



Depth, Breadth & Precision Of Traceability In Global Beef Supply Chains Depth: "how far back &/or forward relevant information is tracked" -- best systems are EU & Japan. "amount of information collected" -- Brazil, Breadth: Japan, Australia & EU have the broadest systems. Precision: "degree of assurance with which a tracing system can pinpoint a particular food product's movement or characteristics" -- Japan, EU, Australia & Brazil are most precise because individual animals & their farms-of-origin can be linked with beef systems & their systems rely on verification by public or private auditors. SOURCE: Souza-Monteiro & Caswell (2004), http://www.umass.edu/resec/workingpapers.htm





















THE FEDERATION	Select (of 87) Animal Health Market Access Issues: Beef (October 2006)						
Country	Issue Name	Description					
Japan	BSE Restriction	Only accepts beef from cattle certified by USDA as being ≤20 MOA; rigorous import inspection.					
China	Defacto Quota	AQSIQ uses health certificates to restrict imports, resulting in a defacto quota.					
Hungary	BSE Ban	Bans imporatation of beef due to BSE concerns.					
Romania, Russia	VSV Ban	Bans beef imports from states/counties, with confirmed cases (bovine or equine) of Vesicular Stomatitis (VSV) within last 12 mo.					
Israel	BSE Testing	Requires importers to certify that beef is derived from cattle ≤30 MOA; waives requirement for domestic cattle since all are tested.					
Australia	BSE Restriction	A defacto ban on U.S. imports because USDA cannot certify that cattle imported from Mexico are free from BSE.					
Saudi Arabia	MBM Ban	Requires exporters to certify that beef & lamb were not fed MBM or animal tallow.					

USDA-NAIS Key Objectives

- Allow producers, to the extent possible, the flexibility to use current systems or adopt 1) new ones
- Have a system that is technology neutral, so that all existing forms of effective 2) technologies and new technologies that may be developed in the future may be utilized.
- 3) The system should use and build upon the excellent data standards developed by the US Animal Identification Plan (USAIP).
- 4) The system must not preclude producers from being able to use it with production management systems that respond to market incentives.
- The architecture must be designed so that the system does not unduly increase the 5) role and size of the government.

just think it's going to be absolutely necessary.' Because of the retail market & foreign competition, nobody can afford to be left behind."

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"Biosecurity"

•Kirkpatrick & Selk (OSU; 2006): "biosecurity is used to describe programs for preventing the introduction of pathogens considered potentially harmful to the health & well-being of the herd."

•NRC (2006): "the policies & measures taken to minimize the risk of introducing an infectious pathogen into the human, agricultural animal, & research animal populations."

•The Sunshine Project (2003): "on a very practical level, there may be differences between means to prevent an unintended release into the environment (sometimes referred to as 'biosafety') & means to prevent abuse or theft (sometimes referred to as 'biosecurity')."

These three definitions:

- -Either address or do not address risk to animal health.
- -Either address or do not address risk to public health.

-Reflect or do not reflect unintentional release of biohazards vs. terrorism. -Reflect or do not reflect abuse or theft of biohazards.

Biosecurity vs. Biocontainment

·Biosecurity:

A series of management practices designed to minimize or prevent the importation of infectious agents onto a farm:

- Testing & screening
- Isolation & quarantine
- Immunization
- Selective purchasing
- Monitor & evaluation

•Biocontainment = Biosafety:

Series of management strategies to minimize the spread of infectious agents within groups of animals or into the environment:

- -Testing & screening
- -Isolation & quarantine
- -Immunization
- -Selective culling -Monitor & evaluation

(A) Durahasan hamusat sattle that were individually identified, 24 F0/									
(A) Purchased harvest-cattle that were individually identified: 31.5%									
(B) Average number of branded-beef programs: 5.3									
Branded-beef programs having specifications for: breed (37%), marbling (62%), hide color (48%), Yield Grade (42%)									
(C) Changes from 1995, to 2005, in:									
Average number of branded-beef programs 1.33 to									
5.25									
Average number of Angus programs 0.67 to									
3.00									
Average number of Natural/Grass-Fed programs 0.50 to									
2.25									
Harvest cattle purchased on a "grid" 15% to									
34%									
SOUR CHARGE CALLER CHARGE LIDE CONSTRAINED CITY, OK) October 20020% to									

Products.

Partnership For Quality (71 Ranches; 47,300 Cows; 29,350 Feeder Cattle)									
	Using PO	Feedlot	Prime	Premium At	Carcass Premium		Total Premium		
Year	Genetics	Medicine	Choice	Purchase	Retain	Transfer	Retain		
1998	10.3% \$6.94	\$6.41	38.1%	\$6.41	\$2.12	\$0.53	\$8.53		
1999 \$13.9	15.2% 00	\$4.90	33.3%	\$12.65	\$5.00	\$1.25	\$17.65		
2000 \$17.8	32.1% 84	\$3.18	37.8%	\$15.82	\$8.08	\$2.02	\$23.90		
2001 \$21.7	46.0% 75	\$4.36	51.4%	\$18.92	\$11.32	\$2.83	\$30.24		
2002	60.0%	\$5.88	60.9%	\$22.77	\$10.88	\$2.72	\$33.65		
\$25.49 SOURCES: Jim Dempsey (Harris Feeding Company) HR-PFQ Coalinga, CA.									