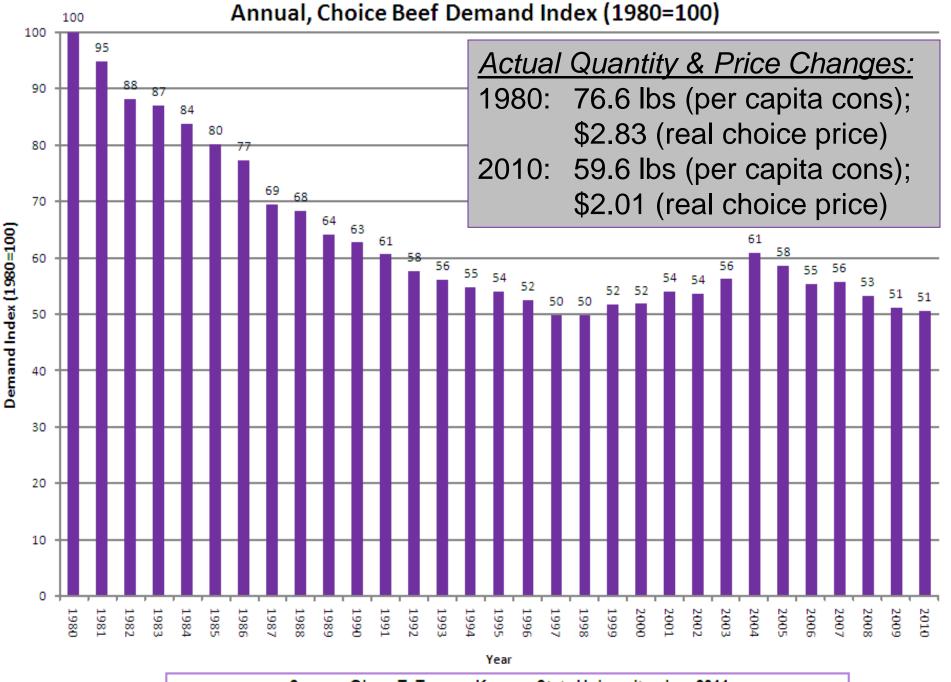
<u>Assessing Domestic and</u> <u>Export Beef Demand Drivers,</u> <u>Trends, and Issues</u>

Ted Schroeder & Glynn Tonsor Dept. of Agricultural Economics Kansas State University

2011 Reciprocal Meat Conference Manhattan, KS June 20, 2011



Source: Glynn T. Tonsor, Kansas State University, Jan. 2011

Beef Board Study Meat Demand (1982-2007)

- 10% increase in:
 - Expenditures: +9% qu. beef demanded
 - Beef demand follows U.S. economy ...
 - Beef Prices: -4% qu. beef demanded
 - Rather insensitive to competing meat prices
 - Beef recalls: -0.2% qu. beef demanded
 - 18 in 2006 to 38 in 2007 = 2.6% impact
 - Female Employment:
 - 6% qu. beef demanded (+6% for poultry)
 - FAFH Expenditures:
 - -16% qu. beef demanded (+18% & 19% for pork & poultry)

Beef Board Study Meat Demand (1982-2007)

- Health information impacts:
 - Cholesterol, heart disease, arteriosclerosis:
 - Articles quadrupled from 1982-2004 = 9% decline in beef demand (1/3rd of 28% decline experienced)
 - net Positive Atkins:
 - 1998-2003 increase of 245% = +2% impact
 - Decline after 2003 = -0.8% impact
 - Zinc, Iron, or Protein:
 - 268% increase (1982-2007) = 7% increase in beef demand (13% increase for poultry)

Beef Board Study Meat Demand (1982-2007)

Non-price factors are substantial

- Convenience matters
 - Convenient, Microwaveable, Ease of Use: 3,579 new beef products; 5,633 new poultry products (Mintel, 1997-2008)
- Suggests notable role of meat scientists...
 - Attractive, new "convenient" beef products are highly needed...
 - Issue of relative consistency (consider sampling pork chops, chicken breasts, and K-C strips) must also be considered....

Animal Welfare Media Impacts Study (1982-2008)

- AW media elasticities are notably smaller than price and expenditure effects
- 1999(1)-2008(4) pork & poultry indices increased by 181% & 253%:
 = 2.65% & 5.01% demand reductions...
- No direct beef demand impacts

 <u>HOWEVER</u>: expenditure reallocates from meat to non-meat food
- <u>Question:</u> What is the impact of alternative AW protocol on the beef eating experience???

Domestic Trends

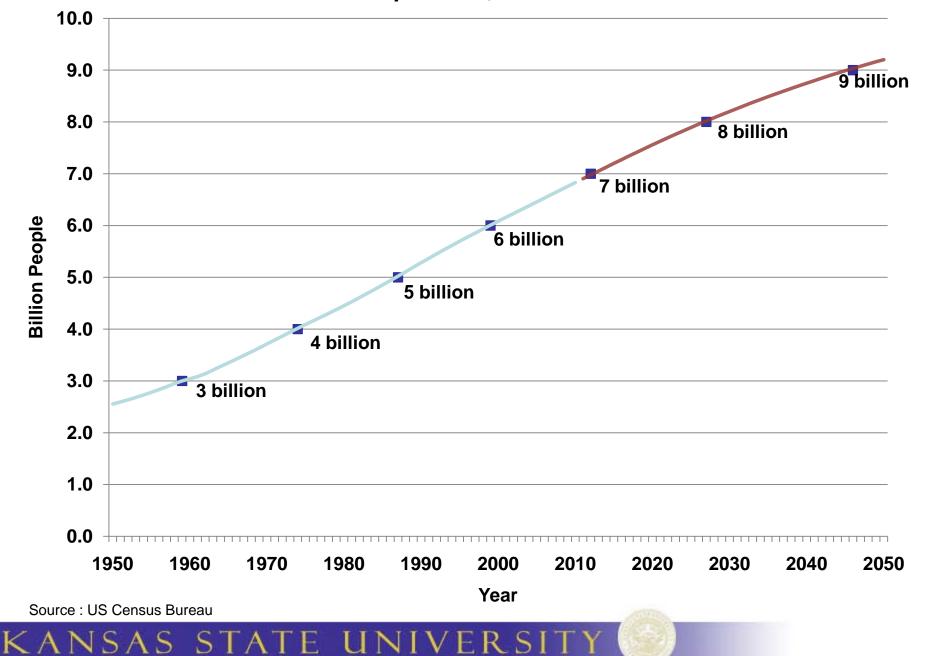
- In 2018 per capita poultry > (beef + pork) {USDA}
 Beef & pork minimize in 2013 at 55.7 & 45.2 lbs
- Does differentiation of niche products stigmatize conventional products?
 - What impact does promotion of "pasture access" beef have on "commodity beef" demand?
- Non-price trade-offs are increasing

– Prevalence of E-coli vs. irradiation acceptance

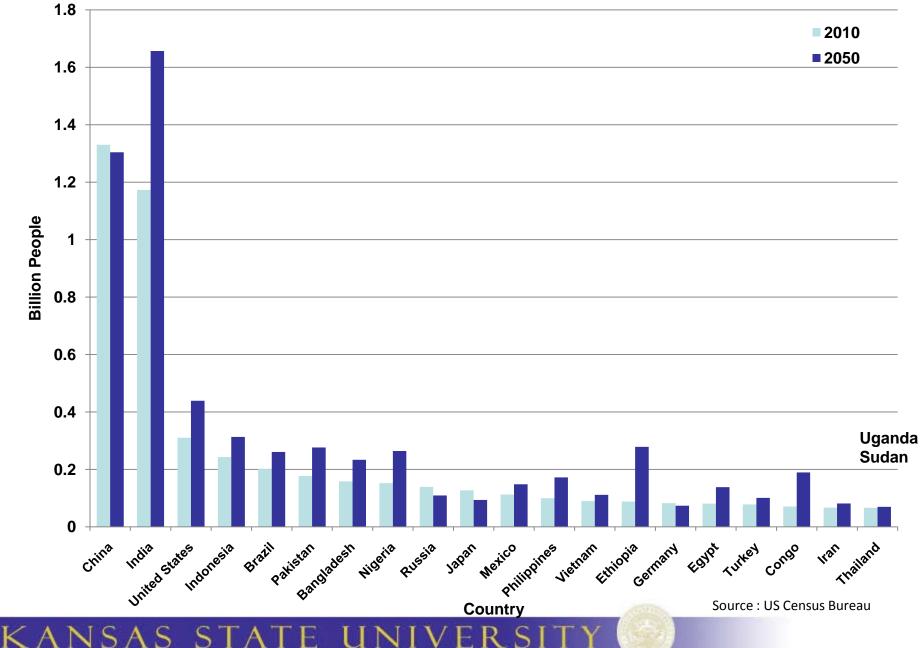
Can Exports Save US?



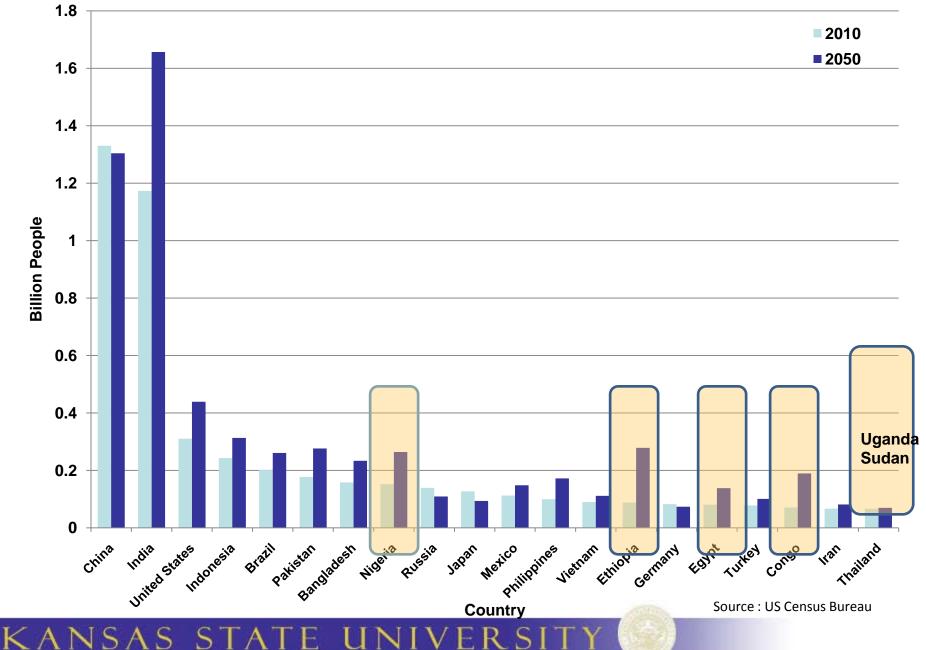
World Population, 1950 - 2050

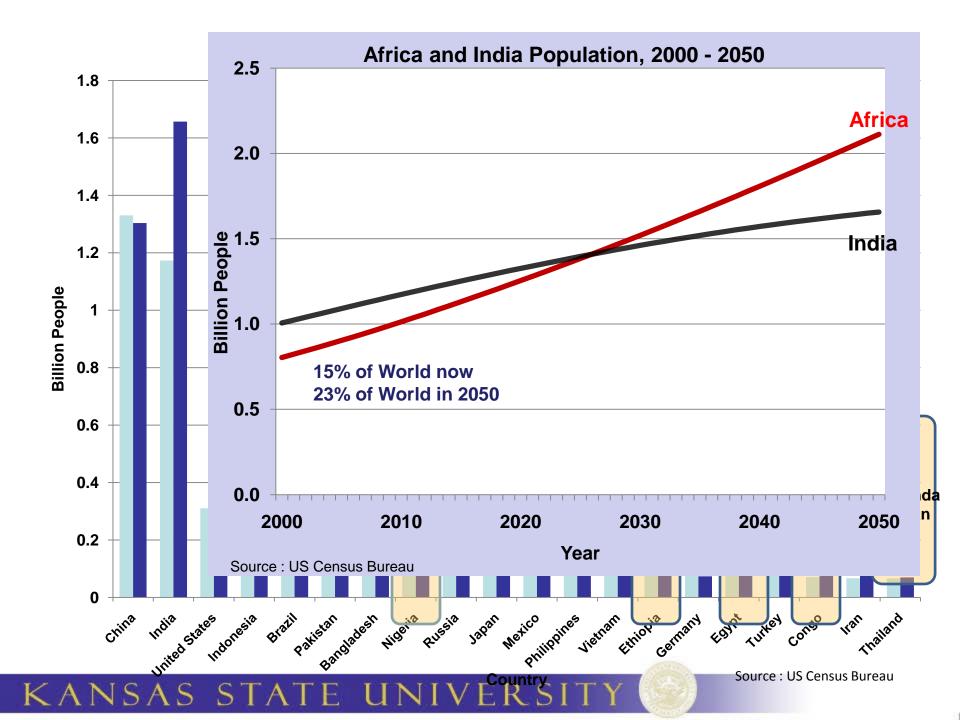


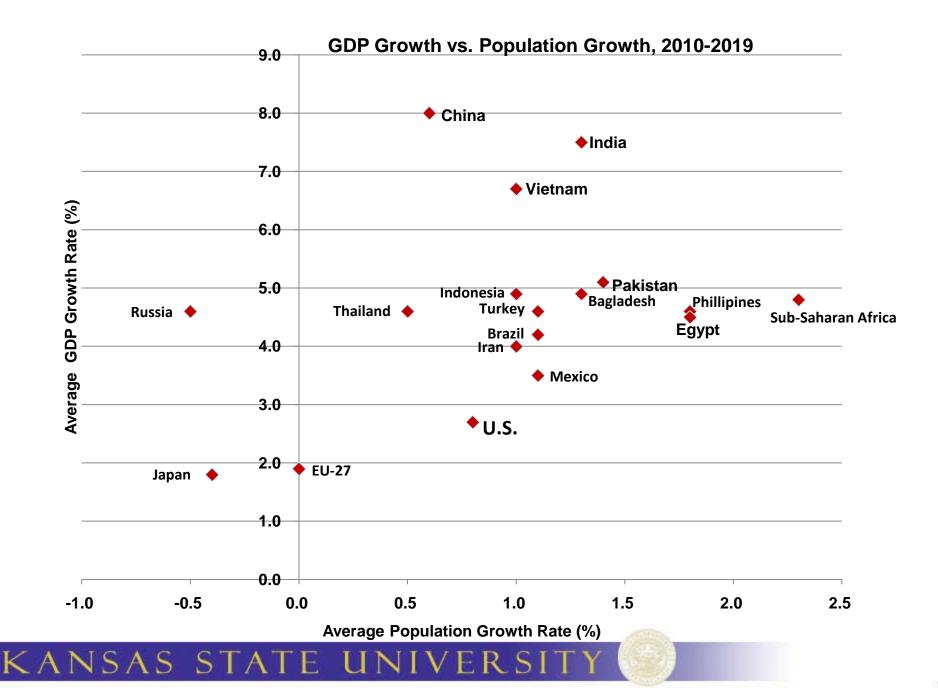
Population Largest 20 Countries, 2010 and 2050

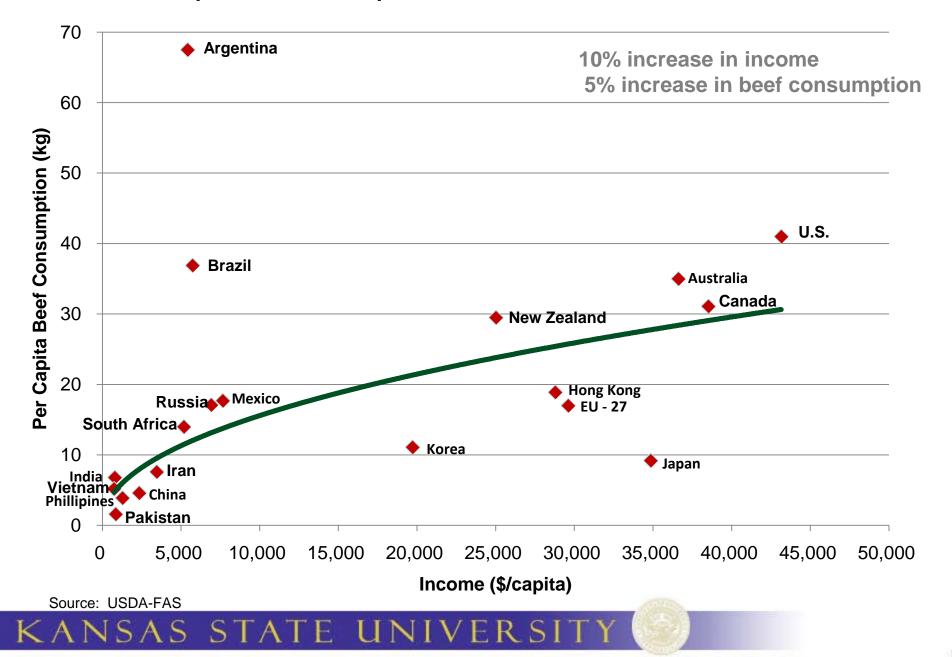


Population Largest 20 Countries, 2010 and 2050



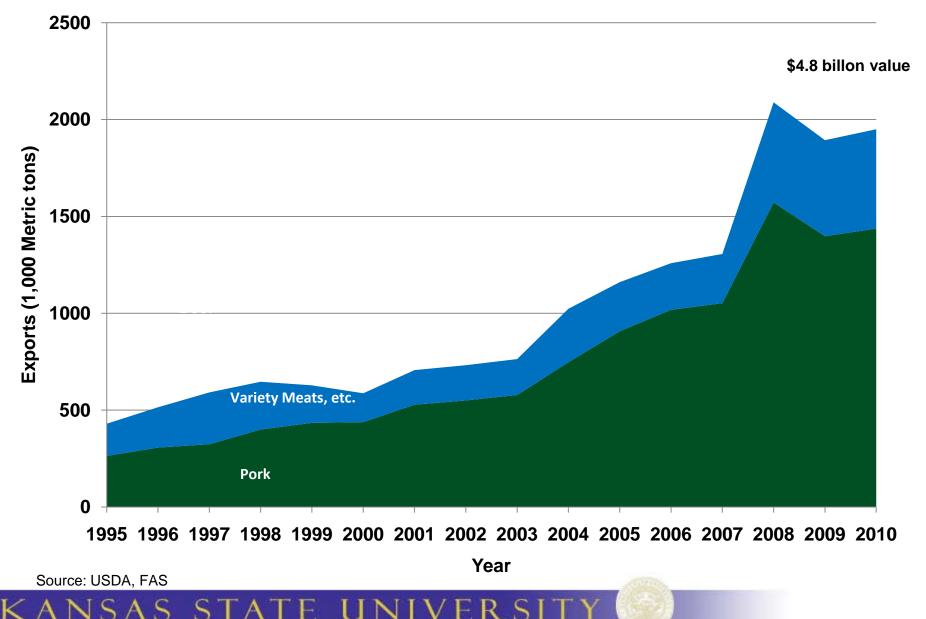




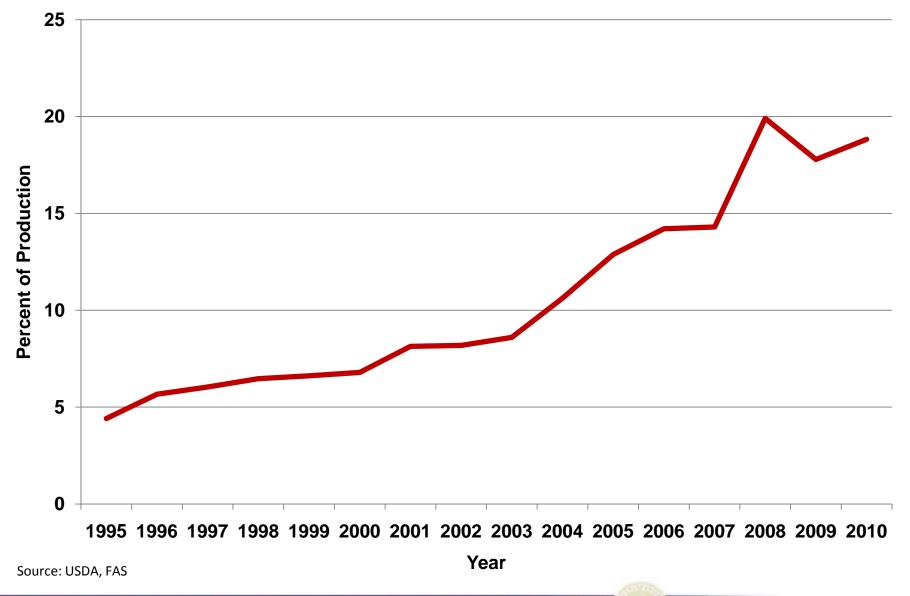


Per Capita Beef Consumption and Income, Selected Countries, 2008

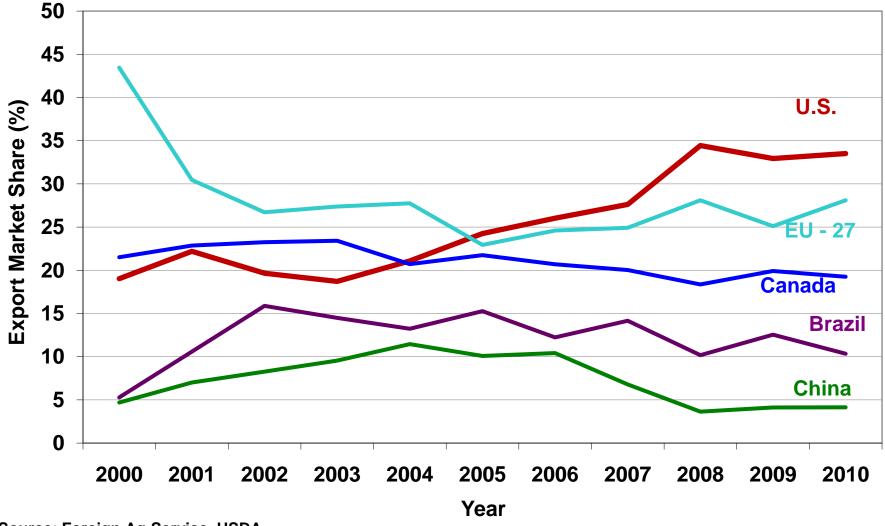
Annual Pork, Sausage, and Variety Meats Exports, 1995-2010



Annual Pork and Variety Meats Exports, Percentage of Production, 1995-2010

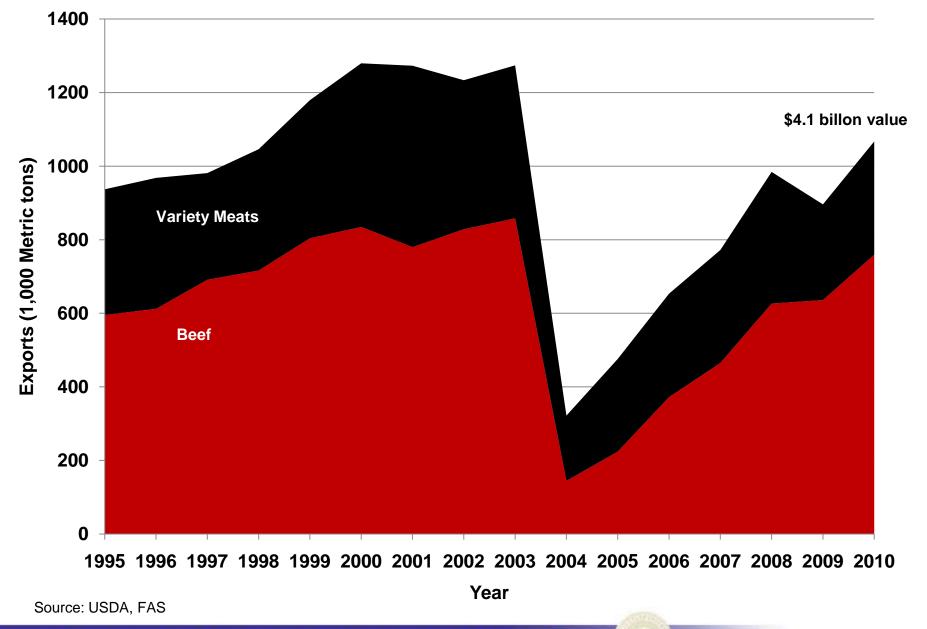


Market Shares Leading World Pork Exporters, 2000-2010



Source: Foreign Ag Service, USDA

Annual Beef and Beef Variety Meats Exports, 1995-2010

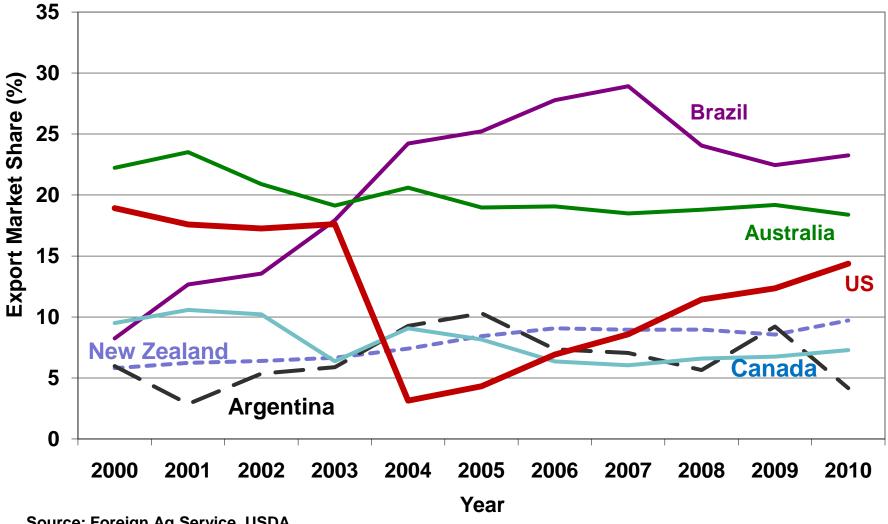




Annual Beef and Variety Meats Exports, Percentage of Production, 1995-2010



Market Shares Selected Leading World Beef Exporters, 2000-2010



Source: Foreign Ag Service, USDA

KANSAS STATE UNIV R E

Market Access Issues





Estimated Economic Loss To Producers: 1-Day Export Market Closure (2007 Export Levels)

Beef Export Market Closure for 1 year – beef producer loss **\$9.1 million per day = \$3.3 billion per year**



Recent Meat Trade Newswire:

- 6/15/2011 Columbia lifts poultry restrictions on six states
- 6/6/2011 NE poultry banned from Taiwan
- 6/2/2011 Taiwan finds Paylean in US meat, ractopomine feeding banned
- 6/7/2011 China's labeling rules to cost US pork exporters
- 6/8/2011 Brazil industry leaders say Russian ban could cripple pork exports
- 6/6/2011 South Korea to ban use of antibiotics in animal feed
- 5/31/2011 Australia bans live cattle exports to Indonesia because of inhumane treatment
- 5/12/2011 Tyson appeals Mexico ban on Mo. poultry plant

Sources: Meatingplace.com and Meat Trade News Daily

Recent Meat Trade Newswire:

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5/31/201

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 6/7/2011 The global meat market is
- 6/8/2011 Brazil industry leaders say Russian ban could cripple pork exports
 6/6/2011 Iucrative but tough to navigate?
 - Australia bans live cattle exports to Indonesia because of inhumane treatment
- 5/12/201

Sources: meannyplace.com and mean made mews Dairy

"Animal identification and product traceability from the farm to the fork must be progressively implemented worldwide"

Bernard Vallat Director General World Organization for Animal Health (OIE) July 2008



Similar sentiments formalized at:

- WTO
- Codex Alimantrius
- UN FAO



		Nat.	Trace	Movement	Age	Diet	Health		
Country	Mandatory	An. ID	Origin	Tracking	Verification	Verification	Records	Motivation	
Exporters									
United States	Ν	V	V	V	V	V	V	Animal health	
Brazil	Y Export	Y	Y	Y	Y	Y	Y	FMD, EU Access	
Australia	Y	Y	Y	Y	Y	Y	Y	Mkt Access	
New Zealand	Y	Y	Y	Y	Y	V	V	Mkt Access, Animal Health	
Canada	Y	Y	Y	Y	V	Ν	N	Market acces BSE	
Argentina	Y	Y	Y	Y	Y	Ν	Y	FMD and market acces	
Uruguay	Y	Y	Y	Y	Y	Ν	Y	FMD and market acces	
<u>Importers</u>									
Japan	Y	Y	Y	Y	Y	Ν	No	BSE	
European Union	Y	Y	Y	Y	Y	Ν	No	Animal health BSE	
Mexico	N	Y	Y	Y	Y	Ν		Animal health census, traceability	
South Korea	Y	Y	Y	Y	Y	Ν	No	Food safety, animal health	

Comparison	of Expo	rt Country	y Market A	ccess to Sel	ected Impor	t Countries	as of Septe	ember 1, 2010	/	
	OIE	OIE	Dominant	Import (Country Sanita	ountry Sanitary and Phytosanitary Restrictions on Beef Im				
Export	BSE	FMD	Cattle			South		Hong	Europe	
Country	Status	Status	Finishing	Japan	China	Korea	Taiwan	Kong	(EU-27)	
Share of U	S Exports	2003 (FAS)		34.7%	0.4%	24.8%	1.9%	1.8%	0.2%	
Share of US Exports 2009 (FAS)				12.8%	0.0%	8.3%	4.2%	3.6%	2.2%	
Share of Imports from US 2009 (Global				14.0%	0.0%	26.5%	29.7%	16.0%	2.3%	
								<30 mo, EV,		
<mark>US</mark>	Cont	Free	Grain	<21 mo, EV	Restricted	<30 mo, EV	<30 mo, EV	Traceable	NHTC	
					boneless,				1	
				<21 mo, Age	<30 mo,		1	Full Access	< 30 mo,	
Canada	Cont	Free	Grain	verf CCIA	trace	Restricted	<30 mo	SRM removed	NHTC	
Australia	Neg	Free	Grass	Free	Free	Free	Free	Free	Free	
									1	
New Zealand	Neg	Free	Grass	Free	Free	Free	Free	Free	Free	
		Mixed /		FMD					Inspection,	
Brazil	Cont	Vaccinate	Grass	Restrictions	Free	Restricted	Restricted	Free	Trace	
		Free /		FMD	1				Inspection,	
Argentina	Neg	Vaccinate	Grass	Restrictions	Restricted	Restricted	Restricted	Free	Trace	

Who will be the global suppliers?

Those with market access

