

# Tjulsta gård, SE

Organic farming since 1989

Association: KRAV



Cattle at rest on Tjulsta gård farm



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

Crop production is closely tied to the livestock system. The farm is frequently highlighted in the media for its animal welfare, environmental stewardship, and commitment to organic principles. Yield enhancing strategy through reduced soil compaction and soil health.

### Optimisation wishes and questions:

Nitrogen optimisation strategy

Oskar Karlsson

**Farm:** Roughly 530 ha of organic land, 110-120 ha under crop rotation, around 1700 pigs, 60 calves

**Soils:** Productive, often include clay.

### Rainfall and temperatures

2003-2025	J	F	M	A	M	J	J	A	S	O	N	D	Year
Rainfall (mm)	37	26	22	25	40	54	50	67	42	54	46	43	507
Temp. (C°)	-2.4	-2.2	0.8	5.6	11.2	15.6	17.9	16.5	12.4	6.9	2.8	-0.3	7.1

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

Crop rotation plan	2019	2020	2021	2022	2023	2024	Mean
S-Wheat	5.6	5.2	5.2	5.3	4.25	4.4	4.9
Runner bean	3.9	3.6	3.1	4.2	3	3.9	3.6
Oats	3.4	3.5	3.2	3.4	2.8	3.5	3.3
S-Rye	4.5	4.4	-	-	3.4	4.2	4.2
S-Barley	4.6	5.3	4.7	-	-	-	4.9
S-Rapeseed	1.9	-	2.2	2.5	-	-	2.2
W-Wheat	3.6	4.6	3.8	-	-	-	4.0

Photos: © O Karlson

Fertilisation [kg/ha N]	2019	2020	2021	2022	2023	2024	Fertiliser
S-Wheat	30	30	40	60	80	90	Vinass 4:0:4
	80	80	80	80	50	50	AgroPellets 10:3:1
Oats	600	650	650	600	600	650	NPKS 8:3:5:3
S-Rye	500	580	-	-	-	550	AgroPellets 10:3:1
S-Barley	900	900	900	-	-	-	AgroPellets 10:3:1
S-Rapeseed	400+500	-	400+500	400+500	-	-	AgroPellets 10:3:1
W-Wheat	800	1000	1000	-	-	-	AgroPellets 10:3:1

AgroPellets 10:3:1 and NPKS 8:3:5:3: Pelletised fertilisers, approved for the organic cultivation (<https://ekovax.se>)

## Machinery

### Tractors

Massey Ferguson 6616  
 Massey Ferguson 7495  
 Massey Ferguson 7719  
 Massey Ferguson 7626  
 Massey Ferguson 7726

### Power HP

160  
 195  
 190  
 265  
 265

### Cultivation

Väderstad swift 560 spets gåsfot  
 Lemkem Kristall spets gåsfot  
 Väderstad NZA+N2E  
 Väderstad Carrier XL  
 Einböck ogräsharv  
 Combent thistle cutter  
 Agrolux + Kvarneland plough  
 Väderstad rexius crosskill

### Working width (m)

5.6  
 4.0  
 8+8  
 5.25  
 12  
 8.0  
 2.0+2.0  
 12

### Harvest

New Holland 890cx

### Working width (m)

10.5

### Fertilisation

Cameleon 2 pieces  
 Rolland 2-stage spreader

### Working width (m)

8 each  
 12

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