



United States Department of Agriculture



NVSL *SALMONELLA* UPDATE

BRENDA MORNINGSTAR-SHAW
MICROBIOLOGIST
U.S. DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE
VETERINARY SERVICES
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Serotyping Summary

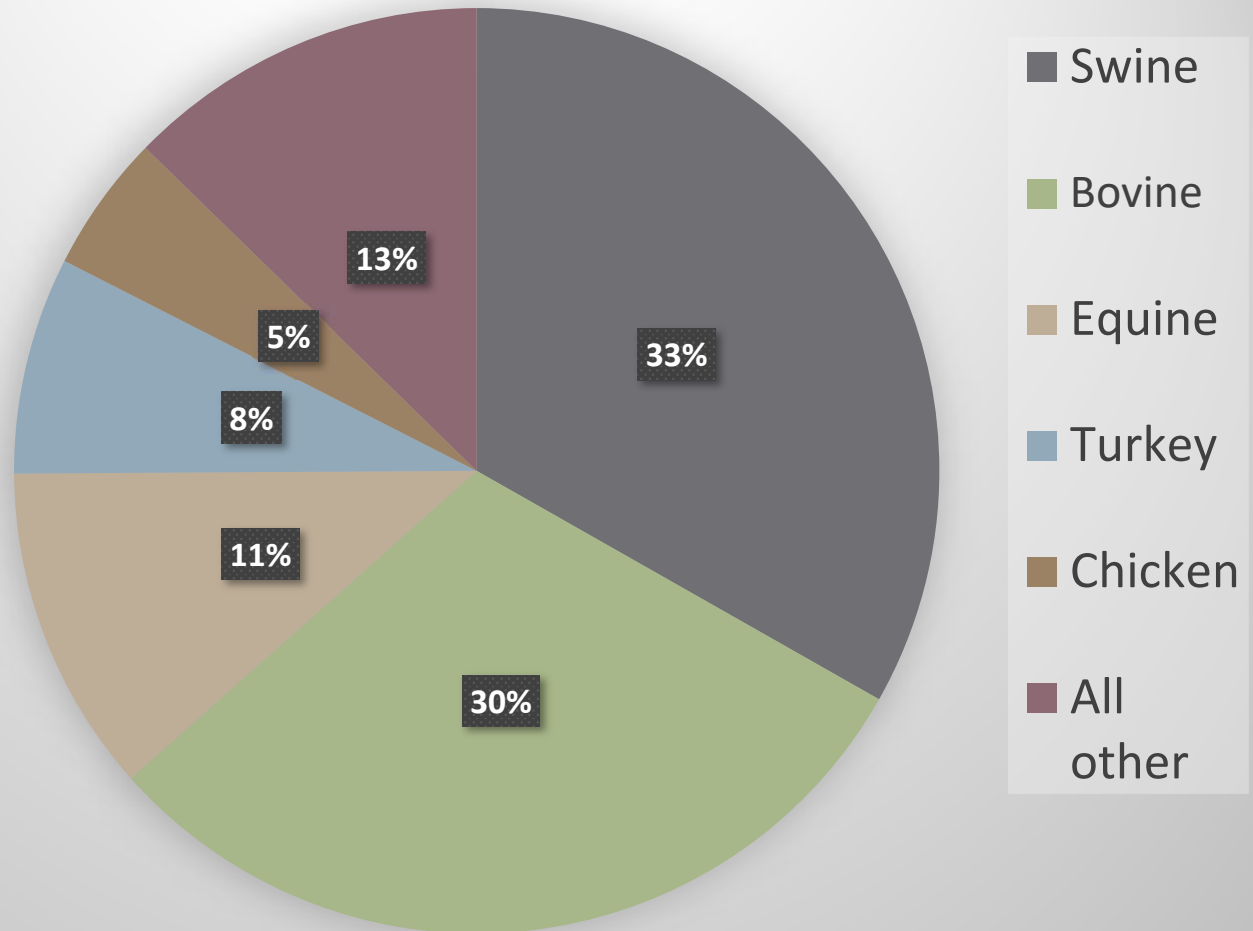
Year	Number of Isolates Submitted	Number of Clinical Isolates	Number of Non-Clinical Isolates	Research and Other Isolates	Number of Serotypes
2010	14,164	4,700	8,473	1,801	335
2011	15,977	6,589	6,810	954	289
2012	14,750	4,794	7,742	2,578	300
2013	15,209	5,516	6,753	2,214	304
2014	15,353	4,897	6,687	3,769	289
2015	13,880	4,976	6,396	2,508	289
2016	13,295	5,258	5,727	2,310	254
2017	13,103	5,479	5,489	2,310	268
Total	115,731	42,209	54,077	18,444	



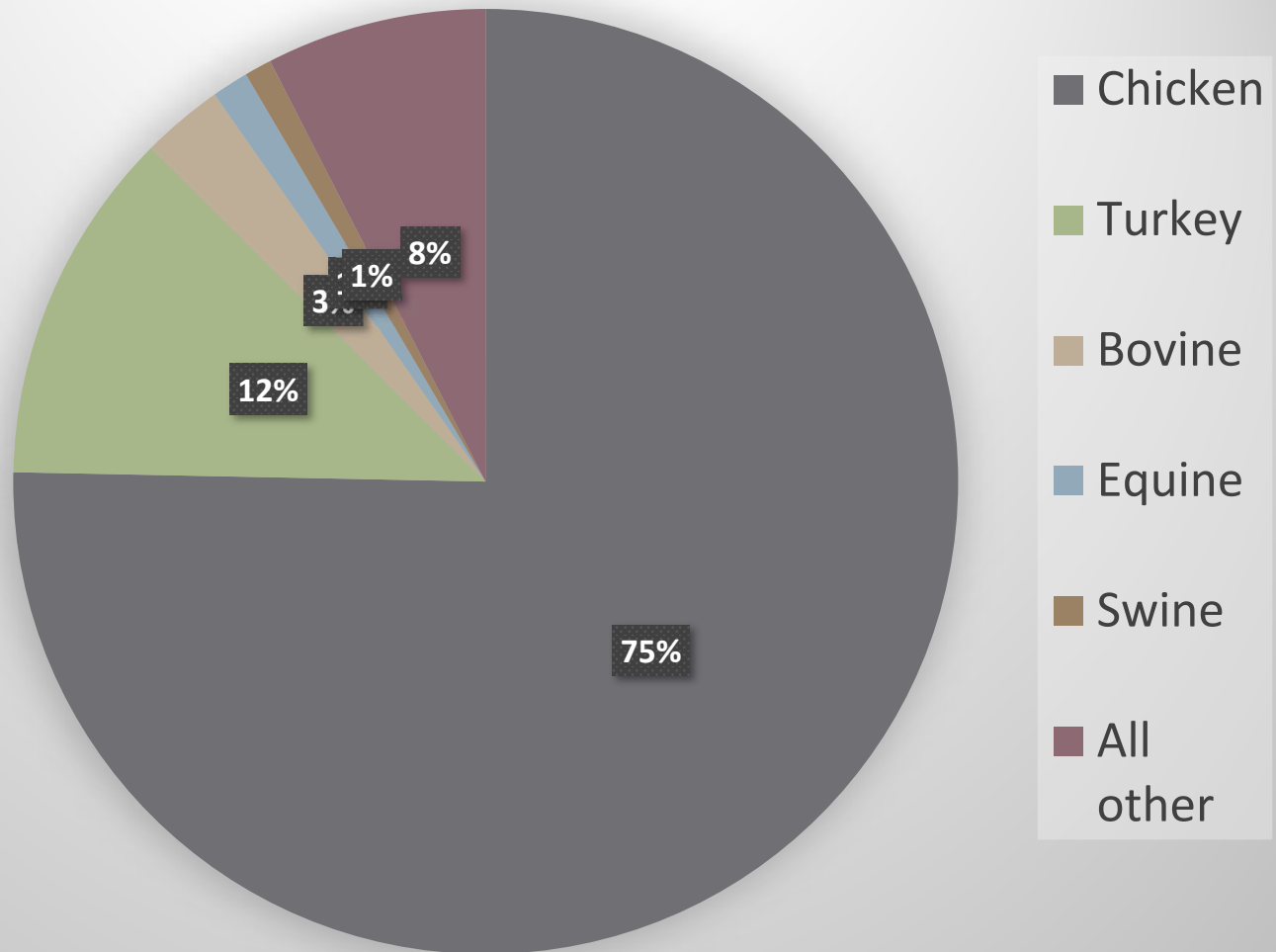
Source of Submissions

Source	Clinical	Non-Clinical
Bovine	1655	153
Chicken	263	4,134
Equine	629	69
Swine	1820	51
Turkey	416	668
All other	696	414
Total	5,479	5,489

Clinical Submissions by Species



Non-Clinical Submissions by Species





Most Common Serotypes- All Sources 2017

Rank	Clinical	Non-Clinical
1	Typhimurium	Kentucky
2	4,[5],12:i:-	Senftenberg
3	Dublin	Mbandaka
4	Cerro	Enteritidis
5	Montevideo	Worthington
6	Derby	Typhimurium
7	Infantis	Infantis
8	Enteritidis	London
9	Newport	Montevideo
10	Agona	Muenchen



Most Common Serotypes – Chicken 2017

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



Most Common Serotypes – Turkeys 2017

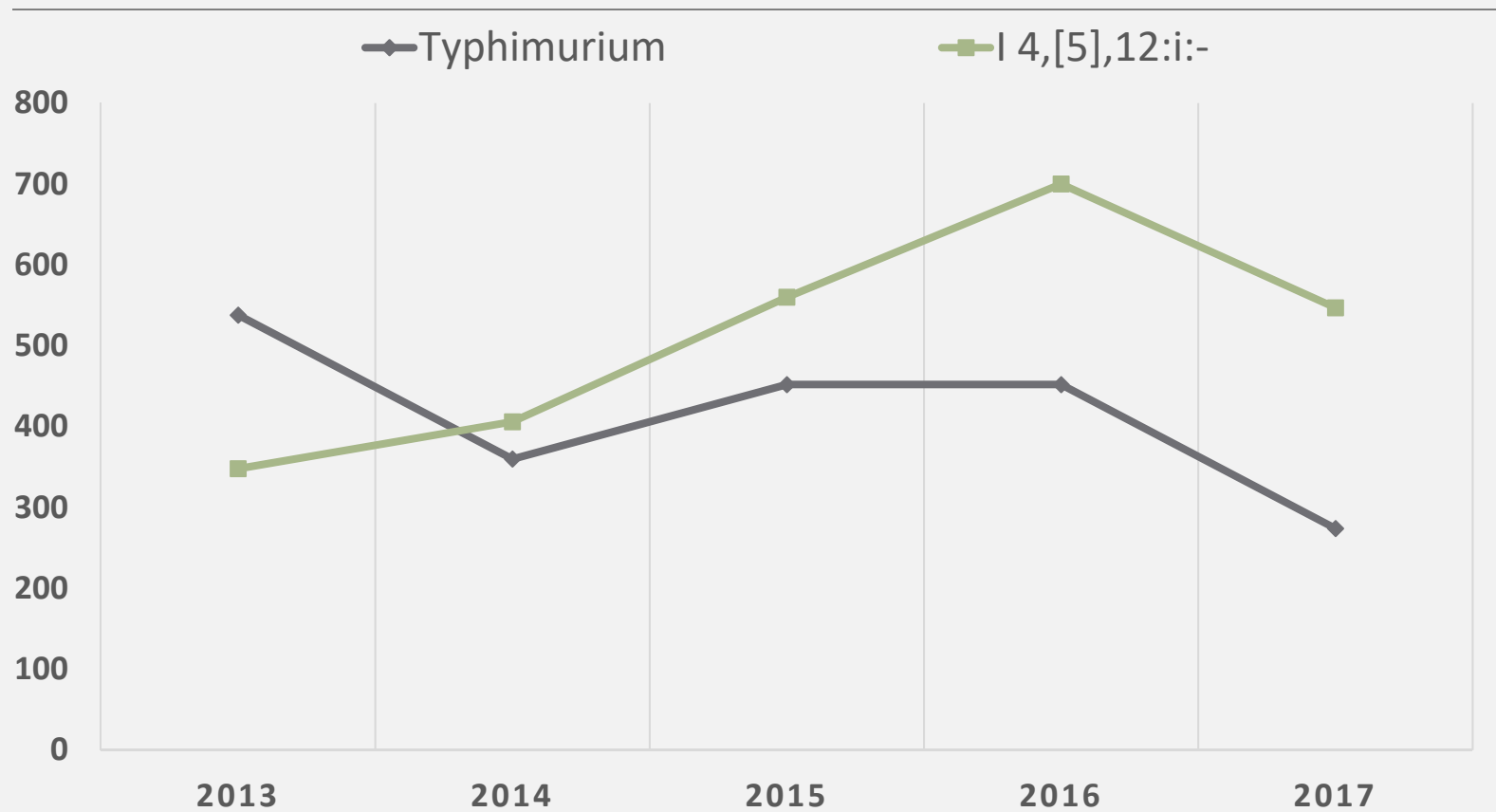
Rank	Clinical	Non-Clinical
1	Senftenberg	London
2	Uganda	Senftenberg
3	Bredeney	Muenchen
4	Ouakam	Infantis
5	Typhimurium	Hadar



Most Common Serotypes – Swine 2017

Rank	Clinical	Non-Clinical
1	14,[5],12:i:-	14,[5],12:i:-
2	Typhimurium	Infantis
3	Derby	Derby
4	Infantis	Typhimurium
5	Agona	

5 Year Trend Swine





Most Common Serotypes – Bovine 2017

Rank	Clinical	Non-Clinical
1	Dublin	Cerro
2	Cerro	Montevideo
3	Montevideo	Typhimurium
4	Typhimurium	Dublin
5	I 4,[5],12:i:-	Newport



Most Common Serotypes – Equine 2017

Rank	Clinical	Non-Clinical
1	Typhimurium	Mbandaka
2	Newport	Typhimurium
3	Litchfield	Newport
4	Anatum/Muenster	Saintpaul
5	Montevideo	



NPIP Group D *Salmonella* Proficiency Test

	2013	2014	2015	2016	2017
Participants	61	80	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

<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



Salmonella Serotyping

- Brenda Morningstar-Shaw
- Tonya Mackie
- Dana Barker
- Andrew Ludwig
- Edward Palmer
- Brenda Wyckoff



Brenda Morningstar-Shaw

Microbiologist

U.S. Department of Agriculture

Animal and Plant Health Inspection Service

Veterinary Services

515-337-7962

Brenda.R.Morningstar@usda.gov