

Ultuna Egendom, SE

Organic farming since 2006

Association: KRAV



Harrowing the soil in preparation for sowing



Yield enhancing strategy, what makes the farm special?
Enhances yields through data-driven, site-specific crop rotations and continuous on-farm field trials to optimise varieties, nutrient and water management.

Optimisation wishes and questions: optimised weed and disease control, supported by long-term trials, monitoring tools, and stable conditions for infrastructure investment.

Nic Johansson

Farm: Roughly 120 ha of organic land, spread around to many smaller fields

Soils: Productive, often include clay, clay loam, or lighter clay-based soils.

Rainfall and temperatures

2015-2025	J	F	M	A	M	J	J	A	S	O	N	D	Year
Rainfall (mm)	34	24	19	20	35	38	52	60	41	47	38	37.	444
Temp. (C°)	-2.2	-1.6	1.2	4.9	10.8	16.1	17.5	16.4	12.3	6.8	2.5	-0.6	7.0

Crops, yields and fertilisation, 2019-2024 [t/ha]

Crop rotation plan	2019	2020	2021	2022	2023	2024	Mean
Peas	-	-	-	-	3.60	-	
W-Wheat	8.29	7.5	5.77	4.3	4.21	6.32	6.05
Oats	N/D	6.54	N/D	4.83	-	-	5.69
Ley	N/D	N/D	N/D	Green manure	10.9	-	
Ley for biogas production	N/D	6.58	N/D	-	-	N/D	
White-clover seed	N/D	0.26	N/D	N/D	-	-	

Clover/grass 32% DM, grains: 86% DM, Fertilisation is mainly recorded for cereals, especially winter wheat. Faba bean, peas and white-clover seed have no fertiliser inputs listed. Winter wheat is consistently fertilised with biogas digestate and/or pelleted organic fertilisers, often split: digestate (2x25 t/ha in 2019), organic pellets S 8-3-5-3 (700+600 kg/ha in 2020), Biofer 10-3-1 (600x2 kg/ha in 2021), N-14 (700 kg/ha in 2022; 650 kg/ha in 2023), and Biofer combined with digestate in 2024–2025 (600 kg/ha + 25 t/ha; 780 kg/ha + 18 t/ha). Oats follow a similar but less consistent pattern, with Biofer 10-3-1 plus digestate recorded in 2020 and 2022. Ley is primarily managed for soil fertility (green manure) and/or harvest use, with no specific fertiliser inputs noted. A typical nutrient content of digestate is total N: ~3.6-4.4 kg N/m³, N (mainly NH₄-N): ~2.6 kg N/m³, Total P~0.6.–0.75 kg/m³, Total K: ~2.9-3.7 kg/m³

Photos: © Ultuna Egendom

Machinery

Tractors

Fendt 724

Valtra N174

Fendt 828

Power HP

240

174

280

Cultivation

Väderstad carrier XL

Cameleon

Väderstad NZA harrow

Kverneland 5 furrow

Einböck weed harrow

Working width (m)

6.25

8

10

2.1

12

Machines in cooperation

Contractor 30m³ slurry tank for biogas digestate

24

Harvest

NH CX8.90

9

Fertilisation

Cameleon

8

Transport

Metsjö MetaQ trailer 32m³

Swedish University of Agricultural Sciences, Ultuna Egendom, 04/2026