BSE: update on surveillance

FDA TSE Advisory Committee
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Total BSE cases worldwide

- Cumulative total – greater than 189,000 cases
  - Greater than 96% in United Kingdom
  - Greater than 89% occurred in 1996 and before

- OIE website lists current reported totals:
  - [www.oie.int](http://www.oie.int)
**EU monitoring - 2004**

- EU-15 now EU-25
- Total of 11,049,822 bovine tests
  - 1.5 million risk animals, 9.5 million healthy slaughter
  - 865 positive (699 in risk/suspect, 166 healthy slastr)
- Number of cases decreased by 37%
- Overall prevalence in tested animals decreased by 38%
EU monitoring - 2004

- Reductions and increasing age of positive cases indicate success of control measures
- Analysis by year of birth of positive animals
  - Peak of exposure appears well defined in some Member States
    - France, Ireland – 1995
    - Germany, Belgium, Italy, Netherlands – 1996
- TSE monitoring in small ruminants
  - 1 goat positive for BSE (slaughtered in 2002)
US - Enhanced BSE Surveillance

GOAL:

Obtain as many samples as possible from the targeted high-risk population in a 12-18 month period
BSE Surveillance Plan

- Targeting population where disease is most likely to be diagnosed – most efficient
- Assumption if we cannot find disease in targeted – or most likely – population, even more unlikely to be found in non-targeted population
- Use data obtained to extrapolate information about broader cattle population
BSE – Targeted Surveillance

- Non-ambulatory animals
- Dead stock
- Field CNS Cases and on-farm suspects
- Veterinary Diagnostic Laboratory data
- Public health laboratories
- Ante-mortem condemns at slaughter
Surveillance: NVSL Bovine Brain Submissions
FY 93-04
(through 5/31/04)
Enhanced BSE Surveillance

- Total – ELISA and IHC tests conducted since June 1, 2004 – through October 23, 2005

- 1 positive – June 2005, Texas, 12-year old Brahma-cross (*Bos indicus*) cow

512,698

(503,391 ELISA and 4,907 IHC)
Enhanced BSE Surveillance

- Evaluating for appropriate geographic distribution; populations as expected
- Vast majority of samples from deadstock, non-ambulatory animals – as expected
- Good representation from all collection sites, with majority from animal disposal facilities as expected
- Detailed analysis at completion
www.aphis.usda.gov