

Ammonia emission from laying hens - Stjörnuegg hf.

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 75 000

Stable balance N			Stable balance P		
	In	Out		In	Out
Feed	80 392		Feed	13 476	
Pullets	2 099		Pullets	467	
Eggs		25 384	Eggs		2 686
Animals to slaughter		2 782	Animals to slaughter		618
Discarded eggs		96	Discarded eggs		10
Carcass		122	Carcass		27
	82 491	28 384		13 943	3 341
Nitrogen from animals		54 107	Phosphorus from animals		10 602
Excreted N, kg/animal unit and year		0,72	Excreted P, kg/animal unit and year		0,14
BAT-reference value, BAT 3		0,4-0,8	Excreted P ₂ O ₅ , kg/animal unit and year		0,32
			BAT-reference value (P), BAT 4		0,04-0,19
			BAT-reference value (P ₂ O ₅), BAT 4		0,10-0,45

Ammonia-N from stable	Solid manure
Nitrogen from animals	54 107
Nitrogen loss from stable	5 411
Ammonia loss from stable	6 570
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	Most of the storage takes place at the buyer.
Nitrogen after sable	48 696	Storage within the business only takes place for
Nitrogen loss from storage	9 739	a few days before the manure is delivered.
Ammonia loss from storage	11 826	

Ammonia loss from stable + storage	
Ammonia-N, kg	15 150
Ammonia, kg	18 396

Comments

The production is within the framework of BAT conclusions.