

FOOD AND VETERINARY AGENCY OF REPUBLIC OF NORTH MACEDONIA

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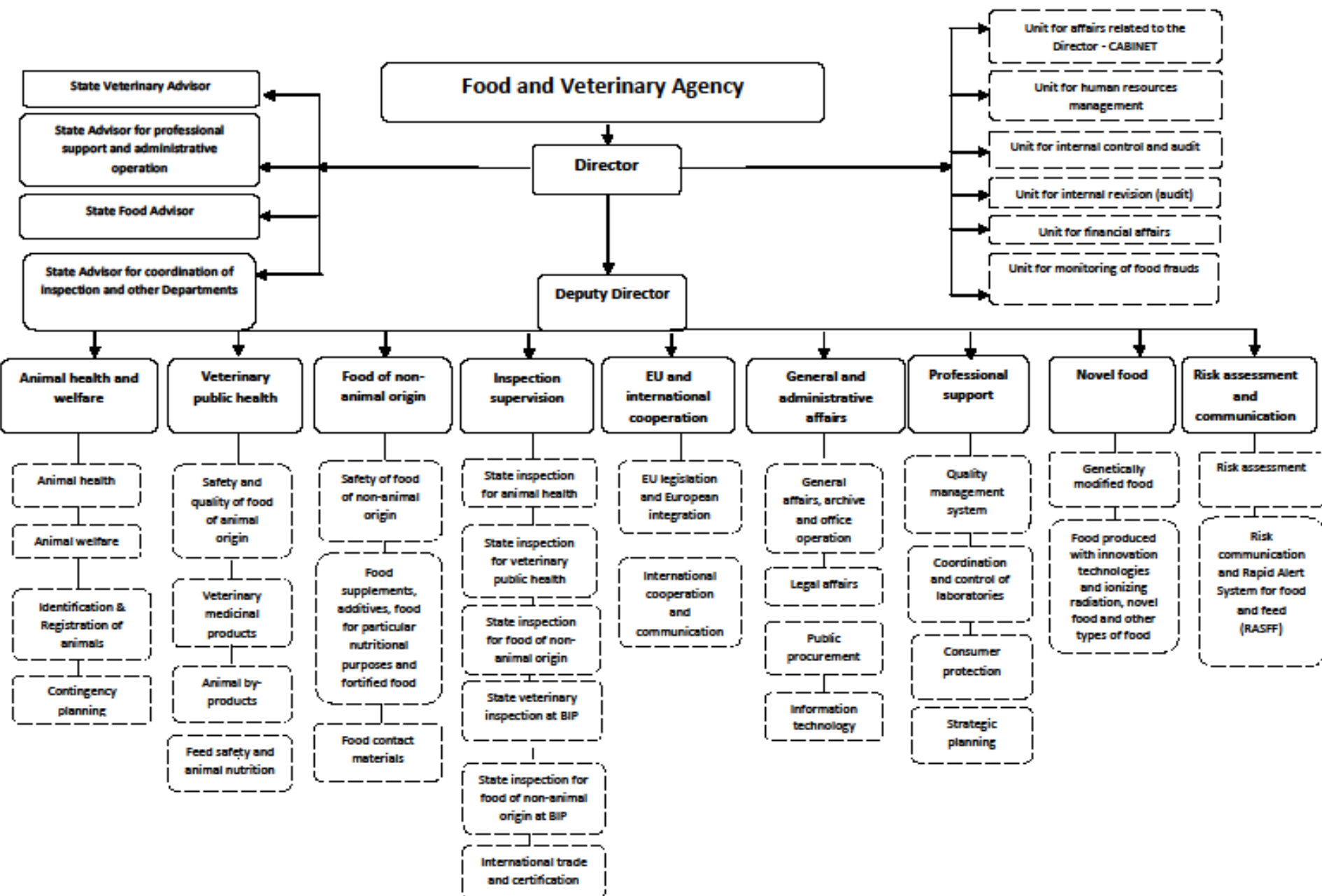
Food and Veterinary Agency

- an independent body of the public administration and was established on January 01, 2011.
- competent for performing:
 - activities related to safety of food and feed at all stages of production, processing and distribution;
 - implementation, control, surveillance and monitoring of veterinary activities in the field of animal health and welfare;
 - veterinary public health, as well as control on national reference laboratories and authorized laboratories supporting the needs of the FVA.

Organizational structure

The FVA is organized in 3 levels:

- **Central level** 9 Departments (31 units)
6 independent units
- **Regional level** 28 regional offices
10 BIPs
- **Local level** Private veterinary practices responsible for certain animal health measures regarding AH controls



Legal basis

- Law on food safety
- Law on veterinary health
- Law on feed safety
- Law on identification and registration of animals
- Law on protection and welfare of animals
- Law on animal by-products
- Law on veterinary medicinal products

Legal basis

Transposition of EU legislation

- 2001 Stabilization and association Agreement
- 2005 Candidate country
- 2008 EC recommendation for starting the negotiations
- 2018 Initiation of the screening process

260 Book of Rules/secondary legislation

International cooperation

Food and Veterinary Agency is national contact point for:

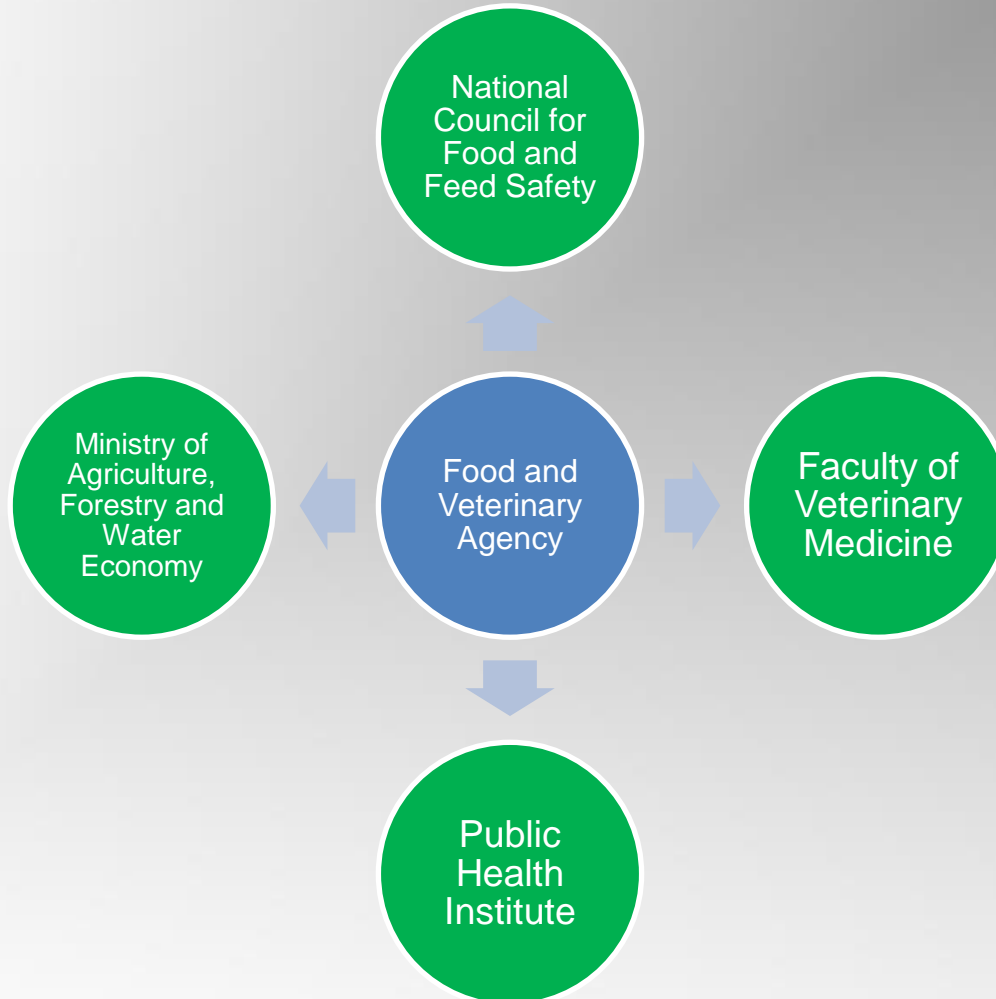
- EFSA
- OIE
- Codex Alimentarius
- WTO (national inquiry point for SPS measures)
- IAEA (counterpart institution)

Cooperation with EFSA

- Advisory Forum & Focal Point networks

SN - observers	DATA
Animal Health Animal Welfare	Zoonosis (Animal population, disease status, prevalence, FBO)
Chemical contaminants	AMR
VMP	Chemical monitoring (Pesticide residues, VMPPR, Chemical contaminants)
AMR	Data consumption
Pesticides	
Data consumption	
Plant health	

National RA Network



National Council for Food and Feed Safety

Standing body established in 2015 (Law on Food Safety)

19 members designated by the Government

Scientific support for effective and timely measures for risk management, risk assessment activities related to food and feed safety, nutrition, animal health and welfare, protection of plant health.

National Council for Food and Feed Safety

Food and Veterinary Agency	Faculty of Human Medicine	Institute for Epidemiology and biostatistics	Public Health Institute
Faculty of Veterinary Medicine	Agriculture Institute	Faculty of Agriculture Science and Food	Livestock breeding Institute
Faculty of Mathematical Sciences (Biology and Chemistry Departments)	Ministry of Agriculture, Forestry and Water Economy	Ministry of Environment and Physical Planning	Ministry of Health
Faculty of Technology and Metallurgy	Faculty of Pharmacy	Consumer organization	Chambers of Commerce (3)

Faculty of Veterinary Medicine - FVM


Faculty of Veterinary
Medicine

Food Institute

Veterinary Institute

Institute for Reproduction
and biomedicine

FVM - Food Institute

- Laboratory for microbiology of food and feed
 - Laboratory for food and feed quality
 - Laboratory for residues and contaminants
 - Laboratory for quality of raw milk
 - Laboratory for pharmacology and toxicology
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FVM – Veterinary Institute

- Laboratory for microbiological testing
- Laboratory for serology and molecular diagnostic
- Laboratory for parasitology and parasitic diseases
- Laboratory for TSE
- Laboratory for diagnostics of fish, bees and hunting wild game diseases
- Laboratory for pathology and patohystology
- Laboratory for pathophysiology
- Laboratory for Rabies diagnostics
- Laboratory for hygiene of animals and protection of environment
- Cabinet for visual diagnostics

FVM - Institute for Reproduction and Biomedicine

- Laboratory for production, cryoconservation and control of semen
- Laboratory for assisted reproduction
- Plastination laboratory
- Laboratory for histology and embryology
- Laboratory for Biochemistry and Cell Biology
- Animal Genetics Laboratory

Public Health Institute - MH

Department for control and prevention of transmissible human diseases

Department for health ecology

- Food safety
- Safety of water and sanitation of the environment
- Physiology and monitoring of nutrition

Department for promotion, analysis and monitoring of non-contagious diseases

Department for analysis and control of medicinal products for human medicine

Center for reference laboratories

MAFWE – Phytosanitary Directorate

- Department for Plant Health
 - Unit for plant health protection and diagnostic of diseases and pests
 - Unit for regional centers - laboratories
- Department for Agro-chemistry
 - Unit for plant protection products
 - Unit for fertilizers
- Department for phyto-sanitary regulation and management

EFSA DATA COLLECTION

- **Zoonosis** (animal population, disease status, prevalence and FBO)
- **Chemical monitoring** (pesticides, VMP & chemicals)
- **AMR**
- **Consumption data** (data obtained through the EFSA financed “EU menu project for children”)

EFSA DATA COLLECTION

1st data reporting on zoonoses for 2017

The information covered occurrence of zoonotic diseases and agents in animals, foodstuffs and in some cases also in feedingstuffs. The report also includes data on AMR in some zoonotic agents and indicator bacteria as well as information on epidemiological investigations of foodborne outbreaks.

Complementary data on susceptible animal populations in the country have also been provided. The information given covers both zoonoses that are important for the public health in the whole European Union as well as zoonoses, which are relevant on the basis of the national epidemiological situation.

The report describes the monitoring systems in place and the prevention and control strategies applied in the country.

ANIMAL POPULATION TABLES

Table Susceptible animal population

Animal species	Category of animals	Population		
		holding	animal	slaughter animal (heads)
Cattle (bovine animals)	Cattle (bovine animals)	25,044	214,170	10,829
Pigs	Pigs - breeding animals - unspecified - boars		710	
	Pigs - breeding animals - unspecified - piglets		44,881	
	Pigs - breeding animals - unspecified - sows		14,499	
	Pigs - fattening pigs			174,393
	Pigs - fattening pigs - unspecified		42,172	
Sheep and goats	Sheep and goats	9,669	819,771	221,817

DISEASE STATUS TABLES

Table Bovine brucellosis in countries and regions that do not receive Community co-financing for eradication programme

Region	Number of herds with status officially free	Number of infected herds	Total number of animals	Number of herds tested under surveillance	Number of animals tested under surveillance	Total number of herds
Macedonia The Former Yugoslav Republic Of	0	78	203,139	20,395	158,840	22,194

Table Ovine or Caprine brucellosis in countries and regions that do not receive Community co-financing for eradication programme

Region	Number of herds with status officially free	Number of infected herds	Total number of animals	Number of herds tested under surveillance	Number of animals tested under surveillance	Total number of herds
Macedonia The Former Yugoslav Republic Of	0	97	819,771	6,608	412,978	8,246

DISEASE STATUS TABLES

Table Bovine tuberculosis in countries and regions that do not receive Community co-financing for eradication programme

Region	Number of herds with status officially free	Number of infected herds	Total number of animals	Number of animals tested with tuberculin routine testing	Total number of herds
Macedonia The Former Yugoslav Republic Of	0	78	203,139	174,967	22,194

FOODBORNE OUTBREAKS TABLES

Foodborne Outbreaks: summarized data

Causative agent	Food vehicle	Outbreak strenght							
		Strong				Weak			
		N outbreaks	N human cases	N hospitalized	N deaths	N outbreaks	N human cases	N hospitalized	N deaths
Escherichia coli	Tap water, including well water	3	125	3	0				
Salmonella	Meat and meat products	1	46	13	0	1	47	7	0
Staphylococcal enterotoxins	Cheese					1	5	1	0
	Other foods	1	123	0	0				
	Buffet meals	1	6	0	0				
	Unknown					2	51	7	0
Unknown	Tap water, including well water					1	777	2	0
	Unknown					1	17	2	0

Strong Foodborne Outbreaks: detailed data

Causative agent	Other Causative Agent	FBO nat. code	Outbreak type	Food vehicle	More food vehicle info	Nature of evidence	Setting	Place of origin of problem	Origin of food vehicle	Contributory factors	Comment	N outbreaks	N human cases	N hosp.	N deaths
Escherichia coli	Not Available	N_A	General	Tap water, including well water	Water	Descriptive environmental evidence; Detection of causative agent in food vehicle or its component • Symptoms and onset of illness pathognomonic to causative agent	Multiple places of exposure in one country	Water distribution system	Former Yugoslav Republic of Macedonia, the	Water treatment failure	N_A	3	125	3	0
Salmonella	Not Available	N_A	General	Meat and meat products	Burgers	Descriptive environmental evidence; Detection of causative agent in food vehicle or its component • Symptoms and onset of illness pathognomonic to causative agent	Take-away or fast-food outlet	Take-away or fast-food outlet	Former Yugoslav Republic of Macedonia, the	Infected food handler; inadequate heat treatment	N_A	1	46	13	0
Staphylococcus enterotoxins	Not Available	N_A	General	Other foods	Pasta	Detection of causative agent in food vehicle or its component • Symptoms and onset of illness pathognomonic to causative agent; Analytical epidemiological evidence	Canteen or workplace catering	Canteen or workplace catering	Former Yugoslav Republic of Macedonia, the	Storage time/temperature abuse	N_A	1	123	0	0
				Buffet meals	Rice with chicken	Descriptive environmental evidence; Detection of causative agent in food vehicle or its component • Symptoms and onset of illness pathognomonic to causative agent	Canteen or workplace catering	Canteen or workplace catering	Former Yugoslav Republic of Macedonia, the	Cross-contamination	N_A	1	6	0	0

Weak Foodborne Outbreaks: detailed data

Causative agent	Other Causative Agent	FBO nat. code	Outbreak type	Food vehicle	More food vehicle info	Nature of evidence	Setting	Place of origin of problem	Origin of food vehicle	Contributory factors	Comment	N outbreaks	N human cases	N hosp.	N deaths
Salmonella	Not Available	N_A	General	Meat and meat products	BBQ products	Descriptive environmental evidence; Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Former Yugoslav Republic of Macedonia, the	Infected food handler	N_A	1	47	7	0
Staphylococcus enterotoxins	Not Available	N_A	General	Cheese	white cheese	Descriptive environmental evidence; Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Restaurant or Cafe or Pub or Bar or Hotel or Catering service	Former Yugoslav Republic of Macedonia, the	Unknown; Infected food handler	N_A	1	5	1	0
				Unknown	N_A	Descriptive environmental evidence; Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent	Canteen or workplace catering	Canteen or workplace catering	Former Yugoslav Republic of Macedonia, the	Unknown	N_A	1	44	0	0
				Unknown	N_A	Descriptive environmental evidence; Detection of causative agent in food vehicle or its component - Symptoms and onset of illness pathognomonic to causative agent	School or kindergarten	School or kindergarten	Former Yugoslav Republic of Macedonia, the	Unknown	N_A	1	7	7	0
Unknown	Not Available	N_A	General	Tap water, including well water	suspected source was water distribution system, no positive results	Descriptive environmental evidence	Multiple places of exposure in one country	Water source	Former Yugoslav Republic of Macedonia, the	Unknown	N_A	1	777	2	0
				Unknown	N_A	Descriptive environmental evidence	Others	Not Available	Not Available	Not Available	N_A	1	17	2	0

National contacts

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Thank you for your attention