



H. Imhof Bioprodukte, CH

Schwerzenbach, Switzerland

Organic farming, Bio Suisse since 1997, Demeter since 2017



Yield strategy, what makes the farm special?

Improving soil fertility with compost and green manure. Good crop rotation and effective weed control.

Optimisation wishes: Nutrient management.

Sammy Leumann

Farm: Agricultural land 85 ha: Focus on vegetable production approx. 60 ha, arable crops 10-20 ha, grass-clover ley 10-15 ha, extensive grassland 5 ha; feed/manure cooperation with a sheep farm.

Soils: Peat soils; sandy loam soils to sandy clay soils

Rainfall and temperatures: Zurich-Kloten station

1991-2020	J	F	M	M	M	J	J	A	S	N	N	D	Year
Rainfall [mm]	65	56	65	70	110	102	116	108	80	82	74	80	1009
Temperature [°C]	0.9	1.6	5.6	9.6	13.8	17.4	19.2	18.7	14.4	9.9	4.7	1.6	9.8

Arable crops, yields and fertilisation, 2022-2025, (irrigated, good soils) [t FM*/ha]:

	2022	2023	2024	2025	MW
1 Clover grass (18 months)	estimated 9-10				9-10
2 & 3 & 4: Market vegetables I-III	no information				
5 Winter wheat	4.1	2.8	2.4	2.3	2.9
5 Spelt	3.5	2.8	2.4	3.3	3.0
5 Winter oat		5.1	-	-	5.1
5 Winter pea/barley intercrop		3.3	2.9	5.6	3.9
5 Faba bean	3.3	2.8	2.9	-	3.0
5 Sugar beet		4.8	3.5	4.9	4.4
6 & 7 & 8: Fresh vegetables IV-VI	no information				

***FM = Fresh Matter**; Fertiliser quantities refer to arable land and leys for the crops winter wheat: 30-50 kg N/ha, spelt: 0-30 kg N/ha, sugar beet: chicken manure approx. 1 t FM/ha, contents [kg/t]: 24.1 N_{total}, 19.5 P₂O₅, 4.3 K₂O; Compost: potting soil and vegetable waste from own farm approx. once every 3 years; commercial fertiliser: e.g. Bioorga® 12% N approx. 550-750 kg/ha = 60-90 kg N/ha for vegetables as required; Potash and Sulfure: Patentkali®: (24.9% K, 6 Mg, 17,6 S) approx. 70 kg as required, sheep manure on pastures [kg/t]: 8.2 N_{total}, 3.7 P₂O₅, 17.0 K₂O.

Machinery

Tractor

John Deere 6140 M, 6100 M, 5100 R, 6600
 Fendt GTS 255
 Landini DT 6830, 5-100, R 6060, 6830, 6860

Power in hp

100 - 135
 5
 58

Attachments

4-furrow mouldboard plough
 Spring tine cultivator
 Subsoiler
 Fobro bed forming rotary harrow
 Film laying device
 Planting machine Bänder
 Lemken Saphir 9 seed drill combination
 Single seed drill
 Kriss hoes (various)
 Haruwy four-row star hoe
 Flail mower
 Field sprayer

Working width (m)

2.5m
 1.5 m
 1.5 m
 1.5m
 3 m
 1.5m
 1.5m
 3 m
 2.2 m
 15 m

Harvesting machines

Underride blade
 Harvest trailer 3 Marolf, 12 palettes
 Harvest trailer conveyor belt, 18 palettes

1.5 m

Fertilisation

Rauch box spreader
 Rauch MDS 14.2 fertiliser spreader

2.3m

Fodder production

Motor mower

1.8m

Irrigation

Irrigation pump, PTO-driven
 Irrigation pipes for 30 ha, 2000 m supply hoses, hose trolley 250 m