



Organic and Biodynamic Wines















Terminology overview

 Organic viticulture: no synthetic chemicals; requires registration

 Organic winemaking: restrictions on some practices, especially limited use of sulfur dioxide

 Biodynamic: a viticulture practice based on principles of Rudolf Steiner; requires registration



Conventional

Organic/ Biological

Biodynamic

Natural

- No synthetic herbicides, fungicides, pesticides, fertilisers
- Can use copper sulfate and elemental sulfur natural (?)
 - Assists in controlling downy and powdery mildew



- No synthetic herbicides, fungicides, pesticides, fertilisers
- Can use copper sulfate and sulfur natural (?)
 - Assists in controlling downy and powdery mildew



France's wine industry can become "the first in the world without glyphosate", President Emmanuel Macron said Saturday at the Paris Agriculture Fair.

Source: France 24

Organic winemaking

Wine from Organic Grapes versus Organic Wine





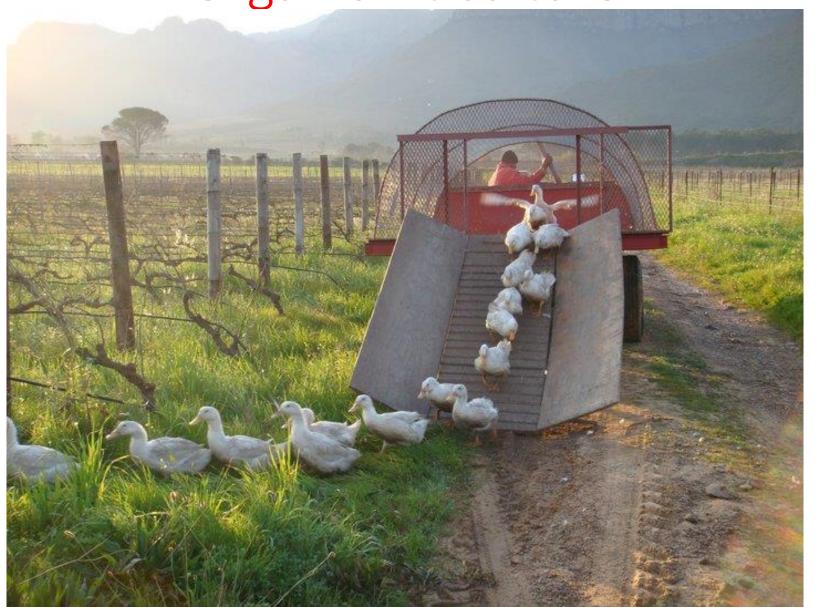
- Limits use of major manipulation: dealcoholisation, electrodialysis
- Long list of approved additives no GMO material
- Limited sulfur dioxide used





Organic

Conventional



Biodynamic viticulture

- Based on the principles set out by Rudolf Steiner in 1924
- Complex management linked to phases of the moon/cosmos
- Natural fertilisers 500 is the best known
 - Cow manure placed in female cow horns over winter
 - Used to make a spray for the soil in spring and summer
- Herbal extracts chamomile, dandelion, valerian...
- Intensive management with significant cost

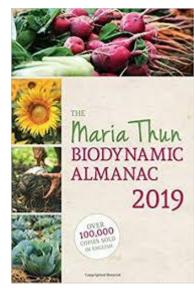
Biodynamic viticulture

Maria Thun calendar

'Besides the lunar phases, the calendar also considers the effect

of other celestial bodies moving in front of the zodiac background.

By knowing and taking into account the calendar, work becomes easier'.



Biodynamic viticulture

Fertiliser 500





SUMMARY

Biodynamic and Organic

- Better soil health
- Disease pressure can be high (site selection critical)
- Crop losses can be high, partly due to downy and powdery Mildew

- Management costs are high
- Reflected in market price point
- But obvious market demand

Resources

Hugh Johnson's Pocket Wine Book 2019

 Henschke Vineyard Management (https://www.henschke.com.au/our-landscape/sustainability/)

• Rudolf Steiner (https://www.biodynamics.com/steiner.html)

Jancis Robinson (*Financial Times Weekend*, 29/30 Sept 2019, p. 19)

'Anyone who has visited a wine region and seen chemicals being sprayed that are so potent that the vineyard workers are clad as if they are investigating a Novichok incident is likely to find organically grown grapes an attractive proposition'