

Pesticide Residue Control Results

“National Summary Report”

Country: HELLAS

Year: 2011

National competent authority/organisation:

MINISTRY OF RURAL DEVELOPMENT AND FOOD

GENERAL DIRECTORATE OF PLANT PRODUCE

DIRECTORATE OF PLANT PRODUCE PROTECTION

DEPARTMENT OF PESTICIDES

<http://www.minagric.gr/index.php/el/for-citizen/food-and-sequire/845-asfaleiatwntrofimvnefsa.html>

1. Objective and design of the national control programme

National control programme of 2011 for pesticide residues (monitoring) as part of the Multi Annual Control Programme of 2011-2013 has been established according to terms and conditions of Articles 26-35 of Regulation (EC) No 396/2005 of the European Parliament and the Council, of 23.02.2005 on Maximum Residue Levels of pesticides in or on food and feed of plant and animal origin and amending Council Directive 91/414/EEC.

The monitoring programme was designed and coordinated by the Ministry of Rural Development and Food (Directorate of Plant Produce Protection). The programme was based on several risk analysis criteria and parameters: number of samples (domestic and imported) for each product, agricultural produce, cultivation area per culture, expected imports, results from previous years' monitoring programmes, dietary intake contribution of each product, sampling location, community control programme, pesticides used in practice by the farmers, relevant RASFF notifications for pesticide residues, personnel and analytical capacity of the official laboratories. It aims at ensuring compliance with maximum levels and assessing consumer exposure in order to achieve a high level of protection and application of good agricultural practice in all stages of production and harvest of agricultural products.

The responsibilities of the laboratories involved, regarding the number of samples of each commodity that should be analysed and the areas of sampling were well defined. The responsible for the EU co-ordinated program laboratories were clearly stated. The sampling was carried out by the responsible for sampling regional and local authorities.

Sampling strategy was based on "from the farm to the fork" rationale, taking into account the specificities of each region of the country. The sampling methods, necessary for carrying out such controls of pesticide residues, were those provided for in JMD 91972/2003 (Directive 2002/63/EC). Samples were taken by domestic production and imports, proportionally, covering points of collection, storage, packing and trade of products of plant origin.

The official laboratories, analysing samples for pesticide residues are accredited and participate in the Community Proficiency Tests. The methods of analysis used by the laboratories comply with the criteria set out in relevant EU law provisions and other adopted technical guidelines.

In a case of an MRL exceedance, before any administrative and punitive enforcement action is taken, a default analytical uncertainty of 50% is subtracted from the measured value. If this figure still exceeds the MRL, enforcement action relevant to the case is taken.

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

Surveillance

Category	Total number of samples		Number of samples without detectable residues		Number of samples with residues at or below EU MRL or for which no MRL is set		Number of Samples with residues exceeding EU-MRL	
Fruits and Vegetables	2130		1558		510		57	
Cereals	30		28		0		2	
Plant Origin Processed products	281		232		48		1	
Baby Food	31		31		0		0	
Food of Animal origin	72		68		4		0	
Feed	14		6		8		0	
Total	Year 2010: 2380	2558	Year 2010: 1774	1923	Year 2010: 413	570	Year 2010: 57	60

Suspect

Category	Total number of samples		Number of samples without detectable residues		Number of samples with residues at or below EU MRL or for which no MRL is set		Number of Samples with residues exceeding EU-MRL	
Fruits and Vegetables	145		51		80		14	
Cereals	1		1		0		0	
Plant Origin Processed products	4		3		1		0	
Baby Food	0		0		0		0	
Food of Animal origin	0		0		0		0	
Feed	7		5		2		0	
Total	Year 2010: 164	157	Year 2010: 66	60	Year 2010: 79	83	Year 2010: 19	14

3. Non-compliant samples: Possible reasons and Actions taken

In 2011, from the 2558 surveillance samples analysed, 60 samples (2.34%) were exceeding the EU MRLs and 34 samples were non compliant (1.33%). In 2010, 78 samples out of 2380 (3.27%) were exceeding the EU MRLs.

Regarding suspect samples, in 2011 14 samples out of 157 were exceeding the EU MRLs (8.9%) while in 2010 19 samples out of 164 were exceeding the EU MRLs (11.6%).

Analytical information about the samples and the actions taken regarding non compliant samples and unauthorised uses (for compliant and non compliant samples) are given at the tables below (Tables 1 and 2).

A separate table (Table 3) provides information on RASFF notifications.

Table 1: Non Compliant Samples for which administrative actions were taken.

a/a	LabSampCode	Product	Residue	Reason for MRL non compliance	Note
1	GR-002-11-433	Apples	dimethoate (sum of dimethoate and omethoate expressed as dimethoate)	Reason unknown	Imported (Serbia)
2	GR-007-11-148	Apples	dimethoate (sum of dimethoate and omethoate expressed as dimethoate)	GAP not respected Not authorized use	
3	GR-001-11-263	Beans (with pods)	acetamiprid	GAP not respected Not authorized use	
4	GR-001-11-812	Beans (with pods)	dimethomorph, pyraclostrobin	GAP not respected Not authorized use	
5	GR-002-11-146	Beans (with pods)	chlorpyrifos	GAP not respected Not authorized use	
6	GR-001-11-023	Carrots	chlorpyrifos	GAP not respected: application rate and/or application method not respected	
7	GR-001-11-103	Cucumbers	oxamyl	GAP not respected: application rate and/or application method not respected	
8	GR-002-11-056	Cucumbers	procymidone	Reason unknown	Imported (Jordan)
9	GR-002-11-323	Cucumbers	oxamyl	GAP not respected: application rate and/or application method not respected	
10	GR-004-11-159	Cucumbers	procymidone	Reason unknown	Imported (Bulgaria)

11	GR-005-11-003	Cucumbers	dimethoate (sum of dimethoate and omethoate expressed as dimethoate)	GAP not respected: Not authorized use	
12	GR-007-11-104	Cucumbers	dichlorvos	GAP not respected: not authorized	
13	GR-002-11-059	Lettuce	chlorothalonil	GAP not respected: not authorized use	
14	GR-007-11-118	Lettuce	methamidophos	GAP not respected: not authorized	
15	GR-007-11-132	Lettuce	penconazole	GAP not respected: not authorized use	
16	GR-002-11-245	Okra, ladys fingers	indoxacarb as sum of the isomers S and R	GAP not respected: not authorized use	
17	GR-005-11-096	Peaches	captan/folpet (sum)	GAP not respected: application rate and/or application method not respected	
18	GR-001-11-177	Pears	chlormequat	Reason unknown	Imported (Italy)
19	GR-001-11-097	Peppers	ethion	Reason unknown	Imported (Egypt)
20	GR-002-11-275	Peppers	formetanate (Sum of formetanate and its salts expressed as formetanate (hydrochloride))	GAP not respected: not authorized use	
21	GR-001-11-435	Rice	bromide ion	Reason unknown	Administrative actions in progress
22	GR-001-11-165	Spinach	acrinathrin	GAP not respected: not authorized use	
23	GR-001-11-492	Spinach	clothianidin	GAP not respected: not authorized use	Administrative actions in progress

24	GR-002-11-110	Spinach	imidacloprid	Reason unknown	Imported (Turkey)
25	GR-002-11-133	Spinach	chlorpyrifos	GAP not respected: not authorized use	
26	GR-009-11-033	Spinach	chlorpyrifos	GAP not respected: not authorized use	
27	GR-001-11-108	Spinach Zealand (New)	clothianidin	GAP not respected: not authorized use	Administrative actions in progress
28	GR-001-11-016	Vine leaves (grape leaves)	fenpyroximate, lufenuron		
29	GR-001-11-049	Vine leaves (grape leaves)	azoxystrobin, boscalid, cypermethrin (cypermethrin including other mixtures of constituent isomers (sum of isomers), cyprodinil, fenarimol, flufenoxuron, hexaconazole, lambda-cyhalothrin, methoxyfenozide, myclobutanil, penconazole, propargite, pyrimethanil, trifloxystrobin,	Reason unknown	Imported (Turkey)
30	GR-001-11-050	Vine leaves (grape leaves)	azoxystrobin, boscalid, cypermethrin (cypermethrin including other mixtures of constituent isomers (sum of isomers), cyprodinil, flufenoxuron, kresoxim-methyl, methoxyfenozide, myclobutanil, penconazole, procymidone, propargite, pyrimethanil, trifloxystrobin,	Reason unknown	Imported (Turkey)
31	GR-001-11-051	Vine leaves (grape leaves)	azoxystrobin, boscalid, flusilazole, kresoxim-methyl, lambda-	Reason unknown	Imported (Turkey)

			cyhalothrin, methoxyfenozone, myclobutanil, propargite, pyrimethanil, trifloxystrobin		
32	GR-001-11-197	Vine leaves (grape leaves)	ethion, fenproparthrin, lambda-cyhalothrin	Reason unknown	Imported (Turkey) Administrative in progress
33	GR-008-11-083	Table Grapes	methamidophos	GAP not respected: not authorized use	
34	GR-008-11-084	Table grapes	methamidophos	GAP not respected: not authorized use	
35	GR-001-11-192	cucumber	oxamyl	application rate and/or application method not respected	
36	GR-001-11-106	okra	acephate, triazophos	Reason unknown	Imported (India)
37	GR-001-11-172	pears	chlormequat	Reason unknown	Imported (Italy)
38	GR-001-11-200	pepper	clofentezine, chlormequat	Reason unknown	Imported (Turkey)
39	GR-002-11-093	pepper	procymidone	Reason unknown	Imported (Turkey)
40	GR-002-11-151	pepper	methomyl	Reason unknown	Imported (Turkey) Administrative actions in progress

Table 2: Not authorised uses for which administrative actions were taken.

	labSampCode	Product	Residue	Reason of non-authorised pesticide	Note
1	GR-002-11-59	lettuce	chlorothalonil	GAP not respected – use of pesticide non authorised on the specific crop	
2	GR-001-11-113	lettuce	metalaxyl	GAP not respected – use of pesticide non authorised on the specific crop	
3	GR-001-11-161	spinach	acrinathrin	GAP not respected – use of pesticide non authorised on the specific crop	
4	GR-001-11-64	bean	imidacloprid	GAP not respected – use of pesticide non authorised on the specific crop	
			myclobutanil		
5	GR-005-11-03	cucumber	dimethoate	GAP not respected – use of pesticide non authorised on the specific crop	
			fosthiazate		
6	GR-002-11-133	spinach	chlorpyrifos	GAP not respected – use of pesticide non authorised on the specific crop	
7	GR-001-11-165	spinach	acrinathrin	GAP not respected – use of pesticide non authorised on the specific crop	
8	GR-002-11-190	cherry	bifenthrin	GAP not respected – use of pesticide non authorised on the specific crop	
9	GR-005-11-22	cherry	l-cyhalothrin	GAP not respected – use of pesticide non authorised on the specific crop	
10	GR-009-11-5	spinach	cypermethrin	GAP not respected – use of pesticide non authorised on the specific crop	
11	GR-002-11-222	apricot	tebuconazole	GAP not respected – use of pesticide non authorised on the specific crop	
12	GR-002-11-223	apricot	tebuconazole	GAP not respected – use of pesticide non authorised on the specific crop	
13	GR-002-11-221	apricot	tebuconazole	GAP not respected – use of pesticide non authorised on the specific crop	
14	GR-001-11-264	orange	dimethomorph	GAP not respected – use of pesticide non authorised on the specific crop	
15	GR-005-11-32	cherry	bifenthrin	GAP not respected – use of pesticide non authorised on the specific crop	
16	GR-007-11-54	peas	chlorpyrifos	GAP not respected – use of pesticide non authorised on the specific crop	
17	GR-001-11-268	orange	dimethomorph	GAP not respected – use of pesticide non authorised on the specific crop	
18	GR-009-11-9	spinach	cypermethrin	GAP not respected – use of pesticide non authorised on the specific crop	
19	GR-002-11- 245	okra	indoxacarb	GAP not respected – use of pesticide non authorised on the specific crop	
20	GR-002-11-192	cherry	bifenthrin	GAP not respected – use of pesticide non authorised on the specific crop	
21	GR-001-11-313	cauliflower plants	famoxadone	GAP not respected – use of pesticide non authorised on the specific crop	
			Linuron		
22	GR-001-11-314	cauliflower plants	famoxadone	GAP not respected – use of pesticide non authorised on the specific crop	

23	GR-005-11-59	cucumber greenhouse	dieldrin	GAP not respected – use of pesticide non authorised on all crops	
24	GR-002-11-246	cucumber greenhouse	dieldrin	GAP not respected – use of pesticide non authorised on all crops	
25	GR-009-11-15	spinach	cypermethrin	GAP not respected – use of pesticide non authorised on the specific crop	
26	GR-009-11-8	spinach	cypermethrin	GAP not respected – use of pesticide non authorised on the specific crop	
27	GR-001-11-263	bean with pods	acetamiprid	GAP not respected – use of pesticide non authorised on the specific crop	
28	GR-005-11-17	squash	endosulfan	GAP not respected – use of pesticide non authorised on all crops	
29	GR-001-11-501	cucumber	dieldrin	GAP not respected – use of pesticide non authorised on all crops	
30	GR-002-11-323	cucumber	oxamyl	GAP not respected – use of pesticide non authorised on the specific crop	
31	GR-002-11-316	peppers	Fenbuconazole	GAP not respected – use of pesticide non authorised on the specific crop	
			formetanate		
32	GR-001-11-573	tomato shoots & plants	cyfluthrin	GAP not respected – use of pesticide non authorised on the specific crop	
33	GR-001-11-546	cotton plants	thiodicarb	GAP not respected – use of pesticide non authorised on all crops	
34	GR-001-11-609	olives	chlorpyrifos	GAP not respected – use of pesticide non authorised on the specific crop	
35	GR-001-11-46	oranges	dimethoate	GAP not respected – use of pesticide non authorised on the specific crop	
36	GR-008-11-107	cucumber	ethoprophos	GAP not respected – use of pesticide non authorised on the specific crop	
37	GR-001-11-518	cotton plants	flufenoxuron	GAP not respected – use of pesticide non authorised on the specific crop	
38	GR-007-11-132	lettuce	penconazole	GAP not respected – use of pesticide non authorised on the specific crop	
39	GR-001-11-499	squash	endosulfan	GAP not respected – use of pesticide non authorised on all crops	
40	GR-007-11-104	cucumber	dichlorvos	GAP not respected – use of pesticide non authorised on all crops	
41	GR-001-11-904	lettuce leaves & plants	carbendazim	GAP not respected – use of pesticide non authorised on all crops	
			chlorpyrifos	GAP not respected – use of pesticide non authorised on the specific crop	
			thiophanate methyl		
42	GR-001-11-906	tomato leaves	paclobutrazol	GAP not respected – use of pesticide non authorised on all crops	
			fenbuconazole	GAP not respected – use of pesticide non authorised on the specific crop	
			myclobutanil		
			penconazole		
			trifloxystrobin		
43	GR-007-11-118	lettuce	methamidophos	GAP not respected – use of pesticide non authorised on all crops	

44	GR-001-11-812	beans with pod	propamocarb	GAP not respected – use of pesticide non authorised on the specific crop	
			dimethomorph		
			pyraclostrobin		
45	GR-009-11-32	spinach	chlorpyrifos	GAP not respected – use of pesticide non authorised on the specific crop	
			cypermethrin		
46	GR-008-11-083	table grapes	methamidophos	GAP not respected – use of pesticide non authorised on all crops	
47	GR-008-11-084	table grapes	methamidophos	GAP not respected – use of pesticide non authorised on all crops	
48	GR-009-11-33	spinach	chlorpyrifos	GAP not respected – use of pesticide non authorised on the specific crop	
			cypermethrin		
49	GR-001-11-491	beans	azoxystrobin	GAP not respected – use of pesticide non authorised on the specific crop	
50	GR-007-11-120	lettuce	bifenthrin	GAP not respected – use of pesticide non authorised on the specific crop	
51	GR-007-11-148	apples	dimethoate	GAP not respected – use of pesticide non authorised on the specific crop	
52	GR-001-11-1043	spinach	boscalid	GAP not respected – use of pesticide non authorised on the specific crop	
53	GR-009-11-017	spinach	cypermethrin	GAP not respected – use of pesticide non authorised on the specific crop	
54	GR-001-11-639	beans with pod	difenoconazole	GAP not respected – use of pesticide non authorised on the specific crop	
55	GR-005-11-211	kiwi	chlorpyrifos	GAP not respected – use of pesticide non authorised on the specific crop	
56	GR-002-11-470	beans	dimethomorph	GAP not respected – use of pesticide non authorised on the specific crop	Administrative actions in progress
			pyraclostrobin		
57	GR-009-11-42	spinach	chlorpyrifos	GAP not respected – use of pesticide non authorised on the specific crop	
58	GR-006-11-92	melon	cypermethrin	GAP not respected – use of pesticide non authorised on the specific crop	Administrative actions in progress
59	GR-009-11-38	spinach	cypermethrin	GAP not respected – use of pesticide non authorised on the specific crop	Administrative actions in progress
60	GR-007-11-157	mandarin	dimethoate	GAP not respected – use of pesticide non authorised on the specific crop	Administrative actions in progress
61	GR-007-11-250	olive oil	endosulfan sulfate	GAP not respected – use of pesticide non authorised on all crops	Administrative actions in progress
62	GR-009-11-56	spinach	cypermethrin	GAP not respected – use of pesticide non authorised on the specific crop	Administrative actions in progress

					tive actions in progress
63	GR-00711-276	olive oil	chlorpyrifos	GAP not respected – use of pesticide non authorised on the specific crop	Administrative actions in progress

Table 3 : Rasff notifications

Pesticide	Crop	Sample number	Sample origin	Residue level (mg/kg)	ARfD (mg/kg bw)	ARfD %	Model used	RASFF notification
oxamyl	cucumber	GR-002-11-323	GR	0.42	0.001	2456,1	PRIMO	2011.1455
methomyl	pepper	GR-002-11-151	TR	0.24	0.0025	907	PRIMO	2011.BES
acrinathrin	spinach	GR-001-11-165	GR	1.05	0.01	354,8	PRIMO	2011.0657
dimethoate	cucumber	GR-005-11-003	GR	0.172	0.01	150,9	PRIMO	2011.0620
formetanate	pepper	GR-001-11-200	TR	1.6	0.005	3023	PRIMO	2011.0621
procymidone	pepper	GR-001-11-093	TR	0.05	0.012	39,4	PRIMO	2011.BAA
tetradifon	pepper	GR-002-11-034	TR	0.09	-	-	-	2011.AZS
methomyl	pepper	GR-002-11-052	TR	0.04	0.0025	151,1	PRIMO	2011.APN

4. Quality assurance

Country code	Laboratory Name	Laboratory Code	Accreditation Date	Accreditation Body	Participation in proficiency tests or interlaboratory tests
GR	Benaki Phytopathological Institute, Laboratory of Pesticide Residues	GR-001	09-07-2002	ESYD S.A. (Hellenic Accreditation System S.A.)	EUPT-FV13, EUPT-C065, EUPT-AO06, EUPT-SRM6,
GR	Regional Center of Plant Protection and quality control of Thessaloniki Laboratory of pesticide residues	GR-002	08-09-2009	ESYD S.A. (Hellenic Accreditation System S.A.)	EUPT-FV13
GR	Regional Center of Plant Protection and quality control of Kavala Laboratory of Pesticide residues	GR-003	08-09-2009	ESYD S.A. (Hellenic Accreditation System S.A.)	EUPT-FV13
GR	Regional Center of Plant Protection and quality control of Ioannina Laboratory of pesticide residues	GR-004	08-09-2009	ESYD S.A. (Hellenic Accreditation System S.A.)	EUPR-FV13, EUPT-C5
GR	Regional Center of Plant Protection and quality control of Magnesia Laboratory of pesticide residues	GR-005	08-09-2009	ESYD S.A. (Hellenic Accreditation System S.A.)	EUPT-FV13
GR	Regional Centre of Plant Protection and Quality Control of Achaia Laboratory of pesticide residues	GR-006	23-10-2009	ESYD S.A. (Hellenic Accreditation System S.A.)	EUPT-FV13
GR	Regional Centre of Plant Protection and Quality Control of Pireaus Laboratory of Pesticide Residues Analysis	GR-007	23-10-2009	ESYD S.A. (Hellenic Accreditation System S.A.)	EUPT-FV12, EUPT C5, COIPT 11
GR	Regional Center of Plant Protection and Quality Control of Iraklion	GR-008	08-9-2009	ESYD S.A. (Hellenic	EUPT-FV-13, COIPT11

	Laboratory of pesticide residues			Accreditation System S.A.)	
GR	Regional Center of Plant Protection and Quality Control of Argolida Laboratory of pesticide residues	GR-009	23-10-2009	ESYD S.A. (Hellenic Accreditation System S.A.)	EUPT-FV13
GR	General Chemical State Laboratory D Chemical Division of Athens, Pesticide Residues Laboratory	GR-010	10-11-1999	UKAS	EUPT-FV13, EUPT-FV-SM-03, EUPT-C5/SRM6, EUPR-AO-06, COI-PT-11