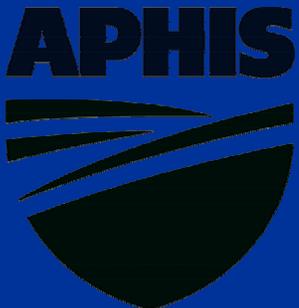


# BSE: update on US surveillance

FDA TSE Advisory Committee  
Silver Spring, MD  
February 8, 2005

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Senior Staff Veterinarian  
USDA, APHIS, Veterinary Services



# 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)

# BSE National Surveillance Plan

## 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

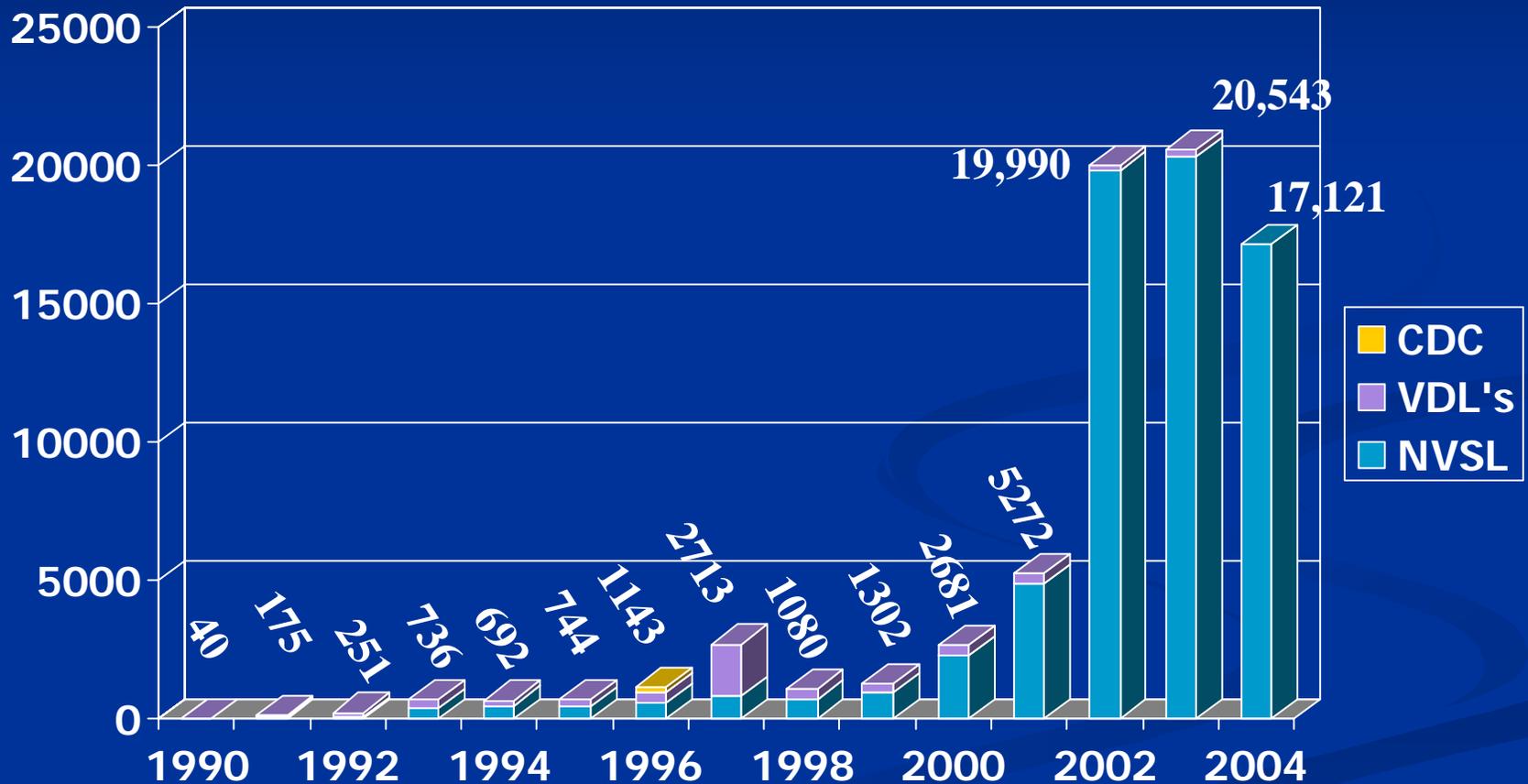
# BSE Surveillance Plan

- Targeted high-risk population – estimated 446,000
- Adult cattle population – 45 million

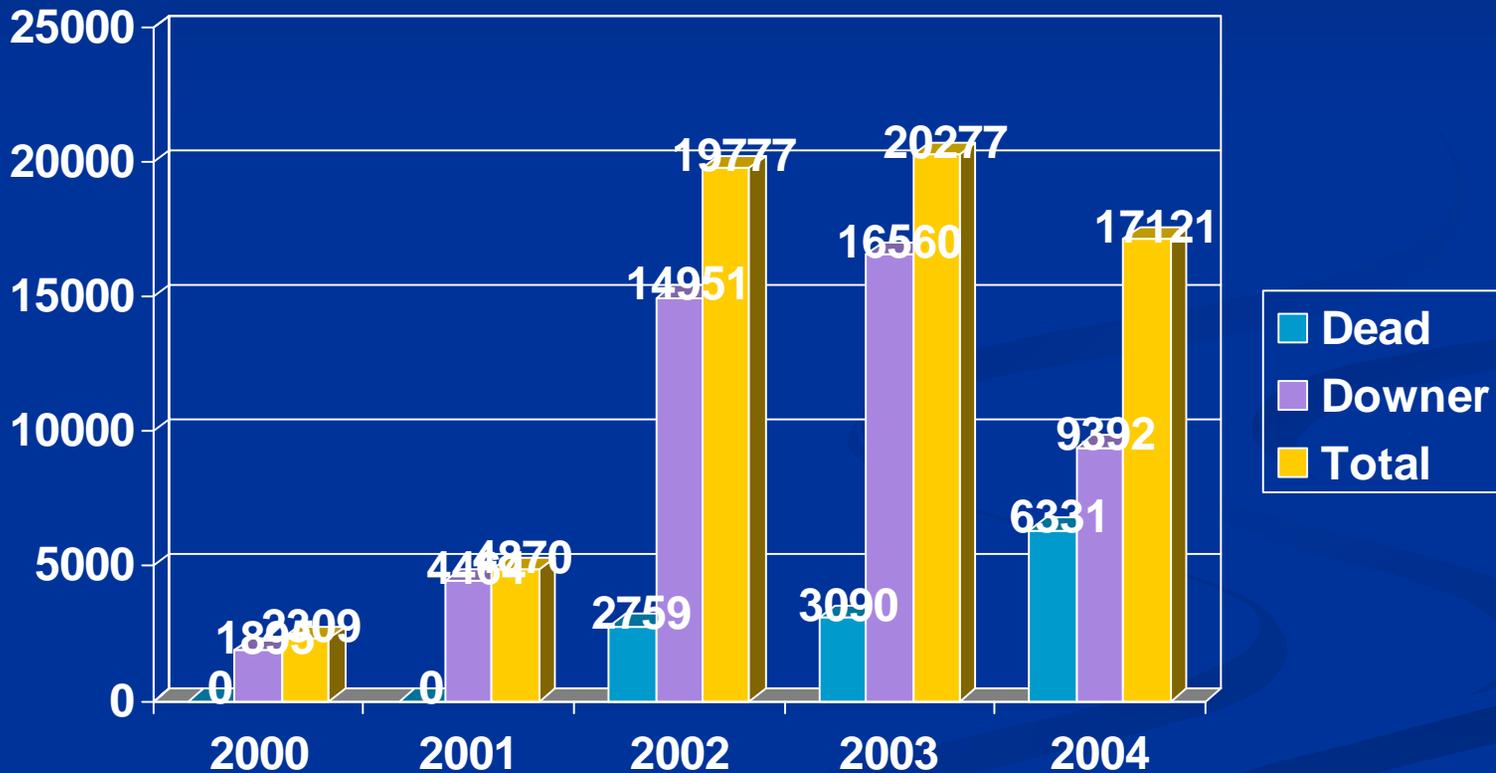
# BSE – Targeted Surveillance

- Non-ambulatory animals
- Dead stock
- Field CNS Cases and on-farm suspects
- Veterinary Diagnostic Laboratory data
- Public health laboratories
- Ante-mortem condemns at slaughter

# BSE Surveillance – May 1990 – FY2004 (thru 5/31/2004)



# 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 February 3, 2005
- All negative results (3 inconclusives)

221,131

(216,922 ELISA and 4,209 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

[www.aphis.usda.gov](http://www.aphis.usda.gov)