

Vincent Delay's farm: diversification and maximum reduction of chemical inputs



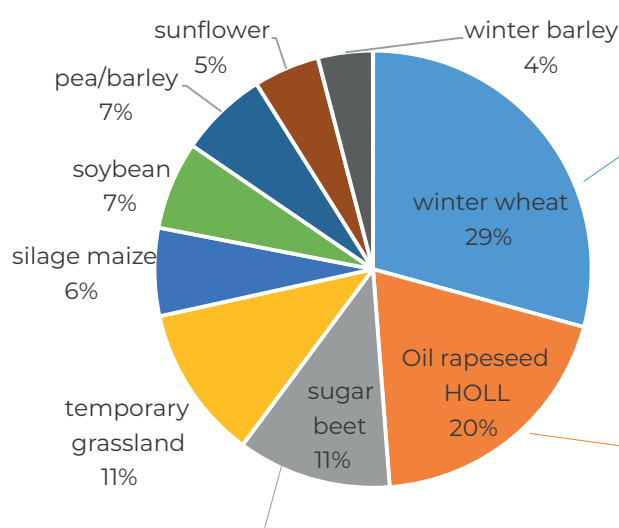
The Farm

Vincent Delay starts farming in 2022 following a previous activity in agricultural machinery

Farm community with his father - two different activities but common crop rotation

Cultivated agricultural area: 77 ha

IPSuisse label and extensive production system since 2020 - Start of the pesticide reduction strategy 8 years ago



- One part: direct sowing in living frost sensitive cover crop – other part: soil preparation without ploughing and sowing
- Varietal mixture
- 2 passes of harrow at the end of winter with incorporation of the fertilizer and undersowing

| TFI (19-21) | Yield | Price (CHF) | Premiums |
|-------------|--------|-----------------|-----------|
| 1.4 | 7 T/ha | 500 + 230 .-/ T | 650 .-/ha |

- Soil cultivation
- Early sowing (before August 15th) with precision seed-drill and localized fertilization, herbicide band application
- Early hoeing (mid-sept) = fast coverage undersowing
- Cutting the rape before winter to avoid elongation (13cm high)
- Biostimulants in autumn and winter

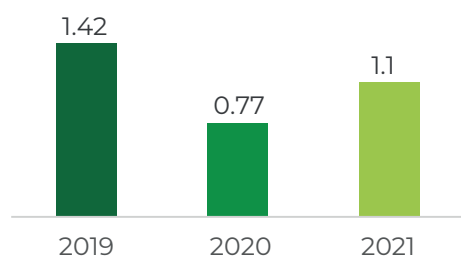
| TFI (19-21) | Yield | Price (CHF) | Premiums |
|-------------|--------|----------------|-----------|
| 1.4 | 4 T/ha | 810 + 220 .-/T | 650 .-/ha |

- Heavy tine cultivator to destroy frozen cover crop then rotary harrow and single-seed drill
- Sulfonylurea-resistant variety
- Fertilization on the row at sowing
- 1 herbicide on the whole surface, later 1 herbicide band application combined with hoeing and row fertilization. Addition of biostimulants and minerals during the crop, including copper for foliar protection
- Flower strips along the plots

| TFI (22) | Yield | Price (CHF) | Premiums |
|----------|---------|--------------------|------------|
| 1.5 | 80 T/ha | 50.-/T + 60.-/10 T | 3900 .-/ha |



Average farm TFI (all crops)



- 9 crops = diversified system including temporary grassland
- Reduced tillage, periodic ploughing, occasional direct sowing
- Access to several sophisticated mechanical weeding and cover destruction machines
- Use of plant health biostimulants and biocontrol products
- Cover crops always sown directly after harvest except after rapeseed (tillage)