

Veterinary Services



Scrapie Surveillance

Diane Sutton
Sheep and Goat Health Commodity Team Lead
U.S. Department of Agriculture
Animal and Plant Health Inspection Service
Veterinary Services
Secretary's Advisory Committee on Animal Health
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Tasks

- Develop novel approaches for increasing producer and veterinarian submission of mature sheep/goats that die on-farm and mature sheep/goats that are slaughtered on-farm.
- Develop strategies for increasing producer and veterinarian reporting of mature sheep/goats that have scrapie signs.



Background and Current Status



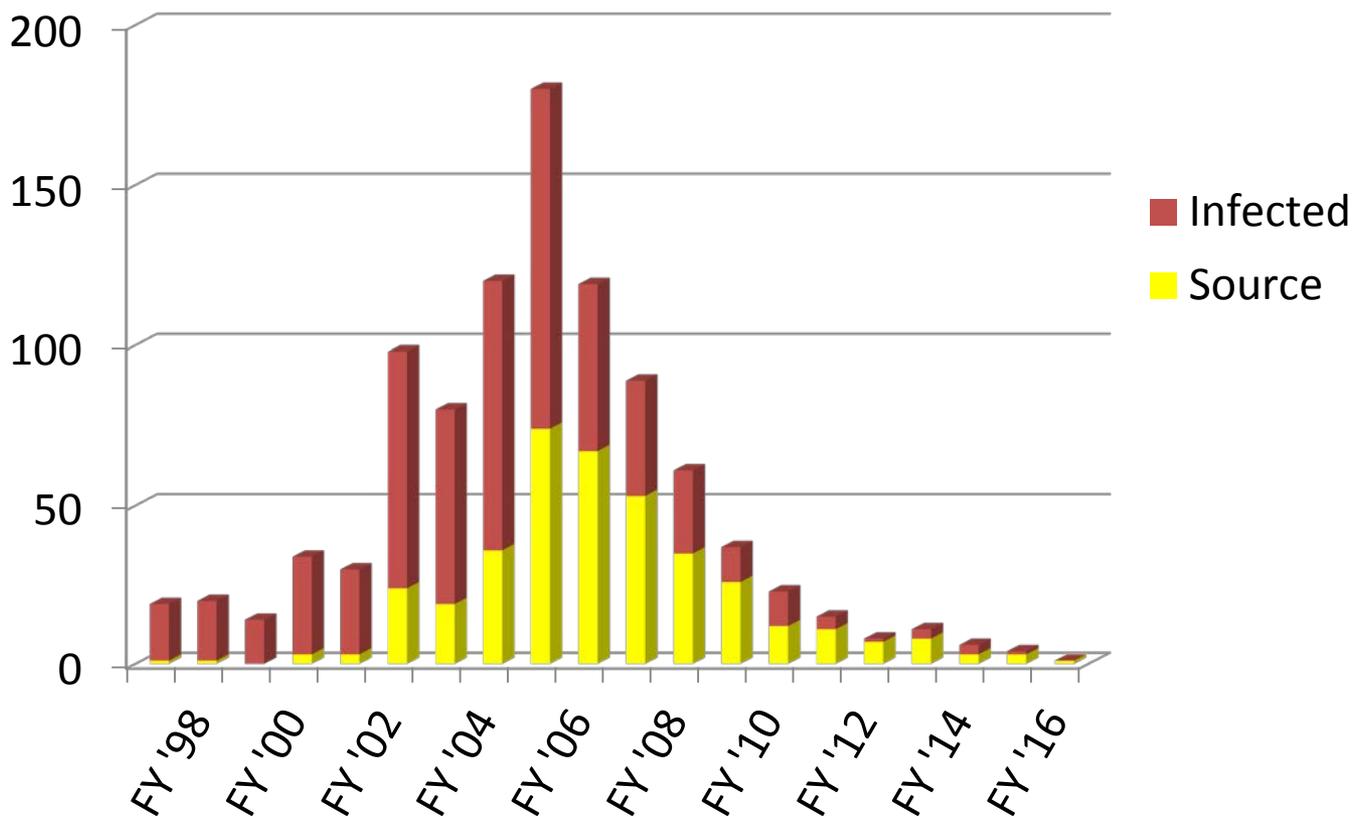
United States Department of Agriculture





Infected and Source Flocks

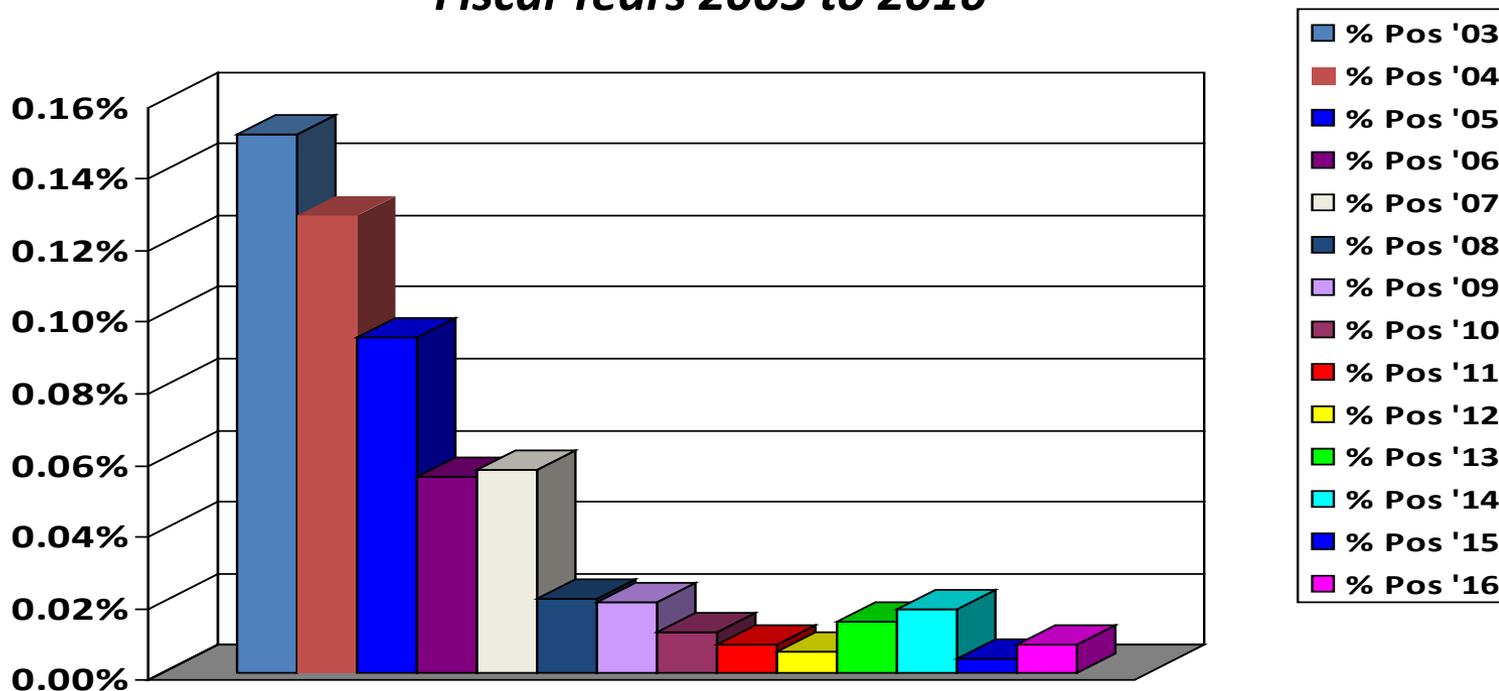
New Statuses by Year - *Fiscal Years 1997 to 2016**



* As of December 31, 2015.

Percent of RSSS Sheep Samples that Tested Positive for Classical Scrapie - Weighted by Face Color

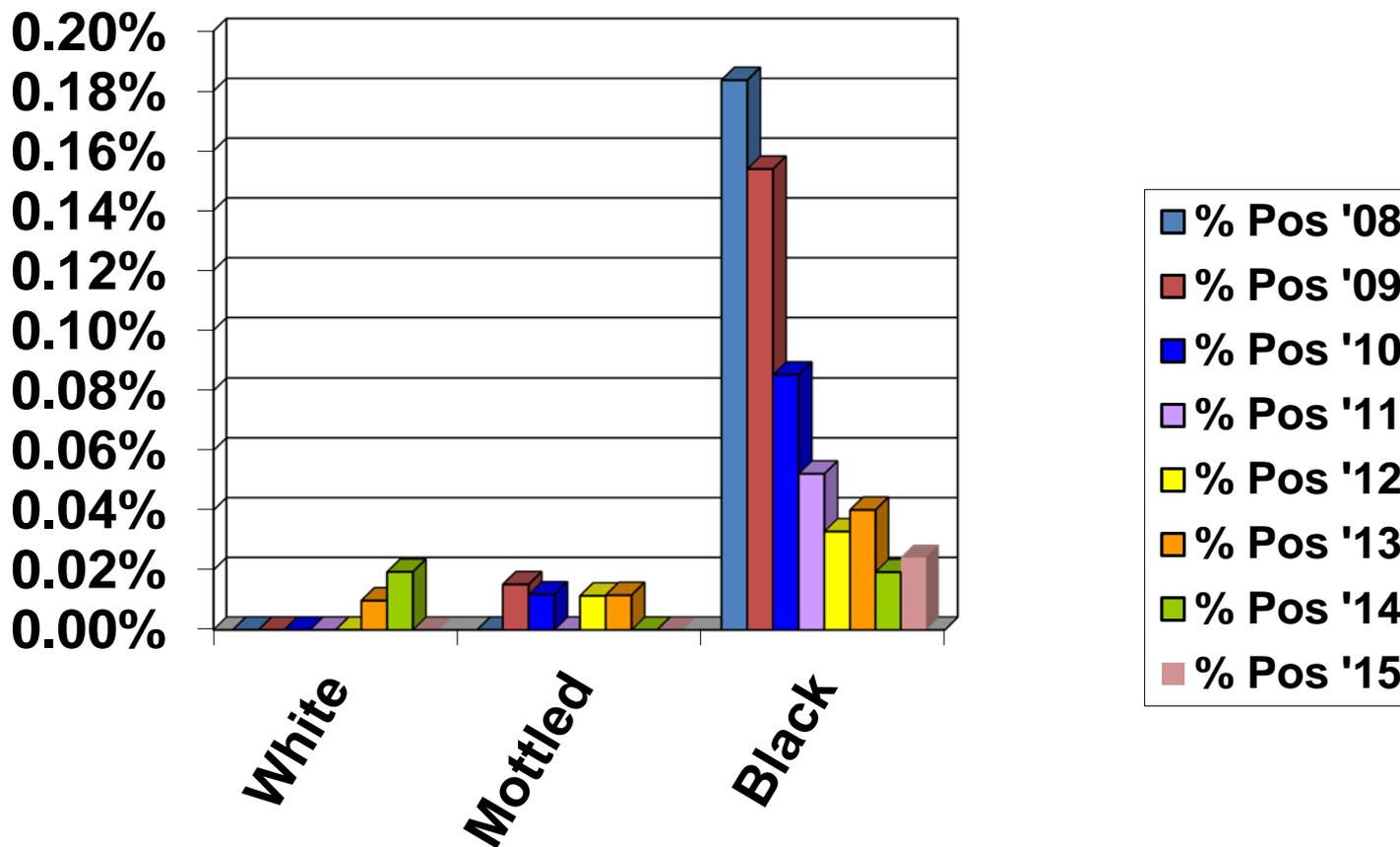
*Fiscal Years 2003 to 2016**



* As of December 31, 2015. Adjusted to exclude multiple positive animals from the same flock. Does not include Nor98-like scrapie cases found through RSSS (2 in FY 2007, 1 in FY 2008, 4 in FY 2010, 1 in FY 2011).

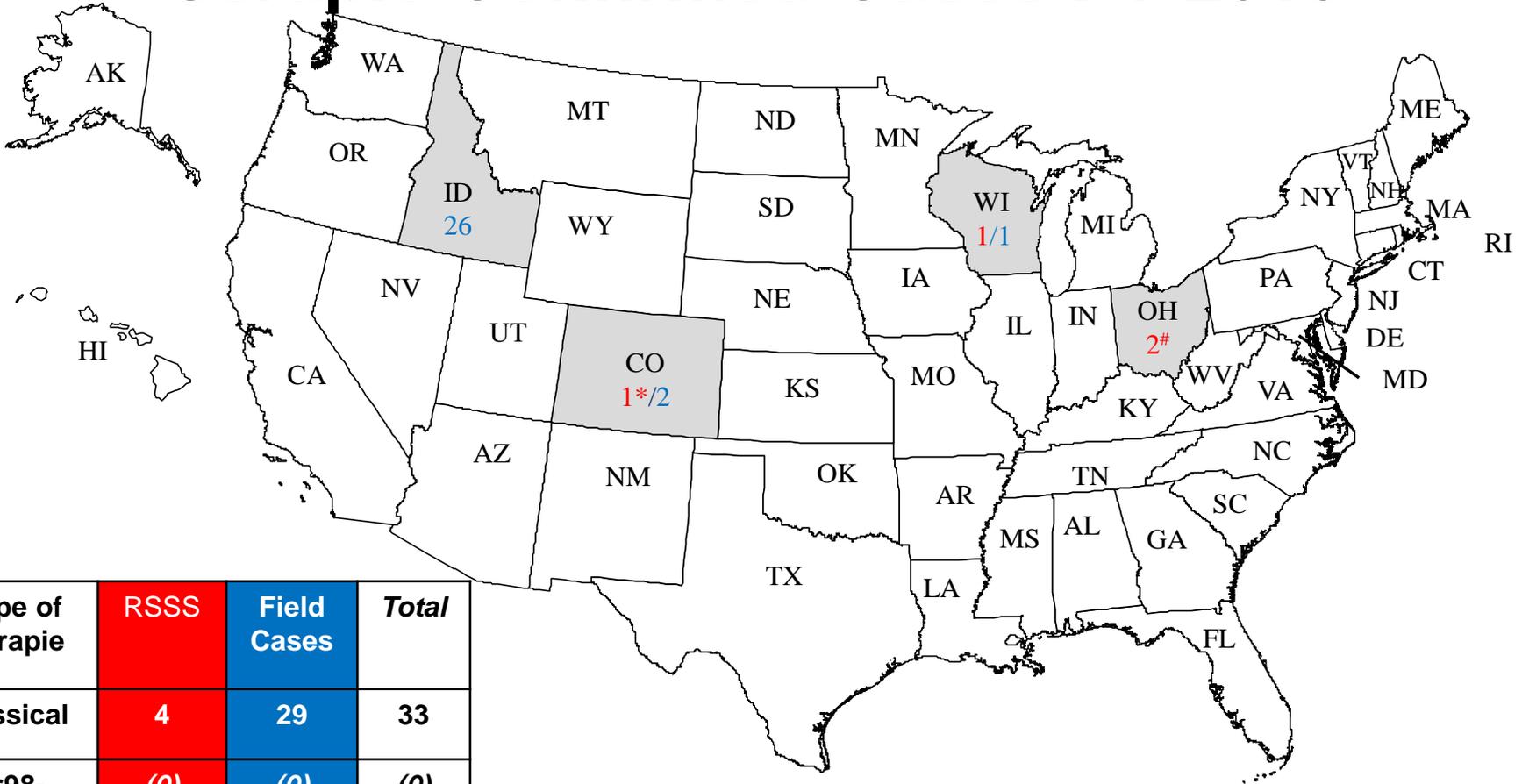
Percent of RSSS Samples that Tested Positive for Classical Scrapie by Face Color

Fiscal Years 2008 – 2015





Scrapie Confirmed Cases FY 2015



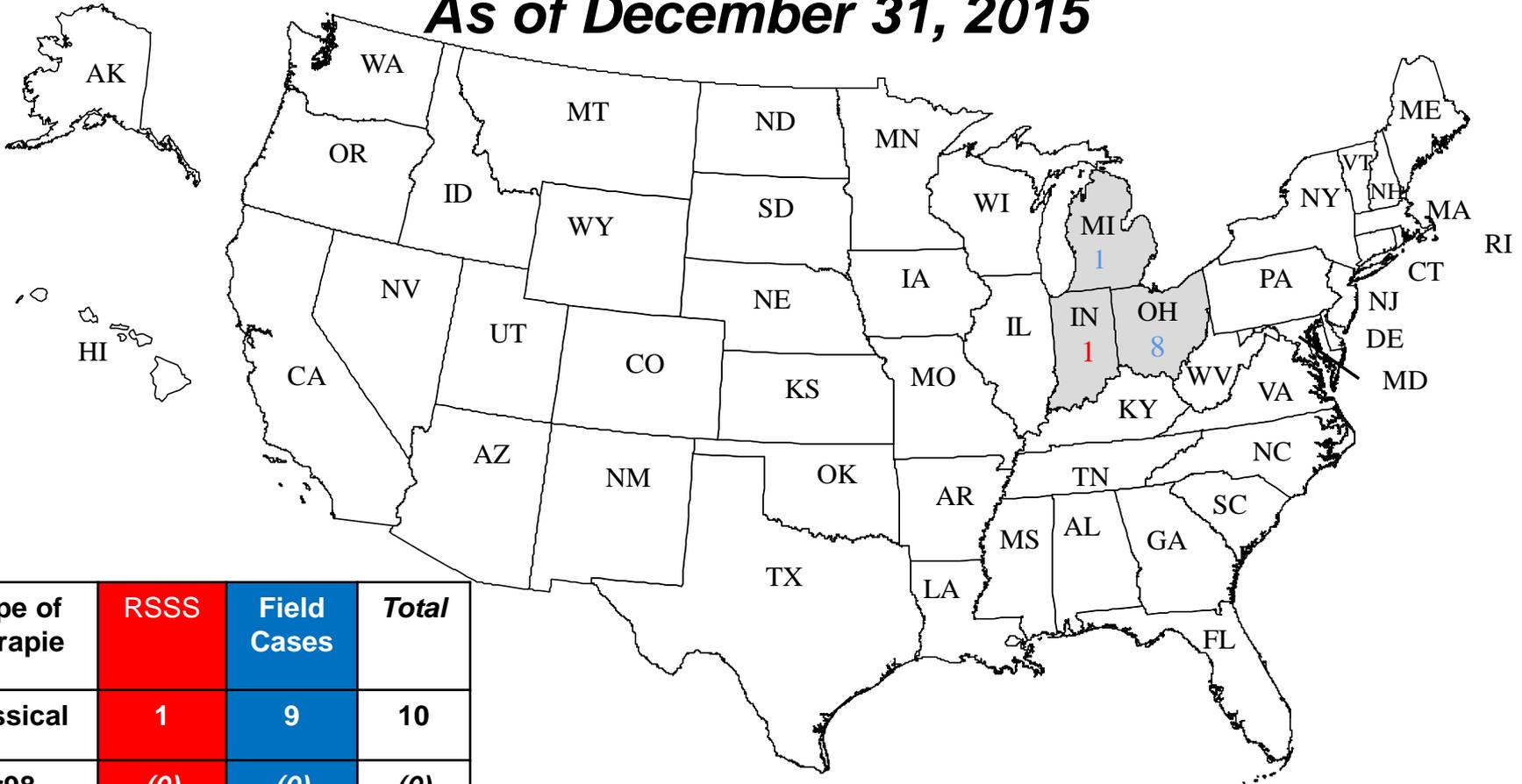
Type of Scrapie	RSSS	Field Cases	Total
Classical	4	29	33
(Nor98-like)	(0)	(0)	(0)
Total	4	29	33

* First RSSS positive goat identified in November 2014. # RSSS positive case with IN serial tag was traced to OH.



Scrapie Confirmed Cases FY 2016

As of December 31, 2015

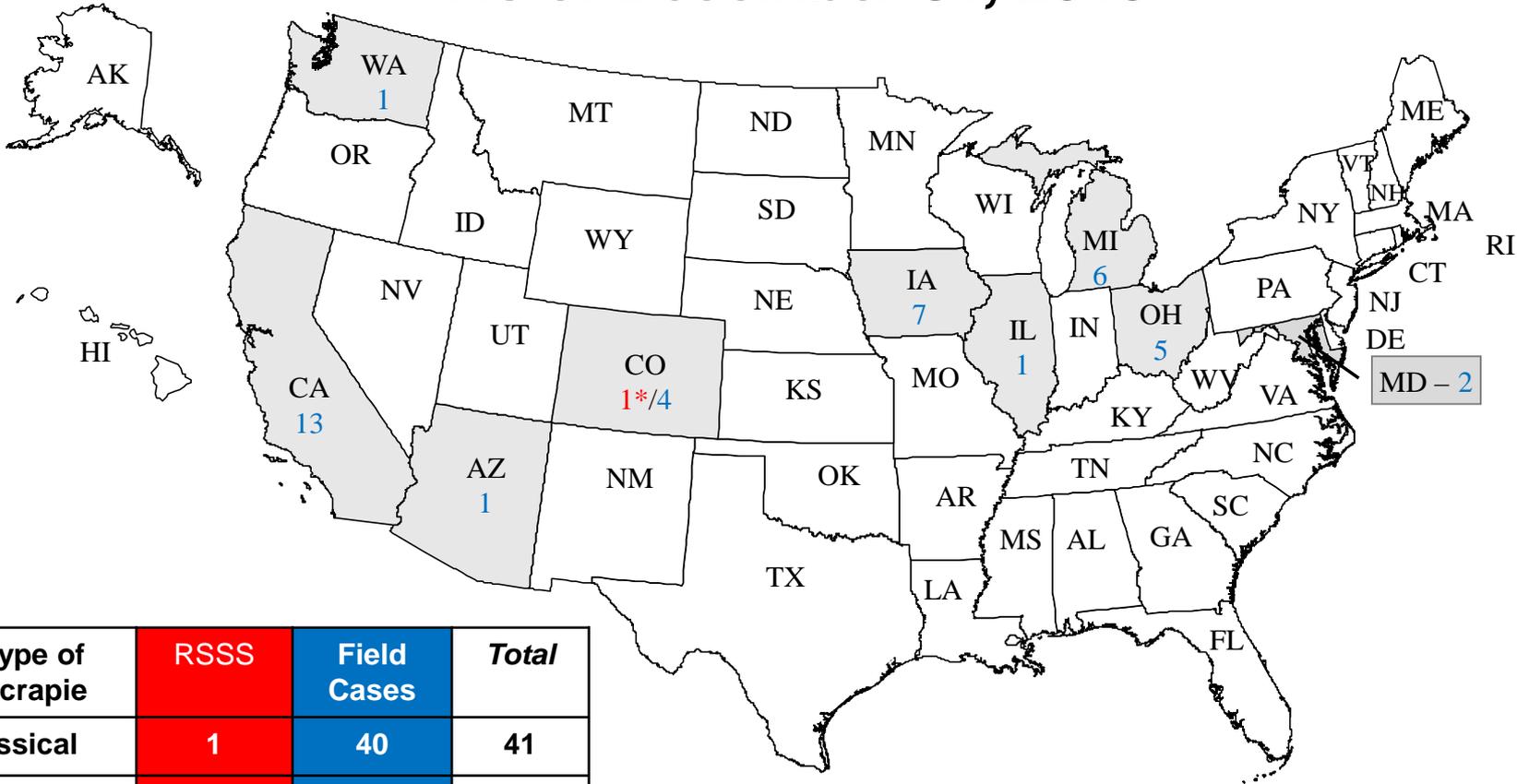


Type of Scrapie	RSSS	Field Cases	Total
Classical	1	9	10
(Nor98-like)	(0)	(0)	(0)
Total	1	9	10



Scrapie Cases in Goats FY 2002 – FY 2016

As of December 31, 2015



Type of Scrapie	RSSS	Field Cases	Total
Classical	1	40	41
(Nor98-like)	(0)	(0)	(0)
Total	1	40	41

* First RSSS positive goat identified in November 2014.



Scrapie Surveillance Activities

- **Slaughter surveillance**
 - **Regulatory Scrapie Slaughter Surveillance (RSSS)**

- **On-Farm surveillance**
 - **Investigations of clinical suspects**
 - **Trace investigations of exposed and potentially exposed animals**
 - **Routine farm surveillance**
 - **Voluntary Scrapie Free Flock Certification Program (SFCP)**

- **Laboratory surveillance**
 - **Public health laboratories – rabies negative animals**
 - **Veterinary diagnostic laboratories – necropsied animals**



Sheep Demographics

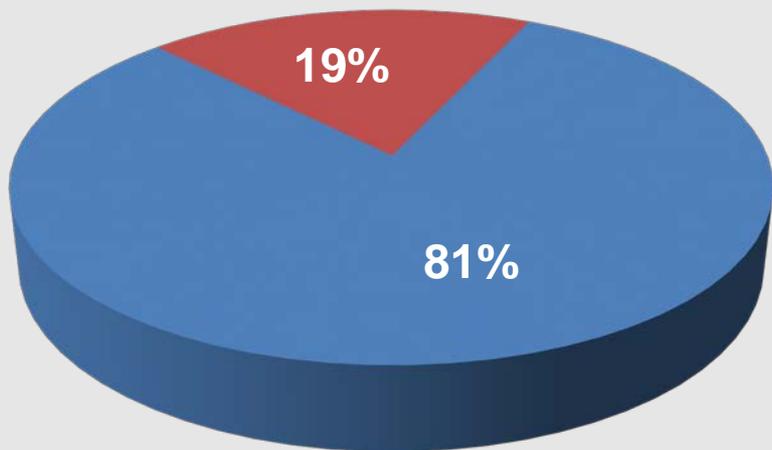
- 3.1 million breeding sheep >1 yr
- Culling rate ~15% or ~465,000 per year
- Death losses 220,000 per year
- Percent tested for scrapie FY 2015 4.9%

Goats Demographics

- 2.2 million breeding goats
- Culling rate ~16% or ~352,000 per year
- Death losses 158,400
- Percent tested for scrapie FY 2015 1.4%

RSSS and On-Farm Surveillance Testing by Species - FY 2016*

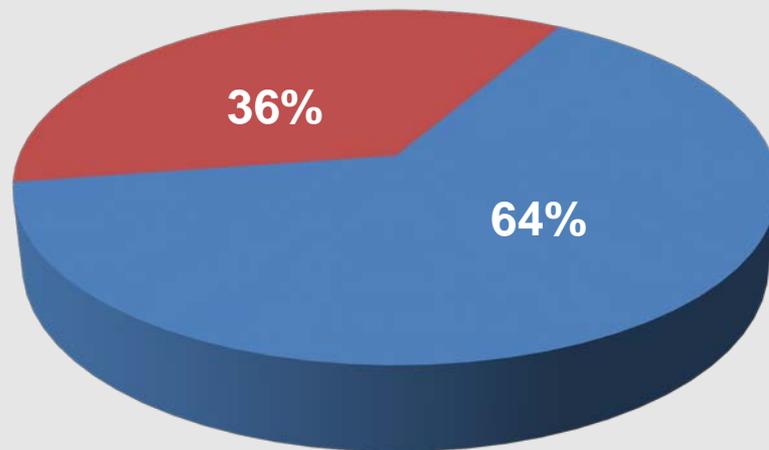
RSSS



■ Sheep ■ Goats

8,384 tested

On-Farm



■ Sheep ■ Goats

347 tested

Total tested 8,731

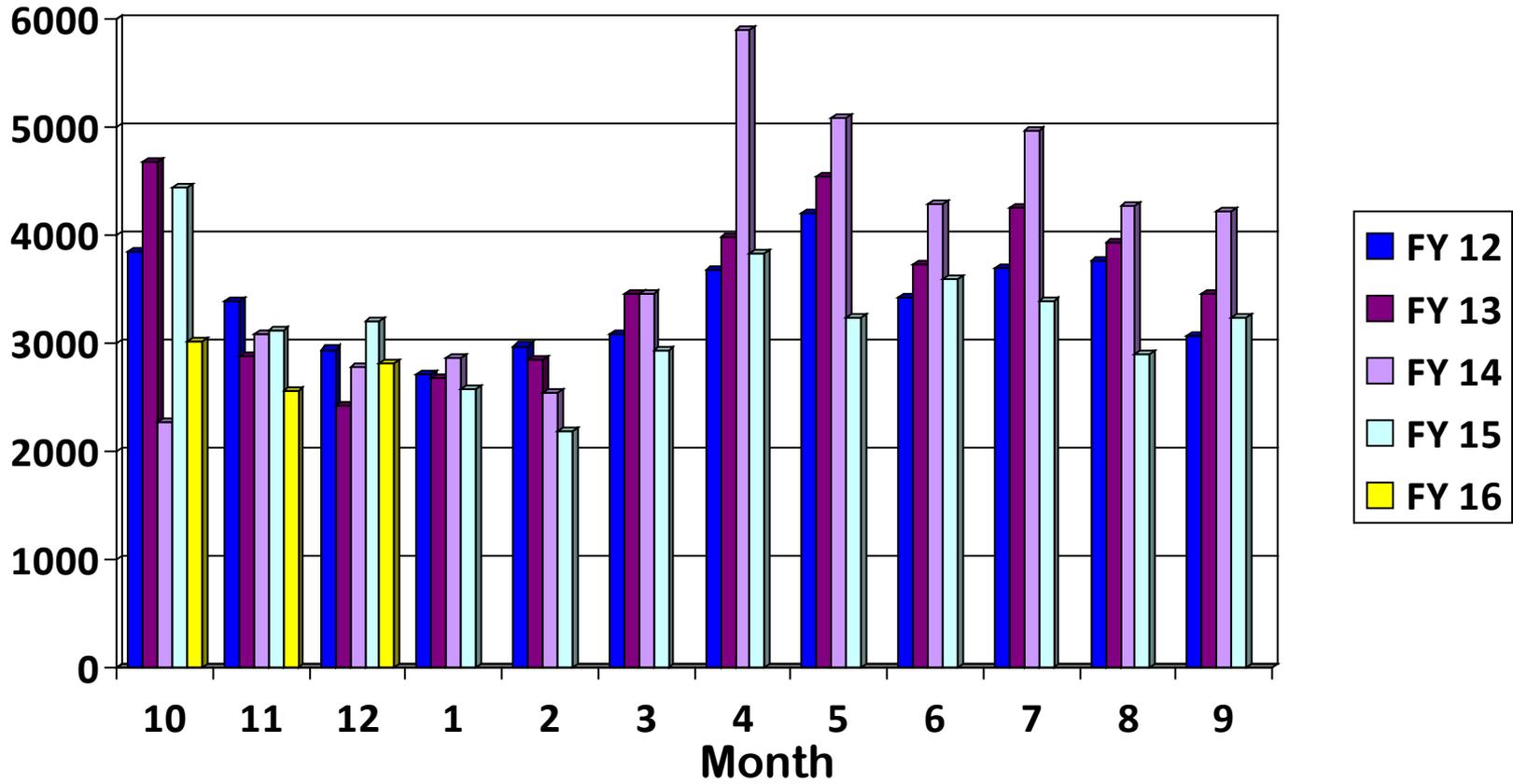
* As of December 31, 2015



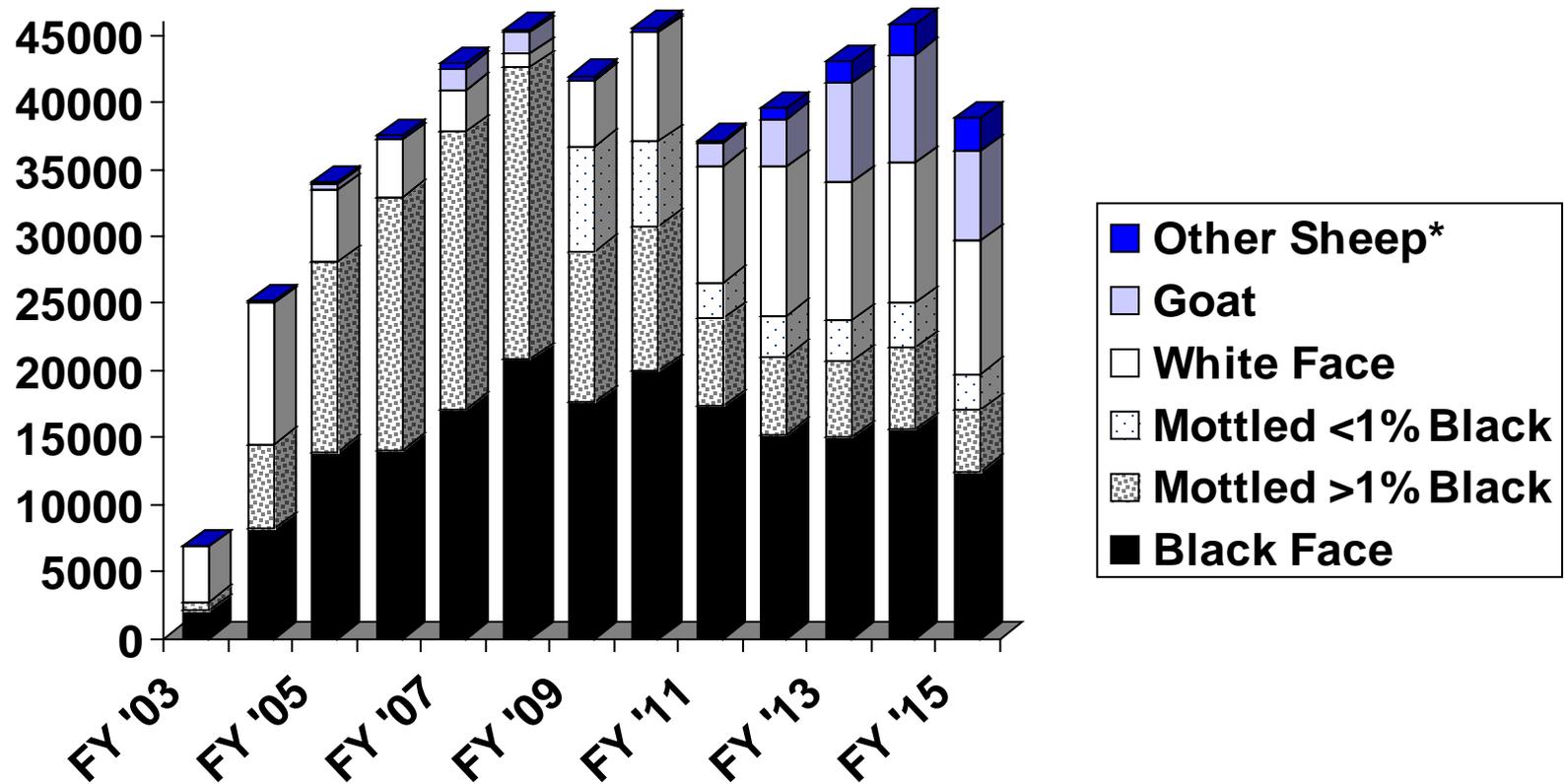
Slaughter Surveillance Samples Collected by Month

Fiscal Years 2012 to 2016

As of December 31, 2015

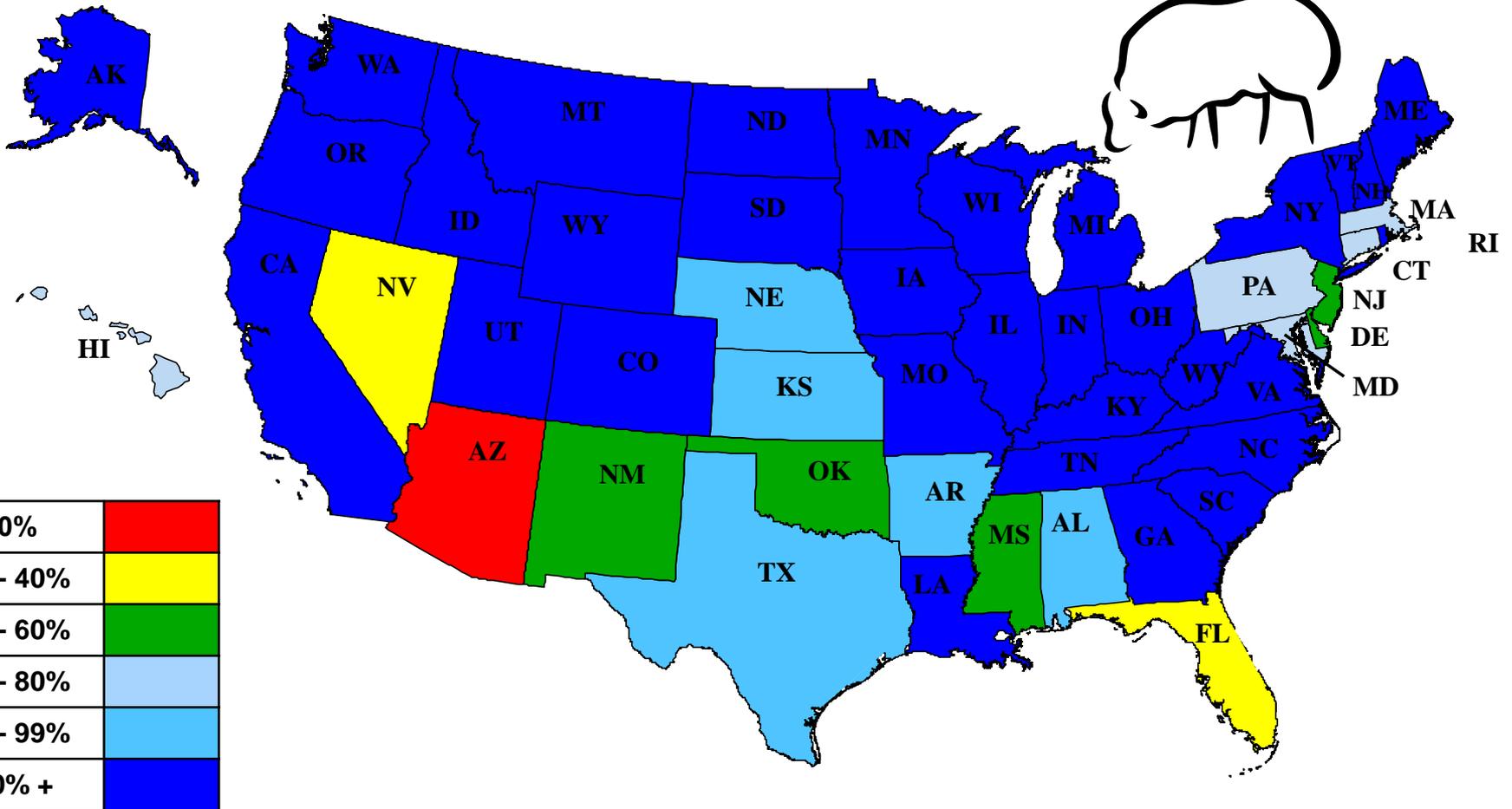


Surveillance Samples Collected at Slaughter FY 2003 – 2015



* Includes gray, red, and unknown face color; and hair sheep. Chart includes animals collected for RSSS & CSPA. % Black of mottled-faced sheep available since FY 2009

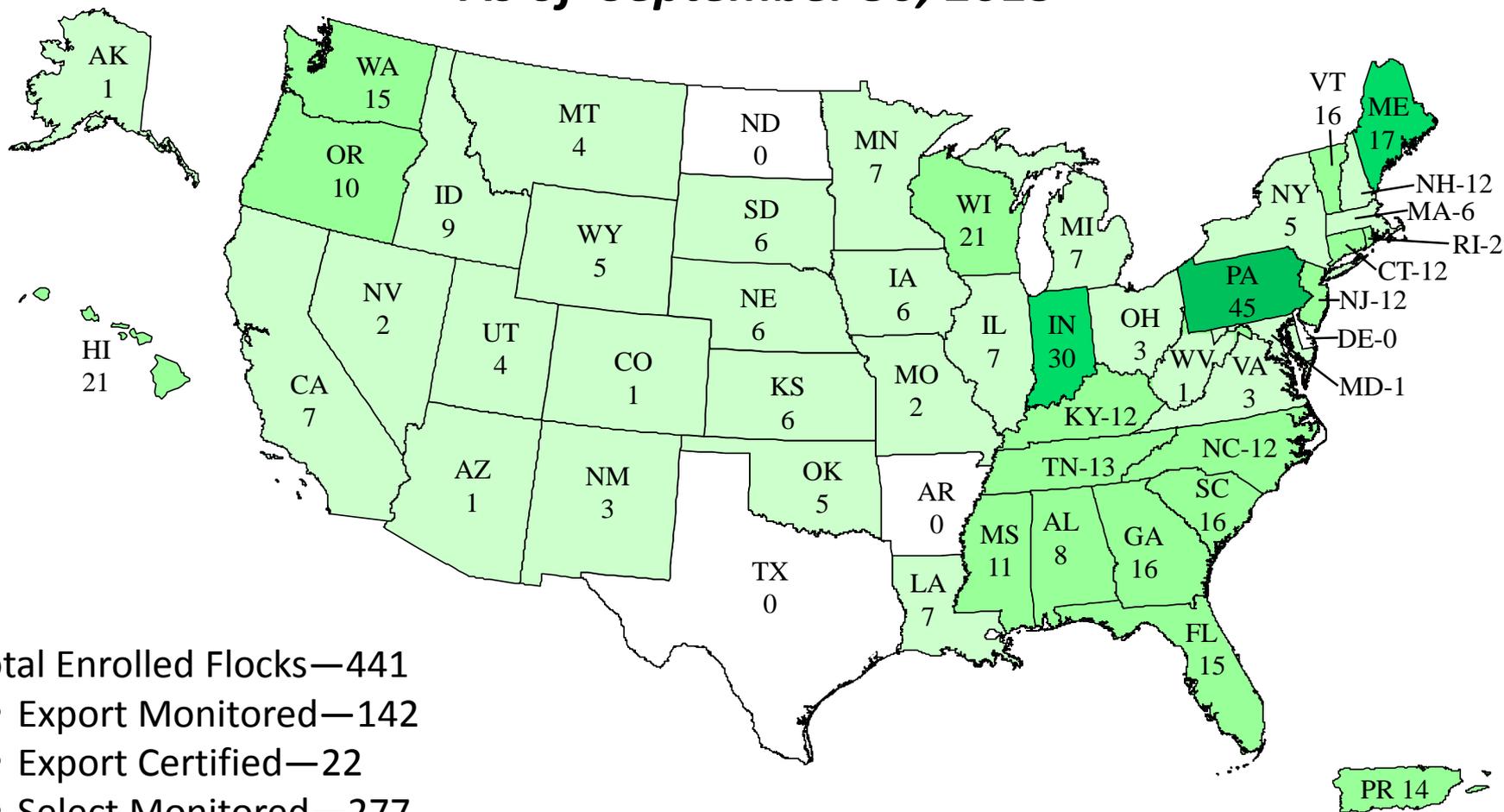
Percent of Sampling Minimum Achieved in FY 2015—RSSS and On-farm Surveillance—Sheep*



* As of September 30, 2015.

Scrapie Flock Certification Program: Participating Flocks

As of September 30, 2015



Total Enrolled Flocks—441

- Export Monitored—142
- Export Certified—22
- Select Monitored—277
(includes 14 in Puerto Rico)



Traceability One Key to Scrapie Surveillance Success

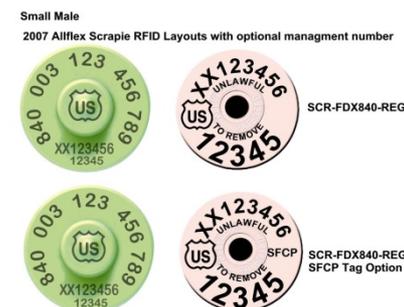
- **Sheep and Goat Identification Rules**

- Most sheep and many goats must be officially identified to move in inter- and intrastate commerce
- Adopted in 2001
- Updating rule to better align goat ID requirements with sheep requirements



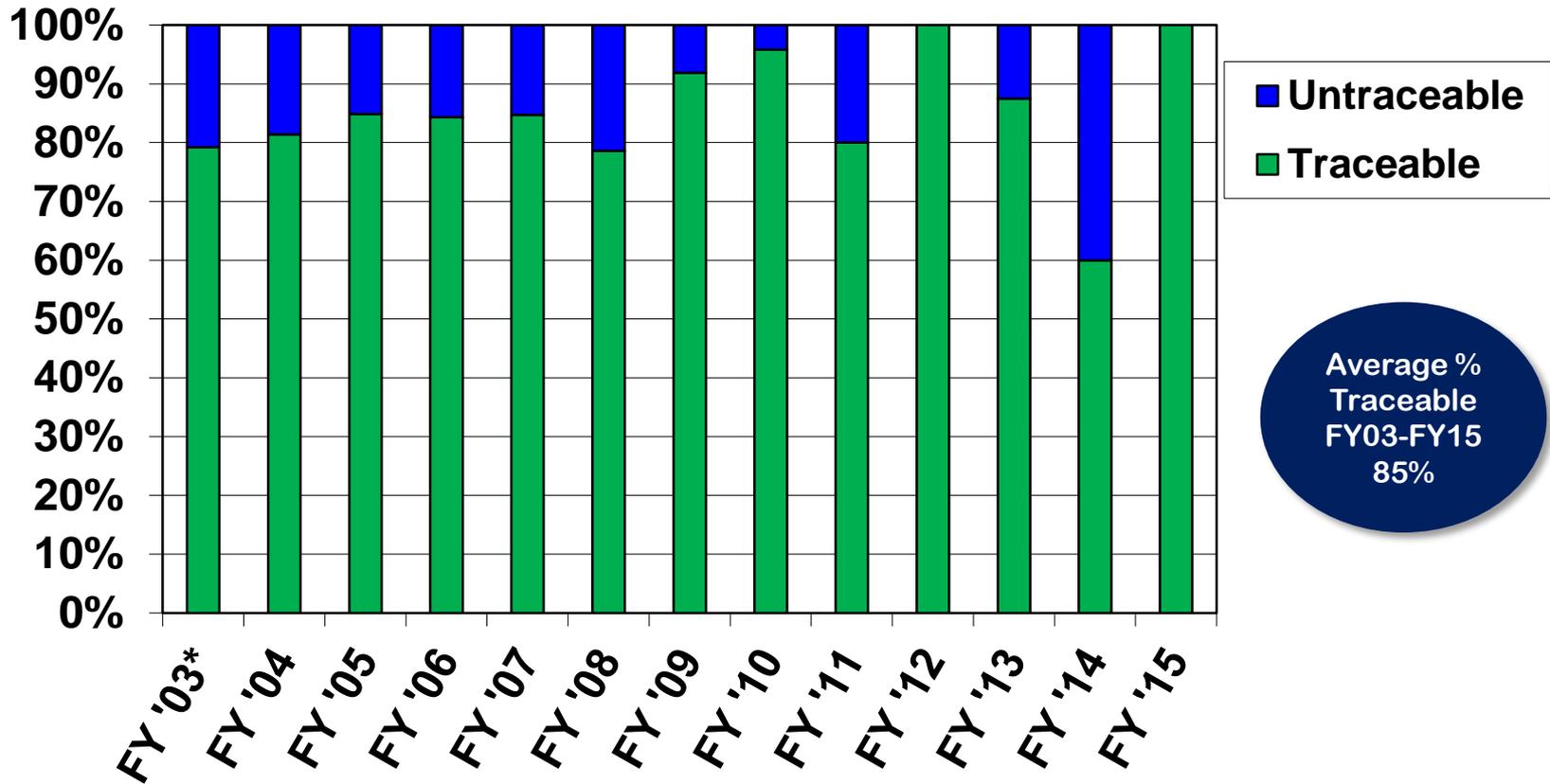
- **Encourage compliance by providing free official ear tags to sheep and goat producers**

- Over 95% sheep arrive at slaughter facilities with official ID
- Over 50% goats arrive at slaughter facilities with official ID



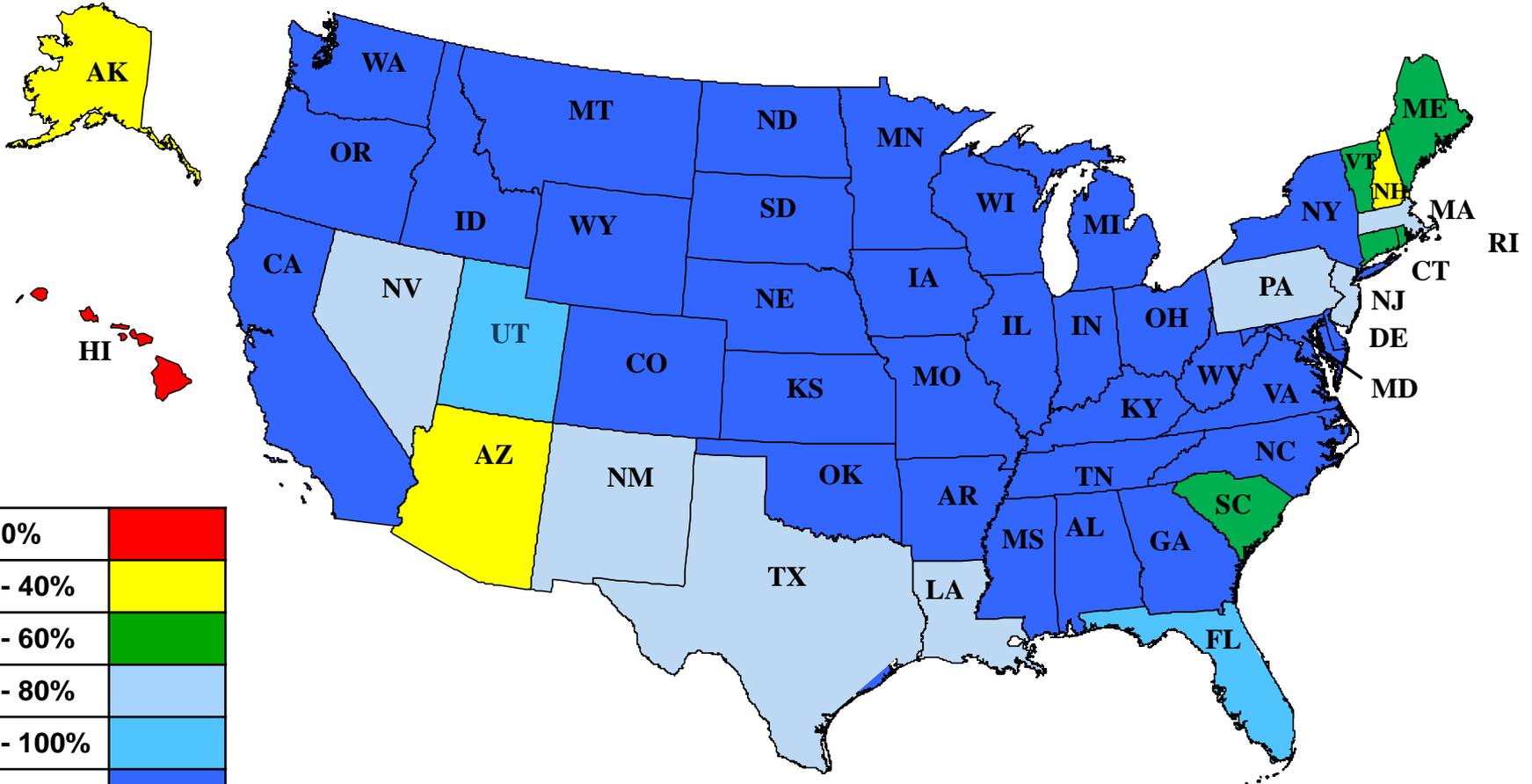
Investigations of RSSS Positive Animals

Fiscal Years 2003 - 2015*



* April – September, 2003

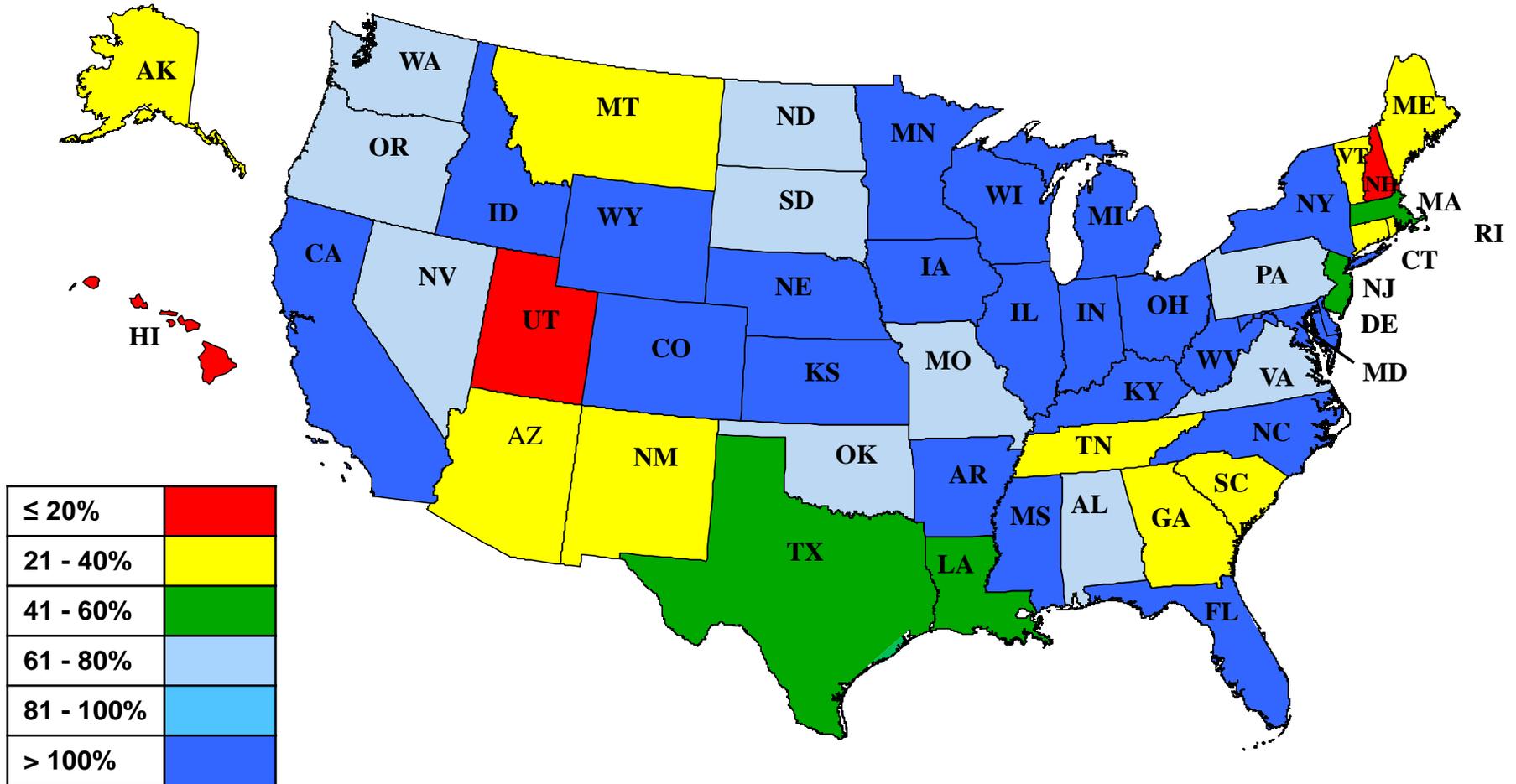
Percent of Sheep Flocks Reported by NASS (2012 Census Report) Assigned Flock Identification Numbers



≤ 20%	Red
21 - 40%	Yellow
41 - 60%	Green
61 - 80%	Light Blue
81 - 100%	Medium Blue
> 100%	Dark Blue



Percent of Goat Herds Reported by NASS (2012 Census Report) Assigned Flock Identification Numbers



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United States Department of Agriculture



Diane Sutton, DVM
National Scrapie Program
Coordinator
Sheep & Goat Health Team Leader
USDA, APHIS, VS, SPRS

301-851-3509

Diane.L.Sutton@APHIS.USDA.gov

