























#### Content

- Quick introduction of the main legal texts
- Organic soil management and fertilisation
- Organic plant protection
- Organic winemaking
- Certification
- Third countries / trade











Adapted from Fibl, 2019

# Organic Regulations worldwide

	Countries with regulations 2018	Countries preparing organic regulations (2018)	
Europe	42	501.510	EU: 28; Non- EU: 14
Americas & Caribbean	22	2	
Asia & Pacific	27	6	
Africa	2	7	
Total	93	16	

2002: 44 Countries worldwide

2015: 87 Countries worldwide



#### Overview of relevant EU legal texts

#### Council Regulation (EC) No 2092/91

- First definitions, outline of organic production
- > No longer in effect

#### Council Regulation (EC) No 834/2007

Replaces regulation 2092/91; Basic regulation

#### Council Regulation (EC) No 889/2008

Detailed regulations to 834/2007; Implementing regulation

#### Council Regulation (EC) No 203/2012

Organic wine production

#### Council Regulation (EC) No 1235/2008

• Import of organic products from non-member states





All legal texts and amendments can be found at the EUR-Lex Web page, e.g. https://eur-lex.europa.eu/legal-content/EN/ALL/?uri=CELEX%3A32008R0889



of 28 June 2007

# on **organic production and labelling** of organic products and repealing Regulation (EEC) No 2092/91



- Aims & Scope
  - Definitions
- Principles of organic farming
- Organic production rules
  - Labelling
- Certification authorities
  - Certification process
- Trade of organic products



#### of 28 June 2007

# on **organic production and labelling** of organic products and repealing Regulation (EEC) No 2092/91

#### Definition of organic farming:

"Organic production is an overall system of <u>farm management and food production</u> that combines best environmental practices, a high level of biodiversity, the preservation of natural resources, the application of high animal welfare standards and a production method in line with the preference of certain consumers for products produced using natural substances and processes. The organic production method thus plays a dual societal role, where it on the one hand provides for a specific market responding to a consumer demand for organic products, and on the other hand delivers public goods contributing to the protection of the environment and animal welfare, as well as to rural development."



## Aims of the directive

Protection of organic farming Consumer confidence / interest Transparency of production Establishing fair competition

**Ensuring functioning of the internal market** 

- Common labelling
- Common control mechanism
  - Administrative issues



#### Art. 4 + 5: Principles of organic production

- Preservation and amelioration of soil fertility
- Minimizing the use of non-renewable resources
- Closed loop economy
- Preservation of plant health
- Optimal choice of species and cultivars, crop rotation, use of beneficial insects
- Site adapted and land related livestock production
- Seeds and plant material from organic production

#### **Bans & Restrictions**

- Ban of GMOs and GMO products
- Ban on ionizing radiation
- Ban on mineral N fertilisation
- Ban on herbicides
- Ban on hydroponics
- Organic fertilizers: max. 170 kg N/ha yr<sup>-1</sup>



# Is it only about farming?

(EU 834/2007) establishes common objectives and principles to underpin the rules set out under this Regulation concerning;

- all stages of production, preparation and distribution of organic (a) products and their control;
- the use of indications referring to organic production in labelling and advertising.



#### **COMMISSION REGULATIO**

laying down detailed rules for the implementation of Council Regulation (EC) No 834/2007 on

organic production and labelling of organic products with regard to organic production, labelling and control



# **COMMISSION REGULATION (EC) No 889/2008**

of 5 September 2008

...contains positive lists which specify all legal

-fertilisers & soil conditioners (Annex I) -Pesticides (Annex II)

All other inputs are illegal



# **COMMISSION IMPLEMENTING REGULATION (EU)** No 203/2012

amending Regulation (EC) No 889/2008 laying down detailed rules for the implementation of Council Regulation (EC) No 834/2007, as regards detailed rules on organic wine



# COMMISSION IMPLEMENTING REGULATION (EU) No 203/2012

#### Regulating the production of organic wine

Technical processes allowed in organic wine production are specified

Annex (VIIIa) contains a positive list comprising

"Products and substances authorised for use or addition in organic products of the wine sector"



#### COMMISSION REGULATION (EC) No

of 8 December 2008

down detailed rules for implementation laying Council Regulation No 834/2007 as regards the arrangements (EC) imports of organic products from third countries

Subject matte

This Regulation lays down the detailed rules for the import of compliant products and the import of products providing equivalent guarantees as provided for in Articles 32 and 33 of Regulation (EC) No 834/2007

Annex III: List of countries with mutual equivalency agreements

**Annex IV**: List of control bodies and control authorities for the purpose of equivalence



# Soil managemen





#### Organic soil management

#### Council Regulation (EC) No 834/2007 - recitals

(12) Organic plant production should contribute to maintaining and enhancing soil fertility as well as to preventing soil erosion. Plants should preferably be fed through the soil eco-system and not through soluble fertilisers added to the soil.

(13) The essential elements of the organic plant production management system are soil fertility management, choice of species and varieties, multiannual crop rotation, recycling organic materials and cultivation techniques. Additional fertilisers, soil conditioners and plant protection products should only be used if they are compatible with the objectives and principles of organic production.





#### Organic soil management

#### Council Regulation (EC) No 834/2007 - Article 5 "Specific principles applicable to farming"

- (a) the maintenance and enhancement of soil life and natural soil fertility, soil stability and soil biodiversity preventing and combating soil compaction and soil erosion, and the nourishing of plants primarily through the soil ecosystem;
- (b) the minimisation of the use of non-renewable resources and off-farm inputs;

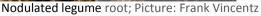


#### Organic soil management

# Council Regulation (EC) No 834/2007 - Article 12 "Plant production rules"

- (a) organic plant production shall use <u>tillage and cultivation practices</u> that maintain or increase soil organic matter, enhance soil stability and soil biodiversity, and prevent soil compaction and soil erosion;
- (b) the fertility and biological activity of the soil shall be maintained and increased by multiannual crop rotation including legumes and other green manure crops, and by the application of livestock manure or organic material, both preferably composted, from organic production;









Picture: Goetz, DLR RLP



# **COMMISSION REGULATION (EC) No 889/2008**

**Annex I: Fertilizers and soil conditioners** 

#### **Authorized agents:**

Farmyard manure, composted or fermented household waste clays, composted or fermented mixture of vetable matter, products of animal origin (horn meal, blood meal, hair, wool etc.), seaweed products, Potassium sulphate, soft ground rock phosphate, Calcium carbonate, Magnesium sulfate, trace elements, guano, aluminium-calcium sulfate, gypsum.

CELEX 32018R1584 EN TXT.pdf



#### Consequences for organic soil management

- Intensivation of humus supply
- Activation of soil fertility as a means to ensure yield
- "Feeding the Edaphon" (soil organisms) "organic" nitrogen out of the humus and the nitrogen fixing cover crop (clover, legumes) or org. fertilisers
- Duty to use winter cover crops or permanent cover crops!
- P, K, Mg and other fertilisers can be used (contained in Annex I)
- Synthetic nitrogen fertilisers are forbidden
- Herbicides are forbidden!



If external inputs are necessary, input should come from certified, organic producers.

However, this is not mandatory. For example, the specification for farmyard manure in Annex I is only that it must not come from factory farming.



Picture: Crystalclear



## Conflicting goals?

- · Mechanic weed control in steep slopes conflicts with the goal of minimizing erosion
- · Alternatives: Hot water treatment, undervine cover crops, bark mulch, undervine mowing
- No-till systems using herbicides have been shown to have a better humus buildup in long-term field experiments compared to tilled plots
- However, tillage can help to increase soil fertility. Sensitive, targeted cultivation to mineralize nutrients when plant demand peaks. Nutrients which are not utilized by vines should quickly be taken up by cover crops.





#### **Provide Nutrients when plant demand peaks!**

In the months of May-July the grapevine has the highest N-demand



Mineralisation under good circumstances takes 6 weeks If possible, no tillage after August!





#### EC No 834/2007 Article 12 Specifies general rules for plant protection:

- (g) the prevention of damage caused by pests, diseases and weeds shall rely primarily on the protection by natural enemies, the choice of species and varieties, crop rotation, cultivation techniques and thermal processes;
- (h) in the case of an established threat to a crop, plant protection products may be used















#### Plant protection products EC No 889/2008 (Annex II)

#### **Pesticides**

Use of synthetic organic fungicides

insecticides and acaricides is forbidde

# Details on organic plant protection in the lecture by Prof. Kauer

- Substances of plant or animal origin 1:
- Micro-organisms or substances produced by micro-organisms 2:
- Substances other that the ones mentioned in 1 and 2 3:





## Concil regulation (EC) No 203/2012

## Rules for the production of organic wine

- Commission implementing regulation 203/2012
- Amends regulation 889/2008 for wine production

laying down detailed rules for the implementation of organic wine

• Start: 2013 with vintage 2012









Concil regulation (EC) No 203/2012

**Oenological processes** 

#### Not allowed!

Partial cryoextraction

Partial dealcoholisation

Remove sulfites via physical methods (vacuum destillation)

**Electrodialys**is

**Cation - Exchange** 

# Concil regulation (EC) No 203/2012



**Oenological additives and treatments** 

#### Not allowed!

**GMOs and Derivates from GMOs** 

Council Regulation (EC) No 834/2007

PVPP, Sorbic acid, Lysozyme,

Dimethyl dicarbonate, Potassium hexacyanoferrate

Not contained in Annex VIIIa

## Concil regulation (EC) No 203/2012 - Annex VIIIa



#### Permitted additives and treatments

Oxygen, Air, Carbon dioxide, Gases:

Nitrogen, Argon

**Filtration:** Perlite, Cellulose, Diatomeaceous ea

#### **Additives:**

Yeast\*, Diammonium phosphate, Thiaminhydrochlorid, Carbon, Proteins from plants \*, Gelatine \*, Isinglas\*, Eggwhite \*, Tannin \*, Casein, Yeast autolysate, Potassium caseinate, Silizium dioxide, Bentonite, Pect. Enzymes, Lactic acid, L(+) Tartaric acid, Calcium carbonate, Potassium bicarbonate, Potassium tartrate, Lactic bacteria, Ascorbic acid, Citric acid, Metatartaric acid, Gummi arabicum \*, Cu-citrate, Cu-sulfate, oak chips, Potassiumalginate

<sup>\*:</sup> if possible produced by organic standarts



#### Max. sulfite contents

#### Wines < 2 g/l Residual sugar:

max. 100 mg/l (konv.: 150 mg/l Red:

max. 150 mg/l (konv.: 200 mg/l) White:

All others:

30 mg/l lower than conventional wines



# Concil regulation (EC) No 203/2012 - Annex VIIIa



"Wine made from organic grapes" is not allowed to carry the EU-organic Label!





# How to become an organic producer?

# The control and certification process







# Control and certification of organic products



Foodstuffs labeled as "organic" or with similar terms must comply with the rules layed out in the EU organic regulations.

#### Consequently,

- All enterprises which produce, process or import organic foodstuffs from a third country,

#### Are obliged to

- Report this acitivity with the responsible authority.
- Undergo a control process.



# Control mechanism (Article 27, 834/2007)

- Every grape and/or wine producer must sign a contract with a nationally recognised control entity
- Specify the regulation after which certification does occur
- Controlled on a yearly basis as a process control. Product control currently only as random sampling or in case of suspicion
- 'competent authority' means the central authority of a Member State competent for the organisation of official controls in the field of organic production in accordance with the provisions set out under this Regulation, or any other authority on which that competence has been conferred to; it shall also include, where appropriate, the corresponding authority of a third country;
- (o) (control authority' means a public administrative organisation of a Member State to which the competent authority has conferred, in whole or in part, its competence for the inspection and certification in the field of organic production in accordance with the provisions set out under this Regulation; it shall also include, where appropriate, the corresponding authority of a third country or the corresponding authority operating in a third country;
- 'control body' means an independent private third party carrying out inspection and certification in the field of organic production in accordance with the provisions set out under this Regulation; it shall also include, where appropriate, the corresponding body of a third country or the corresponding body operating in a third country;



## **Organic certification**

#### **Control entities**

## System A (e.g. Denmark)

• Control authorities (governmental institution, central control)

## System B (e.g. Germany)

Control bodies (private, govt-central-controlled)

## System C (e.g. Luxemburg)

Mixture of Control bodies and authorities



# **Duties of competent authorities**



## D: Länder / BLE (Bundesamt für Landwirtschaft und Ernährung)

Accreditation of private control bodies (BLE

Supervision of the execution of the control process by the control bodies

Identification and registration of all enterprises under the control mechanism

Sanctions in case of grave violations of the enterprises

Issuing permissions for the resale of organic products from third coutries (BLE)

Delivery of reports to the EU comission

#### Duties of the control authorities/bodies



- · Reporting enterprises to control authorities
- Execution of local controls within the agricultural companies and companies processing, importing or trading goods labeled as organic
- Certification
- Sanctions in case of minor or medium violations of the enterprises
- Delivery of reports to the control authorities

#### **Control and certification**



Responsible competent authorities and control bodies in the EU are listed on the organic farming information system (OFIS) of the EU comission:

https://ec.europa.eu/agriculture/ofis public/actor cbeu/ctrl.cfm?targetUrl=home







# **Control and certification, Example Germany**

# Control bodies for certification after EG 839/07 and 889/08 with "viticultural expertise" (6/23)

Gesellschaft für Resource	nschutz (DE-Öko-039)
LACON	(DE-Öko-003)
Kontrollverein Öko-Landb	
ABCert	(DE-Öko-006)
<b>Ecocert IMO</b>	(DE-Öko-005)

Yearly cost of certification: Winery with 10-20 ha, ca. 800 Euro.

Control by organic associations also possible!



## Control and certification of organic products

## **Operational Control Number**

#### **Areas of control:**

**Agricultural production** A:

**Preparation and processing** 

Import from non-member sta

**External contractors** 

0: used when area of control does not app

## **Procedure:**

Contract with control body + Report at competent authority:

Operational control number is issued:

D-BW-006-4795-ABOD

Country code-regional code-control body code-enterprise number-area of control

# **Control process**

## **Agricultural enterprises**



## **Description of the enterprise:** (continuous documentation)

- Name, Adress, Employees
- Plan of site and buildings
- Land register maps
- Field plot plan (EU-Weinbaukartei)
- Register of the last conventional treatment per field plot

# **Duty of Documentation:** (Compiled per year)

- Soil management measure and fertilisation (field plot)
- Plant protection measures (field plot)
- Documentation about origin, type and quantity of extrenally purchased means of production (Plants, N-Fertiliser, PPP)
- Documentation about quantity of production, buyers of the product
- Price lists, labels, advertising material etc.
- Vineyard inspection
- + Specific association-dependent documentation (if applicable) (E.g.: Copper-use, Processing procedures)

# **Control process: Contract processors**



#### Certified contract operators/processors

Processing procedures in the framework of processing conctracts: Documentation and control are established and simple.

#### Not certified contract operators/processors

Contract processing can also be done with not certified contract processors.

Written agreement between contract operator and (certified) client.

The agreement must document:

- The client is responsible for the process (Ingredients/ raw materials/process)
- Contractor accepts control of his company
- Specific agreements concerning the process are to be made (Rent of location/equipment, Delivery dates, Volumes to be processed, Time frame for processing)
- Separation of organic and conventional products
- Documentation of cleaning process ect. must be established.

## Notify the control body!! Not certified contractors will be controlled at the expense of the contracting entity!

# Council regulation (EC) 834/07: Principles of Production



## **Conversion of businesses (Perennial cultures)**

Starts with signing the contract with a control body and reporting of the enterprise to the competent auhtority

1st fully certified product after a 36 month conversion period

E.g.: Contract with control body and last conventional treatments: 8/2015

conventional product Vintage 2015:

1. Harvest as conversion product Vintage 2016:

(12 Months after start of conversion)

Vintage 2017: 2. Harvest as conversion product

(24 Months after start of conversion)

Vintage 2018: Harvest as certified organic product

(36 Months after start of conversion)

Problem with rent or acquisition of new vineyards!

# Control and certification of organic products



# **Conclusion of the conversion process**

#### Certificate is issued

Declaration of the certification on the product + EU Bio-Label (from 1.7.2010) is mandatory

For wine from vintage 2012 onwards!

List of all certified enterprises in the EU http://www.bioc.info





# Labelling

#### Minimum of declaration

Number of the certification authority DE – 039- Öko-Kontrollstelle Origin of the product **Deutsche Landwirtschaft** EU organic logo (prepacked foodstuffs

## **Optional declaration:**

Logos of Member State Logo of "Organic association" Logo of a discounter Logo of the certification authority



https://ec.europa.eu/info/sites/info/files/food-farming-fisheries/farming/documents/organiclogo-user-manual en.pdf



# Membership in organic farming associations

- Optional
  - Specific rules at least as strict as EU regulations
- Certification by control bodies

Wine specific organisations, example Germany

	Wineries	Vineyards (ha)	6 :10
ECOVIN	233	2356	2018





# Following lecture by R. Dejas will detail specifics on farming assicioations

Biokreis	4	50*	2018
Associated Wineries	634	5299	66 %
EU-certified only	3???	ca. 2700	34 %
Germany		8000	











## **Biodynamic certification**

- In the EU, Demeter or Biodyvin are regarded as standards and can be certified by other control bodies
- · In the US, Demeter itself is the only control body certifying biodynamic production
- While many recommendations are made the focus of certification is normal organic certification + use of biodynamic preparations and compost







# A short glimpse into other countries: USA

- USDA National organic program (NOP) administers organic regulations
  - · List of prohibited and allowed substances
  - Cultural practices
- Certification by private, foreign, or State entity accredited by the USDA
- Submission of an organic system plan (OSP)
- 3-yr transition period after the last use of prohibited substances
- Yearly recertification

- Organic wine: 100% from organic grapes, no sulfites added, enoglogical products need to be organic
- Wine from organic grapes: max. 100 mg/L total SO2, enoglogical products don't need to be organic



## A short glimpse into other countries: Australia

Hochschule Geisenheim Universitu

- Similar to the EU
- National standard for organic and biodynamic produce
- Dept. of biosecurity controls certifying bodies
- Each control body issues own organic label
- 3-yr transition period similar to EU system











# Import of organic products

EC Regulation (EC) No. 834/2007, Art. 33 Par. 2 and 3

EC Regulation (EC) No. 1235/2008

## Importer must be certified

List of countries with equivalency agreements (Annex III)\*

Some countries (e.g. US, Argentina) equivalency agreement signed before (EC) No 203/2012

Rules of the destination country apply

List of accepted certifiying institutions (competencies do often not extend to wine)



<sup>\*</sup>Argentina, Australia, Canada, Chile, Costa Rica, India, Israel, Japan, New Zealand, Republic of Korea, Switzerland, Tunisia, USA



# **Export of organic products**

- In the frame of trade agreements, the EU is determined to ease the export of organic products and the acceptance of the EU organic certification
- Reciprocal equivalency agreements
- Wine often not included when outdated by 203/2012
- U.S.: NOP-certification necessary (accepted by CAN)







EU organic producers need an efficient and competent legislative to facilitate trade with important third country markets and keep setting up-to-date standards.

Lets keep up the good work!

