S11 trend		- - - - - - - - - - - - - - - - - - -	3.16582 2.61941 0.81243 1.35157 -0.51361	0.07524 0.07313 0.07311 0.07260 0.00242	42.08 35.82 11.11 18.62 -212.40	<.0001 <.0001 <.0001 <.0001 <.0001

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The REG Procedure Model: MODEL1 Dependent Variable: Base_price Base_price

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model Error Corrected To	17 32489 tal 32506	1151720 825502 1977223	67748 25.40867	2666.34	<.0001
	Root MSE Dependent Mean Coeff Var	5.04070 68.05387 7.40693	R-Square Adj R-Sq	0.5825 0.5823	

Parameter Estimates

• • • • •		•	Parameter	Standard		
Variable	Label	DF	Estimate	Error	t Value	Pr > t
Intercept	Intercept	1	54.02439	0.53587	100.82	<.0001
Head Received	Head Received	1	0.00341	0.00041826	8.15	<.0001
Avg backfat	Avg backfat	1	-2,67454	0.32213	-8.30	<.0001
Negociated Price	Negociated Price	· 1	0.53975	0.05995	9.00	<.0001
Tot Live Wgt PH	<u>.</u>	1	-0.00673	0.00201	-3.35	0.0008
Yr 2004		1	17.20101	0.11645	147.71	<.0001
Yr 2005		1	10.84922	0.10161	106.77	<.0001
IV S1		1	7.15584	0.15242	46.95	<.0001
IV S2		1	6,93535	0.15261	45.44	<.0001
IV_S3		1	6.82529	0.15092	45.22	<.0001
IV_54		1	2,34132	0.13022	17.98	<.0001
IV S5		1	10,98311	0.13913	78.94	<.0001
IV S6		1	6.77938	0.13928	48.67	<.0001
IV_00 IV S7		1	7.17794	0.13992	51.30	<.0001
IV_S8		1	6,66429	0.14102	47.26	<.0001
IV_58 IV_59		1	5,47230	0.13735	39.84	<.0001
IV_39 IV \$10		1	2.39821	0.13522	17.74	<.0001
IV_510 IV_511		. 1	2.83094	0.13694	20.67	<.0001
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The REG Procedure Model: MODEL1 Dependent Variable: Base_price Base_price

Analysis of Variance						
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F	
Model Error Corrected Total	17 8186 8203	387762 103986 491748	22810 12.70289	1795.62	<.0001	
Boot M	SE	3.56411	R-Square	0.7885		

Root MSE	3.56411	R-Square	0.7885
Dependent Mean	69.47861	Adj R-Sq	0.7881
Coeff Var	5.12980		

Parameter Estimates

· .		•	Parameter	Standard		
Variable	Label	DF	Estimate	Error	t Value	Pr > t
Intercept	Intercept	1	45.91731	0.73328	62.62	<.0001
Head Received	Head_Received	1	0.00239	0.00122	1.96	0.0497
Avg backfat	Avg backfat	1	-4.41113	0.62380	-7.07	<.0001
Negociated Price	Negociated_Price	1	-1.18699	0.30146	-3.94	<.0001
Tot Live Wgt PH	_	1	0.01494	0.00291	5.14	<.0001
Yr 2004		1	25.48335	0.18116	140.67	<.0001
Yr 2005		1	14.56859	0.13500	107.92	<.0001
IV S1		1	11.79592	0.20332	58.02	<.0001
IV S2		1	11.61762	0.20717	56.08	<.0001
IV ี S3		1	11.08233	0.20483	54.11	<.0001
IV S4		1	10.17820	0.20257	50.24	<.0001
IV_S5		1	14.44483	0.22736	63.53	<.0001
IV S6		1	7.61538	0.19838	38.39	<.0001
IV \$7		1	8.22904	0.19903	41.35	<.0001
IV 58		1	8.05191	0.18944	42.50	<.0001
IV S9		1	6.50565	0.18577	35.02	<.0001
IV S10		1.	2.17467	0.18408	11.81	<.0001
IV_S11	•	1	3.16779	0.17761	17.84	<.0001

The REG Procedure Model: MODEL1 Dependent Variable: Base_Price Base_Price

Analysis of Variance

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	24	235162	9798.43613	1247.07	<.0001
Error	7955	62504	7.85719		
Corrected Total	7979	297666			

Root MSE	2.80307	R-Square	0.7900
Dependent Mean	51.75531	Adj R-Sq	0.7894
Coeff Var	5.41600		

Parameter Estimates

			Parameter	Standard		
Variable	Label	DF	Estimate	Error	t Value	Pr > t
Intercept	Intercept	1	37.05865	0.54508	67.99	<.0001
Head Received	Head Received	1	0.00109	0.00079819	1.37	0.1711
Avg Backfat	Avg Backfat	1	0.01915	0.01647	1.16	0.2451
IV Prm		1	0.17485	0.18290	0.96	0.3391
Cash	· .	1	-7.92300	0.30895	-25.64	<.0001
Shrink	Shrink	1	-0.26231	1.09923	-0.24	0.8114
PLG	PLG .	1	-0,14975	0.05630	-2.66	0.0078
Tot_Live_Wgt_PH		1	-0.00318	0.00193	-1.64	0.1001
Truck D		1	-0.06073	0.04687	-1.30	0.1951
NPB D	· .	1	0.00474	0.00758	0.63	0.5316
Ins D		1	-0.13543	0,93397	-0.15	0.8847
Other D		1 -	0.92914	1.71679	0.54	0.5884
Yr 2004		1	15,15820	0.14995	101.09	<.0001
Yr 2005	•	1	8.98637	0.12619	71.21	<.0001
IV S1		1	7.15032	0.17780	40.22	<.0001
IV S2		1	7.85176	0.18173	43.21	<.0001
IV S3		1	6.74685	0.18059	37.36	<.0001
IV S4		1	3.67142	0.17353	21,16	<.0001
IV S5		1	8.74486	0.15689	55.74	<.0001
IV S6		1	5.98717	0.15424	38.82	<.0001
IV S7		1	6.21089	0.15758	39.41	<.0001
IV S8		1	5.35342	0.15874	33.72	<.0001
IV S9		1	5.21347	0.16613	31.38	<.0001
IV \$10		· 1 .	1.63743	0.16852	9.72	<.0001
IV_S11		1	3.03227	0.16194	18.72	<.0001

The REG Procedure Model: MODEL1 Dependent Variable: Base_Price Base_Price

Analysis of Variance

Source		Sum of	Mean Square	F Value	Pr > F
Model Error	24 89701	2252161 1150564	93840 12.82665	7316.02	<.0001
Corrected Total	89725	3402725	12.02000		
Dep	et MSE endent Mean ff Var	3.58143 49.50990 7.23377	R-Square Adj R-Sq	0.6619 0.6618	

Parameter Estimates

			Parameter	Standard		
Variable	Label	DF	Estimate	Error	t Value	Pr > t
· .	Tatawaant	1	41.99074	0.15436	272.04	<.0001
Intercept	Intercept	1	0.00430	0.00018578	23.16	<.0001
Head_Received	Head_Received	. ⊥	0.14703	0.00328	44.76	<.0001
Avg_Backfat	Avg_Backfat	· 1	-0.06645	0.02862	-2.32	0.0202
IV_Prm		1 . 1		0.03308	-81.92	<.0001
Cash		1	-2.71010		-3.05	0.0023
Shrink	Shrink	. <u>1</u>	-1.12222	0.36831		<.0001
PLG	PLG	1	-0.25533	0.01265	-20.19	
Tot_Live_Wgt_PH		1	-0.03010	0.00035405	-85.00	<.0001
Truck_D		1	-0.01231	0.00240	-5.12	<.0001
NPB_D		1	0.10053	0.00676	14.86	<.0001
Ins D		1	-0.00768	0.00837	-0.92	0.3588
Other_D		1	0.00045994	0.00398	0.12	0.9081
Yr 2004		1	13.86440	0.05329	260.19	<.0001
Yr 2005		1	8.51321	0.04577	185.99	<.0001
IV S1		1	5.83536	0.06354	91.83	<.0001
IV S2		1	5.97624	0.06364	93.90	<.0001
IV S3		1	5.74086	0.06242	91.98	<.0001
IV S4		1 ·	3.74622	0.06192	60.50	<.0001
IV_S5		1	7.47132	0.05940	125.77	<.0001
IV S6		1	4.62510	0.05785	79.94	<.0001
IV S7		1	4.97787	0.05841	85.23	<.0001
IV S8		1	4.27602	0.05626	76.00	<.0001
IV S9		1	3.84965	0.05552	69.34	<.0001
IV_39 IV_S10		1	1.22371	0.05563	22.00	<.0001
IV_S11		1	1.84773	0.05580	33.12	<.0001

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The REG Procedure Model: MODEL1 Dependent Variable: Base_Price Base_Price

Analysis of Variance								
	· .	Sum of	Mean					
Source	DF	Squares	Square	F Value	Pr > F			
Model	24	186346	7764.40534	652.37	<.0001			
Error	10336	123018	11.90186					
Corrected Total	10360	309363						

Root MSE	3.44991	R-Square	0.6024
Dependent Mean	51.14097	Adj R-Sq	0.6014
Coeff Var	6.74588		

		÷ .	Parameter	Standard		
Variable	Label	DF	Estimate	Error	t Value	Pr > t∫
Intercept	Intercept	1	35,73285	0,54998	64.97	<.0001
-	Head Received	<u> </u>	0.00537	0.00067418	7.96	<.0001
Head_Received	—	1	0.22623	0.01344	16.83	<.0001
Avg_Backfat	Avg_Backfat	- L		0.11285	-4.86	<.0001
IV_Prm	•	· 1	-0.54837			0.0282
Cash		. 1	0.57990	0.26417	2.20	
Shrink	Shrink	1	-0.73827	0.74305	-0.99	0.3205
PLG	PLG	1	-0.04148	0.05400	-0.77	0.4423
Tot_Live_Wgt_PH		1	-0.02276	0,00160	-14.19	<.0001
Truck_D		1	-0.42930	0.02692	-15.95	<.0001
NPB D		1	0.81643	0.04671	17.48	<.0001
Ins D		1	-0.45677	0.07801	-5.86	<.0001
Other D		1	-0.02153	0.01633	-1.32	0.1874
Yr 2004		1	15.48372	0.17567	88.14	<.0001
Yr 2005		1	10.69532	0.15376	69.56	<.0001
IV S1		1	7.52382	0.19161	39.27	<.0001
IV S2		1	6.27003	0.18985	33.03	<.0001
IV S3		1	5.97224	0.19035	31.37	<.0001
IV S4		1	4.36570	0.17334	25.19	<.0001
IV S5		1	7.64260	0.16131	47.38	<.0001
IV S6		1 .	4.84097	0.15185	31.88	<.0001
IV_50 IV_57		1	5.32295	0.16338	32.58	<.0001
IV_S8	~	· 1 ·	4.92158	0.16190	30.40	<.0001
IV_58 IV 59		1	4.50610	0.16346	27.57	<.0001
—		 1	1.63425	0.15967	10.24	<.0001
IV_S10		1 1		0.15967	9.59	<.0001
IV_\$11		±	1.51128	0.15/0/	9.09	<.0001

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The REG Procedure Model: MODEL1 Dependent Variable: Base_Price Base_Price

Analysis of Variance

	Sum of	Mean		
DF	Squares	Square	F Value	Pr > F
24	1228700	51196	4230.33	<.0001
62276	753670	12.10209		
62300	1982370			
	24 62276	DF Squares 24 1228700 62276 753670	DFSquaresSquare241228700511966227675367012.10209	DFSquaresSquareF Value241228700511964230.336227675367012.10209

Root MSE	3.47881	R-Square	0.6198
Dependent Mean	50.22008	Adj R-Sq	0.6197
Coeff Var	6.92712		

Variable	Label	DF	Parameter Estimate	Standard Error	t Value	Pr > t
Intercept	Intercept	1	43.12765	0.20294	212.52	<.0001
Head Received	Head_Received	1 .	0.00519	0.00020685	25.10	<.0001
Avg Backfat	Avg Backfat	1 ·	0.13449	0.00436	30.87	<.0001
IV Prm	2	1	-0.25588	0.03182	-8.04	<.0001
Cash		1	-0.28975	0.03250	-8.91	<.0001
Shrink	Shrink	1	-1.51230	0.30450	-4.97	<.0001
PLG	PLG	1	-0.20787	0.01389	-14.96	<.0001
Tot Live Wgt PH		. 1	-0.03156	0.00054888	-57.49	<.0001
Truck D		1	-0.02832	0.00562	-5.04	<.0001
NPB D		1	0.33800	0.01184	28.55	<.0001
Ins D		1	-0.05808	0.01629	-3.57	0.0004
Other D	1	1	0.00282	0.00610	0.46	0.6436
Yr 2004		· 1	13.19721	0.06244	211.35	<.0001
Yr 2005		1	7.64072	0.05320	143.61	<.0001
IV S1		1	4.99038	0.07643	65.29	<.0001
IV_S2		1	5.65404	0.07438	76.01	<.0001
IV S3		1	5.30070	0.07386	71.77	<.0001
IV S4		1	3.48556	0.07095	49.13	<.0001
IV S5		1	7.45924	0.07077	105.40	<.0001
IV S6		. 1	4.44942	0.06855	64.90	<.0001
IV S7		1	4.62498	0.06874	67.28	<.0001
IV S8		1	4.47188	0.06686	66.89	<.0001
IV S9		1	3.81449	0.06554	58.20	<.0001
IV S10		1	1.06407	0.06631	16.05	<.0001
IV_S11		1	2.01707	0.06659	30.29	<.0001