

# Gàver, Spain

Organic production certified acc. (EU) 2018/848 since 2003



**Martí Verdés Maya**

## Yield enhancing strategy, what makes the farm special?

We integrate agriculture with livestock. We feed our animals with what we produce on the farm. We also produce legumes, chickpeas and lentils for human consumption.

## Basic definition of the farm

It is a mixed cattle farm, 90 ha of agricultural area and 20 cows and fattening. We use organic fertilizers from the farm itself and external ones are purchased to complement. The rotation is with grass, legumes and fodder.

## Things in production that should be optimised from the farmer's point of view

Try to do minimal soil work to retain as much water as possible in the soil and carbon loss, minimize erosion, and increase its life.

**Farm:** It is a mixed cattle farm, 90 hectares of agricultural land and 20 fattening cows. We use organic fertilizers from the farm itself and buy external ones to complement. The rotation is with grass, legumes and forage.

**Soil:** calcareous loamy soils.

## Rainfall and temperatures:

2003-2023	J	F	M	A	M	J	J	A	S	O	N	D	Year
Rainfall [mm]	27.8	16.8	32.1	49.8	38.9	32.2	19.1	19.1	21.9	38.0	38.2	17.0	350
Temperature [°C]	4.3	6.4	9.5	12.5	16.6	21.6	24.5	24.2	20.0	15.6	9.4	5.3	14.2

## Arable crops, yields, fertilisation, 2019-2024, (rotation 1) [t/ha]:

	2019	2020	2021	2022	2023	2024	Av.
1 Barley	3.90	4.70	4.20	3.00	1.50	1.80	3.18
2 Chick peas	1.30	1.90	1.10	1.10	0.70	0.15	1.35
3.Fodder (Oats-Vetch)	7.30	8.00	6.30	5.20	1.20	0.90	5.60
4.Lentils	1.10	1.70	1.30	0.90	0.40	0.13	1.36
5.Triticale	3.80	4.40	5.00	2.50	-	1.00	2.78
<b>Fertilizers (in autumn)</b>							
Solid cattle manure [FM] t/ha	8.00	8.00	8.00	8.00	8.00	8.00	8.00
Chicken manure [FM] t/ha	2.00	2.00	2.00	2.00	2.00	2.00	2.00

Grains 86% dry matter (DM)

**Cattle manure** [kg/t FM]: 5 N, 1.3 P, 5.8 K, **Chicken manure**: 17 N, 7.4 P, 11.6 K,

**Total available per year:** CM 720 t/a; CDM 180 t/a,

nutrients available in arable cropping by this [kg/ha]: Ø 74 N, 25 P, 70 K

## **Machinery**

Tractor 125 kW

Tractor 100 kW

OVLAC semi-chisel cultivator XLANDER 5 m

OVLAC Mini plow 7 furrows

Vaderst ad 3 m seeder combined with quick harrow and sowing disc body

Hatzenbichler 6 m thorn weeder

SOL A mono grain seeder 3 meters

Vicon Round baler with chopper

Forage harvester

Combine harvester 130 kW

Binder 3 m