



# Bastendorf, Luxembourg

Organic production certified acc. to EU since 2016

**Miller-Mariany**



Yield enhancing strategy, what makes the farm special?

**Poultry and suckler cows, 40% of clover grass in crop rotation, production of organic mustard, self-marketing**

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

Stabilizing yields is priority. Being able to handle the farm without external manpower. Sees potential for diversification and biochar amendments and separation of lentils from stones and barley to optimize the value-chain

**Farm:** Conversion to organic in 2016, 110 ha of agricultural land, 45 ha arable land, bread wheat, Oats/triticale pea mixtures, legumes, fodder cereals, 60 suckler cows and 4.000 laying hens, 20 sheep with lambs.

**Soil:** limestone

**Rainfall and temperatures:**

2016-2024	J	F	M	A	M	J	J	A	S	O	N	D	Year
Rainfall [mm]	82.1	61.1	55.4	42.5	65.1	72.4	61.3	49.6	67.7	68.0	65.3	80.9	771.3
Temperature [°C]	2.6	4.1	6.2	9.0	13.2	17.5	18.6	18.4	14.4	10.5	6.2	4.1	10.4

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

	2019	2020	2021	2022	2023	2024	Av.
1. clover grass partly grazed, number of cuts 3-5							
2. clover grass partly grazed, number of cuts 3							
3. Winter wheat	4-5	4-5	4-5	4-5	4-5	4-5	4.0
4. Oats/triticale peas mixture cattle manure 15t/ha	4.0	4.0	4.0	4.0	4.0	4.0	4.0
5. Lentils/Barley cattle manure 15t/ha	2.0	2.0	2.0	2.0	2.0	2.0	2.0

Clover grass silage 32% DM, grains: 86% DM, clover grass: white clover/ryegrasses,

Cattle solid manure (kg/m<sup>3</sup> FM): 4 N total, 1.3 P, 5.8 K

**Machinery**

Tractor 110 kW

Tractor 100 kW

4 m cultivator Einböck

4 furrows plough LEMKEN Juwel 6

3 m seed-bed Amazone D9 3000 special

6m tined weeder APV

Harvester Claas Avero

**Management data:**

- No mineral fertilizer,
- manure fertilizer 15t/ha in summer (August) after summer cereals
- No irrigation,
- soil treatment (shallow tillage maximum 15 cm once a year in summer, residue left on the field)