IPM works is a FarmDemo aligned project and is partnered with the IPM Decisions Project.

David Chaillet’s farm: diversification and technical itineraries adapted to production and price potentials

The Farm

- **8 crops** = diversified system including temporary grassland and high value crops for seed production
- **Ploughing before each crop** – 18cm – always in good conditions
- Application of **composted manure** with different maturity levels 15-20 T/ha for each crop
- Investment in a **hoeing machine** for row hoeing and late weeding

**Cultivated agricultural area:** 64 ha

**Livestock Units:** 50 - suckler cows

**Soil type:** 43 % sand, 42 % slit and 15 % clay

**In 2020 transition of sugar beets to extensive**

**Winter wheat seed production: high-input strategy**
- 1 herbicide
- 2 fungicides depending on infestation level
- 1 growth regulator if necessary
- 170 U of N

**Average farm TFI (all crops)**

- 2019: 4.51
- 2020: 2.01
- 2021: 2.61

**Soybean: low-input strategy**
- Diversification crop
- Legume

**Lupin: low-input strategy**
- Diversification crop
- Legume

**Maize: low-input strategy**
- On-farm self-consumption crop

**Winter barley seed production: high-input strategy**
- High prices and production potential

**Grassland: low-input strategy**
- On-farm self-consumption crop

**Oilseed rape: High-input strategy**
- Pre-emergence herbicide
- 0 to 3 insecticides according to infestation level
- 1 growth regulator if necessary

**Costs (CHF/ha)**
- Wheat extenso seed
  - seeds: 270
  - pesticides: 100
  - fertilizers: 420
  - harvest: 300
  - passes: 50
  - Revenues: 2900
- Wheat seed
  - economic product: 270
  - premiums: 0
  - Margin: 2160.

<table>
<thead>
<tr>
<th>Crop</th>
<th>TFI</th>
<th>Yield (sugar)</th>
<th>Price (CHF)</th>
<th>Premiums</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Winter wheat seed</strong></td>
<td>5.9</td>
<td>4.5 T/ha</td>
<td>810 + 220 -/T</td>
<td></td>
</tr>
<tr>
<td><strong>Sugar beet</strong></td>
<td>2.2</td>
<td>5 T/ha</td>
<td>50 -/T</td>
<td>3900 -/T</td>
</tr>
</tbody>
</table>

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