French Meat Sheep Farming Sustainability Benchmarking

FRENCH - YEAR 2021

MEAT SHEEP FARM PROFILE (AVERAGE (MIN-MAX))

Land use & area

Total Sheep Area (UAA): 144 (4-3 336) ha
Main Forage Area (MFA): 137 (4-3 336) ha
Stocking Rate: 6.4 (0.2-163.8) ewes/ha

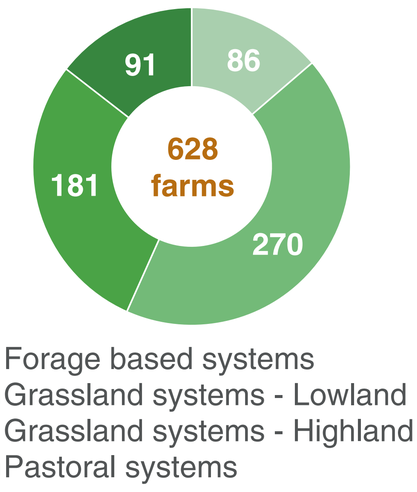


Productivity & meat performance

Flock size (N° of ewes): 437 (15-6 612)
Lambs reared / ewe joined: 1.12 (0.33-2.76)

Weight of lambs sold: 18.0 (8.5-30.0) kg carcass/lamb
Weight Productivity: 22.5 (6.2-55.3) kg carcass/ewe

Meat sheep systems



ENVIRONMENTAL AND ECOSYSTEM SERVICES FOR FRENCH MEAT SHEEP FARMS

Food performance*

2.2 (0.1-32) *people/ha UAA*
**PerfAlim. Cereopa*

Maintenance of biodiversity*

1.66 (0-23.85) *ha biodiversity eq/ha UAA*
**Hedgerows included*

Nitrogen balance surplus*

60 (0-679) *kg N/ha UAA*
**(N_{inputs}-$N_{outputs}$)*

Direct fossil energy*

38.9 (0.5-305.2) *MJ/kg carcass*
**Fuel & Electricity consumption*

CARBON FOOTPRINT ASSESSMENT

Gross GHG* emissions

38.8 (16.4-121.9) *kg CO_2 eq/kg carcass*
**GHG = GreenHouse Gases (CO_2 + CH_4 + N_2O)*

\-

Carbon sequestration*

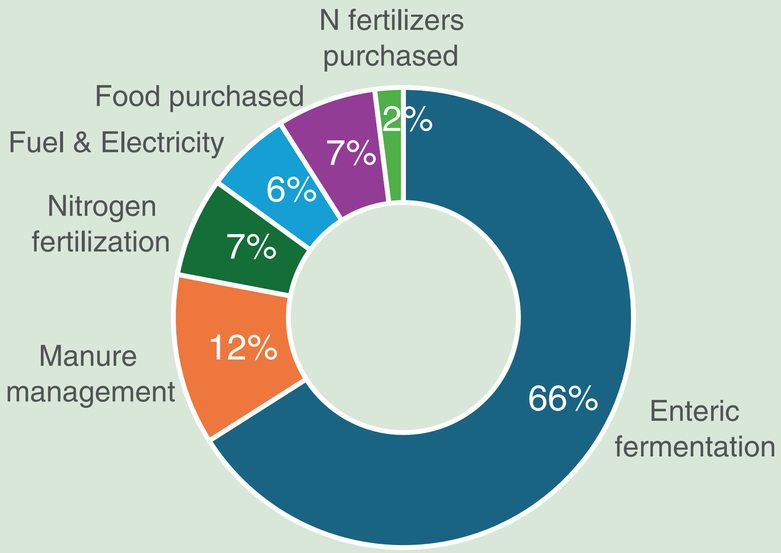
19.9 (-3.4-105.3)
kg CO_2 eq/kg carcass
**Hedgerows included*

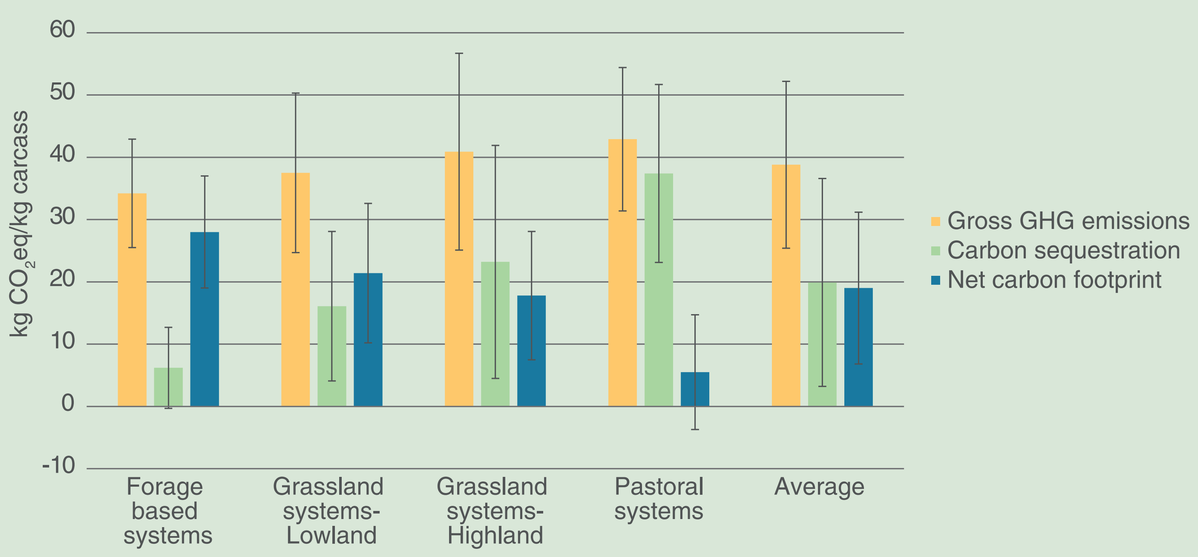
=

Net Carbon Footprint

19.0 (0-72.3)
kg CO_2 eq/kg carcass

GHG emissions sources





French Meat Sheep Farming Sustainability Benchmarking

FRENCH - YEAR 2021

GHG EMISSIONS AND TECHNICAL RESULTS WITHIN EACH SYSTEM

Grassland systems - Lowland - 270

Indicators		10% of farms that have the lowest emissions	Average (of the group)	10% of farms that have the highest emissions
GHG emissions	*kg CO_2eq/kg carcass*	24.4	37.5	58.7
Carbon sequestration	*kg CO_2eq/ha UAA*	1 296	1 553	1 496
Technical indicators for Flock Management and Production				
Lambs reared / ewe joined	*lambs/ewe*	1.66	1.09	0.58
Lambs weight	*kg carcass/lamb*	18.6	18.6	18.0
Weight Productivity	*kg carcass/ewe*	34.7	23.3	12.8
Concentrate consumption	*kg/ewe*	163	160	121
Concentrates self-sufficiency	*%*	47	39	40
Technical indicators for Land Management				
Mineral Nitrogen	kg N/ha UAA	11	17	11
Organic nitrogen pressure	kg N/ha UAA	61	56	48
Permanent grasslands & pastoral areas	%	43	49	47
Hedges	linear meter/ha UAA	186	131	125
Technical indicators for Manure management				
Grazing days for Ewes	days/year	247	257	270
Technical indicators for Energy consumption				
Electricity	kWh/kg carcasse	0.22	0.32	0.49
Fuel	litres/ha UAA	77	79	76

Pastoral systems - 91

Indicators		10% of farms that have the lowest emissions	Average (of the group)	10% of farms that have the highest emissions
GHG emissions	*kg CO_2eq/kg carcass*	28.9	42.9	64.2
Carbon sequestration	*kg CO_2eq/ha UAA*	727	798	669
Technical indicators for Flock Management and Production				
Lambs reared / ewe joined	*lambs/ewe*	1.61	1.01	0.66
Lambs weight	*kg carcass/lamb*	15.9	15.9	14.7
Weight Productivity	*kg carcass/ewe*	26.4	17.5	9.9
Concentrate consumption	*kg/ewe*	63	102	74
Concentrates self-sufficiency	*%*	44	41	37
Technical indicators for Land Management				
Mineral Nitrogen	kg N/ha UAA	22	20	6
Organic nitrogen pressure	kg N/ha UAA	15	16	12
Permanent grasslands & pastoral areas	%	96	92	94
Hedges	linear meter/ha UAA	72	147	145
Technical indicators for Manure management				
Grazing days for Ewes	days/year	282	248	255
Technical indicators for Energy consumption				
Electricity	kWh/kg carcasse	0.4	0.48	0.66
Fuel	litres/ha UAA	114	124	109