

**PESTICIDE RESIDUE CONTROL RESULTS**

**NATIONAL SUMMARY REPORT**

**Year: 2018**

Country: Romania

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## 1. Romania

### 1.1. Name of the national competent authority/organisation

In Romania three Competent Authorities are involved in elaboration and implementation of National Control Programme for pesticides residues: National Sanitary Veterinary and Food Safety Authority (NSVFSA), Ministry of Agriculture and Rural Development (MARD) and Ministry of Health (MH).

Web address where the national annual report is published: [www.ansvsa.ro](http://www.ansvsa.ro), [www.madr.ro](http://www.madr.ro)

## 2. Objective and design of the national control programme

### 2.1. Objective

National Sanitary Veterinary and Food Safety Authority (the coordinator) has the responsibility for preparing the National Multiannual Control Programme for pesticides residues in cooperation with the other two CAs. NSVFSA also has the responsibility for elaboration and implementation of its own National Programme for Surveillance and Control for food of plant and animal origin.

Implementation of National Programme for Surveillance and Control for food of plant and animal origin is performed by Sanitary Veterinary and Food Safety County Divisions and BIPs.

The Programme sets the samples of food of plant origin from Member States and third countries, the point of sampling, the active substances to be analyzed.

The number of active substances analysed is 180 for fruits, vegetables and cereals, and 150 for olive oil and tea.

Romanian Ministry of Agriculture and Rural Development has the responsibility for national monitoring plan of pesticides residues in fruits, vegetables, cereals from domestic market.

Implementation of monitoring programme is performed by MADR through Laboratory for Pesticides Residues Control in Plants and Vegetable Products and Zonal Laboratory for Pesticides Residues determination in Plants and Vegetables Products – Mures, which analyses the samples taken by Counties and Bucharest Phytosanitary Units.

In the monitoring programme of MARD for 2018, samples from 49 agricultural products were planned and 1717 samples were analyzed. The number of active substances analyzed were 249.

Ministry of Health is responsible for food for special nutritional purposes.

MH realises monitoring and control of pesticide residues in food for special nutritional purposes within the National Program for monitoring of environmental and worklife determinants – Subprogram for public health protection by preventing diseases associated with food and nutrition risks factors.

Ministry of Health analysed 42 samples in 2018. All of them complied with the legislative provisions

## 2.2. Design

The selection of the products that were tested for pesticides residues determination is made taking into consideration the following factors listed below:

- Food commodities with high residues/non-compliance rate in previous monitoring years;
  - all data from the last three years were compared and the products with high residues levels were selected to be analysed at a higher frequency: lettuce, spinach, apple, parsley leaves, lemons, grapefruit, mandarins, oranges, pappers, tomatoes, table grapes and wine grapes.
- Origin of food
  - compared with 2016 and 2017, in 2018 the number of samples analysed for pesticide residues from domestic market has been increased (from 48% in 2017 to 49,1% in 2018) and the one from EEA has been reduced (from 8,6% in 2017 to 6% in 2018). For samples from Third Countries the number of samples has been increased (from 42% in 2017 to 44,6% in 2018) - as presented in the table 1

**Table 1:** Summary results by sample origin

Origin of samples	2016 (%)	2017(%)	2018(%)
Domestic market	57	48	49,1
European Economic Area	9	8,6	6
Third countries	32.7	42	44,6
Unknown	1.3	1,2	0,3

- Sampling at different marketing levels: farm gates, wholesaler, import activities, border inspection activities, farming, slaughtering,
- Sampling of products during main marketing season/outside of main marketing season (e.g. citrus fruits during the autumn and winter),
- Rapid Alert System for Food and Feed notifications and all other useful information,
- Food for the sensitive consumer groups, e.g. baby food,
- Importance of the commodity in the country production, the national statistical data presented by National Institute of Statistics (Production of the main agricultural products per inhabitant). Thus a great number of samples were planned for cereals (wheat), fruits (apples, grapes) and vegetables (potatoes, tomatoes),
- Food commodities not included in the EU coordinated programme

For defining pesticides that are included in national control programmes the following aspects were taken into consideration,

- The pesticides included in the EU coordinated programme,
- Use pattern of pesticides,
- Cost of the analysis: multiple methods,
- capacity of laboratories,
- Toxicity of the active substance.

## 3. Key findings, interpretation of the results and comparability with the previous year results

### 3.1. Key findings

In 2018 a total number of 4809 samples were taken in order to check the MRL's compliance of pesticide residues in different crops. From these, 4596 samples there were sampled under surveillance strategy and 213 samples were sampled under enforcement strategy. In 2018 were analyzed 10 organic samples.

A number of 4237 samples were fruits and nuts, vegetables and other plant products, 158 samples of cereals, 5 samples of fish products, 42 samples of baby food, 194 samples of animal products and 173 samples of processed products.

From the total number of the 4596 surveillance samples that include fruit, vegetables, cereals, processed products (including baby food) and animal products, 2186 were produced in Romania, 284 samples were produced in EU, and 2126 samples were produced outside of the EU.

**Table 2:** Summary results

Samples	2016	2017	2018
Total	4692	5773	4809
Without residues (%)	3372 (72%)	4754 (82,35%)	3101(64,48%)
With residues below MRL (%)	1247 (26.6%)	1019 (17,65%)	1563(32,50%)
Exceeding (%)	73 (1.6%)	61 (1%)	145(3,02%)
Non compliant (%)	20 (0.4%)	24 (0,42%)	90(1,87%)

### 3.2. Interpretation of the results

The most frequent pesticides detected in

- the animal products were: Fipronil, Fipronil (sum Fipronil and sulfone metabolite (MB46136) expressed as Fipronil, DDT (sum of p,p'-DDT, o,p'-DDT, p-p'-DDE and p,p'-TDE (DDD) expressed as DDT),
- cereals were: Bifenthrin (sum of isomers), chlorpyrifos-methyl, Imidacloprid, Deltamethrin (cis-deltamethrin), Propiconazole (sum of isomers),
- Fruit and Nuts were: Acetamiprid, Boscalid, Carbendazim, Chlorpyrifos, Cyprodinil, Fenhexamid, Fludioxonil, Fluopicolide, Metalaxyl, Pyrimethanil, Tebuconazole, Imidacloprid, Thiocloprid, Pyraclostrobin,
- Vegetables were: Acetamiprid, Azoxystrobin, Boscalid, Carbendazim and Benomyl, Chlorothalonil, Chlorpyrifos, Cyprodinil, Difeniconazole, Imidacloprid, Iprodione, Pendimethalin, , Thiophanate-methyl, Pyraclostrobin, Metalaxyl including other mixtures of constituent isomers including metalaxyl-M (sum of isomers), Pyrimethanil, Fludioxonil, Thiophanate-methyl.

The highest concentration was for cyprodinil 17,364 mg/kg detected in lettuces .

From the total number of samples, 548 foodstuffs samples had 2 or more findings. Below there are mentioned some products with different number of pesticide residues:

- apples – 101 samples with a number of residues from 2 up to 7,
- peaches - 24 samples with a number of residues from 2 up to 6,
- pears – 31 samples with a number of residues from 2 up to 9;
- pomegranate – 12 samples with a number of residues from 2 up to 6,
- quinces – 14 samples with a number of residues from 2 up to 5,
- plums – 22 samples with a number of residues from 2 up to 4;
- strawberries – 17 samples with a number of residues from 2 up to 4,
- table grapes – 50 samples with a number of residues from 2 up to 7;

- wine grapes – 44 samples with a number of residues from 2 up to 8.
- cucumbers - 20 samples with a number of residues from 2 up to 4;
- lettuce – 20 samples with a number of residues from 2 up to 6;
- sweet peppers – 121 samples with a number of residues from 2 up to 7;
- tomatoes – 241 samples with a number of residues from 2 up to 8

All the data presented above will be taken into account in amending of the National Control Programme for pesticides residues during the next years.

### 3.3. Comparability with the previous year results

Compared with 2017, in 2018 the number of samples with residues below MRL has been increased (from 17,6% in 2017 to 32,5% in 2018) and the number of samples with exceeding has been increased (from 1,0% in 2017 to 3% in 2018) – as presented in the table 2 Summary results. The number of pesticides reported has been remained the same as 2013 (310). Pesticides were validated according to SANCO 12495/2011.

## 4. Non-compliant samples: possible reasons, ARfD exceedances and actions taken

### 4.1. Possible reasons for non-compliant samples

From 4809 samples in 2018, 90 samples were found non-compliant with the EU MRL. The following follow-up actions were taken in case of sample non-compliant with the EU MRL (measurement uncertainty taken into consideration):

**Table 1:** Possible reasons for MRL non compliance

Reasons for MRL non-compliance	Pesticide/food product <sup>(a)</sup>	Frequency <sup>(b)</sup>	Comments	Title
GAP not respected: use of a pesticide not approved in the EU <sup>(c)</sup>	Fipronil/ Fat (laying hens)	13	Lab sample cod  RO321-IISPV-30145-1 RO321-IISPV-30145-5 RO321-IISPV-30145-6 RO321-IISPV-30145-2 RO321-IISPV-30145-3 RO321-IISPV-20870-1 RO321-IISPV-20697-2 RO321-IISPV-30145-4 RO321-IISPV-20547-2 RO321-IISPV-20872-2 RO321-IISPV-20547-1 RO321-IISPV-20547-4 RO321-IISPV-	Country of origin Romania

			20547-3	
			RO321-IISPV-21176-1	
			RO321-IISPV-21180-3	
			RO321-IISPV-21178-1	
			RO321-IISPV-21180-2	
			RO321-IISPV-21176-2	
			RO321-IISPV-28651-3	
			RO321-IISPV-21178-2	
			RO321-IISPV-21178-3	
			RO321-IISPV-28651-1	
			RO321-IISPV-28649-2	
			RO321-IISPV-28649-3	
			RO321-IISPV-21180-1	
			RO321-IISPV-28651-2	
			RO321-IISPV-28649-1	
			RO321-IISPV-28647-2	
		62	RO321-IISPV-20023-1	Country of origin
	Fipronil (sum Fipronil and sulfone metabolite (MB46136) expressed as Fipronil)/ Eggs (chicken)		RO321-IISPV-28653-1	ROMANIA
			RO321-IISPV-28653-2	
			RO321-IISPV-28647-3	
			RO321-IISPV-28647-1	
			RO321-IISPV-20196-1	
			RO321-IISPV-29972-1	
			RO321-IISPV-30128-1	
			RO321-IISPV-20195-1	
			RO321-IISPV-22626-2	
			RO321-IISPV-30129-1	
			RO321-IISPV-30139-3	
			RO321-IISPV-30139-6	
			RO321-IISPV-22626-1	
			RO321-IISPV-20466-1	
			RO321-IISPV-20737-1	
			RO321-IISPV-	

			20005-4 RO321-IISPV-29972-5 RO321-IISPV-20197-20465-1 RO321-IISPV-29867-1 RO321-IISPV-29967-1 RO321-IISPV-30139-1 RO321-IISPV-30128-3 RO321-IISPV-30128-5 RO321-IISPV-30129-3 RO321-IISPV-30139-5 RO321-IISPV-20004-3 RO321-IISPV-29966-20199-1 RO321-IISPV-22653-1 RO321-IISPV-29970-1 RO321-IISPV-29966-4 RO321-IISPV-20463-1 RO321-IISPV-22653-2 RO321-IISPV-29972-6 RO321-IISPV-30129-5 RO321-IISPV-20734-1 RO321-IISPV-22626-3 RO321-IISPV-30128-2 RO321-IISPV-30129-6 RO321-IISPV-22628-1 RO321-IISPV-29972-3 RO321-IISPV-29972-30128-4 RO321-IISPV-30128-6 RO321-IISPV-30129-4	
GAP not respected: use of an approved pesticide not authorised on the specific crop <sup>(c)</sup>	Chlorothalonil/lettuce	2	18-0153 18-0026	Romania



	Dimethoate/Lettuces	1	18-0026	Romania
	Dimethoate/Gherkins	1	18-0834	Romania
GAP not respected: use of an approved pesticide, but application rate, number of treatments, application method or PHI not respected	Chlorpyrifos/ Apples	2	Lab sample cod RO321ANSVSA-31576 RO321ANSVSA-30616	Moldova
	Cyprodinil/pomegranates	1	RO031-ANSVSA-30106-2	Country of origin Turkey
	Dimethoate/ Apples	2	Lab sample cod RO031-ANSVSA-30505 RO321ANSVSA-31576	Country of origin Poland Moldova
	Dimethoate/ Table grapes	2	Lab sample cod RO321ANSVSA-31745 RO321ANSVSA-31470	Country of origin Republic of North Macedonia
	Dimethoate/ Cherries (sweet)	1	Lab sample cod RO321ANSVSA-30874	Country of origin Turkey
	Imazalil/ Granate apples/pomegranates	1	Lab sample cod RO031-ANSVSA-30106-2	Country of origin Turkey
	Mandipropamid/ Pears	1	Lab sample cod RO031-ANSVSA-30392	Country of origin Republic of North Macedonia
	Metalaxyl including other mixtures of constituent isomers including metalaxyl-M (sum of isomers)/ Courgettes	5	Lab sample cod RO031-ANSVSA-30118 RO031-ANSVSA-30615-1 RO031-ANSVSA-30179 RO031-ANSVSA-30104-3 RO031-ANSVSA-30044	Country of origin Turkey
	Methomyl/ Plums	1	Lab sample cod RO031-ANSVSA-30528-2	Country of origin Moldova
	Methomyl/ Head cabbages	1	Lab sample cod RO031-ANSVSA-30570	Country of origin Republic of North Macedonia
	Omethoate/ Apples	1	Lab sample cod	Country of

			RO031-ANSVSA-30505	origin Poland
Use of pesticide according to authorised GAP: unexpected slow degradation of residues	Chlorpyrifos/lettuce	1	18-0010	Romania
	Thiamethoxam/Spring onions/green onions and Welsh onions	1	18-0032	Romania
	Chlorpyrifos/celery leaves	1	18-0662	Romania
	Chlorpyrifos/Spring onions/green onions and Welsh onions	1	18-0046	Romania
Cross contamination: spray drift or other accidental contamination	0	0	0	0
Contamination from previous use of a pesticide: uptake of residues from the soil (e.g. persistent pesticides used in the past)	0	0	0	0
Residues resulting from other sources than plant protection product (e.g. biocides, veterinary drugs, bio fuel)	0	0	0	0
Naturally occurrence (e.g. dithiocarbamates in turnips)	0	0	0	0
Changes of the MRL	0	0	0	0
Use of a pesticide on food imported from third countries for which no import tolerance was set <sup>(d)</sup>	Acetamiprid/ Sweet peppers/bell peppers	1	Lab sample cod RO031ANSVSA-30102-11	Country of origin Turkey
	Acetamiprid/ Onions	1	Lab sample cod RO031-ANSVSA-30517	Country of origin Turkey
	Acetamiprid /Granate apples/pomegranates	5	Lab sample cod RO031-ANSVSA-30516 RO031-ANSVSA-30554 RO031-ANSVSA-30048 RO031-ANSVSA-30496-1 RO031-ANSVSA-30106-2	Country of origin Turkey
	Boscalid/ Granate apples/pomegranates	2	Lab sample cod RO031-ANSVSA-30600 RO031-ANSVSA-30496-1	Country of origin Turkey
	Chlorfenapyr/ Plums	1	Lab sample cod RO321ANSVSA-32203	Country of origin China
	Propiconazole (sum of isomers)/ Granate apples/pomegranates	1	Lab sample cod RO031-ANSVSA-30052	Country of origin Turkey
	Pyraclostrobin/ Granate	2	Lab sample cod	Country of

	apples/pomegranates		RO031-ANSVSA-30600 RO031-ANSVSA-30496-1	origin Turkey
	Pyrimethanil/ Melons	1	Lab sample cod RO031-ANSVSA-30275-9	Country of origin Turkey
	Tebufenpyrad/ Sweet peppers/bell peppers	1	Lab sample cod RO031ANSVSA-30128-11	Country of origin Turkey
	Trifloxystrobin/ Granate apples/pomegranates	1	Lab sample cod RO031-ANSVSA-30048	Country of origin Turkey
Other	Text	2.5	Text	Text

- (a): Report name as specified in the MatrixTool  
 (b): Number of cases  
 (c): Applicable only for food products produced in the EU  
 (d): For imported food only

## 4.2. Actions taken

**Table 2:** Actions taken

	Action taken <sup>(a)</sup>	Number of non-compliant samples concerned <sup>(b)</sup>	Comments	Country of origin
<b>Rapid Alert Notification</b>				
	Chlorpyrifos/celery leaves	1		
	Fipronil (sum Fipronil and sulfone metabolite (MB46136) expressed as Fipronil)/ Eggs (chicken)	7		
<b>Administrative sanctions (e.g. fines)</b>				
	Chlorpyrifos/lettuce	2		
<b>Lot recalled from the market</b>				
	Chlorothalonil/lettuce	2		
	Fipronil (sum Fipronil and sulfone metabolite (MB46136) expressed as Fipronil)/ Eggs (chicken)	7		
<b>Rejection of a non-compliant lot at the border</b>				
<b>Destruction of non-compliant lot</b>				
	Fipronil (sum Fipronil and sulfone metabolite (MB46136) expressed as Fipronil)/ Eggs (chicken)	7		
<b>Follow-up (suspect) sampling</b>				

of similar products, samples of same producer or country of origin				
Dimethoate/Lettuces		1		
Dimethoate/Gherkins		1		
Chlorpyrifos/ Apples		2	Lab sample cod RO321ANSVSA-31576 RO321ANSVSA-30616	Moldova
Cyprodinil/ Granate apples/pomegranates		1	RO031-ANSVSA-30106-2	Turkey
Dimethoate/ Apples		3	RO031-ANSVSA-30505 RO321ANSVSA-31576	Poland Moldova
Dimethoate/ Table grapes		2	RO321ANSVSA-31745 RO321ANSVSA-31470	Republic of North Macedonia
Dimethoate/ Cherries (sweet)		1	RO321ANSVSA-30874	Turkey
Imazalil/ Granate apples/pomegranates		1	RO031-ANSVSA-30106-2	Turkey
Mandipropamid/ Pears		1	RO031-ANSVSA-30392	Republic of North Macedonia
Metalaxyl including other mixtures of constituent isomers including metalaxyl-M (sum of isomers)/ Courgettes		5	RO031-ANSVSA-30118 RO031-ANSVSA-30615-1 RO031-ANSVSA-30179 RO031-ANSVSA-30104-3 RO031-ANSVSA-30044	Turkey
Methomyl/ Plums		1	RO031-ANSVSA-30528-2	Moldova
Methomyl/ Head cabbages		1	RO031-ANSVSA-30570	Republic of North Macedonia
Omethoate/ Apples		1	RO031-ANSVSA-30505	Poland
Acetamiprid/ Sweet peppers/bell peppers		1	RO031ANSVSA-30102-11	Turkey
Acetamiprid/ Onions		1	RO031-ANSVSA-30517	Turkey
Acetamiprid /Granate apples/pomegranates		5	RO031-ANSVSA-30516 RO031-ANSVSA-30554 RO031-ANSVSA-30048 RO031-ANSVSA-30496-1 RO031-ANSVSA-30106-2	Turkey
Boscalid/ Granate apples/pomegranates		2	RO031-ANSVSA-30600 RO031-ANSVSA-30496-1	Turkey

Chlorfenapyr/ Plums		1	RO321ANSVSA-32203	China
Propiconazole (sum of isomers)/ Granate apples/pomegranates		1	RO031-ANSVSA-30052	Turkey
Pyraclostrobin/ Granate apples/pomegranates		2	RO031-ANSVSA-30600 RO031-ANSVSA-30496-1	Turkey
Pyrimethanil/ Melons		1	RO031-ANSVSA-30275-9	Turkey
Tebufenpyrad/ Sweet peppers/bell peppers		1	RO031ANSVSA-30128-11	Turkey
Trifloxystrobin/ Granate apples/pomegranates		1	RO031-ANSVSA-30048	Turkey
<b>Warnings to responsible food business operator</b>	0	0	0	0
<b>Other follow-up investigations to identify reason of non-compliance or responsible food business operator</b>	0	0	0	0
<b>Other actions (please specify)</b>	0	0	0	0
<b>Administrative sanctions (e.g. fines)</b>				
Fipronil (sum Fipronil and sulfone metabolite (MB46136) expressed as Fipronil)/ Eggs (chicken)		7		

–: no information available; TBC: to be confirmed

(a): Table footnote a

## 5. Quality assurance

**Table 3:** Laboratories participation in the national control program

Country	Laboratory		Accreditation		Participation in proficiency tests or inter-laboratory tests
	Name	Code	Date	Body	
RO	Laboratory for Control Pesticide Residues in Plant and Plant Products	RO_321_LCRPPP	16/01/2006 Reaccreditation in 18/12/2017	RENAR-Bucharest	EUPT FV 20 EUPT CF 12
RO	Sanitary Veterinary and Food Safety Laboratory Bucharest	RO321-ANSVSA	LI 496 11/04/2007	RENAR-Bucharest	EUPT-FV-20 EUPT-CF-12
RO	Sanitary Veterinary and Food Safety Laboratory Constanta	RO223-ANSVSA	24/05/2004	RENAR-Bucharest	EUPT AO 12
RO	Zonal Laboratory for Pesticides Residues determination in Plants and	RO_125_LZDRPPP	26/04/2013 Reaccreditation in 18/12/2017	RENAR-Bucharest	EUPT FV 20 EUPT CF 12

Country	Laboratory		Accreditation		Participation in proficiency tests or inter-laboratory tests
	Name	Code	Date	Body	
	Vegetables Products – Mures				
RO	Sanitary Veterinary and Food Safety Laboratory Cluj	RO113-ANSVSA	LI 456 27.02.2018	RENAR-Bucharest	EUPT AO 13
RO	Environmental hygiene laboratory	MS-RO113-MS	LI 1189/04.10.2018	RENAR-Bucharest	EUPT FV 20
RO	Sanitary Veterinary and Food Safety Laboratory Suceava	RO215-ANSVSA	05/03/2007	RENAR-Bucharest	EUPT AO 13
RO	Institute of Hygiene and Veterinary Public Health	RO321-IISPV	01/04/2002	RENAR-Bucharest	EUPT AO 13 EUPT CF 12
RO	Sanitary Veterinary and Food Safety Laboratory Ialomita	RO031-ANSVSA		RENAR Bucharest	EUPT-FV-20
RO	Sanitary Veterinary and Food Safety Laboratory Olt	RO41-ANSVSA	LI 1174 05.05.2018	RENAR Bucharest	EUPT-FV-20

**Table 4:** Processing factors

Pesticide(report name) <sup>(a)</sup>	Unprocessed product (RAC)	Processed product	Processing factor <sup>(b)</sup>	Comments
All pesticides	Oranges	Oranges Juice	1	
All pesticides	Olives for oil production	Oliver Oil	5	
All pesticides	Wheat	Flour	1	
All pesticides	Rye	Flour	1	
All pesticides	Wine grapes	White Wine	1	
All pesticides	Wine grape	Red Wine	1	

a) Processing factor for the enforcement residue definition