

Farm Sustainability Report 2020 vs 2024

- Sheep

Farmer Name Demonstration Farms - Hill System

Summary (Compared to 2024)

Change in total farm GHG emissions

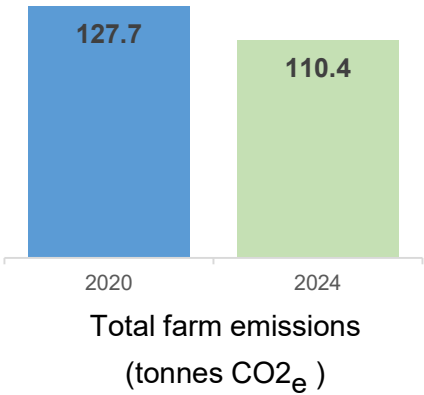
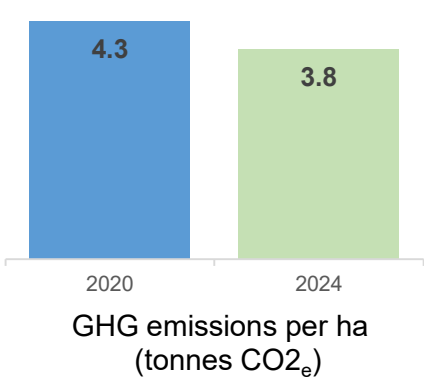
↓ **-14%**

Change in total farm ammonia emissions t NH3

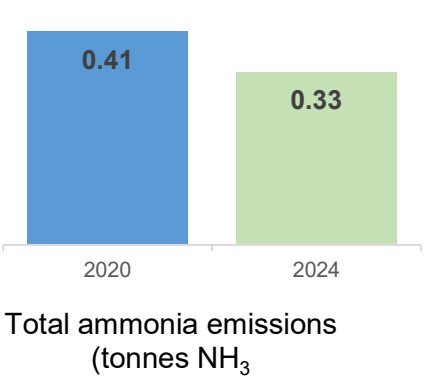
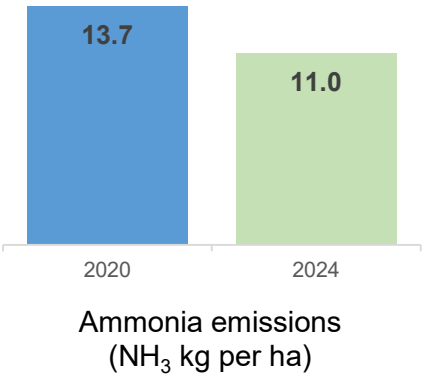
↓ **-19%**

Greenhouse Gas Emissions¹ (GHG)

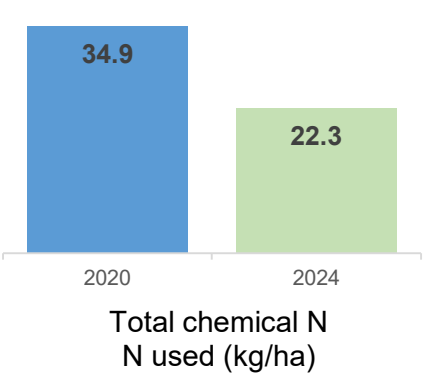
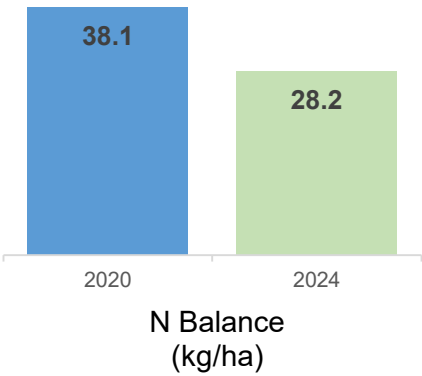
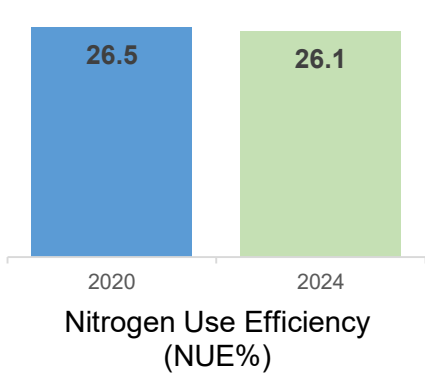
Environmental Sustainability



Ammonia Emissions²

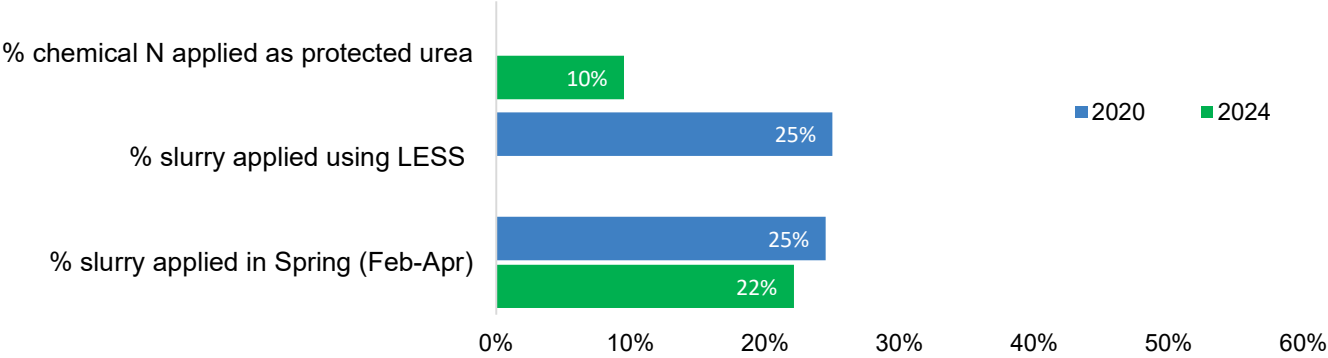


Nitrogen



¹ Does not include Carbon Sequestration

Reducing Reliance on Chemical N



Output

Production	2020	2024
Sheep Livetsock Units	34.7	37.7
Average Ewe No	180	179
Weaning rate	1.2	1.1
Ewes per hectare	5.9	5.8
Carcass Output per ha	130	138
Sheep Forage Area ha ¹	41.8	39.5

Economic Sustainability	2020	2024
Gross output € / ha	1049	1258
Gross margin € / ha	378	733
Family farm income €/ha ²	389	618
Market orientation % ³	53%	49%

1. Area dedicated to sheep production

2. Family Farm Income: Gross output less total net expenses; it represents the total return to the family labour, management and capital investment in the farm business and includes direct payments

3. Market orientation refers to proportion of gross output (€) that is derived from the market

Data Printout & Key Metrics	2020	2024	% Change 20 to 24
Farm Level Emission Results			
Total Farm GHG Emissions tonnes CO ₂ e	127.7	110.4	-14%
GHG emissions per ha FPCM tonnes CO ₂ -e (IPCC)	4.3	3.8	-12%
Farm Ammonia Emissions tonnes	0.41	0.33	-19%
Ammonia emissions NH ₃ kg per ha	13.7	11.0	-20%
Water Quality Measures			
N Balance kg per ha	38.1	28.2	-26%
Nitrogen Use Efficiency %	26.5	26	-2%
Slurry & Fertiliser Practices			
% chemical N - protected urea	1%	10%	10%
% slurry applied using LESS	25%	0%	-25%
% slurry applied in Spring (Feb-Apr)	25%	22%	-10%
Sheep Technical Results			
Meal feeding kg per LU	520	535	3%
Carcass Output per ha	130	138	6%
Weaning % (lambs reared per ewe joined)			
Stocking Rate per hectare (lu/ha)	1.23	1.13	-8%
Economic Returns			
Gross output per hectare €	1,049	1,258	20%
Gross margin per hectare €	378	733	94%
Family farm income per hectare €	389	618	59%
Market Orientation %	53%	49%	-7%
Soil Fertility			
Lime Usage (Total tonnes)	4.9	10.0	103%
Lime Usage (Tonnes per hectare)	0.06	0.12	93%
Livestock			
Sheep Livestock Units	35	38	9%
Ewe Average Number	180	179	-1%
Fertiliser			
Total kgs Chemical N Applied	2,791	1,876	-33%
Total Chemical N used kg / ha	34.9	22.3	-36%
% Chemical N applied as CAN	12%	13%	
% Chemical N applied as Urea	3%	3%	
% Chemical N applied as Protected Urea	0%	10%	
% Chemical N applied in NPK mixtures	81%	73%	
% Chemical N applied in NK mixtures	0%	0%	
% Chemical N applied in NP mixtures	4%	0%	
% Chemical N applied in Other N mixtures	1%	1%	
Land Base			
Total area farmed (ha)	80.0	84.2	



LIFE GREEN SHEEP