



Vetterlifarm CH

Rheinklingen, Switzerland

Organic farming certified by Bio Suisse since 2020



Strategy for increasing yields – what makes the farm special?

Effective weed control, including the use of a robot (Farmdroid), healthy crop rotation, closed nutrient cycles and the use of compost to improve soil fertility

Optimisation wishes: Plant health, especially fungal diseases in potatoes and onions.

Marcel and Daniel Vetterli

Farm: Mixed farming, 61 hectares of arable land, 10 hectares of permanent grassland, 45 dairy cows, 15 young cattle

Soil: sandy loam to sandy clay

Rainfall and temperatures: Schaffhausen station

1991 - 2020	J	J	M	J	M	J	J	A	S	N	N	D	Year
Rainfall [mm]	63	51	51	56	85	83	90	85	62	72	66	86	850
Temperature [°C]	0.7	1.7	5.8	9.9	14.0	17.6	19.3	18.8	14.5	9.8	4.7	1.5	9.9

Arable crops, yields, fertilisation, 2019–2024, [t Fresh matter (FM)/ha]:

Crop rotation	2019	2020	2021	2022	2023	2024	MW
1 & 2 Grass-clover	~10						~10
3 Carrot	~100						~100
4 & 6 Winter wheat	5.5	5.5	4.8	5.2	5.2	3.8	5.0
5 Soybean	3.5	2.9	3.0	4.1	2.8	2.2	3.1

Fertilisation: Grass-clover – twice 20 m³ cattle manure (30 kg N); carrots – 500 kg commercial fertiliser (Bioorga 12%, 70 kg N) and 150 kg potassium (Kali 30%, 50 kg K); Winter wheat 40–50 m³ cattle manure (35 kg N) and 300 kg commercial fertiliser (Bioorga 12 %, 50 kg N); no fertiliser for soybeans; cattle manure can be replaced by solid cattle or chicken manure, depending on availability.

Machinery

Tractors

Tractors
Fendt GT

Power kW
65, 65, 90, 100

Working width (m)

Soil cultivation

6-furrow mouldboard plough	2.7 m
4-furrow plough	1.8 m
Rotary harrow	3 m
Subsoiler	3 m
Chisel plough	3 m
Grimme 4-row potato planter	3 m
Väderstad Rapid seed drill	3 m
Spring tine harrow	9 m
Tine cultivator	4 m
Disc harrow	3 m
Einböck Chopstar Prime 6X50 cultivator	3 m
4x 75 cm ridge cultivator	3 m
Single seed drill 12x50	6 m

Harvest

Grimme 1-row potato harvester	
Combine harvester (contractor)	
Asalift 1-row carrot harvester	4.5 m
Grimme Maxtron Sugar beet harvester (contractor)	3 m 6x50

Fertilisation / Plant protection / Irrigation

Compost/manure spreader 12 m ³	12 m
Drag hose, tank 8 m ³	12 m
Drag hose, slurry pipes (800 m) with tractor pump	15 m
Fertiliser spreader	18 m
Field sprayer	18 m
Irrigation reel (300 m hose, 90 m throw range)	

Forage production

Mower	2.8 m
Double rake	8 m