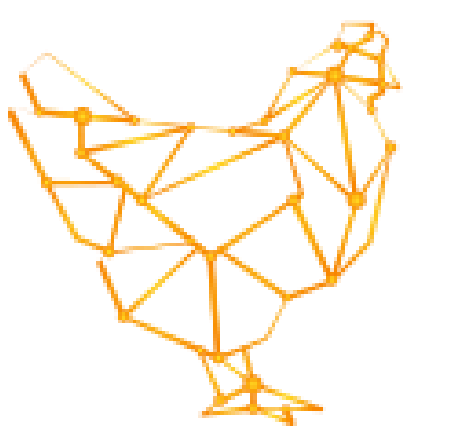


Optimizing biosecurity in poultry production: Alternative approaches to reduce AMU



NetPoulSafe



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Introduction

Biosecurity - preventing disease spread and safeguarding sustainable poultry production.
Scoring system objectively compares the biosecurity level between poultry farms or within a farm over time.

Objectives

- To develop scoring tools for measuring biosecurity levels in turkey, breeder, duck and free-range poultry production.
- To evaluate and benchmark farms.
- To provide targeted advice
- To improve and maintain high biosecurity levels.

About Netpoulsafe

Networking project with 7 major poultry producers of Europe sharing and disseminating knowledge on biosecurity compliance in poultry farming.
<https://www.netpoulsafe.eu/>

Table 1. Risk-based weighted scoring system	Weight of the questions	Answer possibilities with score					
		Best answer	Best score	Intermediate answer	Intermediate score	Worst answer	Worst score
Question: Are the vehicles disinfected when entering the farm ?	14	always	1	sometimes	0.5	never	0
Weighted score			14		7		0

Weighted score = Score per question X weight of question

Range of subcategory scores : '0' (NO biosecurity) to '100' (Full biosecurity)

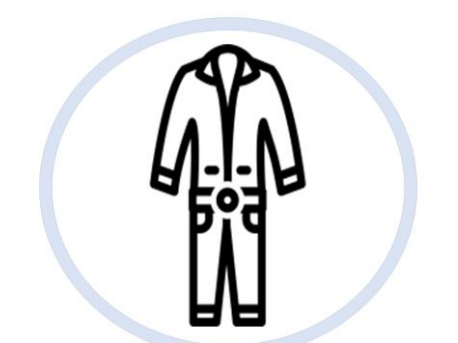
Total farm score = Mean of the external and internal biosecurity score

Biosecurity compliance in duck farms (n=25)

Vehicle disinfection
60 % farms



Clean overalls
84 % farms



Clean boots
92 % farms



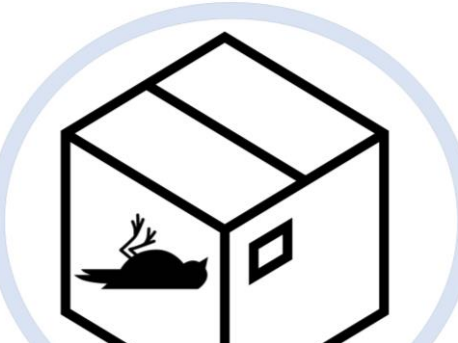
Shower in & out
20 % farms



Cleaning & disinfection after every production cycle
96 % farms



Carcass storage facility
96 % farms



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Farm inspection Filling questionnaire 1 hour	Online SURVEY entry into website 10 minutes	Instant report generated highlighting weak areas	Farm specific intervention plan	Recheck to see the evolution of farm scores

	A. Infrastructure, location and housing (%)	B. Organization of the farm and supply of materials (%)	C. Visitors and farm-workers (%)	D. Purchase of turkey poults (%)	E. Depopulation of adult turkeys (%)	F. Feed and water supply (%)	G. Manure and carcass removal (%)	H. Disease management (%)	I. Measures between compartments (%)	J. Cleaning and disinfection (%)
Sweden (n=26)	71	38	65	76	58	59	76	89	96	67
Spain (n=6)	82	74	82	88	64	76	80	80	88	96
Poland (n=6)	93	88	80	75	76	76	87	83	92	90
Italy (n=5)	77	95	82	82	90	70	80	81	75	91
Hungary (n=8)	69	36	31	36	38	51	47	74	45	56
Finland (n=28)	66	53	89	82	38	66	71	88	88	76

Table 2. National averages of subcategory scores for turkey farms

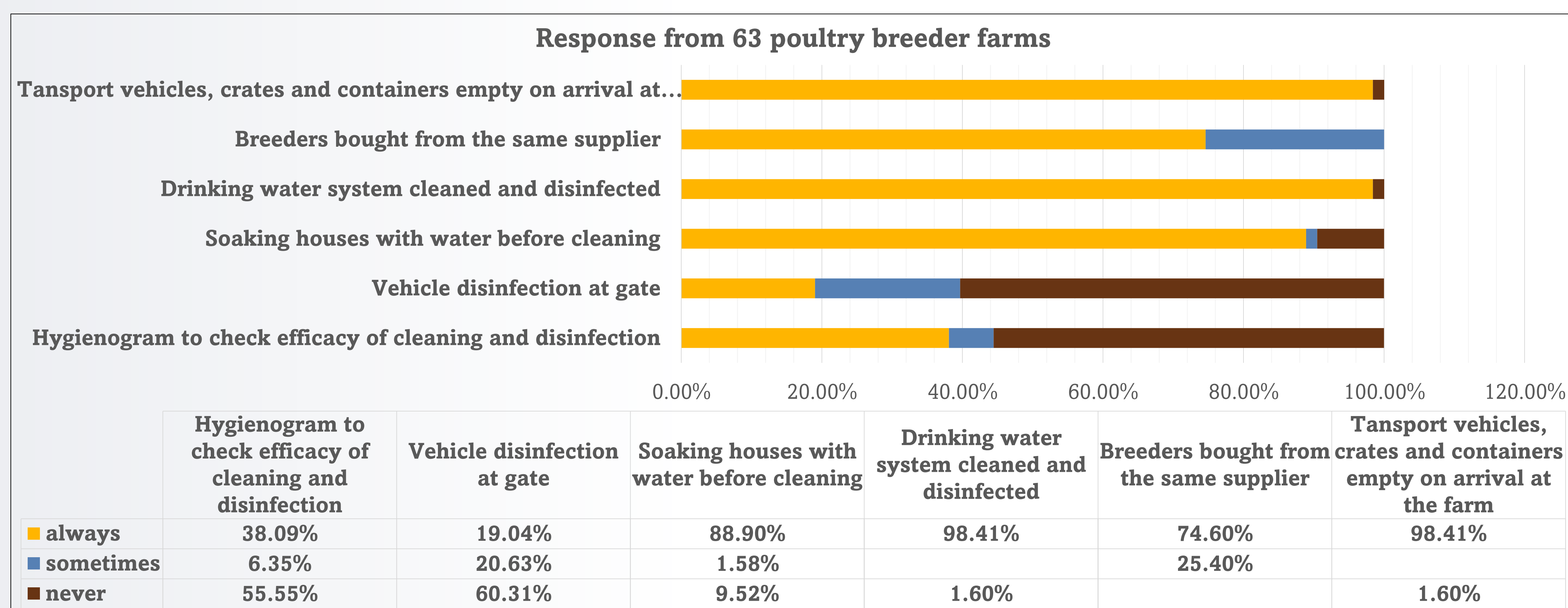


Table 3. Biosecurity compliance among breeder farms (world average of overall farm biosecurity = 77%)



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