

Csoroszlya-Farm, HU

Organic Farming since 2015

Association/certification body: Bio Garancia Kft

Yield enhancing strategy, what makes the farm special?

We practice wide crop rotation, including common and ancient grains, legumes, buckwheat, and oleaginous plants. Crops are processed into organic food ingredients by “Astrié” mill. We supply people and artisan bakeries with high quality flour.

Optimisation wishes and questions:

We aim to increase flour productivity and output, establish cooperation with new bakeries, and find the appropriate species to ensure a consistent annual supply for the mill.



Scarlet clover, Photo: © Uj Mezogazdasagi Magazin

Farm: 300 hectares, near of the village “Szár”. 275 ha arable land, 25 ha fruit plantation

Soils: Chernozem, eroded brown earth, covered by slope sediments

Rainfall and temperatures

2023–2025	J	F	M	A	M	J	J	A	S	O	N	D	Year
Rainfall [mm]	23.8	18.3	48.7	39.5	56.5	39.0	27.5	42.5	40.5	59.2	48.1	27.7	471
Temperatures [°C]	1.7	4.2	7.8	11.3	15.4	20.8	22.9	22.4	18.1	11.7	4.9	2.7	12.0

Crops. yields and fertilisation. 2019–2024 [t/ha]:

Crop rotation plan	2019	2020	2021	2022	2023	2024	Av.
Peas <i>intercropping with winter wheat</i>	n.a.	n.a.	1.00	1.00	1.59	0.94	1.13
Sunflower, <i>using vinasse as a solid manure and chicken 300 kg/ha manure pellets (CMP) sowing in the rows</i>	3.00	2.20	1.50	0.70	1.00	2.50	1.82
Buckwheat	-	-	0.70	0.50	0.30	0.30	0.45
Winter wheat, <i>using 2 t vinasse/ha as a solid manure</i>	3.00	3.00	2.80	3.50	1.00	1.00	2.38
Emmer wheat	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Einkorn wheat	-	-	2.00	1.00	1.50	1.00	1.38
Rye	2.00	2.00	1.70	3.30	1.50	1.00	1.92
Oil linen <i>sown after a winter cover crop</i>	-	-	0.70	0.40	0.40	0.80	0.58

Grains 86% dry matter (DM). **Vinasse:** 45% DM, [kg/ton (t) Fresh matter (FM)]: N: 18, P: 0.2, K: 30

Chicken manure pellets (CMP): 80% (DM), [kg/t (FM)]: N: 32, P: 7, K: 20

Total available per year: Vinasse: 2 tons/hectare (only autumn wheat), CMP: 300 kg/hectare (only sunflower, with sowing, next to the seedbed)

Intercrops: peas with winter wheat and spelt. common vetch with oats. cereals with legumes. **Cover crops:** if the weather permits: 4-5 varieties of legume-based autumn seed mixtures not frost-resistant

Machinery

Tractors	Power HP
JD 6195	195
JD 6310	100
JD 5515V	80
New Holland T.270	270
Self-propelled machines /eg. harvester	Working width in meters
Cultivation	
Köckerling trio 400	4
Multiva discmaster	4
Güttler supermaxx bio	5.5
Hatzenbichler harrow	12
KG 6000 stem crusher	6
Köckerling Ultima CS	4
Kunh Maxima GT	4.5
Tortella ISFR	1
Harvest	
JD W650i	5
Strojtehnika Vibro 6	
Fertilisation	
	18
Hardi Commander 2800	
Hardi Mercury-F 2000	
Kuhn Axera-1100	