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# **HELLENIC MULTI ANNUAL CONTROL PROGRAMME FOR PESTICIDE RESIDUES**

## **MONITORING 2010-2012**

**According to Regulation (EC) No 396/2005 of the European Parliament and  
the Council**

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## 1. INTRODUCTION

Multiannual national control programme for pesticide residues (Monitoring) 2010-2012 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 planned controls on pesticide residues, consisting of sampling and laboratory analysis, will be carried out in order to enforce compliance with Regulation (EC) No 396/2005 in accordance with the relevant provisions of EU law relating to official controls for food and feed.

The programme is risk-based and the distribution of the samples intends to ensure that the results are representative of the market. It aims at 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 Community Control Programme according to Commission Regulation (EC) No 901/2009, of 28 September 2009, concerning a coordinated multiannual Community control programme for 2010, 2011 and 2012 to ensure compliance with maximum levels of and to assess the consumer exposure to pesticide residues in and on food of plant and animal origin, has been incorporated in the multiannual national control programme 2010-2012.

Updates of the multiannual national control programme for pesticide residues will be submitted annually.

Sampling strategy will be 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, will be those provided for in JMD 91972/2003 (Directive 2002/63/EC). Samples will be 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 will fully comply with the criteria set out in relevant EU law provisions and other adopted technical guidelines.

Effective, proportionate and dissuasive sanctions, predicted in national legislation, will be imposed in any case of infringement of the provisions of Regulation (EC) No 396/2005.

The control programmes for pesticide residues and the report of results of the national residue monitoring are published on the official web site of the Hellenic Ministry of Rural Development and Food (<http://www.minagric.gr/greek/2.2.5.8.1b1.html>) on an annual basis.

## **2. CRITERIA APPLIED IN DRAWING UP THE PROGRAMME**

Based on a risk approach, the criteria and factors applied in drawing up the programme include:

- 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
- Pesticides used in practice by the farmers
- Community control programme
- Relevant RASFF notifications for pesticide residues
- Personnel and analytical capacity of the official laboratories

### 3. PRODUCTS OF PLANT ORIGIN TO BE SAMPLED

Based on the above mentioned criteria, the products of plant origin to be sampled during 2010, 2011 and 2012 according to Regulation (EC) No 396/2005, are:

2010	2011	2012
apple	apple	apple
apricot	apricot	apricot
asparagus	asparagus	asparagus
aubergine (egg plant)	aubergine (egg plant)	aubergine (egg plant)
banana	banana	banana
bean (with pods)	bean (with pods)	bean (with pods)
cabbage	bean (without pods)	blite
carrot	cabbage	cabbage
cauliflower	carrot	carrot
cherry	cauliflower	cauliflower
courgette	cherry	cherry
cucumber	courgette	courgette
fresh onion	cucumber	cucumber
grape	fresh onion	fresh onion
green pea	grape	grape
kiwi	green pea	green pea
leek	kiwi	kiwi
lemon	leek	leek
lettuce	lemon	lemon
mandarin	lettuce	lettuce
melon	mandarin	mandarin
okra	melon	melon
olive oil	okra	okra
orange	olive oil	olive oil
peach/nectarine	orange	orange
pear	peach/nectarine	peach/nectarine
pepper	pear	pear
plum	pepper	pepper
potato	plum	plum
pulses	potato	potato
rye or oats	pulses	pulses
spinach	rice	spinach

strawberry table olives tomato watermelon biological products of plant origin baby food of plant origin feed of plant origin	spinach strawberry table olives tomato watermelon wheat biological products of plant origin baby food of plant origin feed of plant origin	strawberry table olives tomato watermelon wheat biological products of plant origin baby food of plant origin feed of plant origin
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In addition to the above mentioned products of plant origin, the products of animal origin included Commission Regulation (EC) No 901/2009 will be sampled and analysed.

#### 4. NUMBER OF SAMPLES

The distribution of the number of samples per product is analysed on the following tables:

##### Year 2010

<b>Product of plant origin</b>	<b>Number of samples</b>
apple	104
apricot	47
asparagus	26
aubergine (egg plant)	35
banana	15
bean (with pods)	39
cabbage	32
carrot	29
cauliflower	4
cherry	51
courgette	73
cucumber	122
fresh onion	10
grape	157
green pea	10
kiwi	52
leek	27
lemon	10
lettuce	115
mandarin	35
melon	59
okra	13
olive oil	>100 (depending on the annual olive oil production)
orange	55
peach/nectarine	74
pear	70
pepper	128
plum	17
potato	55
pulses	15
rye or oats	27
spinach	55
strawberry	87
table olives	15

tomato	175
watermelon	26
Biological products of plant origin	55
Baby food of plant origin	15
Feed	15

In addition, the number of samples (15) of the products of animal origin (milk, swine meat) included in Commission Regulation (EC) No 901/2009 for 2010, will be sampled and analysed.

### Year 2011

<b>Product of plant origin</b>	<b>Number of samples</b>
apple	91
apricot	42
asparagus	26
aubergine (egg plant)	38
banana	15
bean (with pods)	55
bean (without pods)	15
cabbage	5
carrot	31
cauliflower	4
cherry	37
courgette	77
cucumber	141
fresh onion	10
grape	156
green pea	25
kiwi	53
leek	10
lemon	10
lettuce	99
mandarin	40
melon	59
olive oil	>100 (depending on the annual olive oil production)
okra	28
orange	80
peach/nectarine	73



pear	82
pepper	115
plum	12
potato	71
pulses	15
rice	27
spinach	77
strawberry	70
table olives	15
tomato	164
watermelon	26
wheat	15
Biological products of plant origin	55
Baby food of plant origin	15
Feed of plant origin	15

In addition, the number of samples (15) of the products of animal origin (poultry meat, liver) included in Commission Regulation (EC) No 901/2009 for 2011, will be sampled and analysed.

#### Year 2012

<b>Product of plant origin</b>	<b>Number of samples</b>
apple	78
apricot	43
asparagus	26
aubergine (egg plant)	42
banana	15
bean (with pods)	67
blite	15
cabbage	5
carrot	33
cauliflower	19
cherry	37
courgette	63
cucumber	94
fresh onion	11
grape	99
green pea	10
kiwi	55

leek	10
lemon	15
lettuce	108
mandarin	35
melon	41
okra	13
olive oil	>100 (depending on the annual olive oil production)
orange	55
peach/nectarine	63
pear	82
pepper	112
plum	13
potato	73
pulses	15
spinach	67
strawberry	40
table olives	30
tomato	133
watermelon	26
wheat	15
Biological products of plant origin	55
Baby food of plant origin	15
Feed of plant origin	15

In addition, the number of samples (15) of the products of animal origin (butter, eggs) included in Commission Regulation (EC) No 901/2009 for 2012, will be sampled and analysed.

## 5. PESTICIDES TO BE ANALYSED

The pesticides to be analysed, depending on the product of plant origin and the laboratory that conducts the analysis, are included in the following table:

Pesticide	RL	Pesticide	RL	Pesticide	RL
acephate	0.02	ethion	0.05	parathion-methyl (sum of parathion-methyl and paraoxon-methyl expressed as Parathion-methyl)	0.02
acetamiprid	0.01	ethofumesate	0.01	paraoxon	0.04
aclonifen	0.1	ethoprophos	0.01	penconazole	0.01
acrinathrin	0.01	etoxazole	0.01	pendimethalin	0.01
alachlor	0.01	famoxadone	0.01	permethrin (sum of isomers)	0.01
aldicarb (sum of aldicarb, its sulfoxide and its sulfone, expressed as aldicarb)	0.01	fenamidone	0.01	phenthoate	0.01
aldrin and dieldrin (aldrin and dieldrin combined expressed as dieldrin)	0.01	fenamiphos	0.02	phorate (sum of phorate, its oxygen analogue and their sulfones expressed as phorate)	0.05
ametryn	0.01	fenarimol	0.01	phosalone	0.01
atrazine	0.01	fenbuconazole	0.01	phosmet	0.01
azimsulfuron	0.01	fenchlorphos	0.01	phosphamidon	0.05
azinphos-ethyl	0.02	fenhexamid	0.01	pirimicarb	0.01
azinphos-methyl	0.01	fenitrothion	0.01	pirimiphos-ethyl	0.04
azoxystrobin	0.01	fenoxycarb	0.01	pirimiphos-methyl	0.01
benalaxyl	0.05	fenpropathrin	0.1	primisulfuron	0.01
benfuracarb	0.01	fenpropimorph	0.01	prochloraz	0.01
bensulfuron-methyl	0.01	fenpyroximate	0.01	procymidone	0.01
bifenthrin	0.03	fensulfothion	0.01	profam	0.04
bitertanol	0.1	fenthion (fenthion and its oxygen analogue, their sulfoxides and sulfone expressed as	0.05	profenofos	0.01

		parent)			
boscalid	0.01	fenvalerate and esfenvalerate (Sum of RR & SS isomers)	0.08	prometryn	0.02
bromophos-ethyl	0.05	fenvalerate and esfenvalerate (Sum of RS & SR isomers)	0.08	prometon	0.02
bromopropylate	0.05	fipronil	0.005	propachlor	0.05
bromuconazole	0.01	fluazinam	0.5	propamocarb	0.01
bupirimate	0.01	flucythrinate	0.5	propanil	0.5
buprofezin	0.01	fludioxonil	0.05	propargite	0.01
cadusafos	0.01	flufenoxuron	0.01	propiconazole	0.01
captafol	0.02	fluquinconazole	0.02	propoxur	0.05
captan	0.04	flusilazole	0.01	propyzamide	0.01
carbaryl	0.01	flutriafol	0.01	pyraclostrobin	0.01
carbendazim	0.01	folpet	0.02	pyrazophos	0.05
carbophenothion	0.01	formothion	0.05	pyridaben	0.01
carbofuran (sum of carbofuran and 3-hydroxy-carbofuran expressed as carbofuran)	0.01	fosthiazate	0.01	pyrifenox	0.01
carbosulfan	0.01	furathiocarb	0.01	pyrimethanil	0.01
chlorbromuron	0.01	hexachlorociclohexane (HCH), sum of isomers, except the gamma isomer	0.005	pyriproxyfen	0.01
chlordane (sum of cis- and trans-chlordane)	0.01	heptachlor (sum of heptachlor and heptachlor epoxide expressed as heptachlor)	0.01	quinalphos	0.01
chlorfenvinphos	0.01	heptenofos	0.02	quinoxifen	0.01
chlorotoluron	0.01	hexachlorobenzene (HCB)	0.01	quintozene (sum of quintozene and pentachloro-aniline expressed as quintozene)	0.05
chlorothalonil	0.01	hexaconazole	0.01	resmethrin (sum of isomers)	0.01
chlorpropham	0.05	hexythiazox	0.01	sebumeton	0.01

chlorpyrifos	0.01	imazalil	0.02	sethoxydime	0.03
chlorpyrifos-ethyl	0.01	imidacloprid	0.01	simazine	0.01
chlorpyrifos-methyl	0.01	indoxacarb (sum of the isomers S and R)	0.01	spinosad (sum of spinosyn A and spinosyn D, expressed as spinosad)	0.01
chlorsulfuron	0.01	iprodione	0.01	spiroxamine	0.01
clofentezine	0.01	iprovalicarb	0.01	tau-fluvalinate	0.01
coumaphos	0.01	isofenphos-methyl	0.02	tebuconazole	0.01
cyanazine	0.01	kresoxim-methyl	0.01	tebufenozide	0.01
cyfluthrin (cyfluthrin including other mixtures of constituent isomers (sum of isomers))	0.02	lambda-cyhalothrin	0.01	tebufenpyrad	0.01
cymoxanil	0.01	lindane (gamma-isomer of hexachlorocyclohexane (HCH))	0.02	teflubenzuron	0.05
cypermethrin (cypermethrin including other mixtures of constituent isomers (sum of isomers))	0.01	linuron	0.01	tefluthrin	0.01
cyproconazole	0.01	lufenuron	0.01	temephos	0.01
cyprodinil	0.01	malathion (sum of malathion and malaoxon expressed as malathion)	0.01	terbuthylazine	0.01
cyromazine	0.01	mecarbam	0.06	terbutryn(e)	0.01
DDD, o, p'-	0.05	mepanipyrim	0.01	tetrachlorvinphos	0.01
DDE, o, p'-	0.05	merphos	0.01	tetraconazole	0.01
DDT (sum of p,p'-DDT, o,p'-DDT, p,p'-DDE and p,p'-TDE (DDD) expressed as DDT)	0.05	metalaxyl (metalaxyl including other mixtures of constituent isomers including metalaxyl-M (sum of isomers))	0.01	tetradifon	0.05

deltamethrin (cis-deltamethrin)	0.04	metalaxyl-M	see metalaxyl	thiabendazole	0.01
demeton (O+S)	0.01	metamitron	0.01	thiacloprid	0.01
demeton-S-methyl	0.01	metconazole	0.01	thiamethoxam	0.01
desmetryn	0.1	methacrifos	0.05	thifensulfuron-methyl	0.01
diazinon	0.01	methamidophos	0.01	thiobencarb	0.01
dichlofluanid	0.01	methidathion	0.02	thiodicarb	see methomyl
dichlorvos	0.01	methiocarb (sum of methiocarb and methiocarb sulfoxide and sulfone, expressed as methiocarb)	0.01	thiofanox	0.01
diclobenil	0.05	methomyl and thiodicarb (sum of methomyl and thiodicarb expressed as methomyl)	0.01	thiophanate-methyl	0.01
dicloran	0.01	methoxyfenozide	0.01	tokuthion	0.01
dicofol (sum of p, p' and o,p' isomers)	0.02	methoxychlor	0.01	tolclofos-methyl	0.1
dieldrin	see aldrin	metolachlor	0.05	tolyfluanid	0.01
diethofencarb	0.01	metoxuron	0.01	tralomethrin	0.01
difenoconazole	0.01	metribuzin	0.1	triadimefon (sum of triadimefon and triadimenol)	0.05
diflubenzuron	0.01	metsulfuron methyl	0.01	triadimenol	see triadimefon
dimethoate (sum of dimethoate and omethoate expressed as dimethoate)	0.02	mevinphos	0.04	triazophos	0.01
dimethomorph	0.01	monocrotophos	0.01	trichloronate	0.01
diniconazole	0.05	monolinuron	0.01	trifloxystrobin	0.01
dinitramine	0.01	myclobutanil	0.01	triflumuron	0.05
dinobuton	0.1	naled	0.01	trifluralin	0.1
diphenylamine	0.02	nicosulfuron	0.01	vamidothion	0.01
disulfoton (sum of disulfoton,	0.02	omethoate	see dimethoate	vinclozolin	0.05

disulfoton sulfoxide and disulfoton sulfone expressed as disulfoton)					
dimethomorph	0.2	oxadixyl	0.01		
endosulfan (sum of alpha- and beta-isomers and endosulfan-sulphate expresses as endosulfan)	0.005	oxamyl	0.01		
endrin	0.05	oxydemeton-methyl (sum of oxydemeton-methyl and demeton-S-methylsulfone expressed as oxydemeton-methyl)	0.01		
epoxiconazole	0.01	oxyfluorfen	0.01		
ethalfluralin	0.1	parathion	0.01		