



United States Department of Agriculture



# ***NVSL SALMONELLA, MYCOPLASMA AND PASTEURELLA MULTOCIDA UPDATE***

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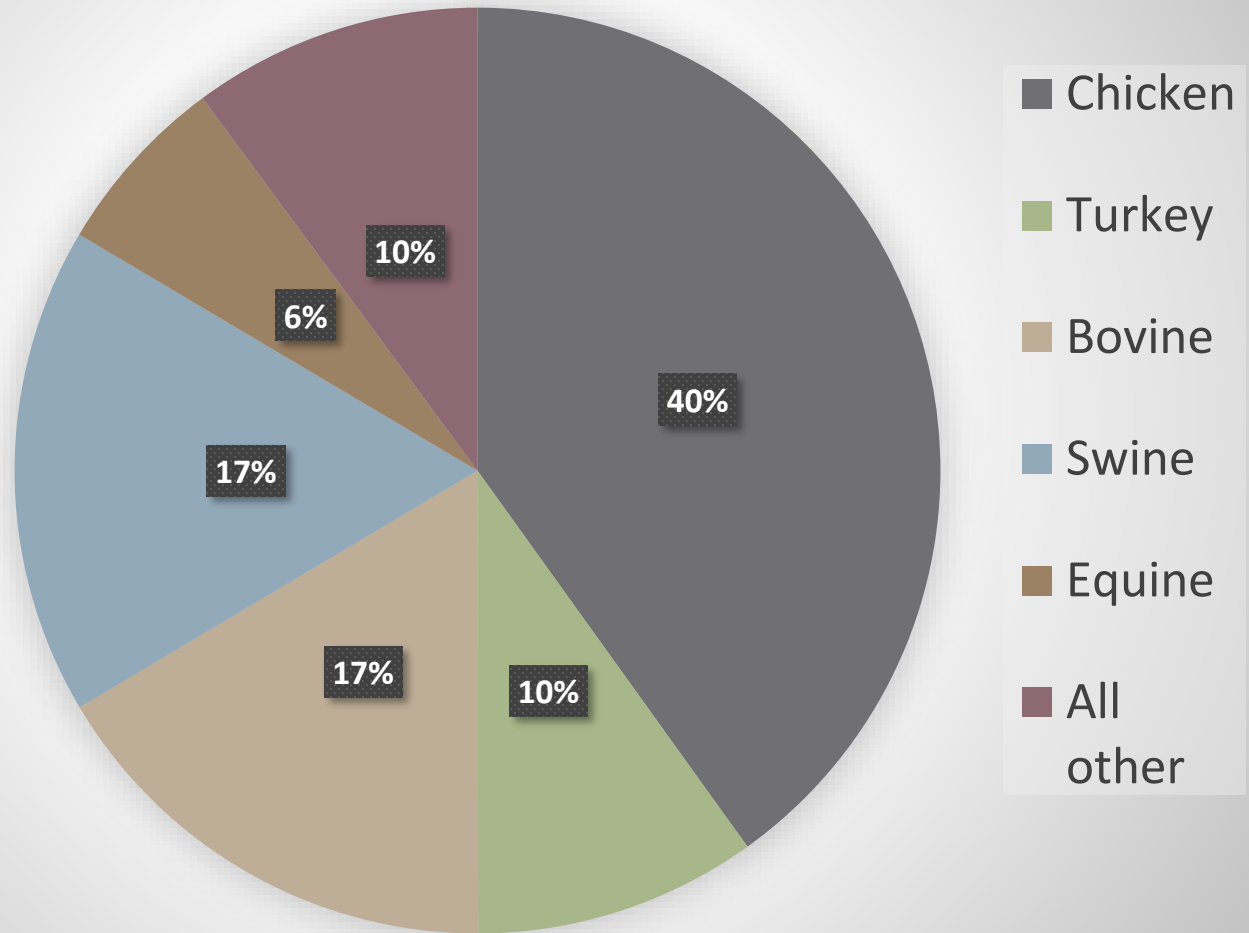
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# *Salmonella* Serotyping

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- 13,103 isolates submitted in 2017
  - 5,479 clinical isolates
  - 5,489 non-clinical isolates
  - 2,135 research and other isolates
- 4,397 isolates from chicken
- 1,084 isolates from turkey

# Submissions by Species



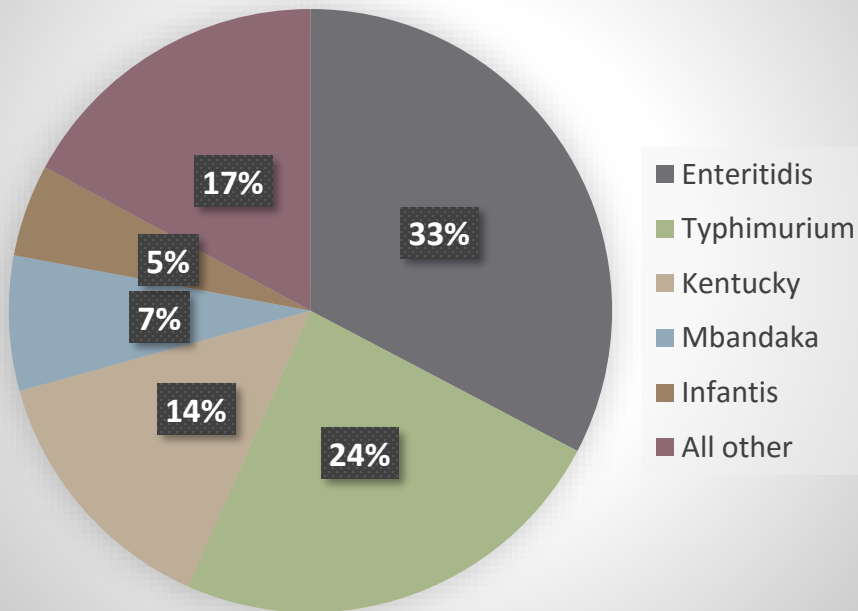
# Most Common Serotypes – Chicken 2017

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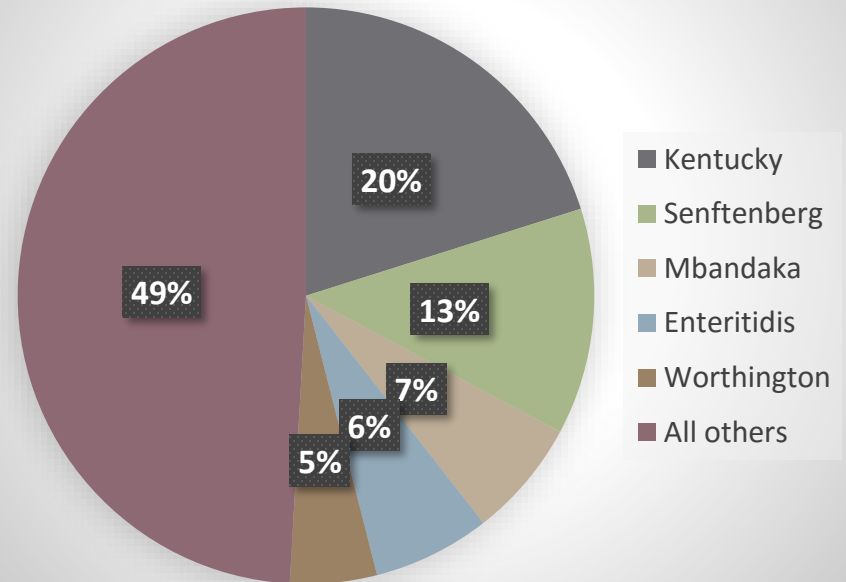
Rank	Clinical	Non-Clinical
1	Enteritidis	Kentucky
2	Typhimurium	Senftenberg
3	Kentucky	Mbandaka
4	Mbandaka	Enteritidis
5	Infantis	Worthington

# Chicken 2017

## Clinical



## Non-Clinical



## *Salmonella* Group D

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- Chicken submissions - all roles
- 435 Group D isolates
- 358 (88%) isolates were SE
- 77 (12%) Group D serotypes other than SE
  - *S. Berta*, *S. Javiana*, *S. Ouakam*

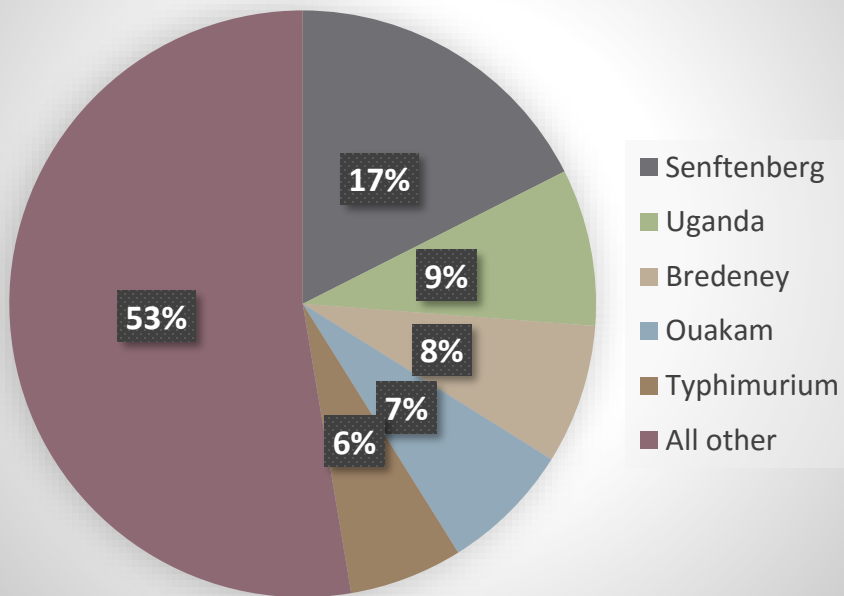
# Most Common Serotypes – Turkeys 2017

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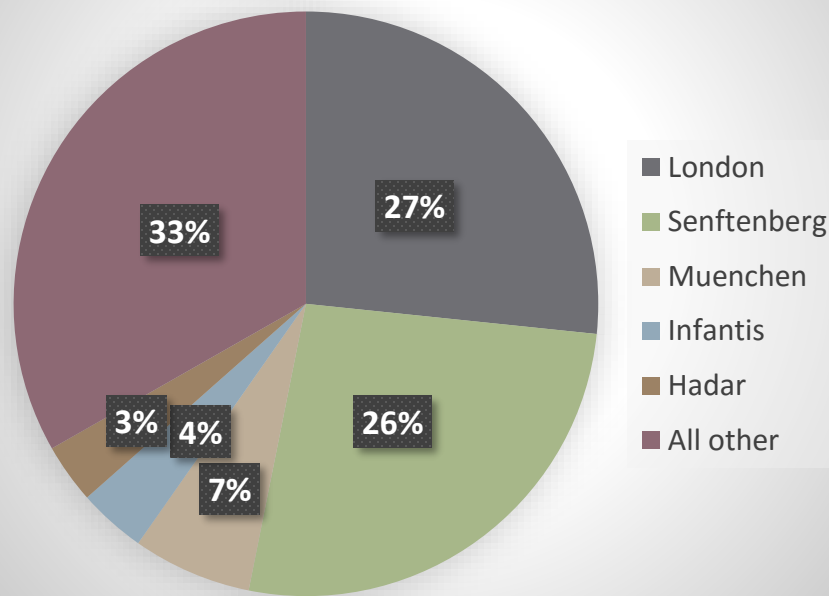
Rank	Clinical	Non-Clinical
1	Senftenberg	London
2	Uganda	Senftenberg
3	Bredeney	Muenchen
4	Ouakam	Infantis
5	Typhimurium	Hadar

# Turkey 2017

## Clinical



## Non-Clinical





# *Salmonella Pullorum*

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- 808 *Salmonella Pullorum* serological tests
- 2,255 mL *Salmonella Pullorum* tube test antigen provided
- 1,275 mL *Salmonella Pullorum* stained microtiter antigen provided
- 384 mL of control antisera provided

## *Pasteurella multocida*

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- 186 isolates for Gel-Diffusion Precipitin Test
- 134 isolates for DNA fingerprinting
- 45 mL of antisera provided
- 3 reference isolates provided

## *Avian Mycoplasma*

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- 359 sera for HI testing
- 615 mL of HA antigen supplied
  - 290 mL MG
  - 90 mL MM
  - 235 mL MS
- 1,136 mL of control antisera supplied
  - 376 mL MG
  - 58 mL MM
  - 362 mL MS
  - 340 mL Negative control



# NPIP Group D *Salmonella* Proficiency Test

	2013	2014	2015	2016	2017
Participants	61	0	94	98	101
Mean Score	94%	98%	98%	97%	95%
Score Range	100-68%	100-80%	100-68%	100-80%	100-75%
Below Passing	4	0	1	0	1

# VS Electronic Forms

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<https://ncahappspub.aphis.usda.gov/NCAHPortal/auth/salmonellaSampleSubmission/create>

- NCAH Portal used for electronic sample submissions
- eAuthentication account made prior to access
- Submitter information will auto populate after receipt of samples
- Additional email & fax numbers are easily added
- Easily clone past submissions with similar data
- Reports remain in the system for one year

## Contact Information

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### *Salmonella* serotyping

- Brenda.R.Morningstar@usda.gov

### *Pasteurella multocida*

- Karen.J.LeCount@usda.gov

### Avian *Mycoplasma*

- Kari.L.Toot@usda.gov



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