Vita Plus Feeds Swine Summit - 2013

Pork Industry Economic Issues and Outlook

Steve R. Meyer, Ph.D. Paragon Economics, Inc.



Bethany Swine Health Services Feb 2013

Key drivers of meat and poultry -- 2013

- Input prices and production costs Top 5:
 - 1. Will it rain?
 - 2. Where will it rain?
 - 3. When will it rain?
 - 4. How much will it rain?
 - 5. And will it be hot, hot, hot again this year?



Key drivers of meat and poultry -- 2013

- Input prices and production costs
- How will meat/poultry demand hold up?
 - U.S. economy and consumer spending
 - World economy exports and exchange rates
 - Prices of competitor goods especially beef
 - RECENT SITUATION "What the *?#(@)#
 has happened?" More later

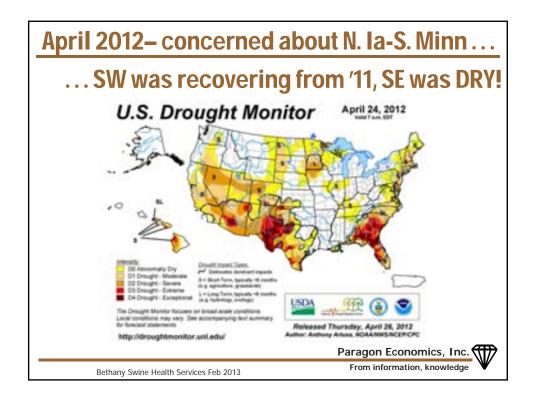


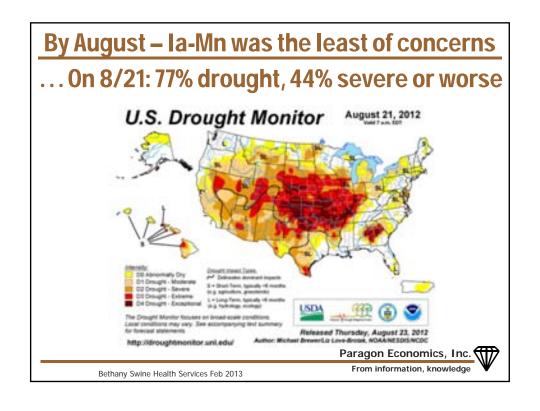
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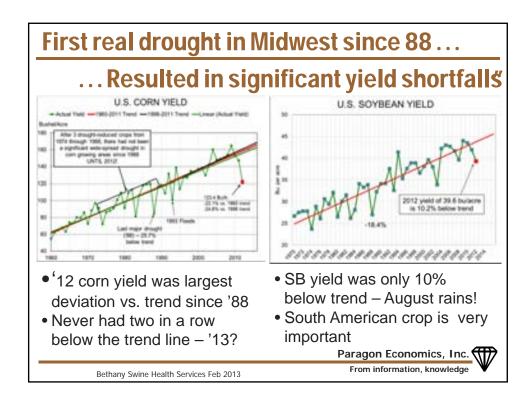
Key drivers of meat and poultry -- 2013

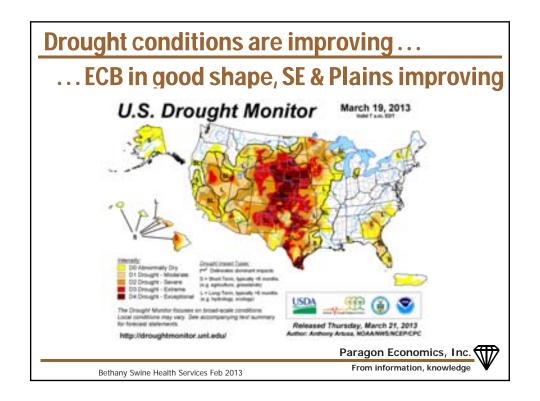
- Input prices and production costs
- How will demand hold up?
- Just how much product will we see in 2013?
 - December U.S. hog inventories suggest no reductions – What about next week's report?
 - Chicken companies are growing
 - Cattle numbers are still shrinking and will through 2014, at least











USDA '13-'14 forecasts – LARGE crops

USDA Outlook	Corn	Corn	Beans	Beans	Wheat	Wheat
	12/13	13/14	12/13	13/14	12/13	13/14
Plant	97.2	96.5	77.2	77.5	55.7	56.0
Harvested.	87.4	88.8	76.1	76.6		
Yield	123.4	163.6	39.6	44.5	46.3	45.2
Production	10,780	14,530	3,015	3,405	2,269	2,100
Total Supply	11,869	15,187	3,204	3,545	3,142	2,921
Exports	900	1,500	1,345	1,500	1,050	950
Feed/residual	4,450	5,400	30	48	375	300
Ethanol/ Crush	4,500	4,675	1,615	1,660		
Total Use	11,237	13,010	3,080	3,295	2,450	2,282
Ending stocks	632	2,177	125	250	691	639
Avg Farm price	7.20	4.80	14.30	10.50	7.90	7.00



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March WASDE -- Lower exports, higher feed

... Still the 2nd lowest S/U ever - F/R use

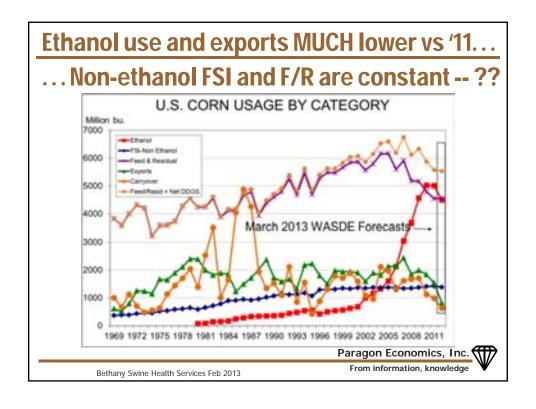
U.S. CORN SUPPLY AND UTILIZATION -- MARCH

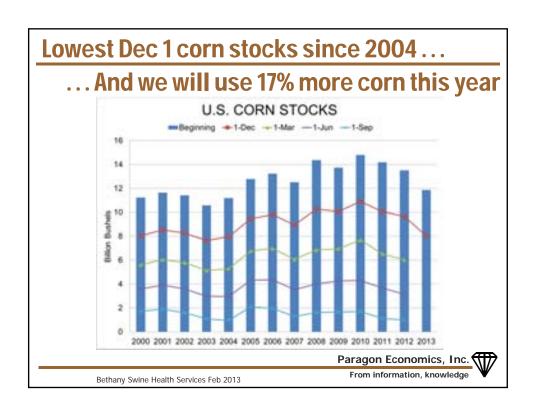
			2011/12	2012/13		
		2010/11	USDA		USDA	% Chng vs
			March	USDA Feb	March	'11-12
Acres Planted	Mil A	88.2	91.9	97.2	97.2	5.8%
Acres Harvested	Mil A	81.4	84	87.4	87.4	4.0%
Yield	Bu/A	152.8	147.2	123.4	123.4	-16.2%
Beginning Stocks	Mil Bu.	1708	1128	989	989	-12.3%
Production	Mil Bu.	12447	12360	10780	10780	-12.8%
Imports	Mil Bu.	28	29	100	125	331.0%
Total Supply	Mil Bu.	14182	13516	11869	11894	-12.0%
Feed & Residual	Mil Bu.	4795	4548	4450	4550	0.0%
Ethanol for fuel	Mil Bu.	5019	5011	4500	4500	-10.2%
Non-Ethanol FSI	Mil Bu.	1407	1426	1387	1387	-2.7%
Exports	Mil Bu.	1834	1543	900	825	-46.5%
Total Usage	Mil Bu.	13055	12527	11237	11262	-10.1%
Carryover	Mil Bu.	1128	989	632	632	-36.1%
Stocks/Use		8.6%	7.9%	5.6%	5.6%	-28.9%
Nat. Wtd. Avg. Farm Price	\$/Bu.	5.18	6.22	6.75 - 7.65	6.75 - 7.45	14.1%

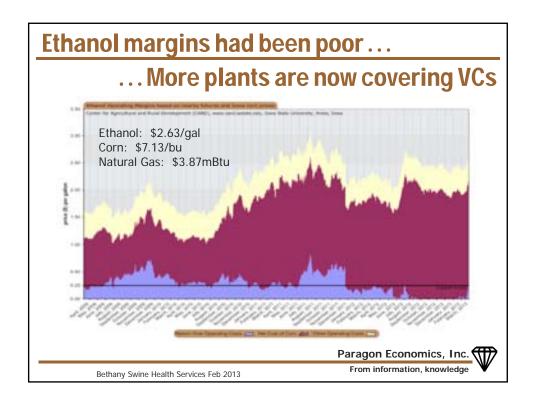
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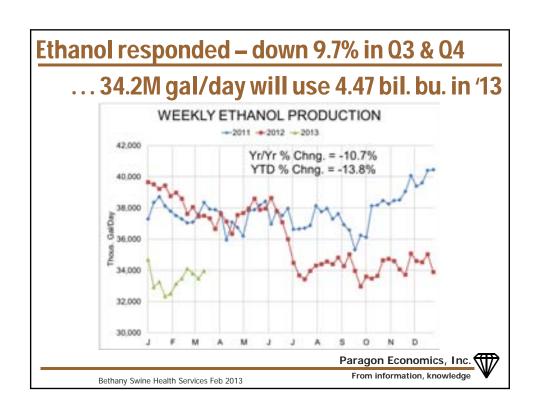
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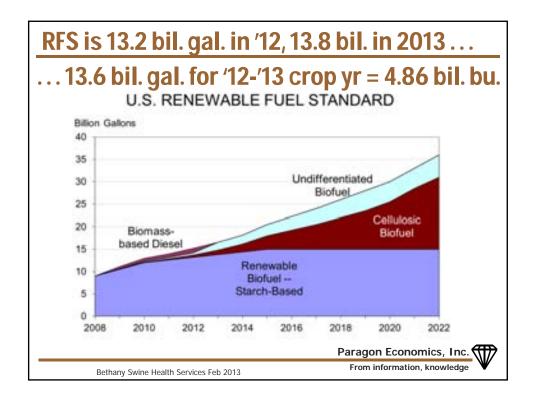
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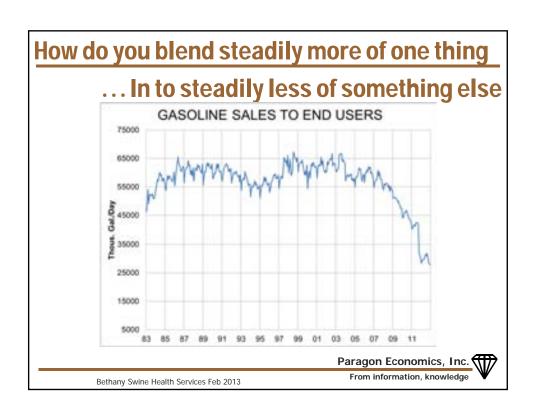




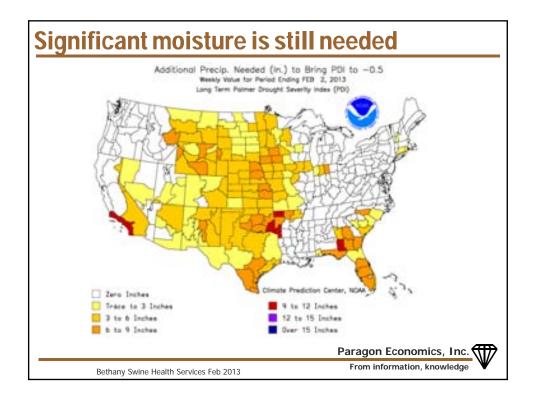


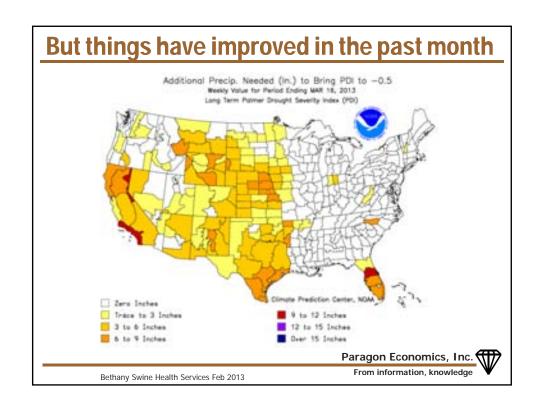






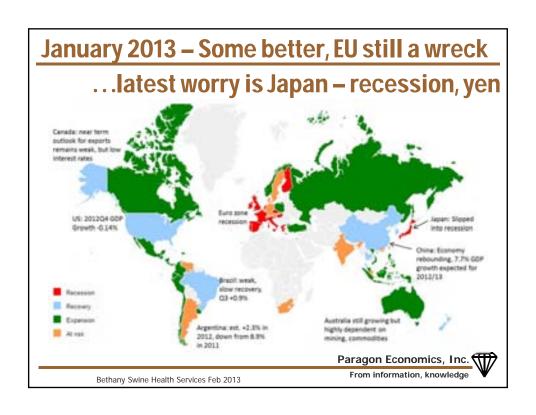
• '13 yield: '60-'12says 158 bu • 98 mil. acres x 92% harvested x 158 bu/A = 14.3 bil. bu. Paragon Economics, Inc. Bethany Swine Health Services Feb 2013 ... At this point we must assume "normal" "13 yield: '60-'12 says 44.3 • "13 yield? '60-'12 says 44.3 • 78 mil acres x 98.3% harvested x 44.3 bu/A = 3.397 bil. bu. Paragon Economics, Inc.











Important factors to watch -- U.S.

Short term

- Housing market is slowly improving low interest rates, job growth
- Wealth effect is positive equity markets
- U-rate is falling but will likely stay above 7%

Long term

- Deficit and especially spending must be reigned in
- Fed is still "easing" what happens when they slow down and interest rates rise?

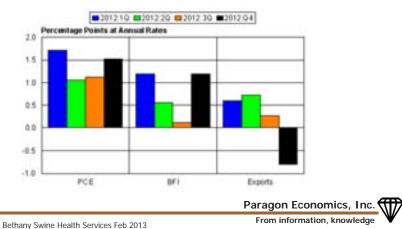


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The U.S. economy muddles along - at zero... ... Still slowed by uncertainty QTRLY GROSS DOMESTIC PRODUCT (GDP) Real Dollar (2005) Change from Previous Quarter Percent Change 2.5 2.0 1.5 1.0 0.0 -0.5 -1.0 -1.5 -2.0 -25 2063 2005 2007 Paragon Economics, Inc. From information, knowledge Bethany Swine Health Services Feb 2013

Zero GDP isn't that bad – PCE and BFI are UP!

- PCE added 1.5% to GDP in Q4 after +1.1% in Q3
- BFI added 1.2% in Q4 after 0.1% in Q3



Dec Real per capita PDI was false security ...

...Jan was down 0.1% -- not good

REAL PERSONAL DISPOSABLE INCOME
PER CAPITA
-- YNYY Pct Charge Revised. Dec 12

Average Yr/Yr Grd wth, 2000-2008 = 2,1%

Dec Real per capita PDI was false security ...

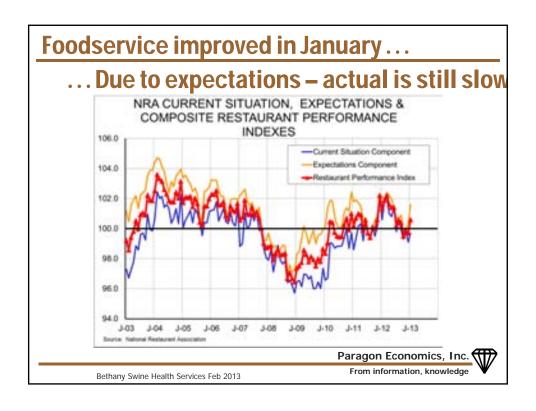
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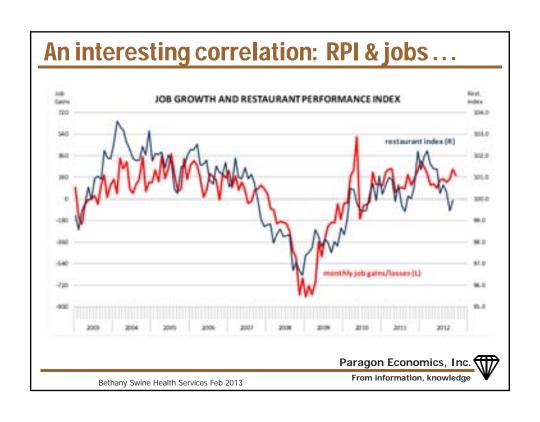
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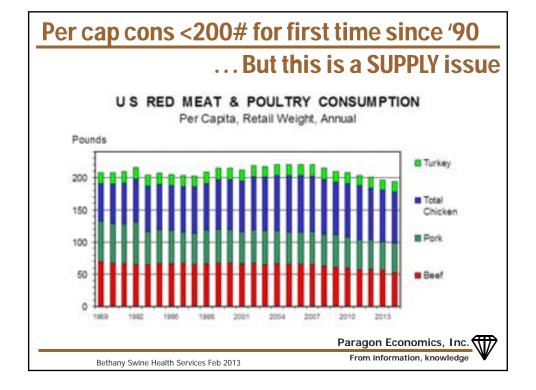


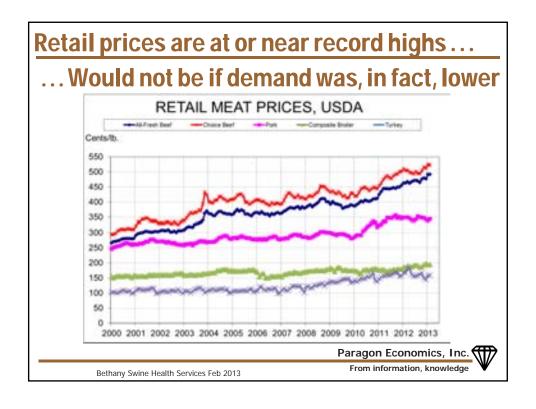


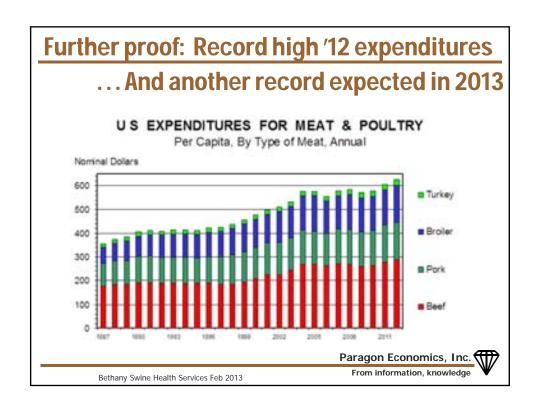
Demand is NOT consumption

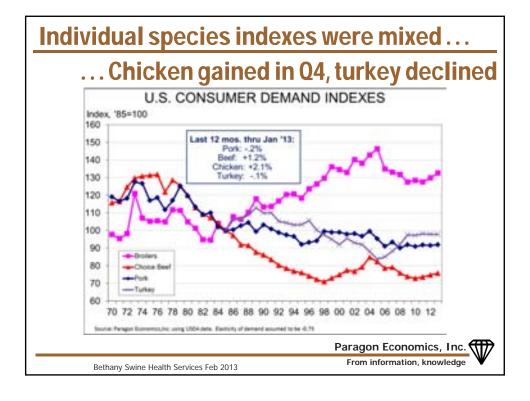
- Consumption is NOT measured directly by asking consumers how much they eat Consumption = Beginning Inventory
 - + Production
 - + Imports
 - Exports
 - Ending Inventory
- POSITIVE relationship between consumption and production
- Demand: Q's consumed at various P's

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So why is demand so darned soft right now?

- Everything is working AGAINST demand
 - FEBRUARY is hardly ever a good month!
 - SS taxes = 2% pay cut on January 1
 - Gasoline prices up \$0.40/gal since Jan 1
 - Russia and China ractopamine trade barrier
 - Exchange rates especially Japan
 - Weather a big part of the country got hit hard in October and several times this winter
- Will domestic usage increase at lower prices levels?





Rapidly falling yen – due to gov't policy

last spring/summer, lower than in '11

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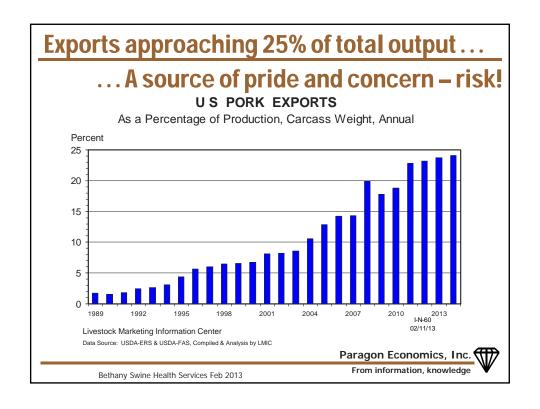
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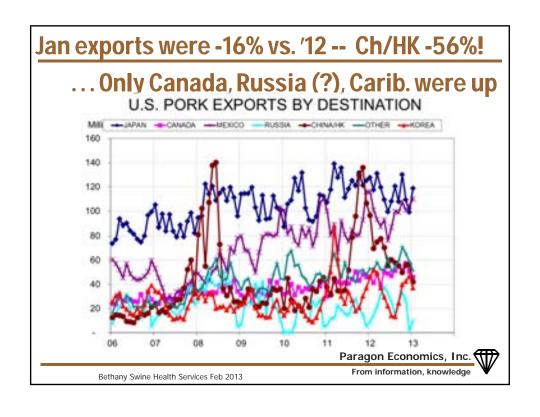
Situation for competing meats ...

- Lower cattle numbers partially offset by higher weights – but lower beef supplies
- MUCH depends on weather heifer retention, cow slaughter
- Tighter per cap supplies and higher prices are set through 2014 -- 2015?
- Chicken is GROWING betting on the corn crop
- Higher prices Q1 & Q2 lower rest of '13?

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Russia & China Why is it happening?

- It's actually not about ractopamine
- China: Low hog prices, protection
- Russia:
 - Push-back on human rights language
 - Russia protecting its domestic industry selfsufficiency goals, vested interests in govt.
 - "Normal" fun and games with Russkies
- Exports to Russia accounted for 1.2% of total U.S. production in 2012 -> 2-3% price impact if all stayed here

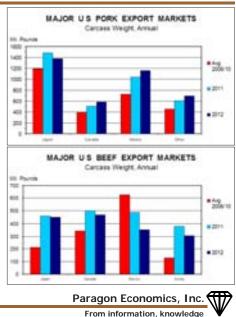
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3/25/2013

Murphy-Brown Grower Feb 2013

And what about MCOOL "fix"?

- USDA proposal:
 - Drops "mixed" label
 - Label must specify born, raise, slghtr'd
 - MORE restrictive and costly for packers
- Canada is #1 beef and #4 pork customer
- Mexico is #3 beef and #2 pork customer
- Mexico is LARGEST byproduct buyer – BY FAR!



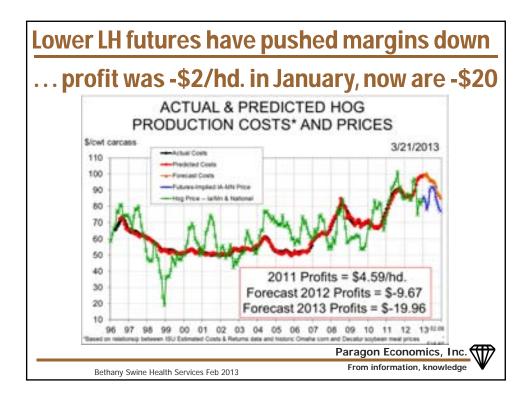
Demand summary

- Demand indexes ended '12 mixed with pork down marginally
- Still concerned about consumer incomes in '13 – some improvement but taxes????
- New export records in'13 are in doubt
 - Russia was about 5% of '12 exports
 - Weaker yen will hurt Japanese buying power
- Higher beef and chicken (??) prices will be positive for pork demand

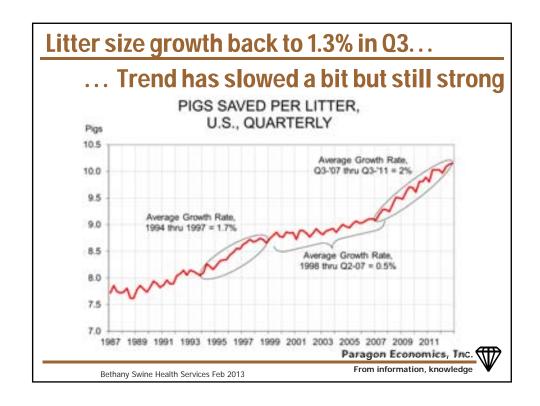


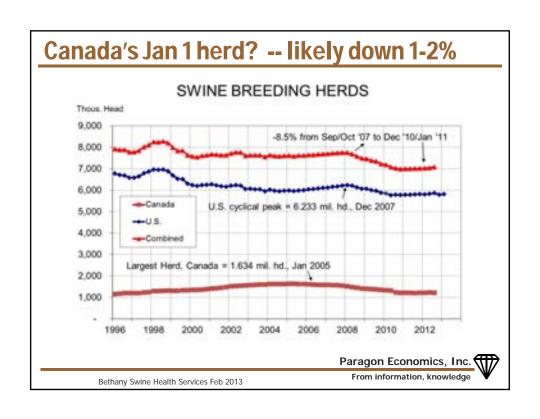
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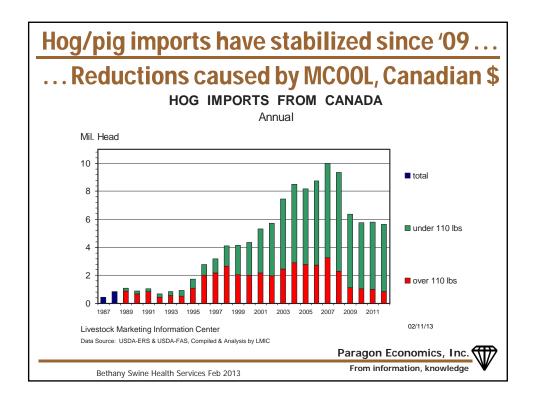
2013 cost forecasts have fallen again... ... Were \$100 last fall, \$97 in January **ACTUAL & PREDICTED HOG** PRODUCTION COSTS* \$/cwt carcass 3/21/2013 110 - Actual Costs 100 Predicted Costs 2011 Average = \$86.70 Forecast Costs 80 Average Cost, 1999-2006 \$52.76/cwt 60 2012 = \$90.89 50 2013 = \$94.47 97 98 99 00 01 02 03 04 05 06 07 08 09 10 11 12 13 Paragon Economics, Inc. From information, knowledge Bethany Swine Health Services Feb 2013

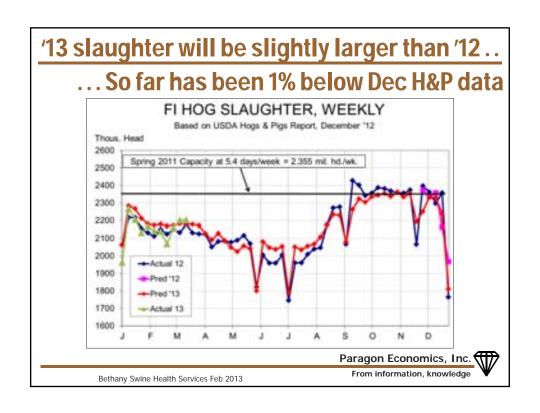


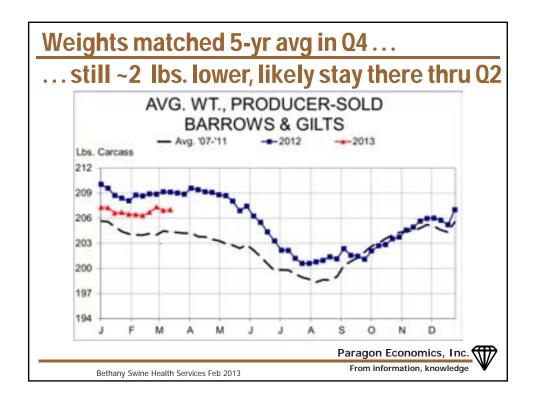
USDA QUARTERLY HOGS & PIGS REPORT					
December 28, 2012					
Category	2011	2012	'12 as Pct of '11	Pre- Report Est's	Actual - Est
Inventories on Dec 1*					
All hogs and pigs	66,361	66,348	100.0	99.1	0.9
Kept for breeding	5,803	5,817	100.2	99.3	0.9
Kept for market	60,558	60,531	100.0	99.1	0.9
Under 50 lbs.	19,524	19,448	99.6	98.4	1.2
50-119 lbs.	16,643	16,643	100.0	99.0	1.0
120-179 lbs.	12,473	12,479	100.0	99.6	0.4
180 lbs. and over	11,918	11,961	100.4	100.5	-0.1
Farrowings**					
Sep-Nov sows farrowed	2,929	2,900	99.0	97.9	1.1
Dec-Feb Intentions	2,864	2,865	100.0	98.4	1.6
Mar-May Intentions	2,982	2,925	98.1	98.8	-0.7
Sep-Nov Pig Crop1*	29,365	29,443	100.3	99.0	1.3
Sep-Nov Pigs Saved/ litter	10.02	10.15	101.3	100.8	0.5
Thousand head	**Thous	and litters			

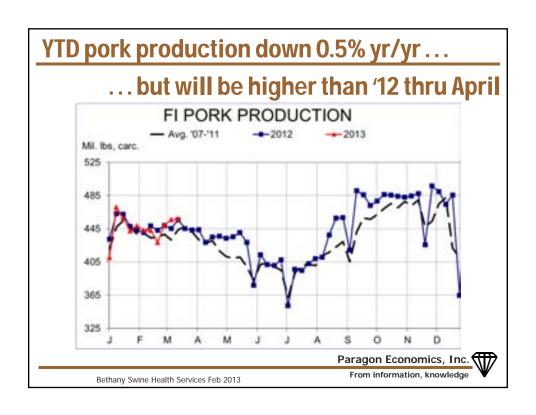


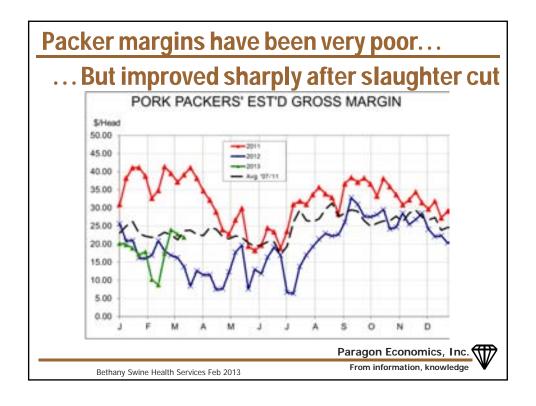


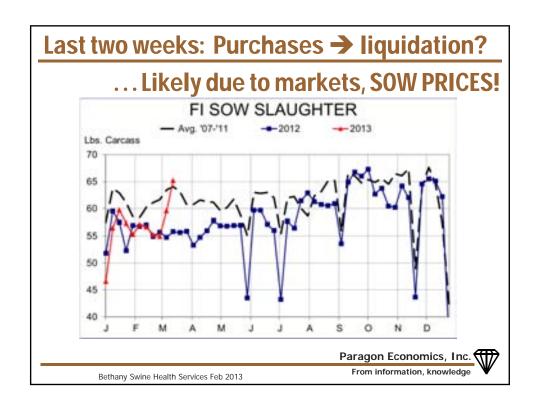


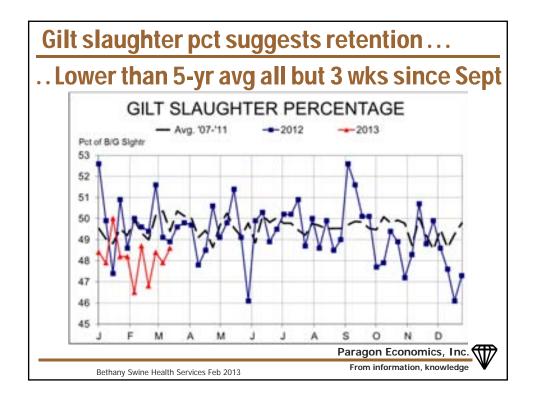




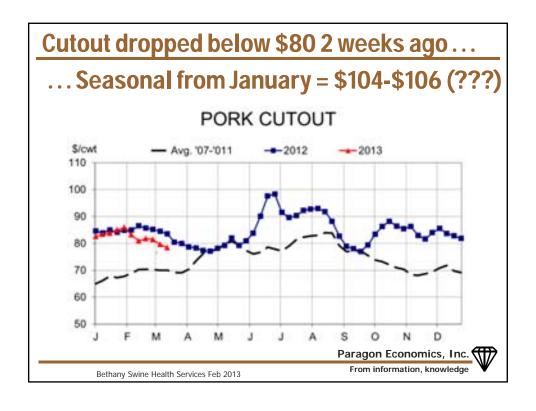


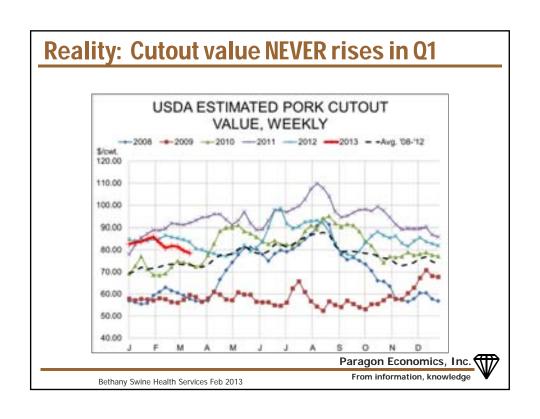


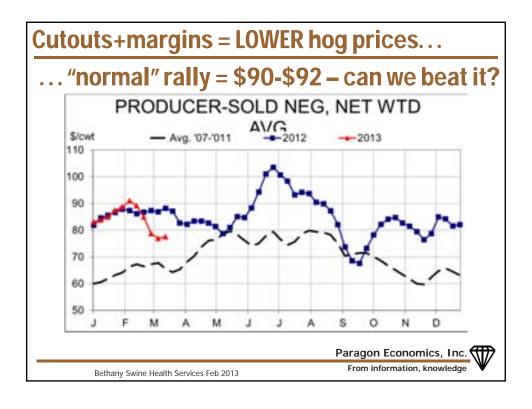


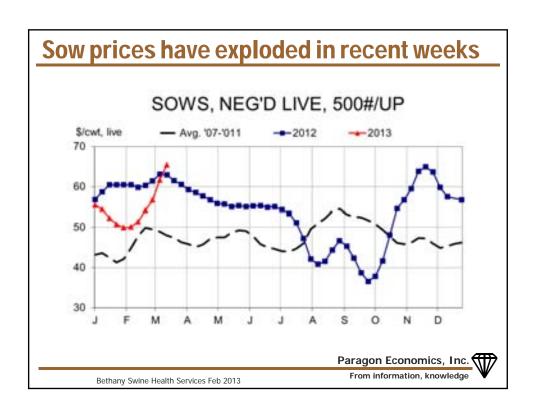












Price forecasts – sticking to them for now!

		December	2012 Hogs	& Pigs Prid	ce Forecast	3
		Mizzou	ISU	LMIC	Paragon	CME
		Producer-Sold Net Price, All Methods	Ia-Mn Wtd. Avg. Base Lean Hog	National Wtd Avg. Base Price	National Net Neg'd Price, Wtd. Avg.	CME Lean Hog Futures
2011	Q1	80.54	78.92	79.74	80.91	81.54**
	Q2	92.36	89.37	89.53	94.89	93.97**
	Q3	95.59	92.31	92.25	97.61	97.49**
	Q4	87.39	85.94	85.17	87.92	88.11**
	Year	88.97	86.64	86.67	90.33	90.28**
2012	Q1	86.56	84.27	84.11	86.11	86.44**
	Q2	87.76	83.67	85.31	86.67	86.64**
	Q3	87.69	85.05	84.74	84.97	86.64**
	Q4	82.90	82 - 83	80.60	81.61	82.13**
	Year	86.20	84 - 85	83.69	84.84	85.46**
2013	Q1	82 - 86	85 - 87	83 - 87	84 - 88	84.93**
	Q2	89 - 93	89 - 92	86 - 91	88 - 92	85.18
	Q3	88 - 92	90 - 93	89 - 94	90 - 94	88.06
	Q4	80 - 84	84 - 86	81 - 86	83 - 87	78.80
	Year	85 - 89	87 - 89	85 - 90	87 - 90	84.02
		uel data from LICDA	Plus figures are estimate	ducing HCDA data	**CME Loop Hog Indox	3/22/13

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Two resources you may want to try ...

National Hog Farmer's Weekly E-Preview

www.nationalhogfarmer.com

The Daily Livestock Report

www.dailylivestockreport.com

(No longer free – asking for voluntary support of \$49/\$149 per year)

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QUESTIONS & DISCUSSION?

