

FSIS Pilot Projects: *Salmonella* Vaccines

Data Summary as of February 2024

First sample collection date 4/3/2023*

Last sample collection date 1/31/2024

All samples in this dataset were collected and analyzed by the participating establishments.

Number of establishments in current dataset 9

Number of sample results in current summary 4053

Number of flocks sampled 1016

*Establishments joined pilots in a stepwise manner, so some establishments have earlier datapoints than others.

Count of *Salmonella* samples by location:

Establishment	Hot Rehang	Post-Intervention**	Total
EH	436	146	582
EK	435	145	580
ES	404	132	536
EZ	465	155	620
EI	268	90	358
EJ	276	92	368
EN	262	87	349
EF	78	218	296
EO	273	91	364
Total	2897	1156	4053

**Post-intervention results include post-chill carcasses or post-intervention parts samples.

Summary of current paired sample results:

Sample count by type	Hot Rehang		Post-Intervention**	
	2897		1156	
	Count (n)	Percent (%)	Count (n)	Percent (%)
Vaccine positive	110	3.80%	9	0.78%
Wildtype <i>Salmonella</i> positive	1756	60.61%	122	10.55%
<i>Salmonella</i> negative	1031	35.59%	1025	88.67%
Total	2897	100.00%	1156	100.00%

Positive sample serotypes (% of samples collected)

Serotype	Hot Rehang Count (n)	Hot Rehang Percent (%)	Post-Intervention Count (n)	Post-Intervention Percent (%)
Alachua	48	1.66%	7	0.61%
Altona	8	0.28%		
Anatum	3	0.10%		
Braenderup	2	0.07%	1	0.09%
Cerro	2	0.07%		
Cubana	1	0.03%		
Enteritidis	120	4.14%	46	3.98%
Hadar	8	0.28%		
Heidelberg	13	0.45%		
Infantis	644	22.23%	24	2.08%
Kentucky	489	16.88%	8	0.69%
Mbandaka	23	0.79%	2	0.17%
Newport	2	0.07%		
PCR+/Cul-	129	4.45%	22	1.90%
Schwarzengrund	24	0.83%	1	0.09%
Thompson	11	0.38%		
Vaccine strain	110	3.80%	9	0.78%
Typhimurium (wildtype)	53	1.83%	3	0.26%
Uganda	1	0.03%		
Untypeable	218	7.53%	8	0.69%