



View of the system trial on the TAB platform

# TAB platform, Etoile-sur-Rhône, South-East FR

Organic farming

certified acc. (EU) 2018/848 since 2012



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

Since 2008, ITAB is facilitating a network of “system experiments” on stockless organic cropping systems, known as ROTAB. Those systems look at the complex combination of practices and decision rules that make the reality of commercial farms. Launched in 2012, the TAB platform is part of the Etoile-sur-Rhône experimental farm, which is managed by an association constituted by a network of 12 R&D partners. It tests a diversified and innovative agroforestry system combining arable crops and an orchard (peach and almond trees) in order to explore fruit agroforestry impact on crops, microclimate, biodiversity, pests, weeds, and water cycle.

**Optimization wishes and questions:** Product must be compliant with long-supply-chain marketing requirements, particularly for fruits – weeds management

**Soils:** deep sandy–silty–clay soils, fairly stony, very well-drained, low water capacity, neutral pH, low organic matter content (1 to 1.5%), rapid mineralization

**Surface:** 3.3ha

## Rainfall and temperatures

2003-2023	J	F	M	A	M	J	J	A	S	O	N	D	Year
Rainfall [mm]	47	46	46	67	85	62	51	74	78	128	108	67	859
Mean temperature [°C]	4.5	5.4	8.8	12.7	16.5	21.3	23.3	22.3	18.2	13.9	8.7	5.2	13.4

## Crops yields, 2023-2025 [t/ha]

Crop	Agroforestry				Reference system			
	2023	2024	2025	Mean	2023	2024	2025	Mean
Soybean	3.5	3.3	3.5	<b>3.43</b>	3.2	4.4	3.3	<b>3.63</b>
Maize	12	9.7	8.2	<b>9.96</b>	11	10	9.2	<b>10.06</b>
W-Forage Pea	NA	2	3.1	<b>2.55</b>	NA	2.2	4.2	<b>3.2</b>
W-Canola	1.7	5	2.7	<b>3.13</b>	1.7	0	2.9	<b>1.53</b>
W-Wheat	4.8	4.1	4.9	<b>4.6</b>	3.4	4	5.5	<b>4.3</b>

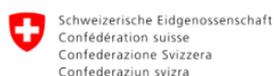
Grains: 85% DM, irrigation and fertilisation: commercial organic fertiliser based on poultry manure and/or slaughterhouse by-products according to crops needs, tillage: ploughing after each harvest; cover crops: oat and vetch

## Crop rotation



Photos: © ISARA

\* Cover crops



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## Machinery

### Tractors

### Power HP

VALTRA N 93 HiTech

99 HP

NEW HOLLAND T6040 ELITE

125 HP

### Cultivation

### Working width (m)

Amazone Cereal seed drill

3

Monosem 5-row planter

3

Monosem inter-row cultivator

3

Cover crop Gregoire and Besson

Pichon 2000 tine harrow

Kuhn 3-furrow plough

Depth (25 cm)

### Harvest

Private Harvester

### Fertilisation

123 Pneumatic Kuhn

2 to 2.5

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