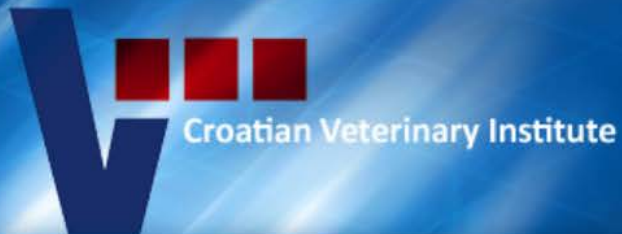

Activities of the NRLs – *Salmonella* in Croatia

EURL-*Salmonella* meeting 2024

Leiden, Netherlands

Biljana Ječmenica, mag. oecol. et prot. nat.
Croatian Veterinary Institute
Poultry Center, Laboratory for bacteriology

<http://www.veinst.hr/en/>



Croatian Veterinary Institute



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Croatian Veterinary Institute



EURL-*Salmonella*

1. NRL – Salmonella Poultry

Croatian Veterinary Institute Poultry Centre, Laboratory for Bacteriology

2. NRL – Salmonella Mammals

Croatian Veterinary Institute, Laboratory for General Bacteriology and Mycology

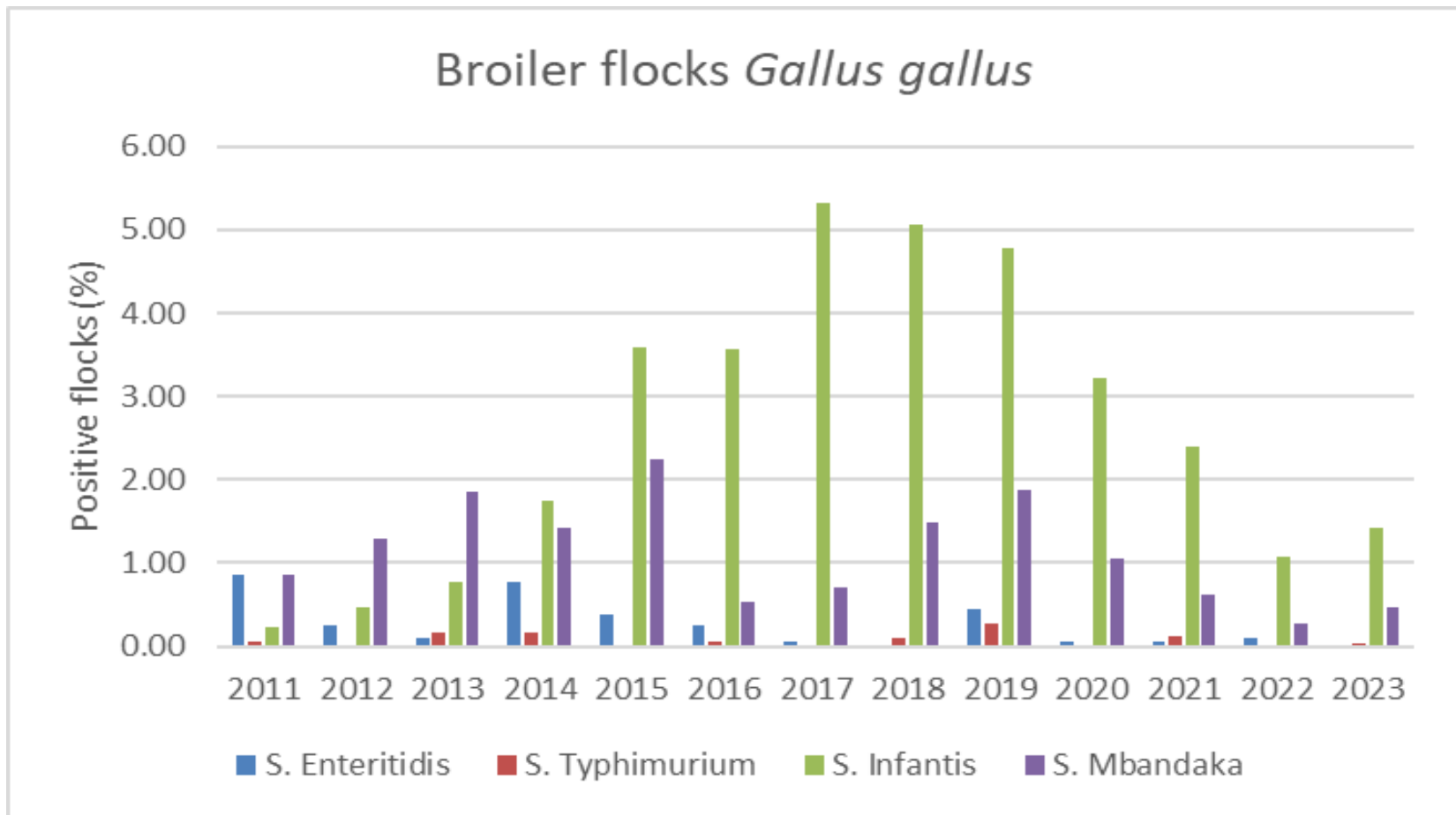
3. NRL – Salmonella Food

Croatian Veterinary Institute, Dept. for Vet. Public Health, Laboratory for Food Microbiology

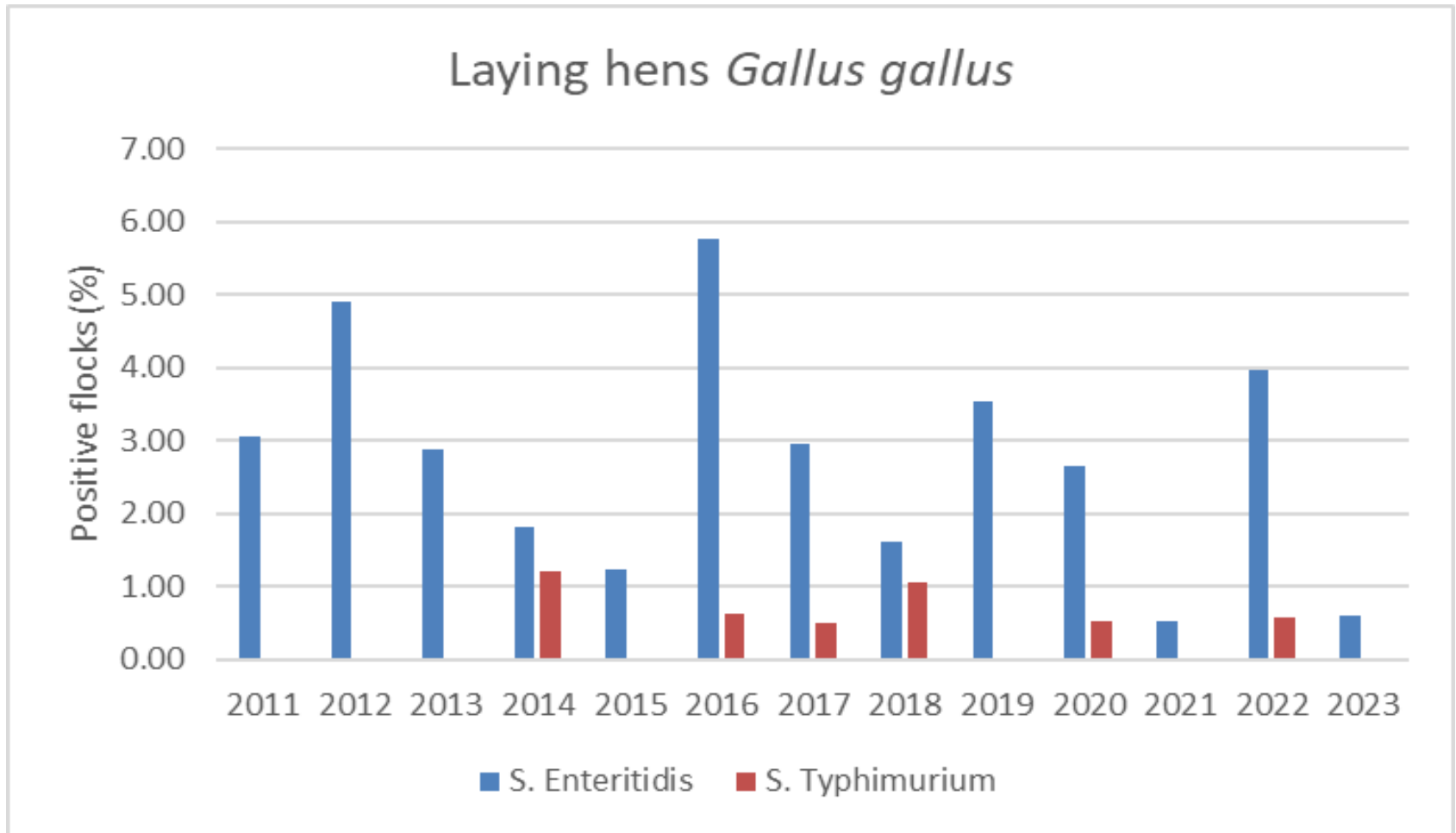
4. NRL – Salmonella Bivalve Molluscs

Croatian Veterinary Institute, Branch – SPLIT, Laboratory for Food and Feed Microbiology

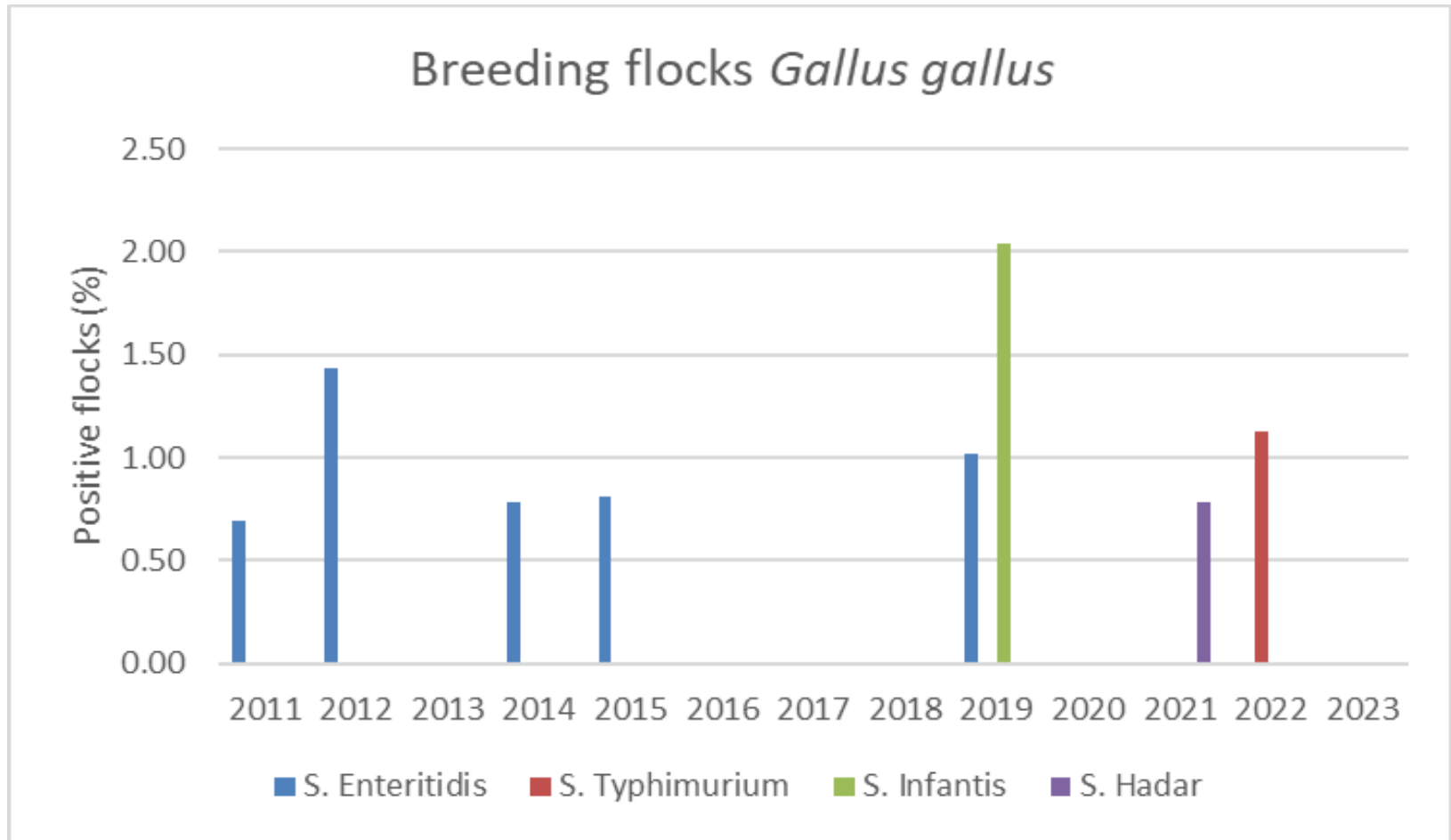
NRL – *Salmonella* Poultry



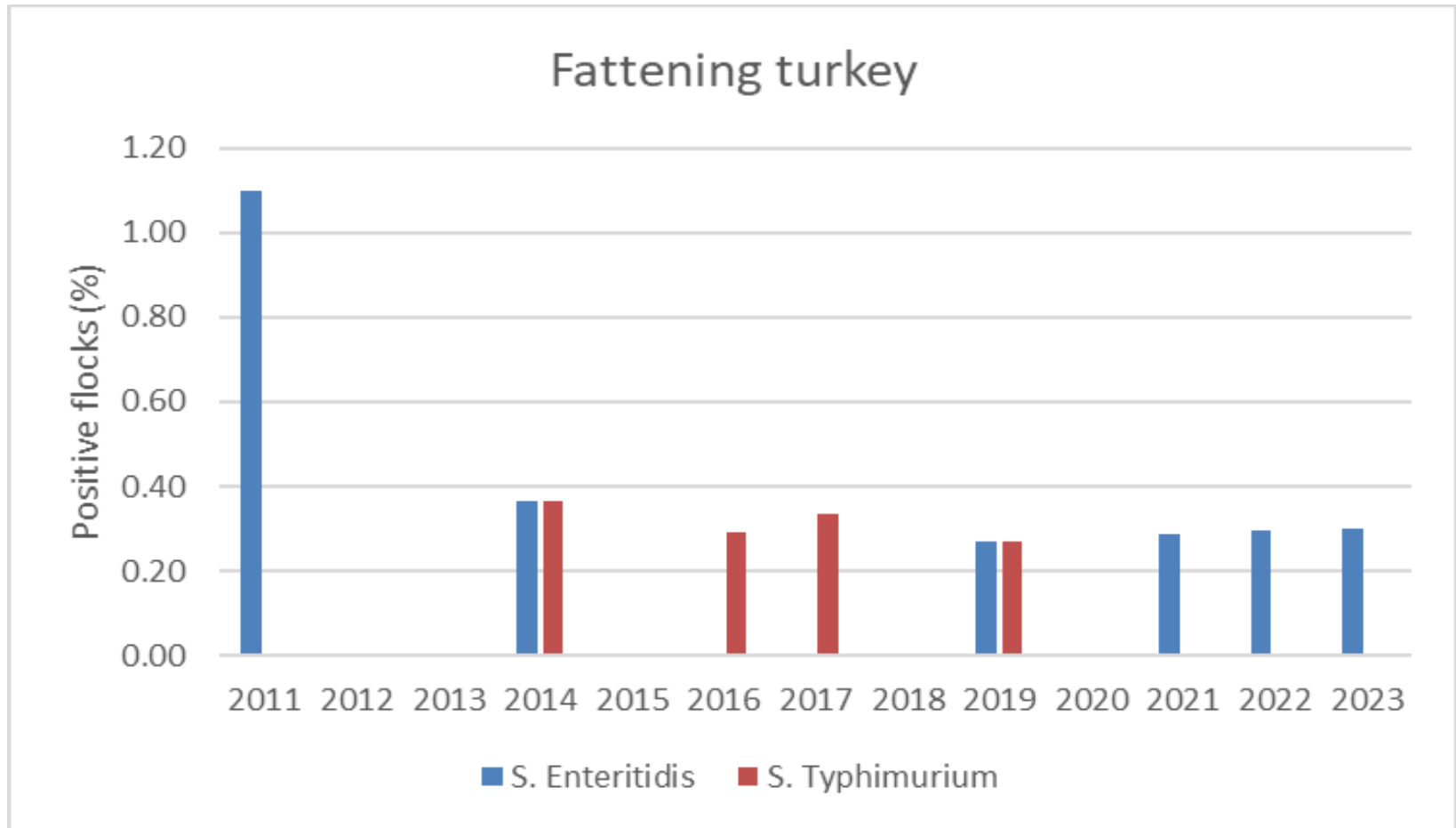
NRL – *Salmonella* Poultry



NRL – *Salmonella* Poultry

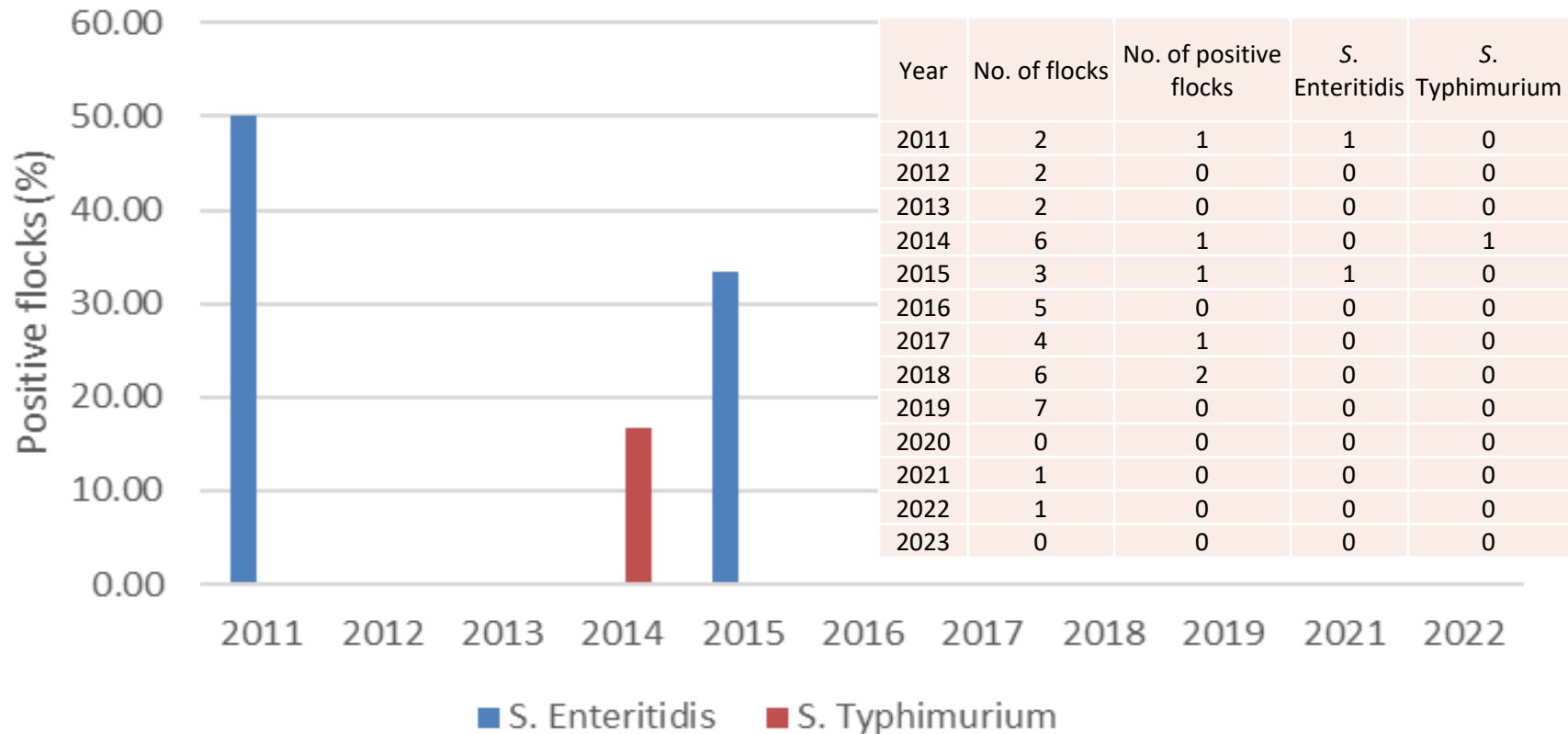


NRL – *Salmonella* Poultry



NRL – *Salmonella* Poultry

Breeding flocks of turkey



NRL – *Salmonella* Mammals

***Salmonella* spp. bovine/caecum 2015-2023 - serotypes**

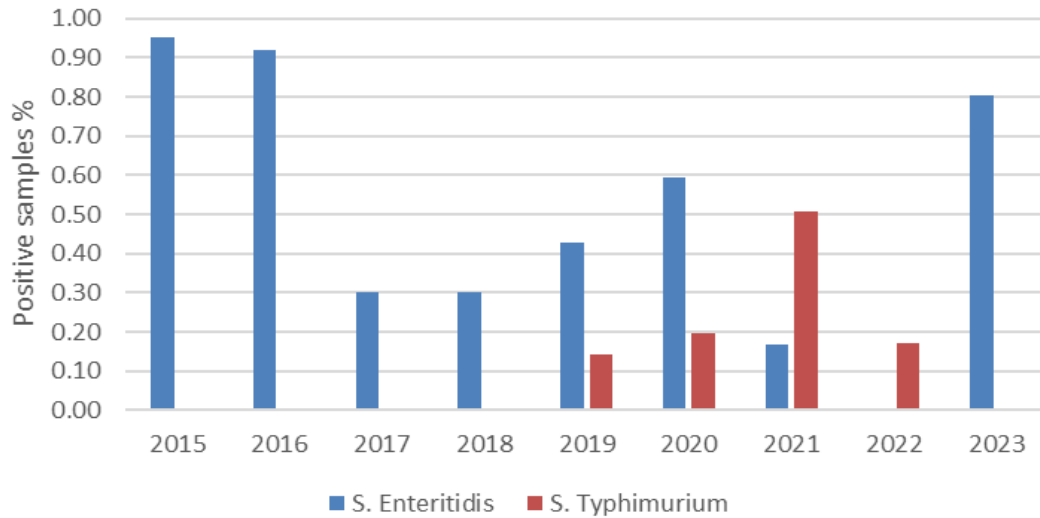
2015	2016	2017	2019	2021	2023
N = 15	N=13	N=14	N=8	N=16	N=4
S. Enteritidis – 28,6%	S. Enteritidis – 38,5%	S. Enteritidis – 71,4%	S. Typhimurium – 50,0%	S. Stanleyville – 37,5%	S. Derby – 50,0%
S. Derby – 20,0%	Mon. S. Typhimurium – 30,8%	S. Derby – 14,3%	S. Enteritidis – 25,0%	S. Typhimurium – 31,3%	S. Coeln – 25,0 %
S. Typhimurium – 13,3%	S. Typhimurium – 23,0%	S. Typhimurium – 7,1%	Mon. S. Typhimurium – 12,5%	Mon. S. Typhimurium – 18,7%	S. Livingstone – 25,0%
S. Miami – 13,3%	S. Infantis – 7,7%	S. Coeln – 7,1%	S. Derby – 12,5%	S. Bovismorbificans – 6,3%	
S. Virchow – 6,7%				S. Umbilo – 6,3%	
S. Agona – 6,7%					
S. Brandenburg – 6,7%					
Salmonella II (42; z; 1,5) – 6,7%					

Salmonella spp. fattening pigs/caecum 2015-2023 - serotypes

2015	2016	2017	2019	2021	2023
N =95	N=37	N=40	N=60	N=31	N=37
S. Derby – 34,7%	Mon. S. Typhimurium – 45,9%	S. Typhimurium – 32,5%	Mon. S. Typhimurium – 35,0%	Mon. S. Typhimurium – 54,8%	Mon. S. Typhimurium – 64,9%
S. Typhimurium – 23,1%	S. Derby – 21,0%	Mon. S. Typhimurium – 22,5%	S. Typhimurium – 28,3%	S. Typhimurium – 38,7%	S. Derby – 13,5%
Mon. S. Typhimurium – 23,1%	S. Enteritidis – 13,5%	S. Derby – 17,5%	S. Derby – 11,7%	S. Derby – 6,5%	S. Typhimurium – 10,8%
S. Enteritidis – 5,3%	S. Typhimurium – 5,4%	S. Enteritidis – 10,0%	S. Rissen – 5,0%		S. Senftenberg – 5,4%
S. Rissen – 3,1%	S. Agona – 2,7%	S. Senftenberg – 10,0%	S. Senftenberg – 3,3%		S. Rissen – 2,7%
S. Agona – 2,1%	S. Infantis – 2,7%	S. Agona – 2,5%	S. Goldcoast – 3,3%		S. Infantis – 2,7%
S. Tennessee – 2,1%	S. Senftenberg – 2,7%	S. Brandenburg – 2,5%	S. Brandenburg		
S. Sandiego	S. Tennessee – 2,7%	S. Rissen – 2,5%	S. Coeln		
S. Stanley	S. Hidalgo – 2,7%		S. Enteritidis		
S. Infantis			S. Goettingen		
S. Fulica			S. Infantis		
S. London			S. Kedougou		
			S. Mbandaka		
			S. Okatie		

NRL – *Salmonella* Food

Poultry meat



Poultry skin neck				
Year	No. of samples	No. of positive samples	S. Enteritidis	S. Typhimurium
2015	0	0	0	0
2016	835	252	1	0
2017	5	2	0	0
2018	1162	311	1	1
2019	0	0	0	0
2020	745	187	1	0
2021	704	136	0	0
2022	1120	122	0	0
2023	25	10	0	0

NRL – Salmonella Bivalve Molluscs

Year	No. of samples	No. of positive samples
2014	1	0
2015	13	0
2016	5	0
2017	15	0
2018	55	5
2019	35	0
2020	50	0
2021	45	0
2022	50	1
2023	50	0
Total	319	6