Ammonia emission from laying hens - Nesbuegg

The values are taken from Stable balance made in Vera for values of 2024 production
Vera is a calculation tool developed by the Swedish Board of Agriculture

Laying hens

Animal units	65 000

Stable balance N	In	Out
Feed	66 693	
Bedding	22	
Pullets + roosters	1 843	
Eggs		20 072
Animals to slaughter		2 171
Discarded eggs		100
Carcass		143
	68 558	22 486
Nitrogen from animals		**46 072**
Excreted N, kg/animal unit and year		0,71
BAT-reference value, BAT 3		0,4-0,8

Stable balance P	In	Out
Feed	11 178	
Bedding	2	
Pullets + roosters	410	
Eggs		2 124
Animals to slaughter		482
Discarded eggs		11
Carcass		32
	11 590	2 649
Phosphorus from animals		**8 941**
Excreted P, kg/animal unit and year		0,14
Excreted P_2O_5, kg/animal unit and year		0,32
BAT-reference value (P), BAT 4		0,04-0,19
BAT-reference value (P2O5), BAT 4		0,10-0,45

Ammonia-N from stable	Solid manure
Nitrogen from animals	46 072
Nitrogen loss from stable	**4 607**
Ammonia loss from stable	5 594
Ammonia, kg/animal unit and year	**0,09**
BAT-limit value cage system, BAT 31	0,02-0,08
BAT-limit value Non-cage system, BAT 31	0,02-0,13[(1)]

(1) For existing plants using a forced ventilation system and an infrequent manure removal (in case of deep litter with a manure pit), in combination with a measure achieving a high dry matter content of the manure, the upper end of the BATAEL is 0,25 kg NH3/animal place/year.

Ammonia-N from storage, kg	Solid manure
Nitrogen after sable	41 465
Nitrogen loss from storage	**8 293**
Ammonia loss from storage	10 070

Ammonia loss from stable + storage	
Ammonia-N, kg	12 900
Ammonia, kg	15 664

Comments

The production is within the framework of BAT conclusions.