



Buckwheat field in Viksi Farm

Viksi Farm, EE

Organic production certified
acc. (EU) 2018/848 since 2006
Association: Naturland



Yield enhancing strategy, what makes the farm special?

Use of organic fertilisers and seed treatment, profitable production without red clover in crop rotation

Optimisation wishes and questions:

More cover/catch crops seeding after harvest and more legumes in crop rotation (field beans for example)

Heiko Viksi

Farm: 150 ha arable land, 100 ha permanent peat-grassland

Soil: sandy loam, loamy sand

Rainfall and temperatures

2003-2023	J	F	M	A	M	J	J	A	S	O	N	D	Year
Rainfall [mm]	22.4	20.0	18.9	28.5	51.8	76.1	62.2	83.4	51.1	57.3	39.1	33.5	544.2
Temperature [°C]	-4.7	-4.3	-0.4	5.6	11.8	15.8	18.2	17.0	12.2	6.3	1.9	-1.6	6.5

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

	2019	2020	2021	2022	2023	2024	Av.
1 W-wheat	2	2	2.5	1.7	2.9	2.5	2.26
2 Buckwheat	0.9	1.3	0.7	1	1.1	1.5	1.08
3 Oats	2.3	3.5	2	2.8	2.5	2.4	2.58
4 Field peas	2	2.6	1.4	1.6	2.8	1.6	2
5 W-Rye	2.1	2.6		3.5	1.9	2	2.42
Fertilisers							
Granulated chicken manure	0.3	0.3	0.4	0.5	0.5	0.5	0.42
EcoPlant	0	0	0.05	0.05	0.05	0.05	0.033

Seeds: 86% DM; granulated chicken manure [%]: 5 N, 1 P, 2 K, from av.: 21 kg/ha N, 4.5 kg/ha P, 8.4 kg/ha K per year

The farm has not grown clover or leguminous catch crops. This year (2026), the plan is to establish clover fields and leave some of the poorer fields as short-term grassland due to low grain prices. The plan is to also produce clover seed and then start undersowing clover with cereals, which will be cultivated into the land as green manure during the next tillage.

Photos: © H Viksi

Machinery

Tractors

Tractor Case IH Magnum (1999) 170 kW
 Tractor Kubota (2018) 100 kW
 Tractor Case Puma (2023) 121 kW

Power HP

231
 135
 165

Cultivation

4 furrows plough Kverneland ED-85
 HE-VA Tip Roller with front blades
 Väderstad Rapid
 Amazone Catros
 Einböck Aerostar

Working width (m)

4 furrows
 6.2
 4
 4
 6

Fertilisation

Amazone ZA-M Max

24

Harvest

John Deere WTS 9540 combine harvester

4.6

Estonian University of Life Sciences and Viksi Farm, 01/2026