



Animal Health Matters.
For Safe Food Solutions.



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Federal Department of Economic Affairs,
Education and Research EAER
State Secretariat for Economic Affairs SECO



Feeding and quality control of feed and water

Viktoria Lets, National Lead Expert





http://astv.ru/club/blog/utro/uST3u5roPUm_gPlq3jTgsA



Feeding and quality control of feed and water



Quality and safe feed

zooflora.ru



Grassia.ru



**Safe & high-quality
dairy products**



LoveMilk.info



EU legislation



REGULATION (EC) No 1831/2003 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

of 22 September 2003

on additives for use in animal nutrition

(Text with EEA relevance)

THE EUROPEAN PARLIAMENT AND THE COUNCIL OF THE EUROPEAN UNION,

Having regard to the Treaty establishing the European Community, and in particular Articles 37 and 152(4)(b) thereof,

Having regard to the proposal from the Commission ⁽¹⁾,

Having regard to the opinion of the European Economic and Social Committee ⁽²⁾,

Following consultation of the Committee of the Regions,

Acting in accordance with the procedure laid down in Article 175 of the Treaty,

REGULATION (EC) No 767/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

of 13 July 2009

on the placing on the market and use of feed, amending European Parliament and Council Regulation (EC) No 1831/2003 and repealing Council Directive 79/373/EEC, Commission Directive 80/511/EEC, Council Directives 82/471/EEC, 83/228/EEC, 93/74/EEC, 93/113/EC and 96/25/EC and Commission Decision 2004/217/EC

(Text with EEA relevance)

THE EUROPEAN PARLIAMENT AND THE COUNCIL OF THE EUROPEAN UNION,

Having regard to the Treaty establishing the European Community, and in particular Articles 37 and 152(4)(b) thereof,

Having regard to the proposal from the Commission,

(2) The production of feed is an important end for European agricultural products, given that most of the materials used for the production of feed are agricultural products listed in Annex I to the Treaty. Furthermore, feed is of crucial significance for the 5 million livestock farmers in the Community because it represents the greatest expense.



Harmonization of the Ukraine legislation

- Today the two draft laws on feed were registered in the parliament. They aimed at the implementation of harmonization of Ukrainian legislation with European. namely:



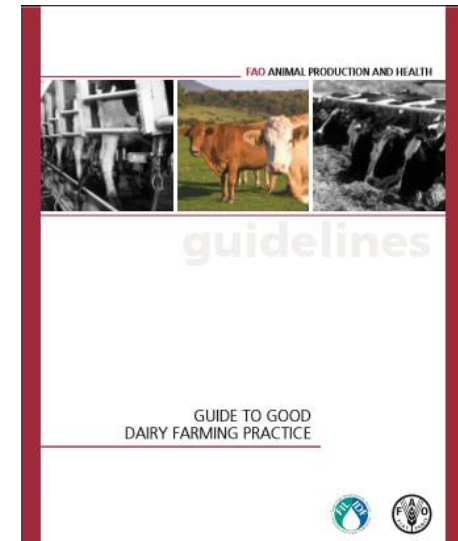
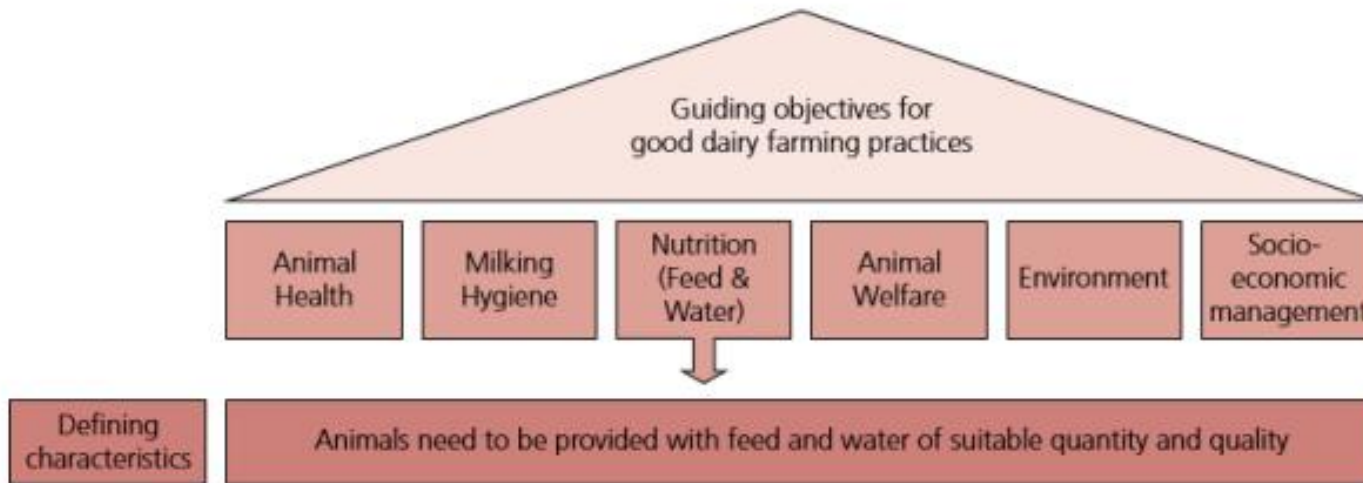
The draft of law №2845 «On the safety and hygiene of feed»,

The draft of law №2845-1 «On the feed».

The both draft laws included provisions of EU regulations. At the same time, the ways in which proposed to implement EU norms in mentioned draft laws are different.



Feeding in good dairy farming



- Secure feed and water supplies from sustainable sources.
- Ensure animal feed and water are of suitable quantity and quality.
- Control storage conditions of feed.
- Ensure the traceability of feedstuffs brought on to the farm.

Джерело : FAO and IDF. 2011. Guide to good dairy farming practice. Animal Production and Health Guidelines. No. 8. Rome.



Quality, storage control, and traceability of feedstuff

- What are the requirements for feed entering the farm?

Provider

Certified feed

Accounting of feed on the farm



The main parameters in animal feeding:

- The space



<http://jcvbyju.com/wiki/181712>



<http://kgoi.ru/kormushku-dlya-korovy-svoimi-rukami-foto/>



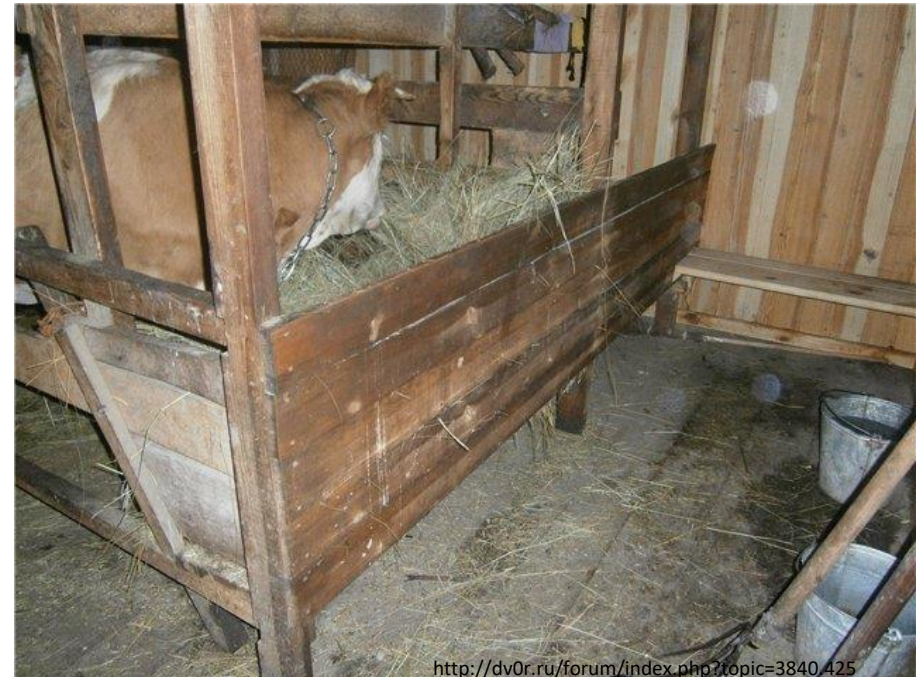
The main parameters in animal feeding:

- The hierarchy



The main parameters in animal feeding:

- Natural position



The main parameters in animal feeding:

- The frequency of feed consumption



The main parameters in animal feeding:

The surface of the feeding table

What should be done



Avoid!



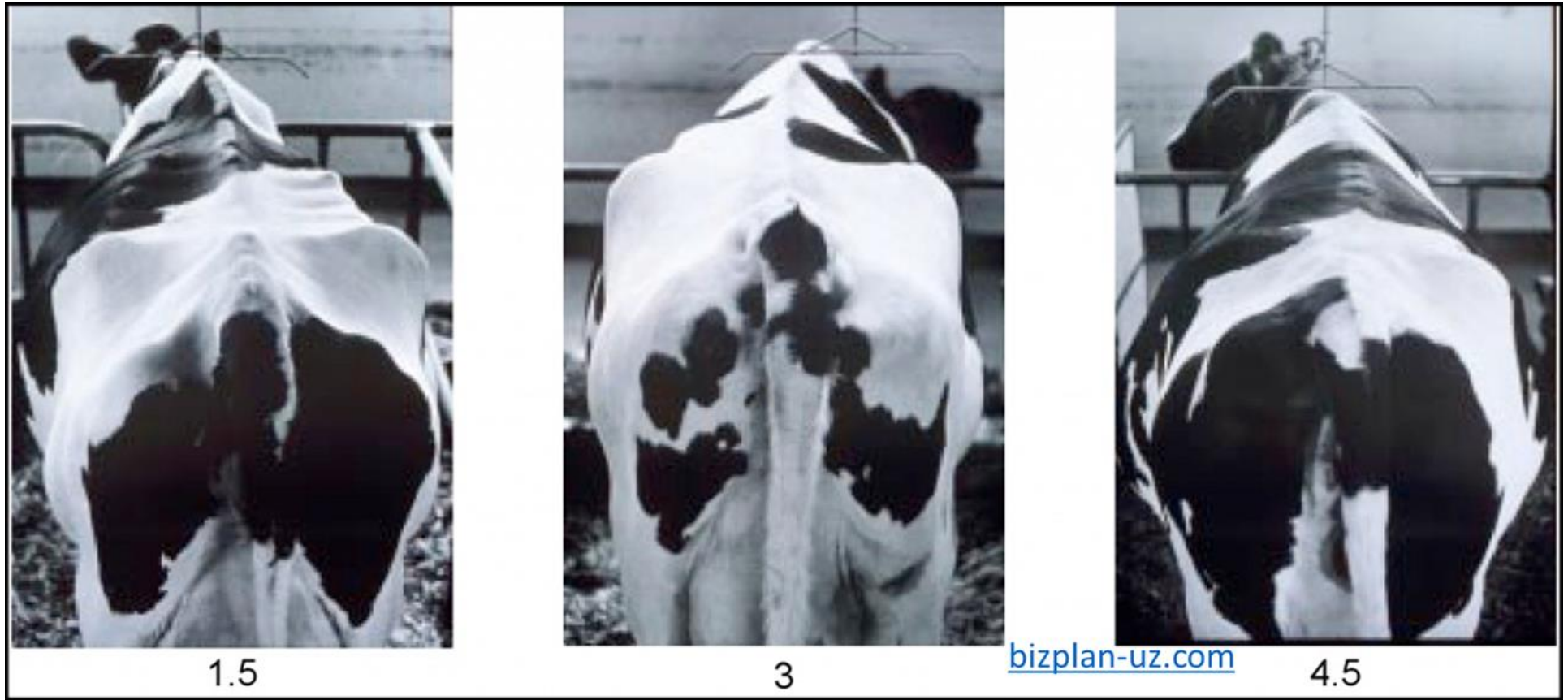
The main parameters in animal feeding:

- Cleaning of feed table



The main parameters in animal feeding:

- The fatness



The main parameters in animal feeding:

- The assessment of digestibility of feed

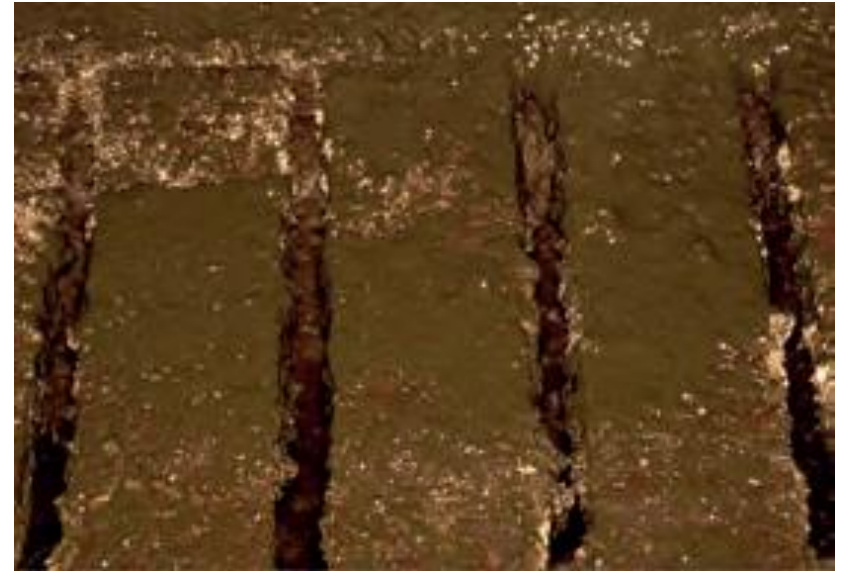


The main parameters in animal feeding:

- The assessment of manure



The best option



Fluid feces

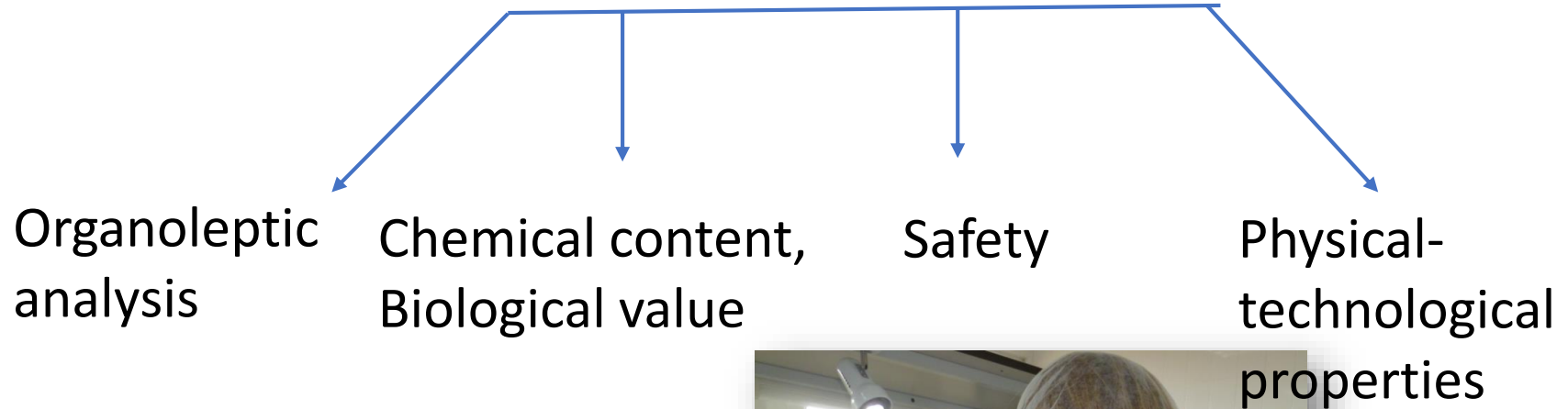


Dense feces



Quality and safety control of feed

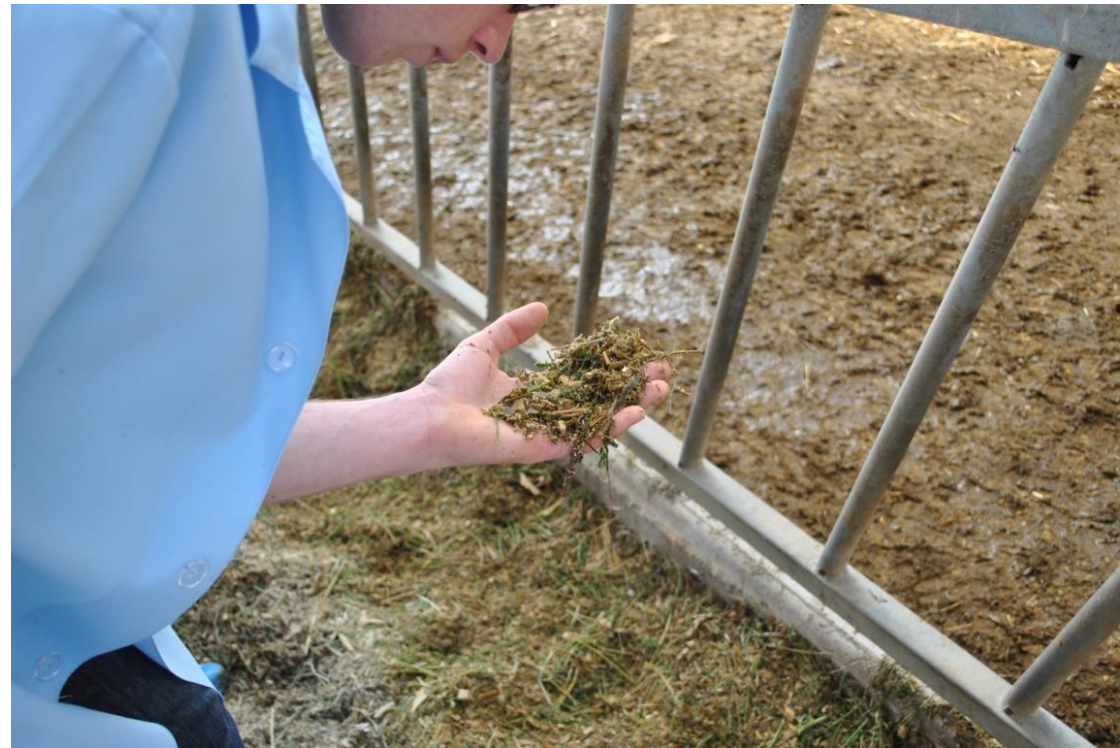
The feed



Quality, storage control, and traceability of feedstuff

What organoleptic methods for determination of the quality of feed do you know?

- appearance
- color
- smell
- preservation
- integrity of species composition
- vegetative stage



Quality, storage control, and traceability of feedstuff

Chemical methods:

The nutritiousness

- protein
- fat
- cellulose
- sugar
- minerals
- amino acids
- carotene
- organic acids

The presence of toxins, harmful substances

- fertilizers
- organochlorine compounds
- alkaloids
- glycosides
- mycotoxins



Quality, storage control, and traceability of feedstuff

The chemical composition, biological value



Quality, storage control, and traceability of feedstuff

The safety

Through the feed can be transmitted:

- molds and their mycotoxins
- pathogens
 - infectious diseases
 - invasive disease
 - toxic infections



Quality, storage control, and traceability of feedstuff

Avoid feeding dairy cows feed contaminated with fungi,
as they may contain toxic mycotoxins



Quality, storage control, and traceability of feedstuff

Physical and technological methods

- dry substance
- humidity
- the degree of grinding
- flowability
- presence of sand
- soil
- metal



Quality, storage control, and traceability of feedstuff

What is required for obtainment of first-class feed?

- organized system of harvesting and storing
- organized system of quality control



Quality, storage control, and traceability of feedstuff

- Procedural violation of silo harvesting



Quality, storage control, and traceability of feedstuff

- Density at dispatching of feed:



Фото: Анна Мария Миллерundefined

Quality, storage control, and traceability of feedstuff

What should be done



Avoid!



Quality, storage control, and traceability of feedstuff

- Silage cut



Quality, storage control, and traceability of feedstuff



<http://shpolyanochka.com/suspilstvo/1361-tyukuemo-sino-sami>



<http://agro-semena.com.ua/uk/>



Water quality

Water - the most important feed!

- Free access
- Clean
- Not below 5°C



Water quality

By which criteria control the quality of water?

- temperature
- transparency
- color
- smells
- flavors

- Content of
 - iron
 - magnesium
 - sulphates
 - rigidity
 - acidity
 - E. coli





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Thank you!

