

2006 AAEA Extension Livestock
Outlook Symposium

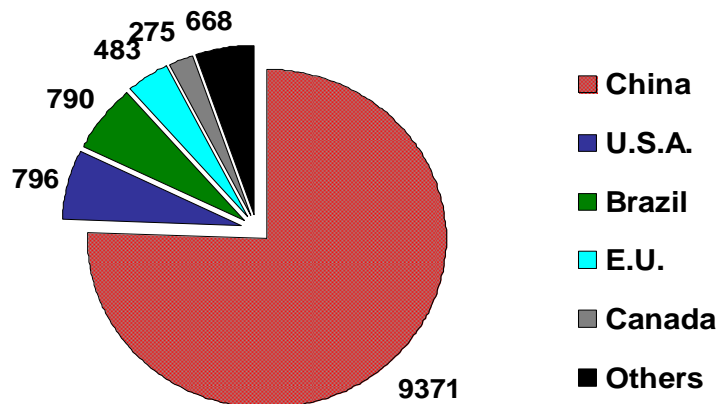
Hog and Poultry Price Outlook

Ron Plain
Professor of Agricultural Economics
University of Missouri-Columbia
www.ssu.missouri.edu/faculty/RPlain

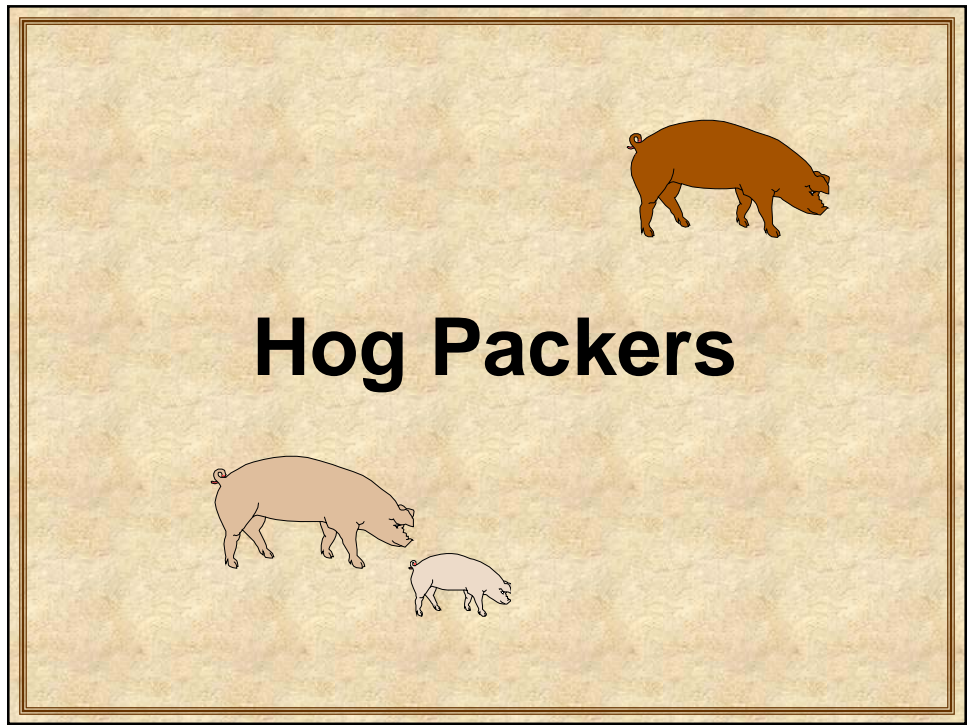
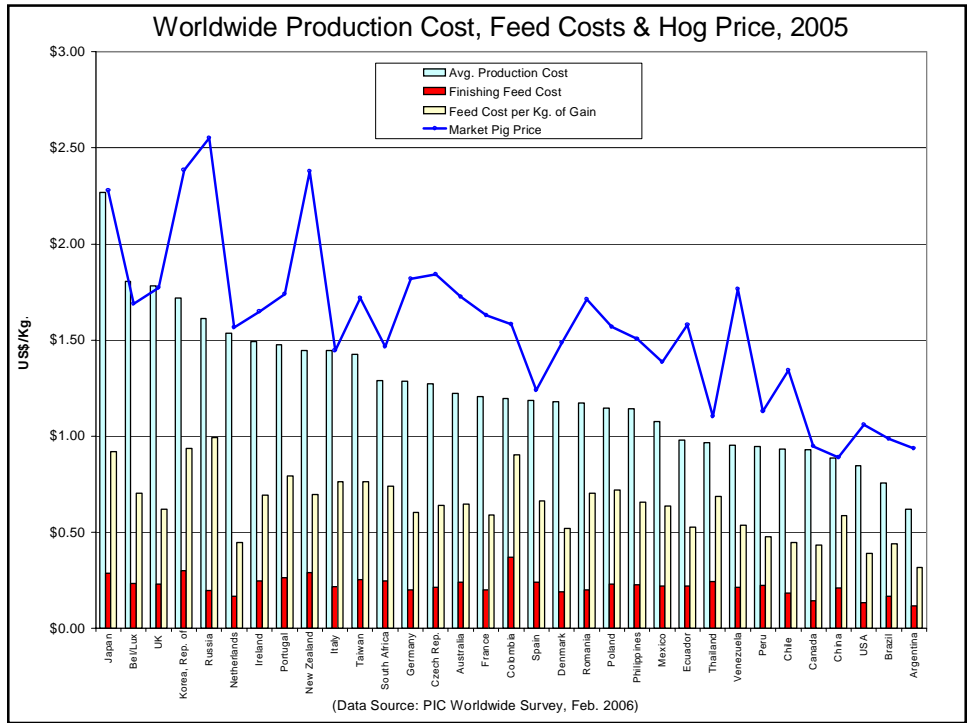


Growth in World Pork Production 2000-2005

(thousand metric tons)

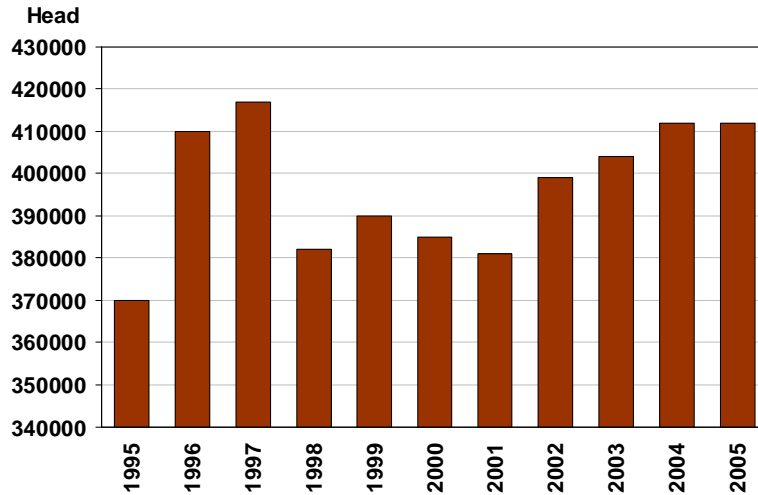


Source: USDA/FAS



When hog runs exceed slaughter capacity, hogs become worthless.

Daily Hog Slaughter Capacity



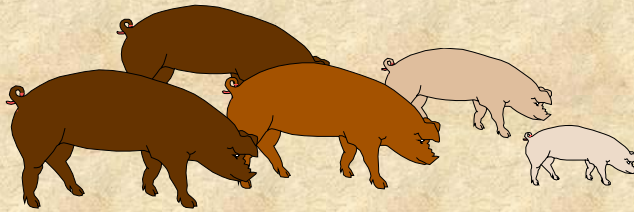
Increasing Hog Slaughter Capacity

- Triumph Foods, St Joseph, MO
- Triumph Foods, East Moline, IL
- Premium Standard, Milan, MO
- Olywest, Winnipeg
- Olywest, Red Deer
- Maple Leaf, Saskatoon

Potential to add 13% to kill capacity



Hog Cycle

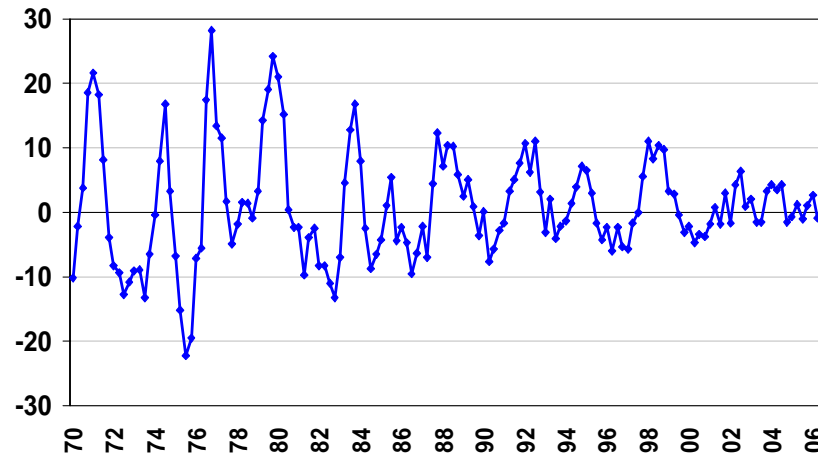


U.S. pork production is becoming more stable

U.S. Commercial Hog Slaughter

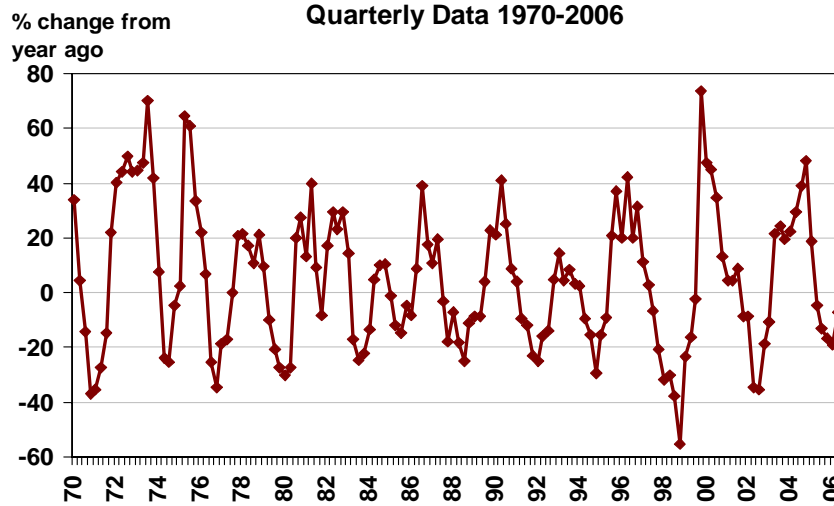
Quarterly Data, 1970-2006

% change from
year ago



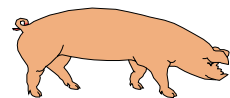
But, U.S. hog prices are still highly variable

Terminal Market Barrow & Gilt Price



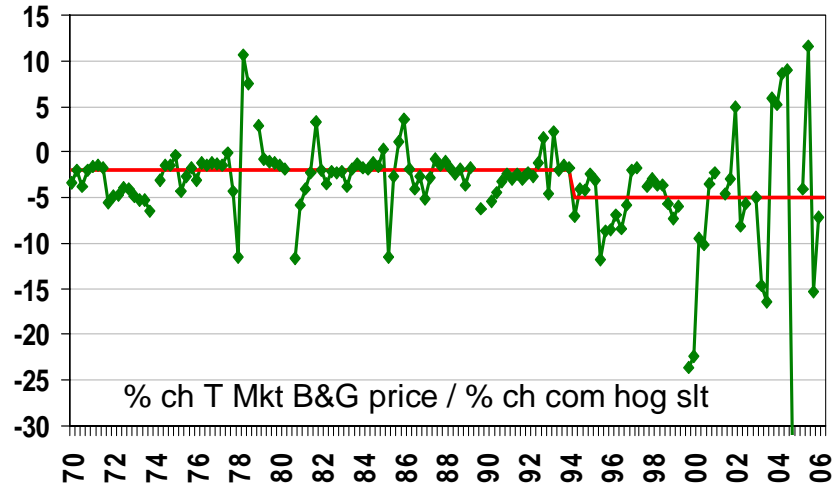
ELASTICITY

- The fundamental relationship between hog production and hog price is changing.

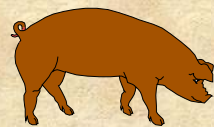


Hog Price Flexibility

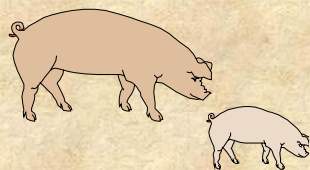
Quarterly Data 1970-2006



In 6 of last 11 quarters, price & slaughter moved in the same direction

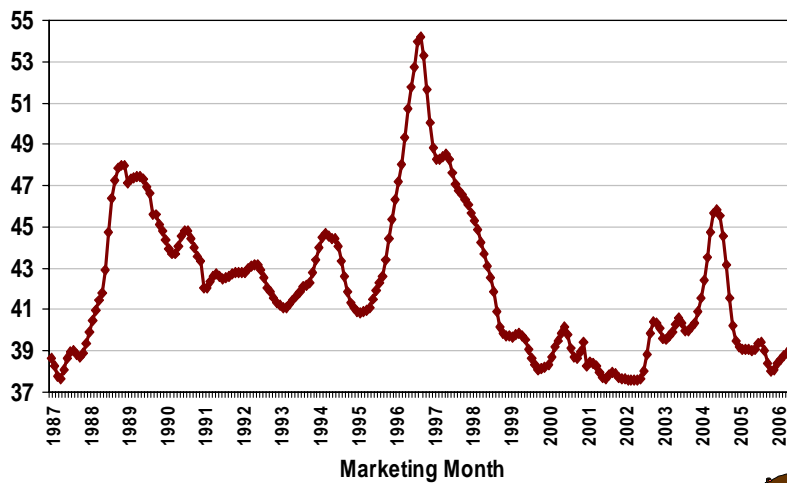


Cost of Production



Cost of Slaughter Hog Production Iowa State University Calculations, 1987-2006

\$ Per Live Cwt

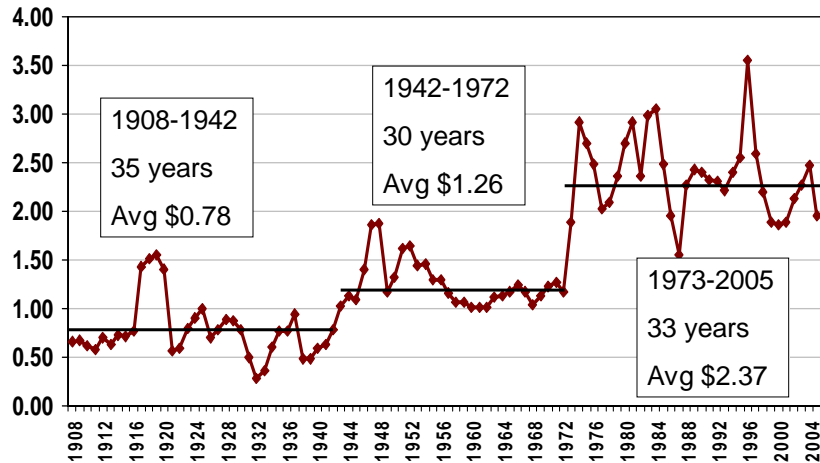


Source: John Lawrence, Iowa State University



U.S. Annual Average Corn Price, 1908-2005

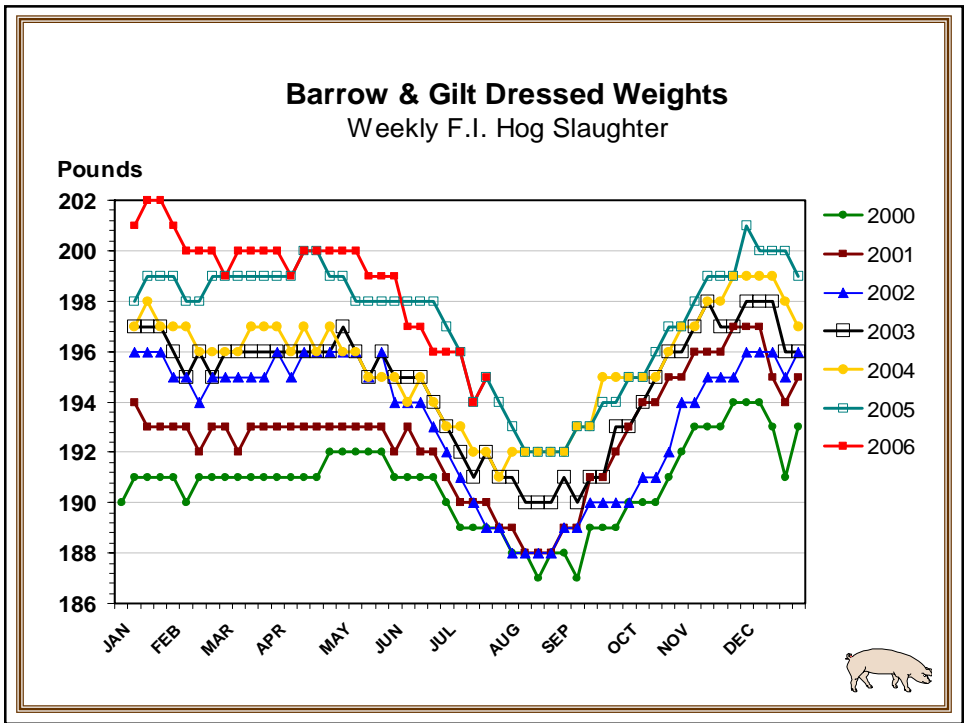
\$ Per Bushel



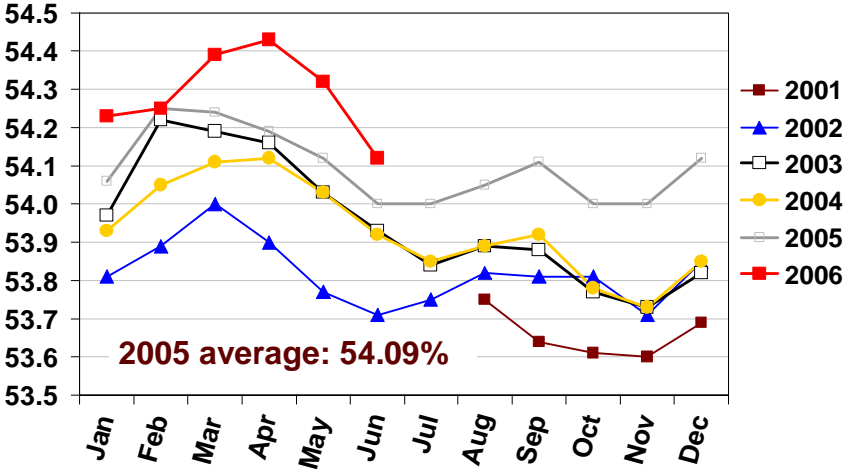
Source: USDA/NASS



Hog Weights



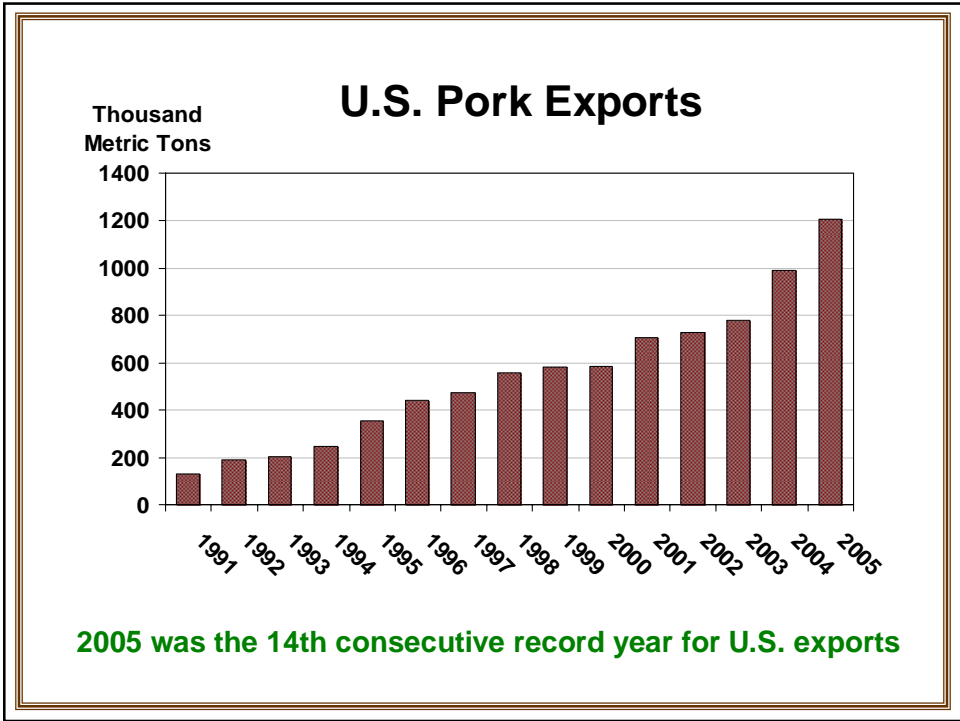
Barrows & Gilts - Percent Lean



Source: USDA/AMS Prior Day Slaughter Reports

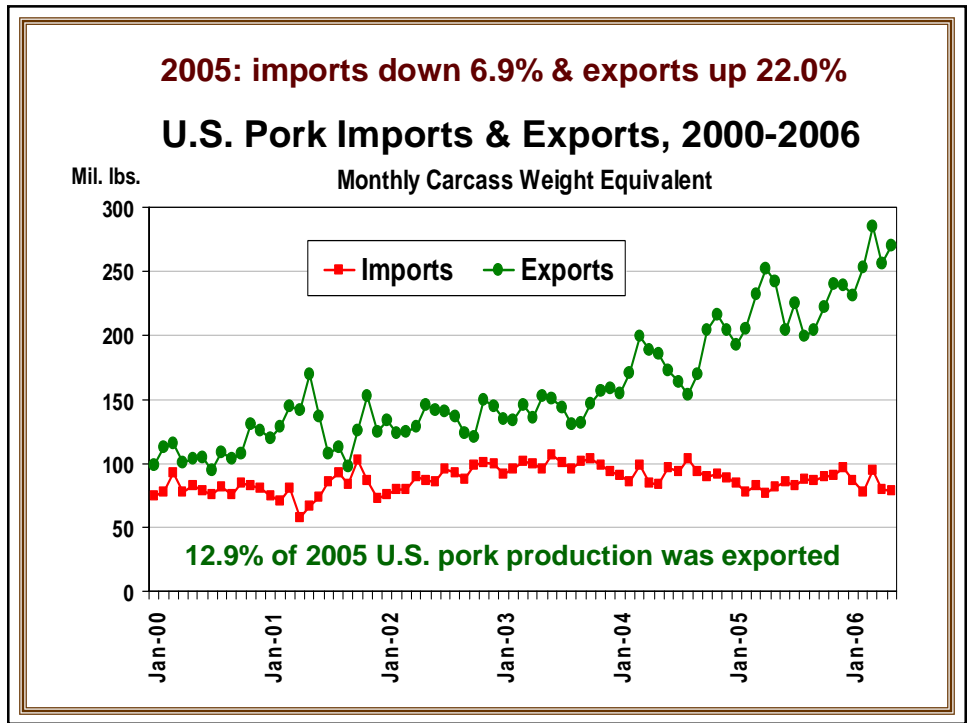
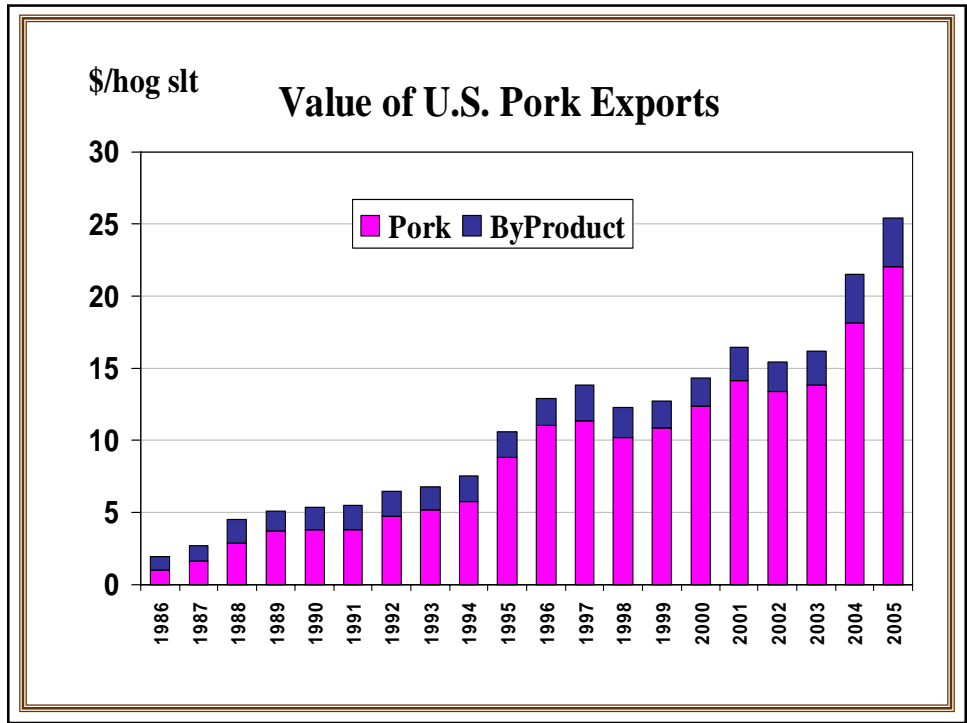


International Trade

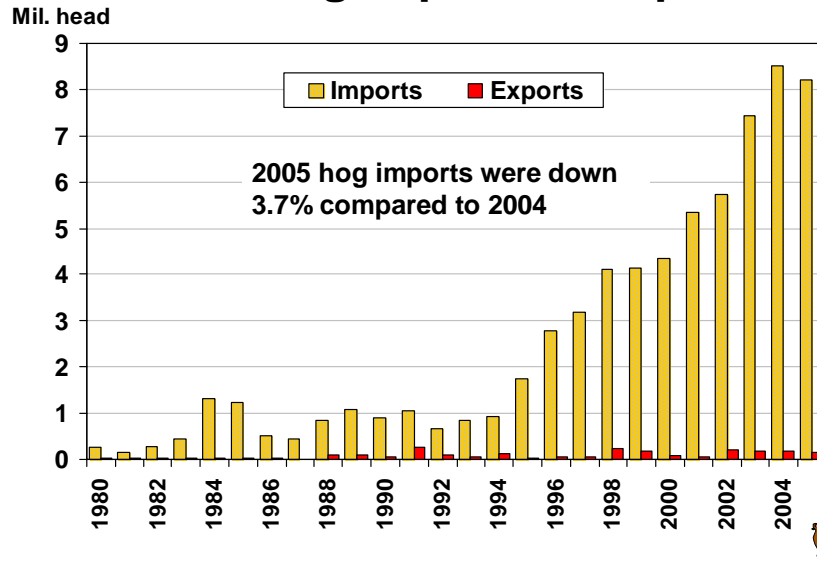


U.S. Pork Exports, Jan-May 2006

<u>Country</u>	<u>Change from year ago</u>	
	<u>000 lbs</u>	<u>Percent</u>
Japan	- 44,584	- 9.6%
Mexico	+ 62,867	+ 30.1%
Canada	+ 7,637	+ 6.3%
S. Korea	+ 48,519	+ 59.4%
China & HK	+ 13,433	+ 25.4%
Taiwan	+ 11,721	+ 54.7%
Russia	+ 60,722	+151.7%
TOTAL	+171,725	+ 15.3%

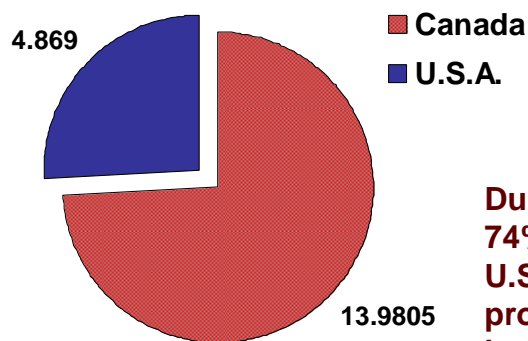


U.S. Hog Imports & Exports



Growth in U.S.-Canadian Pig Crop 1995-2005

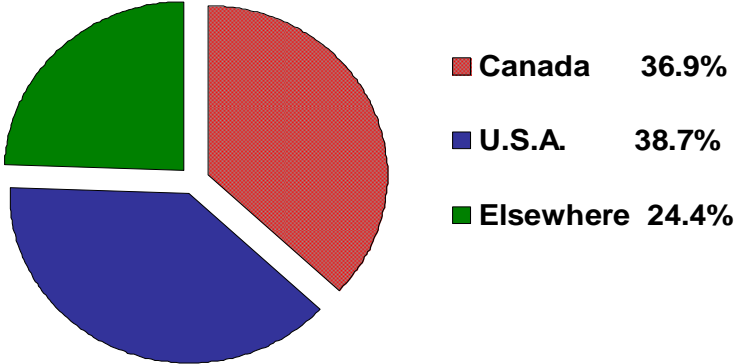
(million head)



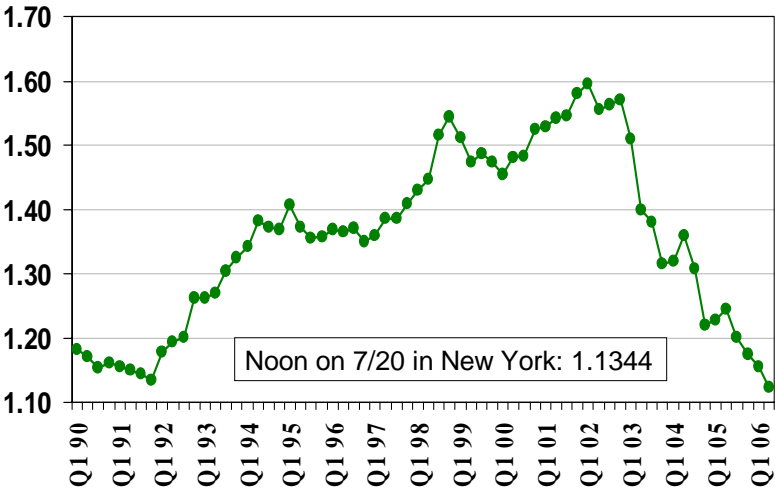
During the past decade, 74% of the increase in U.S.-Canadian pig production took place in Canada.

Source: USDA/FAS

Where the Pork from Hogs Born in Canada was Consumed - 2003

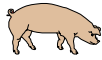
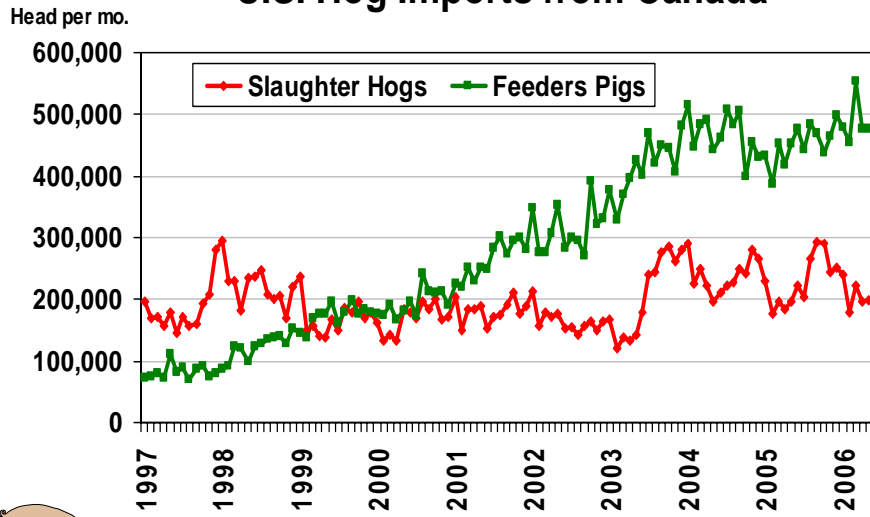


Exchange Rate: Can \$ Per US \$

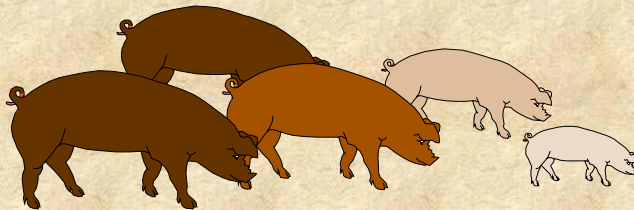


2005 imports: slt hogs down 3.7% & fdr pigs down 3.7%

U.S. Hog Imports from Canada



Inventory Reports



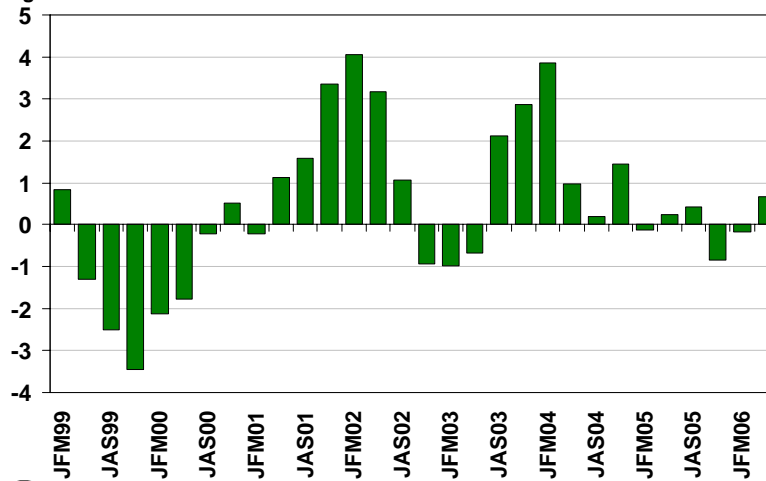
Hog Inventory Reports

	U.S. June	Canada April
All Hogs & Pigs	100.3	97.8
Kept for Breeding	101.4	99.6
Kept for Marketing	100.2	97.8
Under 60 lbs	100.9	94.3
60-119 lbs.	100.5	99.0
120-179 lbs.	100.5	99.8
180 lbs. and over	98.2	
Sep-Nov Farrowings	100.4	95.1
Dec-Feb Farrowings	100.2	98.7
Mar-May Farrowings	100.5	101.2
Jun-Aug Farrowing Intentions	100.1	
Sep-Nov Farrowing Intentions	100.8	



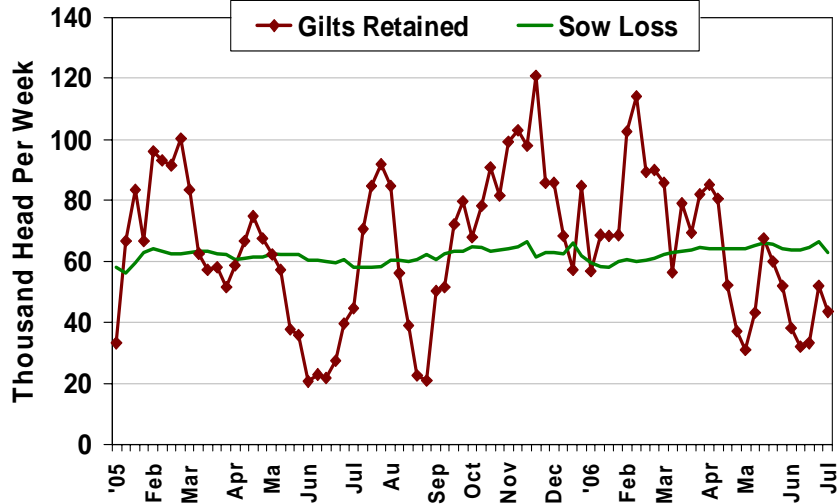
Sows Farrowed-U.S. & Canada Combined

% change from
yr. ago



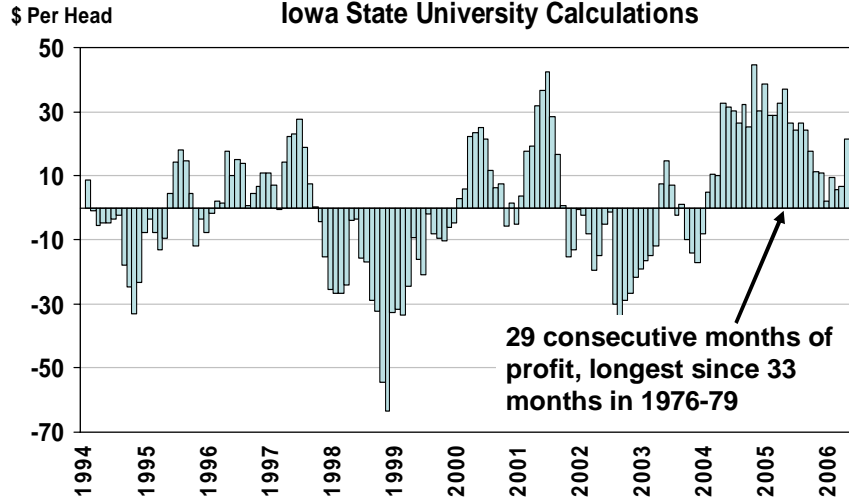
Estimated Gilt Retention & Sow Loss, 2005-2006

GG Cattle & Hog Fax



Iowa Farrow to Finish Profits, 1994-2006

Iowa State University Calculations



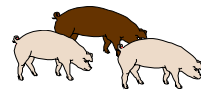
29 consecutive months of profit, longest since 33 months in 1976-79

Source: John Lawrence, Iowa State University

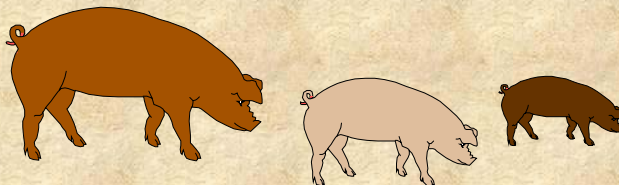


Why is Growth So Slow?

- We remember the 1990s
- Long (impossible) permitting process
- High construction costs
- Fewer Canadian pigs
- Starting from record production

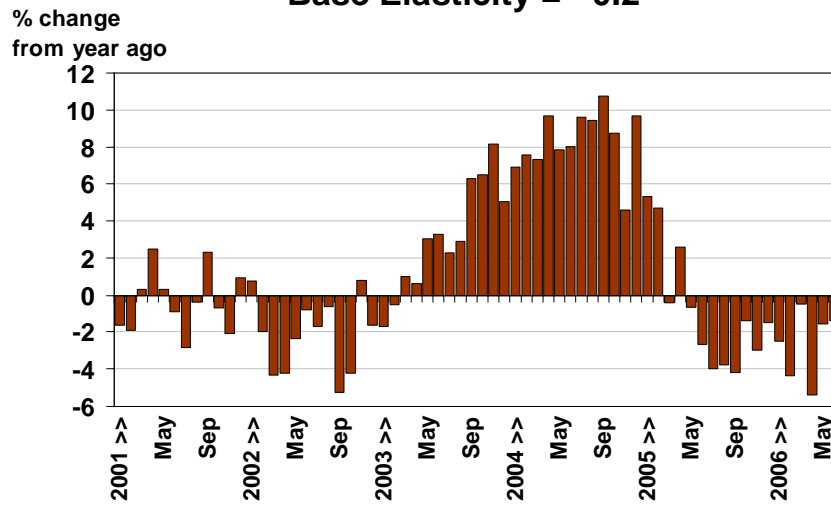


Pork Demand

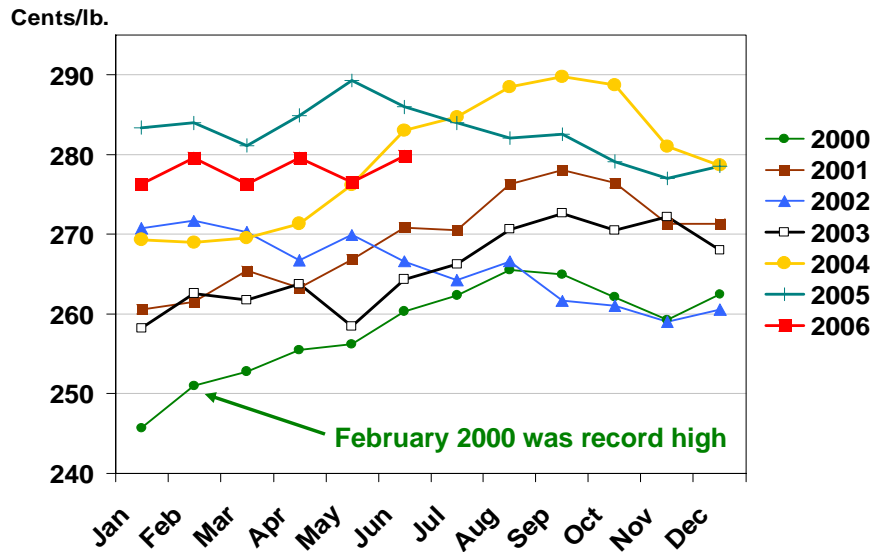


Change in Hog Demand

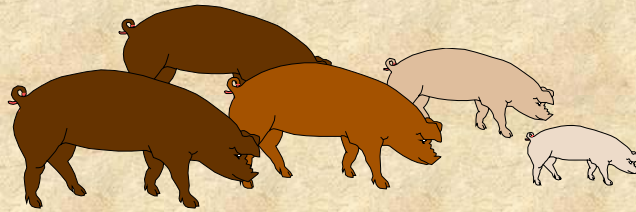
Base Elasticity = - 0.2



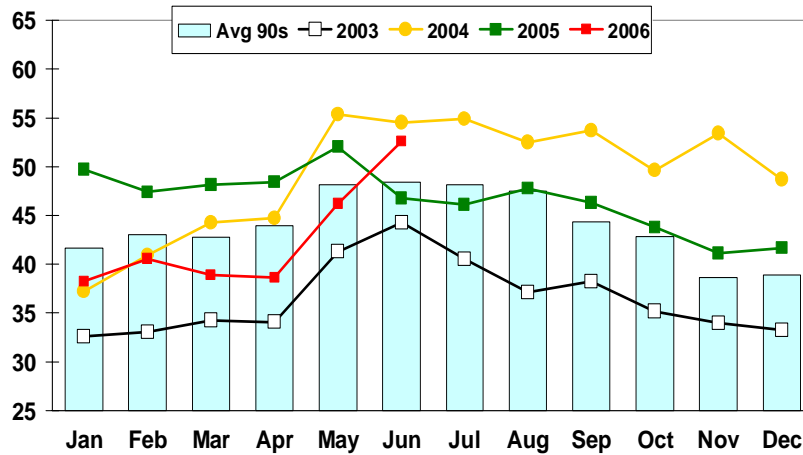
Retail Price of Pork



Hog Prices

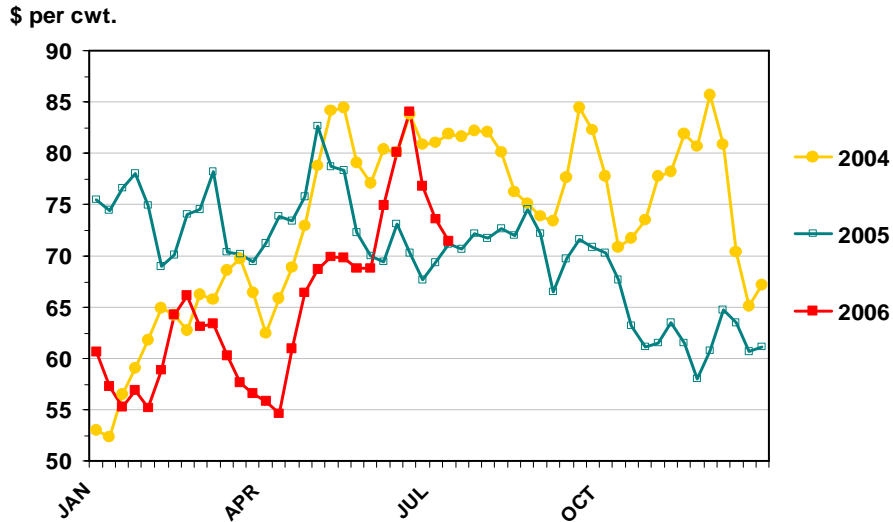


Terminal Market Barrow & Gilt Price



BARROW AND GILT NET PRICES

Iowa - So. Minnesota, Carcass Basis, Weekly



U.S. Commercial Hog Slaughter

Million Head

	2005	2006	2007	-----Change-----	
				05-06	06-07
Qtr 1	25.538	26.205	26.390*	+2.6%	+0.7%
Qtr 2	25.030	24.808	25.155*	-0.9%	+1.4%
Qtr 3	25.527	25.275*	25.730*	-1.0%	+1.8%
Qtr 4	27.486	27.725*	28.700*	+0.9%	+3.5%
Year	103.581	104.013*	105.975*	+0.4%	+1.9%

*forecast

Note: Q4 2007 has 1 more slaughter day

Iowa-Minn Live Hog Price Forecast
Negotiated Base Price Per Live Hundredweight

	2005*	2006	2007
Qtr 1	\$51.64	\$41.72*	\$40-43
Qtr 2	\$51.96	\$48.30*	\$43-46
Qtr 3	\$49.95	\$45-48	\$41-44
Qtr 4	\$44.56	\$41-44	\$37-39
Year	\$49.55	\$44-46	\$40-43

*actual price – prior day purchased



Iowa-Minn Hog Price Forecast
Negotiated Base Price Per Carcass Hundredweight

	2005*	2006	2007
Qtr 1	\$69.79	\$56.38*	\$53-57
Qtr 2	\$70.21	\$65.27*	\$58-62
Qtr 3	\$67.50	\$61-65	\$56-60
Qtr 4	\$60.22	\$55-59	\$49-53
Year	\$66.96	\$58-61	\$54-58

*actual price – prior day purchased



Forecast Summary

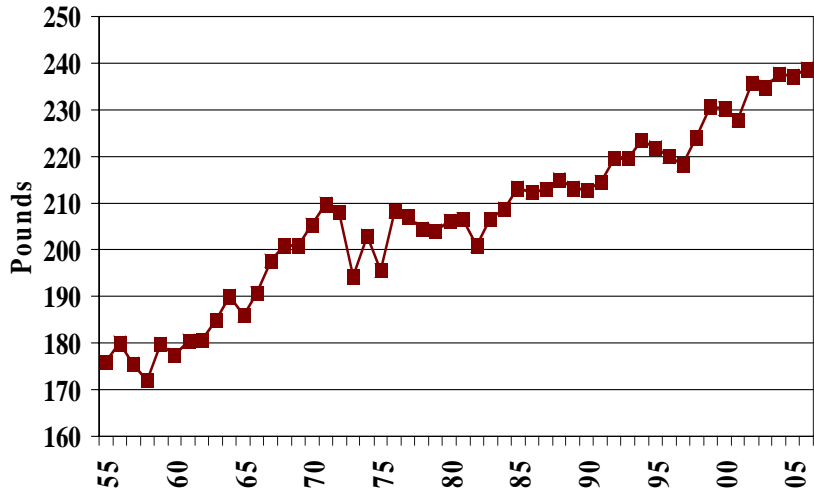
- Slow increase in farrowings
- Continued productivity growth
- Continued increase in pork exports
- Declining domestic demand
- Good profits in 2006
- Breakeven in 2007

A decorative graphic consisting of five vertical lines of varying heights and colors (blue and green) is located on the left side of the poultry outlook box.

Poultry Outlook

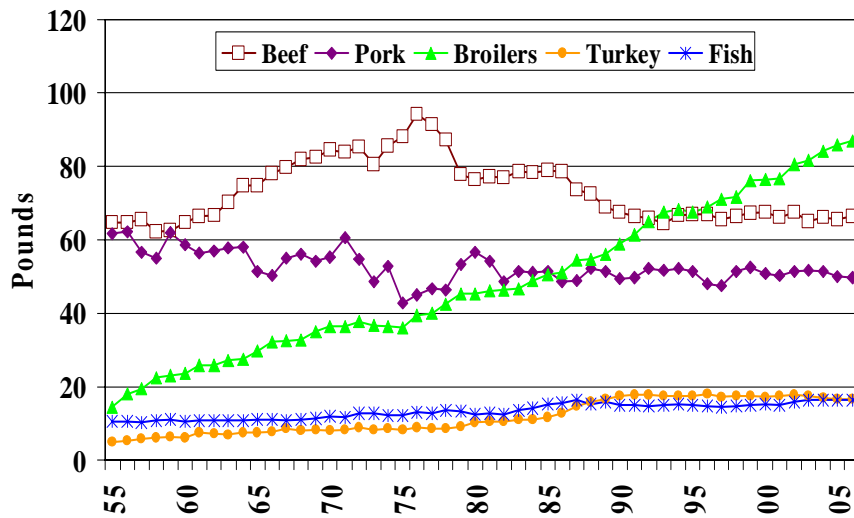
U.S. Per Capita Meat Consumption

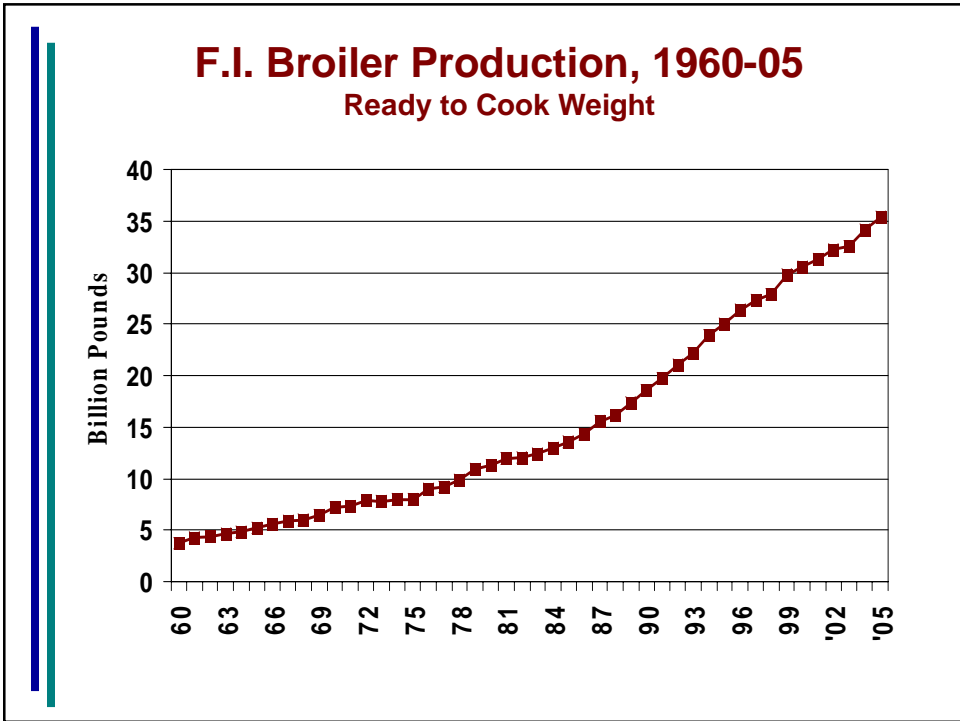
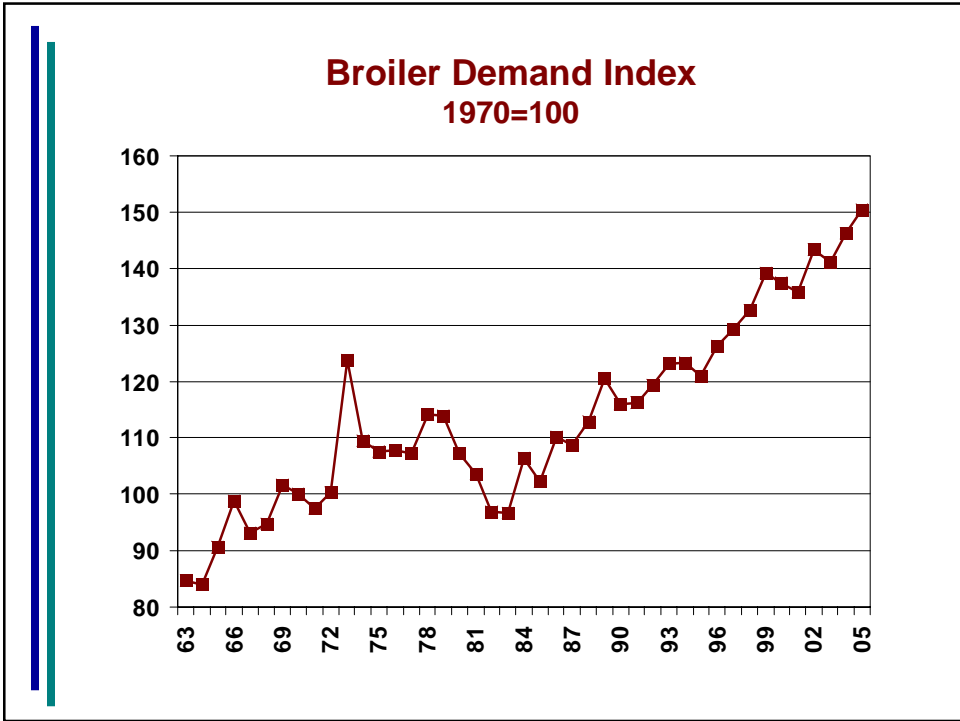
Retail Weight, 1955-2006

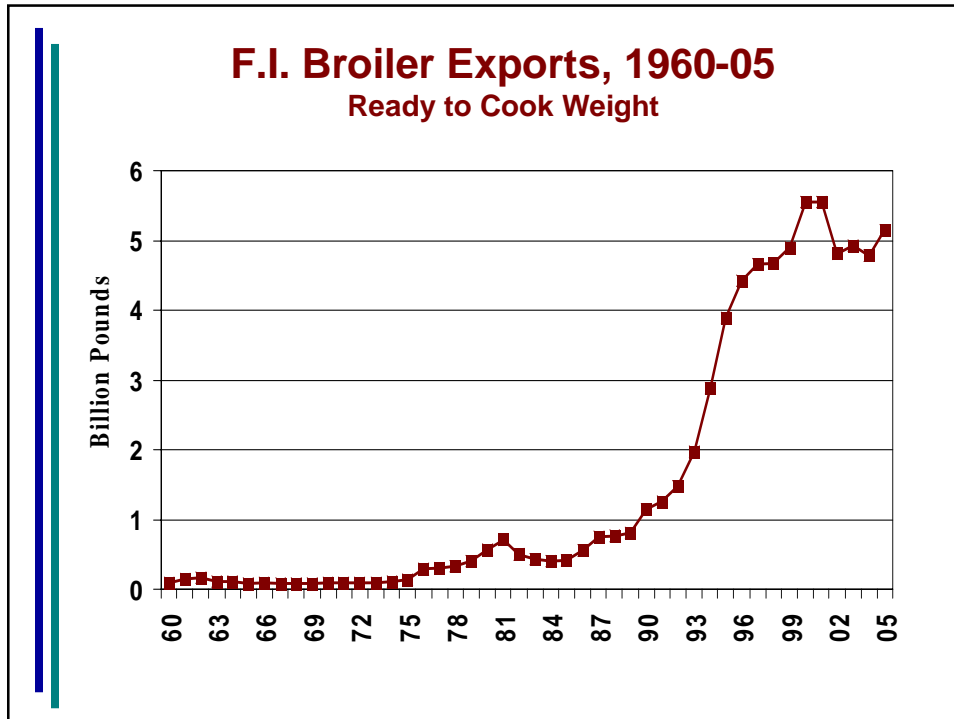


U.S. Per Capita Meat Consumption

Retail Weight, 1955-2006

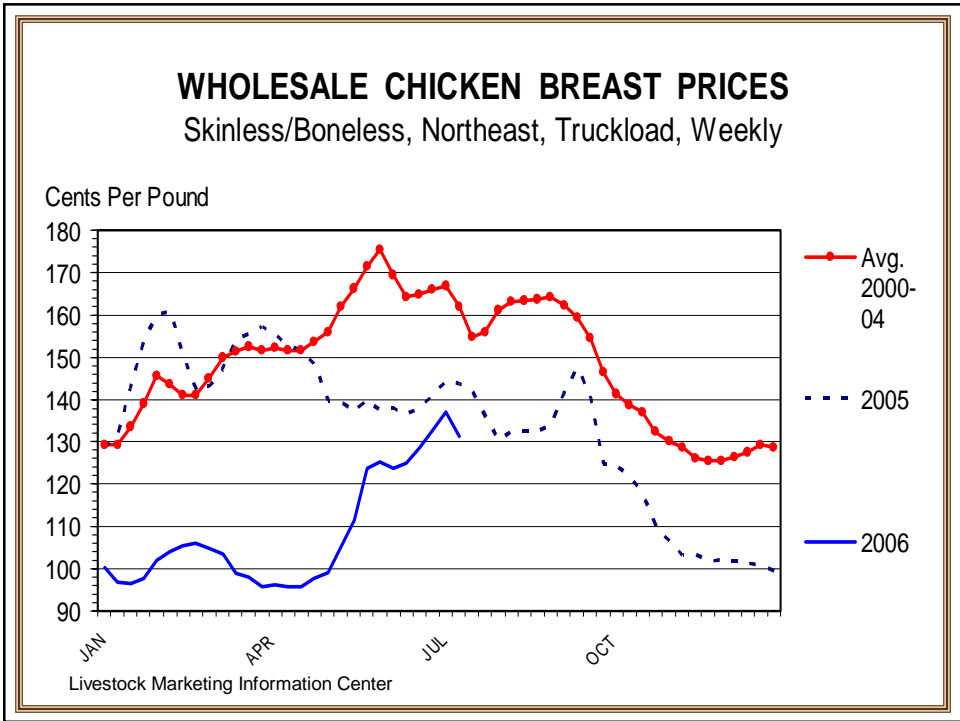
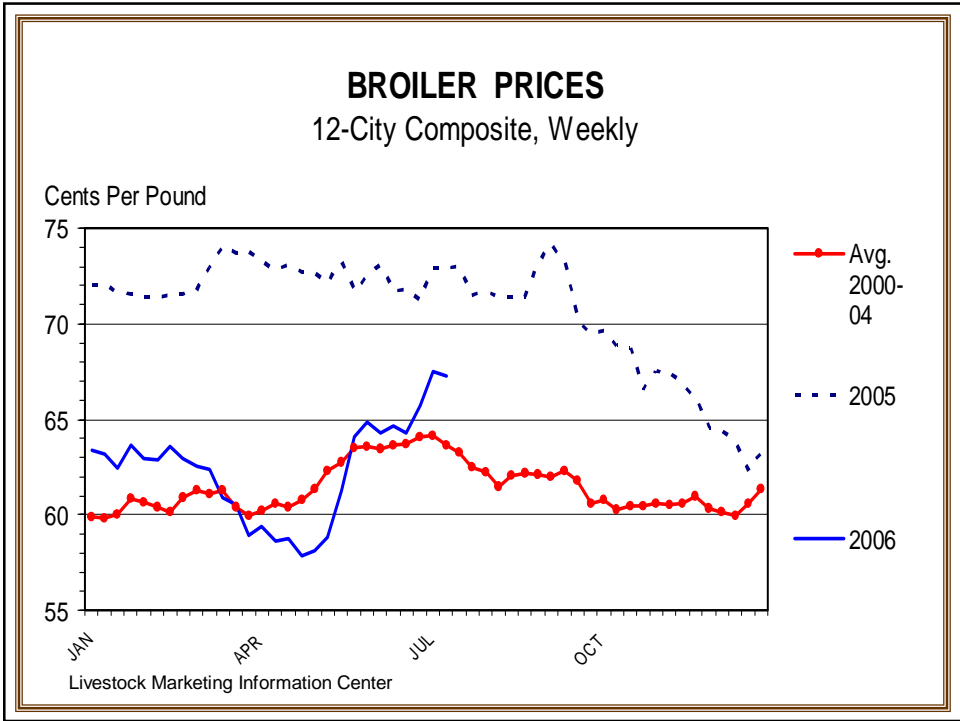






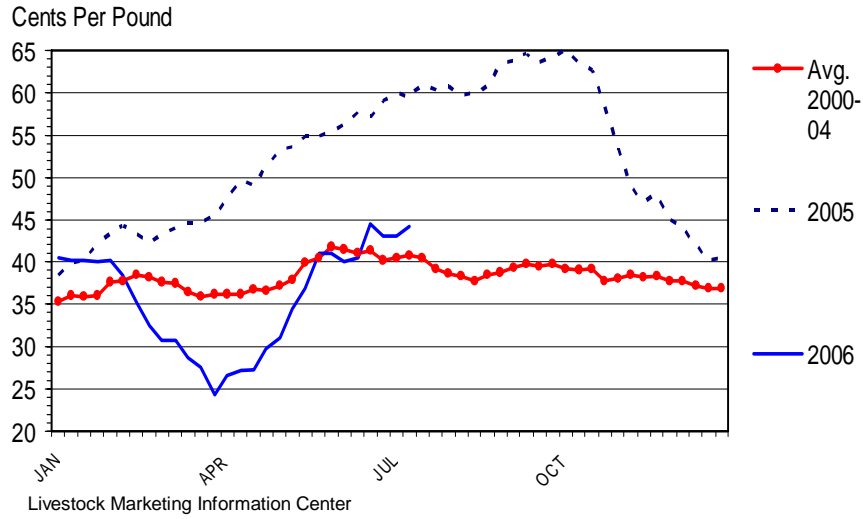
Broilers

The first half of 2006 was a disaster for the broiler industry.



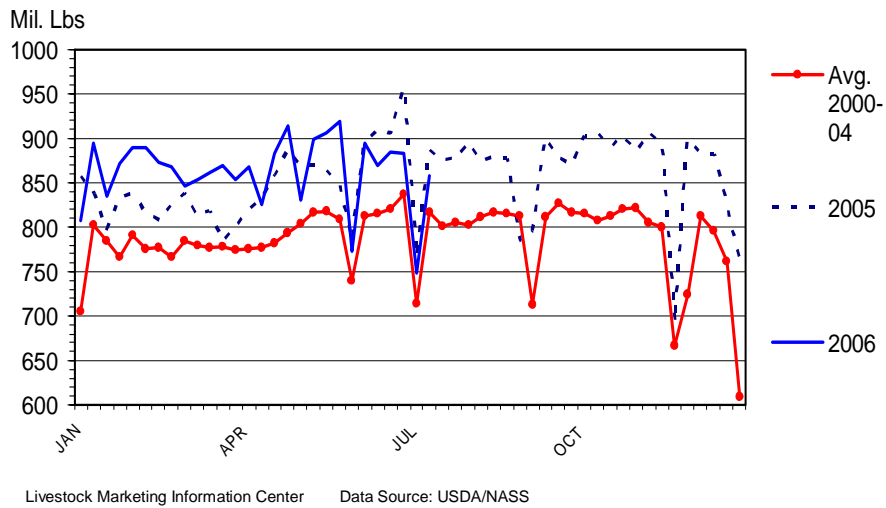
WHOLESALE CHICKEN LEG PRICES

Northeast, Truckload, Weekly

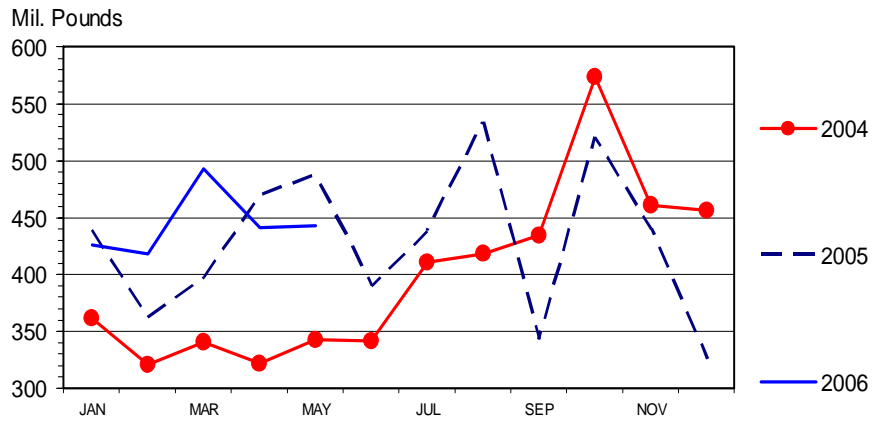


BROILER PRODUCTION

Federally Inspected, Weekly

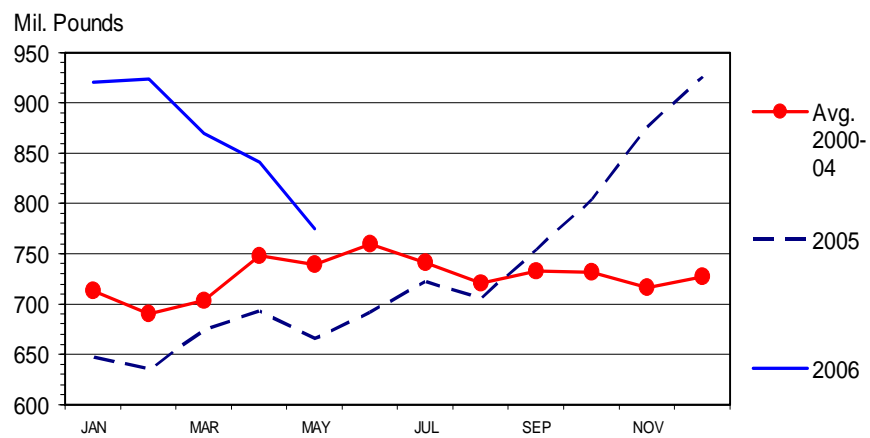


BROILER EXPORTS Ready to Cook Weight

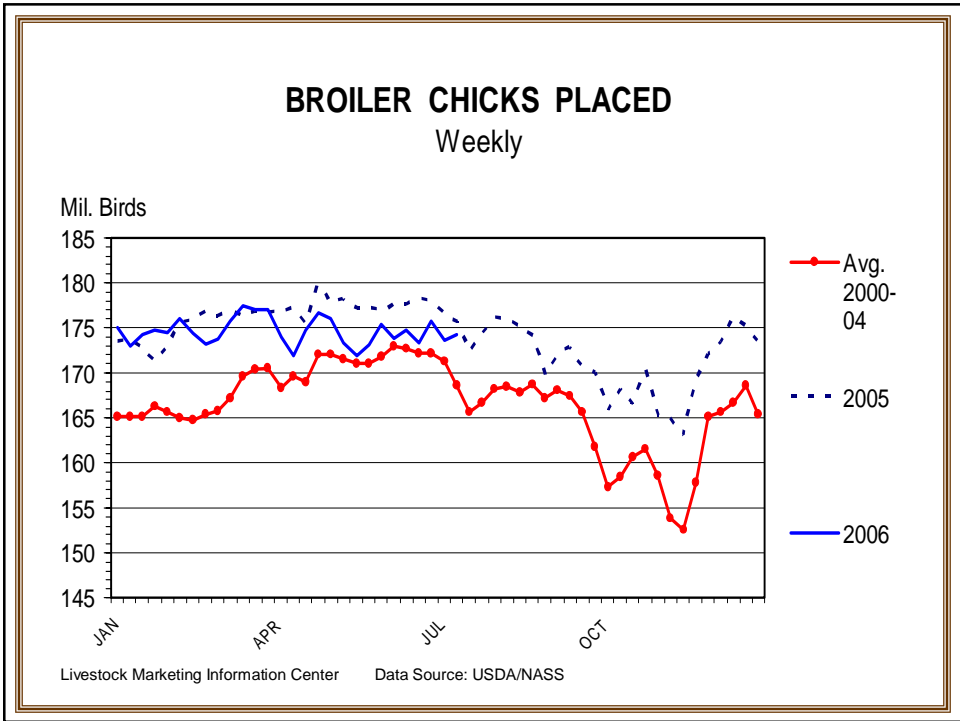
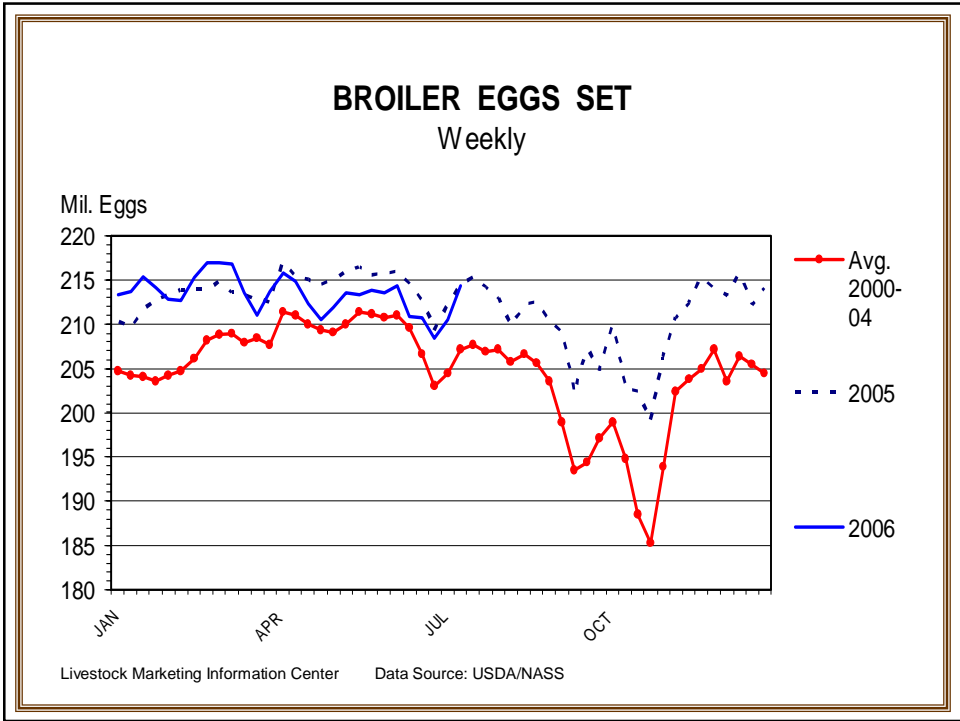


Livestock Marketing Information Center Data Source: USDA/ERS

CHICKEN IN COLD STORAGE End of the Month



Livestock Marketing Information Center Data Source: USDA/NASS



U.S. F.I. Broiler Production Million Pounds

	2005	2006	2007	-----Change-----	
				05-06	06-07
Qtr 1	8,588	8,937	9,025*	+4.1%	+1.0%
Qtr 2	8,934	9,100	9,200*	+1.9%	+1.1%
Qtr 3	8,939	8,975*	9,210*	+0.4%	+2.6%
Qtr 4	8,904	9,030*	9,275*	+1.4%	+2.7%
Year	35,365	36,042*	36,710*	+1.9%	+1.9%

*forecast

Note: Q4 2007 has 1 more slaughter day

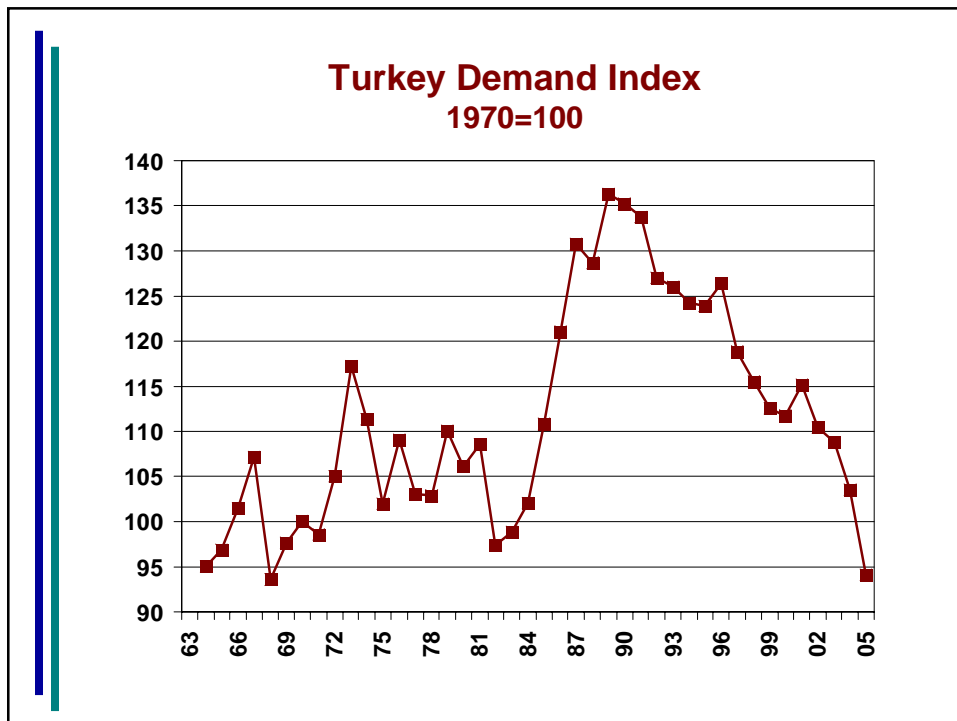
12 City Broiler Price Forecast Cents Per Pound

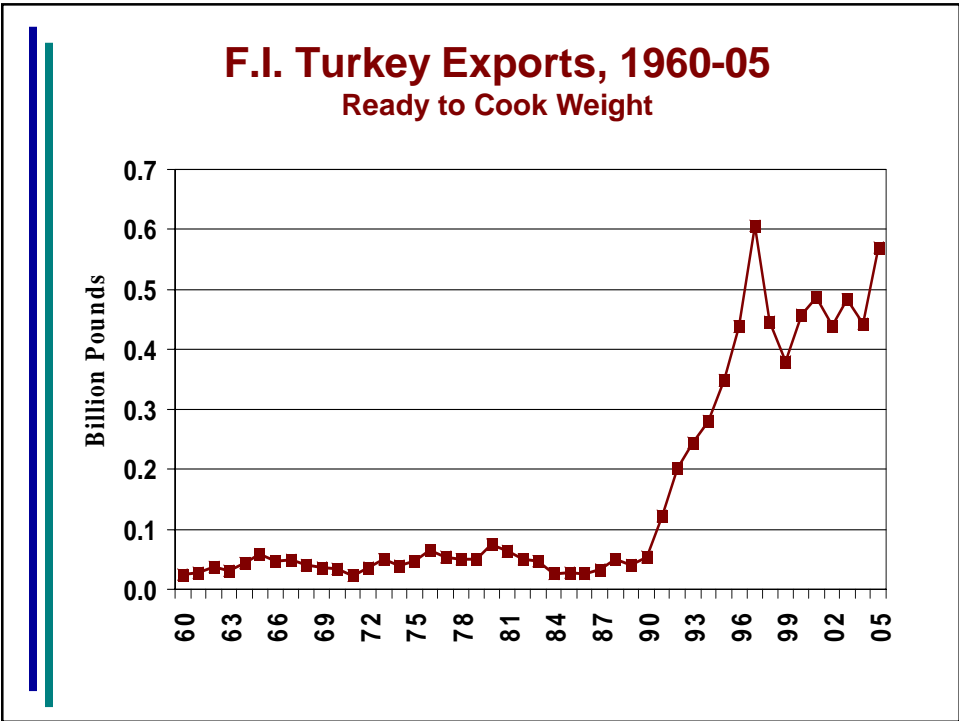
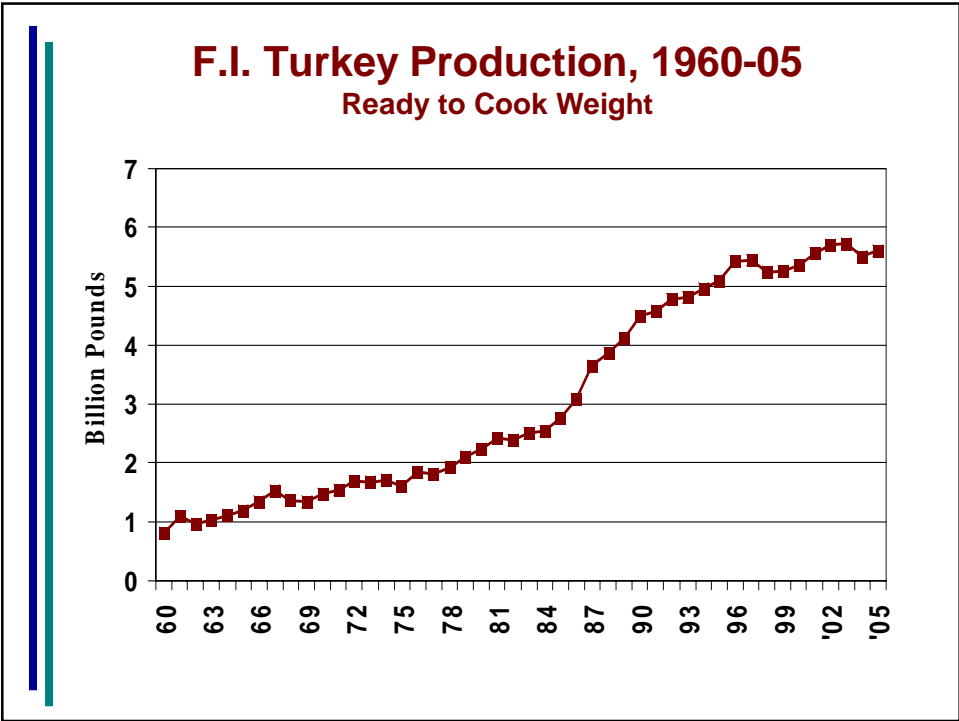
	2005*	2006	2007
Qtr 1	71.9	62.7*	64-68
Qtr 2	72.6	61.0*	65-69
Qtr 3	72.1	64-67	66-70
Qtr 4	66.7	62-65	65-69
Year	70.8	62-64	65-69

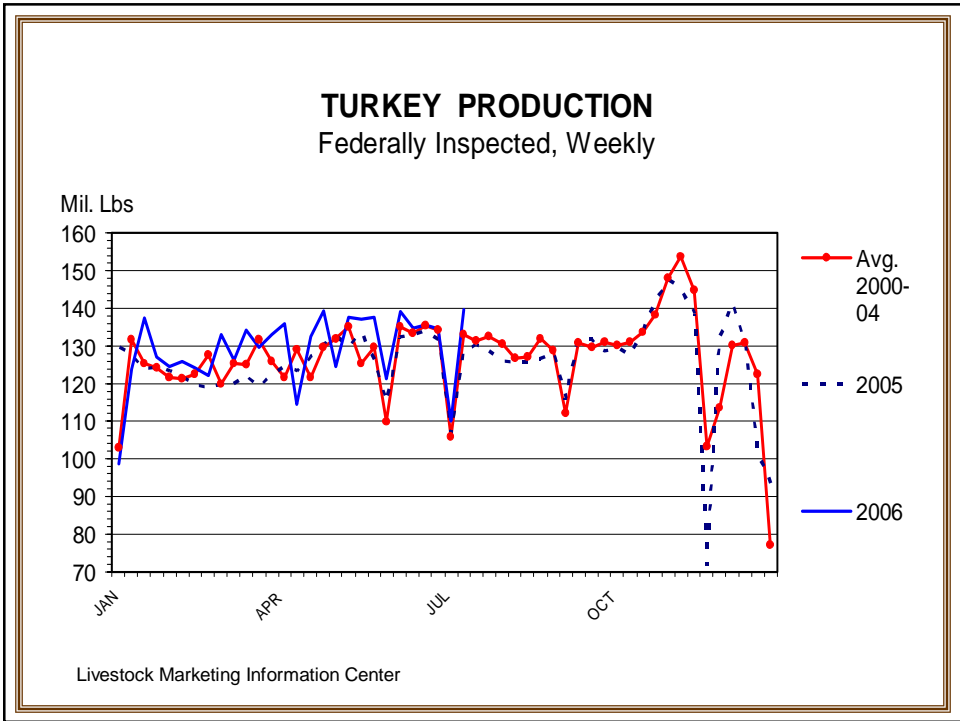
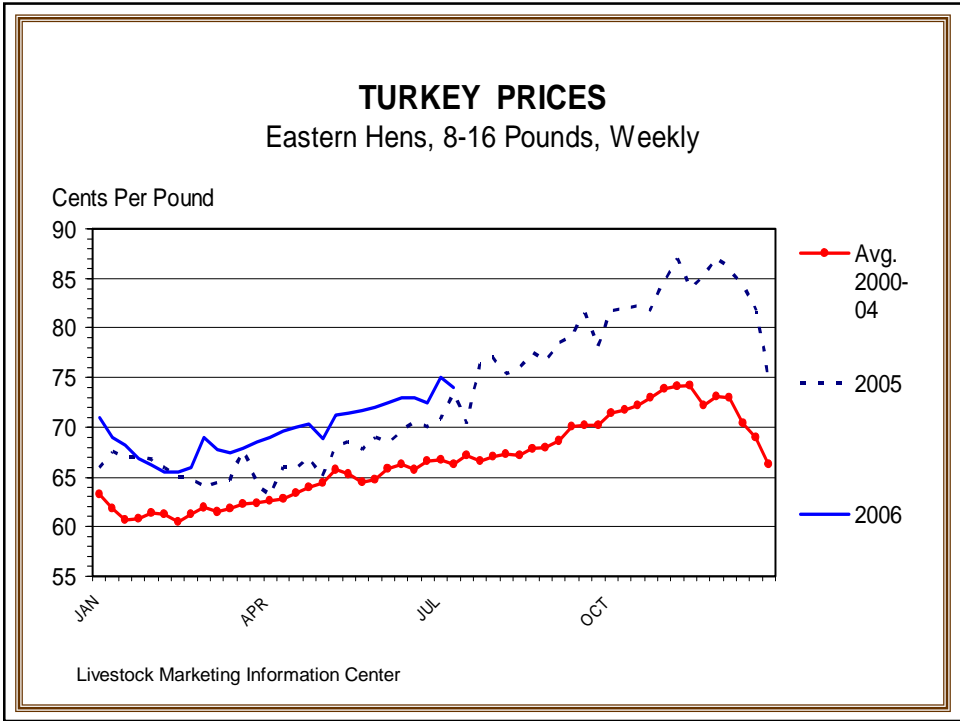
*actual price

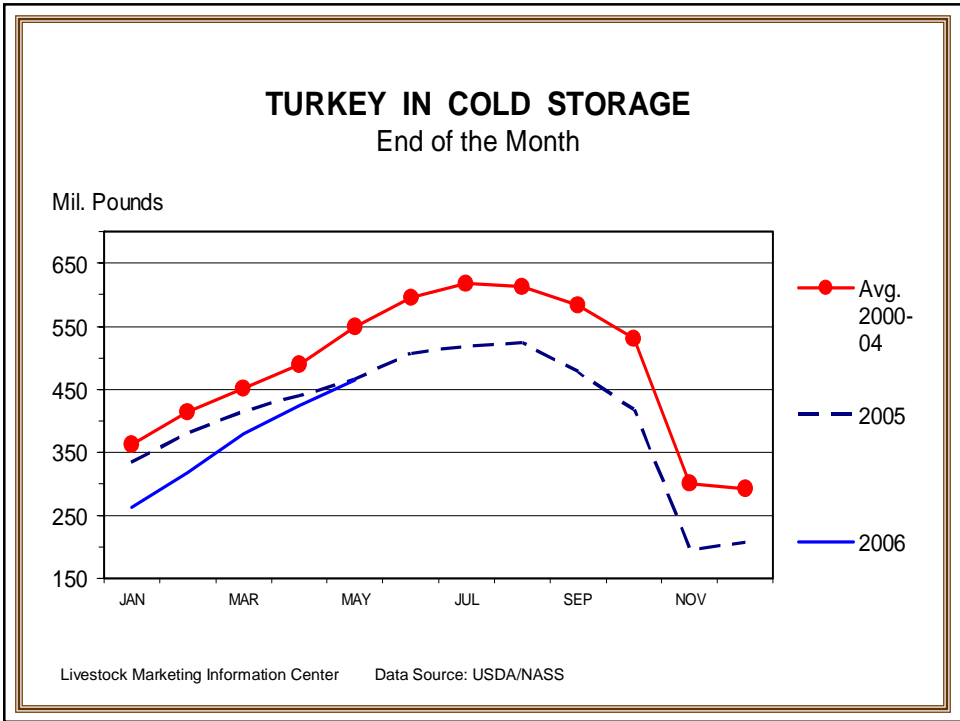
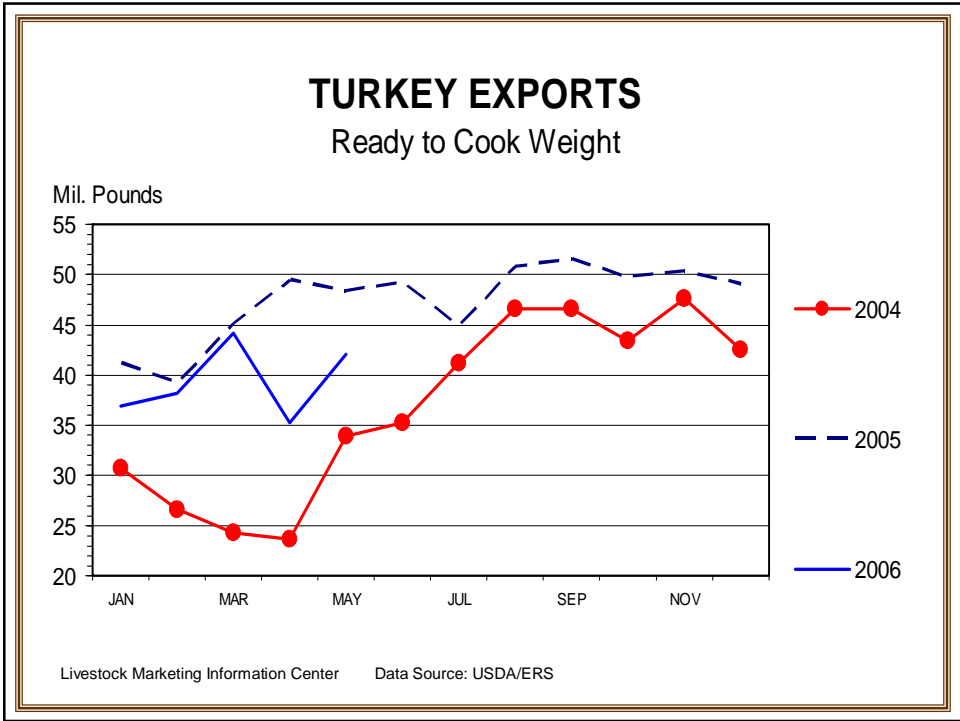
Turkeys

Turkeys are not chicken









U.S. F.I. Turkey Production Million Pounds

	2005	2006	2007	-----Change-----	
				05-06	06-07
Qtr 1	1,328	1,354	1,375*	+2.0%	+1.6%
Qtr 2	1,397	1,425	1,445*	+2.0%	+1.4%
Qtr 3	1,375	1,410*	1,425*	+2.5%	+1.1%
Qtr 4	1,405	1,445*	1,475*	+2.8%	+2.1%
Year	5,504	5,634*	5,720*	+2.4%	+1.5%

*forecast

Note: Q4 2007 has 1 more slaughter day

Turkey Price Forecast Eastern Cents Per Pound

	2005*	2006	2007
Qtr 1	65.9	67.3*	64-68
Qtr 2	67.7	71.3*	66-70
Qtr 3	76.5	73-77	71-75
Qtr 4	83.6	75-81	73-77
Year	73.4	71-74	68-72

*actual price