

## ANNEXES TO THE DOCUMENT XXIV/1774/98

### Annex I:

#### Pesticides for which MRLs are established:

by Directive 93/58/EEC (35 compounds: in force 31.12.1993)

2,4,5-T<sup>1)</sup>  
Acephate  
Amitrole  
Atrazine  
Binapacryl<sup>1)</sup>  
Bromophos-ethyl<sup>1)</sup>  
Camphechlor (toxaphene)<sup>1)</sup>  
Captafol<sup>1)</sup>  
Benomyl group (Benomyl, Carbendazim, Thiophanate-Methyl)  
Chlorothalonil  
Chlorpyrifos  
Chlorpyrifos-methyl  
Dithiocarbamates determined as CS<sub>2</sub> (Maneb, Mancozeb, Metiram, Propineb, Zineb)  
Cypermethrin  
DDT<sup>1)</sup>  
Deltamethrin  
Dichlorprop  
Dinoseb  
Dioxathion<sup>1)</sup>  
Endrin<sup>1)</sup>  
Ethylene dibromide<sup>1)</sup>  
Fenchlorphos<sup>1)</sup>  
Fenvalerate  
Glyphosate  
Heptachlor  
Imazalil  
Iprodione  
Maleic hydrazide

Methamidophos  
Methyl bromide  
Paraquat  
Permethrin  
Procymidone  
TEPP<sup>1)</sup>  
Vinclozolin

<sup>1)</sup> Not used any more in the European Union

**by Directive 94/30/EC (12 compounds: in force 30.06.1995)**

Benalaxyl  
Benfurocarb  
Carbofuran  
Carbosulfan  
Cyfluthrin  
Daminozide  
Ethephon  
Fenarimol  
Furathiocarb  
Lambda-cyhalothrin  
Metalaxyl  
Propiconazole

**by Directive 95/38/EC (7 compounds: in force 01.07.1996)**

Aldicarb  
Amitraz  
Methidathion  
Methomyl  
Pirimiphos-methyl  
Thiabendazole  
Thiodicarb

**Annex II:****National authorities and contact points for pesticide residue monitoring**

<u>Authority</u>	<u>Contact person</u>	<u>Contact point</u>
<u>Belgium:</u>  Ministerie van Sociale Zaken, Volksgezondheid en Leefmilieu Algemene Eetwareninspectie.  Ministère des Affaires Sociales, de la Santé Publique et de l'Environnement, Inspection générale des denrées alimentaires. B-1010 Brussel/Bruxelles	R. Van Havere	tel: +32 2 210 4843 fax: +32 2 210 48 16 e-mail: ewida@health.fgov.be
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<p><u>Netherlands:</u></p> <p>Inspectie Gezondheidsbescherming (Inspectorate for Health Protection) Hoogte Kadijk 401 NL-1018 BK Amsterdam</p>	<p>H. A. van der Schee</p>	<p>tel: + 31 20 6237525] fax: +31 20 6208299 e-mail: sch@am.igb.nl</p>

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**Annex III:****Results of the Community monitoring programme for apples**

<b>Apples</b>	Total no. of samples	Total number of samples without residues	Average reporting level	0.01	0.02 <sup>a</sup>	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Total number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	2793	2753	0.055	2	1	4	8	10	10	4	1	0	0	0	0	0	1.17	1	0.02-1	N	40	0.04
Chlorpyrifos	3066	2872	0.033	13	18	57	58	21	21	6	0	0	0	0	0	0	0.79	6	0.5	E	194	0.20
Chlorpyrifos-methyl	3037	2982	0.032	15	11	11	11	4	2	1	0	0	0	0	0	0	0.16	0	0.5	E	55	0.00
Methamidophos	2546	2544	0.045	0	0	0	1	1	0	0	0	0	0	0	0	0	0.12	1	0.01-0.30	N	2	0.04
Iprodione	3042	2999	0.077	2	0	1	2	11	11	12	3	1	0	0	0	0	3.20	0	10	E	43	0.00
Procymidone	3037	2998	0.030	8	9	3	4	3	6	6	0	0	0	0	0	0	0.75	21	0.02-3	N	39	0.69
Chlorothalonil	3179	3175	0.022	3	1	0	0	0	0	0	0	0	0	0	0	0	0.02	0	0.01-1	N	4	0.00
Benomyl...	1408	1178	0.102	4	4	27	51	62	57	14	8	3	0	0	0	0	4.50	3	2	E	230	0.21
Maneb...	1139	1063	0.250	0	1	2	20	15	23	11	3	1	0	0	0	0	2.60	1	0.1-3	N	76	0.09

<sup>a</sup> Columns with residues < 0.02 include the range from 0.011 – 0.020 mg/kg

## Results of the Community monitoring programme for grapes

<b>Grapes</b>	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02 <sup>a</sup>	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Total number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	1020	1005	0.06	1	0	2	1	4	6	0	1	0	0	0	0	0	1.900	12	0.02	E	15	1.18
Chlorpyrifos	1309	1216	0.03	8	6	21	26	12	17	3	0	0	0	0	0	0	0.630	3	0.50	E	93	0.23
Chlorpyrifos-methyl	1270	1265	0.03	1	0	2	1	1	0	0	0	0	0	0	0	0	0.060	0	0.20	E	5	0.00
Methamidophos	1181	1169	0.04	1	0	5	5	1	0	0	0	0	0	0	0	0	0.070	11	0.01	E	12	0.93
Iprodione	1328	1110	0.07	2	5	7	17	36	76	38	26	10	1	0	0	0	4.1 <sup>b</sup>	0	10.00	E	218	0.00
Procymidone	1389	1152	0.03	12	7	12	24	26	53	45	34	21	2	0	1	0	6.500	3	5.00	E	237	0.22
Chlorothalonil	1382	1381	0.02	0	0	0	0	1	0	0	0	0	0	0	0	0	0.120	0	1.00	E	1	0.00
Benomyl...	623	563	0.10	1	3	1	9	16	18	8	1	2	1	0	0	0	8.870	13	0.05-5	N	60	2.09
Maneb...	567	460	0.26	0	0	0	10	27	45	14	7	3	1	0	0	0	5.300	4	2.00	E	107	0.71

<sup>a</sup> Columns with residues < 0.02 include the range from 0.011 – 0.020 mg/kg

<sup>b</sup> A higher value was measured in NL, but no exact value is available

## Results of the Community monitoring programme for strawberries

<b>Strawberries</b>	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02 <sup>a</sup>	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Total number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	1528	1528	0.06	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.02	E	0	0.00
Chlorpyrifos	2455	2443	0.03	5	0	2	2	3	0	0	0	0	0	0	0	0	0.20	0	0.20	E	12	0.00
Chlorpyrifos-methyl	2145	2122	0.03	2	5	4	8	2	1	1	0	0	0	0	0	0	0.59	1	0.50	E	23	0.05
Methamidophos	1940	1932	0.04	1	0	3	1	1	1	0	1	0	0	0	0	0	0.04	6	0.01-0.05	E/N	8	0.31
Iprodione	2395	2040	0.07	4	1	33	59	72	100	57	18	11	0	0	0	0	3.70	0	10.00	E	355	0.00
Procymidone	2491	2053	0.03	14	20	59	62	86	116	54	17	10	0	0	0	0	3.48	0	5.00	E	438	0.00
Chlorothalonil	1899	1852	0.02	3	2	8	7	9	6	9	1	1	1	0	0	0	13.519	10	0.01-2.00	N	47	0.53
Benomyl...	721	663	0.10	2	2	7	8	9	10	14	5	1	0	0	0	0	7.438	18	0.02-2.00	N	58	2.50
Maneb...	1114	970	0.27	3	5	5	30	36	40	15	6	3	1	0	0	0	19.3	4	2.00	E	144	0.36

<sup>a</sup> Columns with residues < 0.02 include the range from 0.011 – 0.020 mg/kg

## Results of the Community monitoring programme for tomatoes

<b>Tomatoes</b>	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02 <sup>a</sup>	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Total number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	1663	1655	0.07	0	0	2	4	0	2	0	0	0	0	0	0	0	0.220	0	0.50	E	8	0.00
Chlorpyrifos	1988	1986	0.03	2	0	0	0	0	0	0	0	0	0	0	0	0	0.004	0	0.50	E	2	0.00
Chlorpyrifos-methyl	2003	2000	0.03	2	0	0	0	0	1	0	0	0	0	0	0	0	0.420	0	0.50	E	3	0.00
Methamidophos	1695	1672	0.04	1	4	9	4	3	1	1	0	0	0	0	0	0	0.800	1	0.50	E	23	0.06
Iprodione	2042	2008	0.07	0	2	9	10	7	3	2	1	0	0	0	0	0	0.700	0	5.00	E	34	0.00
Procymidone	2053	1866	0.03	8	17	38	50	46	22	5	1	0	0	0	0	0	1.300	0	2.00	E	187	0.00
Chlorothalonil	2093	2002	0.02	11	21	26	12	7	9	3	2	0	0	0	0	0	1.100	0	2.00	E	91	0.00
Benomyl...	748	735	0.10	0	0	4	4	3	0	2	0	0	0	0	0	0	0.600	1	0.05-2	N	13	0.13
Maneb...	817	754	0.25	0	0	0	6	18	30	14	5	10	0	0	0	0	3.800	5	0.1-3	N	83	0.61

<sup>a</sup> Columns with residues < 0.02 include the range from 0.011 – 0.020 mg/kg

## Results of the Community monitoring exercise for lettuce

<b>Lettuce</b>	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02 <sup>a</sup>	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Total number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	2510	2426	0.06	0	1	7	7	11	11	8	6	2	0	1	0	0	11.200	9	1.00	E	54	0.36
Chlorpyrifos	3106	3097	0.03	4	1	2	1	1	0	0	0	0	0	0	0	0	0.120	1	0.05-0.10	N	9	0.03
Chlorpyrifos-methyl	3009	3003	0.03	1	1	2	1	1	0	0	0	0	0	0	0	0	0.200	2	0.05	E	6	0.07
Methamidophos	2329	2281	0.04	0	7	14	13	5	3	4	2	0	0	0	0	0	1.800	9	0.20	E	48	0.39
Iprodione	3098	2237	0.07	5	10	32	101	98	151	139	123	130	59	6	7	0	32.000	13	10.00	E	861	0.42
Procymidone	3074	2823	0.03	7	10	26	29	66	45	28	17	17	6	0	0	0	6.600	6	5.00	E	251	0.20
Chlorothalonil	3080	3034	0.02	7	2	9	4	4	3	6	6	2	1	0	2	0	28.000	24	0.01-2.50	N	46	0.78
Benomyl...	941	869	0.10	0	0	5	6	5	21	18	10	6	1	0	0	0	4.700	16	0.1-3.0	N	72	1.70
Maneb...	1419	970	0.25	0	0	1	33	25	56	89	86	86	41	27	3	2	63.000	76	5.00	E	449	5.36

<sup>a</sup> Columns with residues < 0.02 include the range from 0.011 – 0.020 mg/kg

**Annex IV:****Details on the Community monitoring Exercise**

Abbreviations and explanation for the Tables:

n.i. = Not investigated

\* A higher value was measured in NL, but no exact value is available

\*\* The 95th percentile is the value below which 95 % of the (non-zero) values are. It is the value of the sample found after counting in the sorted list of samples 95 % of the samples. In case there are less than 20 values, the 95th percentile is equal to the highest value measured.

Residues are given in mg/kg.

Only confirmed values are included in the calculation, therefore discrepancies can occur between the numbers of samples exceeding the MRL and the details in the list for NL.

In cases several national MRLs are given, the highest values were chosen for the determination of exceeded values.

<sup>a</sup> Columns with residues < 0.02 include the range from 0.011 – 0.020 mg/kg etc.

## Results of the Community monitoring exercise for Belgium for all five products (apples, grapes, strawberries, tomatoes, and lettuce)

	Total number of samples	Total number of samples without residues	0.01	0.02 <sup>a</sup>	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Total number of samples with residues exceeding the MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	266	266	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Chlorpyrifos	407	404	0	0	0	2	0	1	0	0	0	0	0	0	0	0.37 ap.	0	3	0.00
Chlorpyrifos-methyl	407	404	0	0	0	2	1	0	0	0	0	0	0	0	0	0.11 ap.	0	3	0.00
Methamidophos	266	265	0	0	1	0	0	0	0	0	0	0	0	0	0	0.05s.l.g.	1	1	0.38
Iprodione	407	321	0	0	0	0	4	8	19	20	26	7	1	1	0	20.5 let.	2	86	0.49
Procymidone	407	387	0	0	0	0	3	6	6	5	0	0	0	0	0	1.71 str.	0	20	0.00
Chlorothalonil	407	407	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Benomyl...	407	395	0	0	0	2	5	4	1	0	0	0	0	0	0	0.68 ap.	0	12	0.00
Maneb...	407	342	0	0	0	0	2	13	16	9	21	4	0	0	0	9.68 let.	5	65	1.23

<sup>a</sup> Columns with residues < 0.02 include the range from 0.011 – 0.020 mg/kg etc.

## Results of the Community monitoring exercise for Denmark for all five products (apples, grapes, strawberries, tomatoes, and lettuce)

	Total number of samples	Total number of samples without residues	0.01 <sup>a</sup>	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Total number of samples with residues exceeding the MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	327	327	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Chlorpyrifos	327	319	0	0	4	3	0	1	0	0	0	0	0	0	0	0.4 ap.	0	8	0.00
Chlorpyrifos-methyl	327	327	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Methamidophos	327	327	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Iprodione	327	317	0	0	0	0	1	3	3	1	2	0	0	0	0	2.82 gra.	0	10	0.00
Procymidone	327	303	0	0	3	7	4	5	3	1	1	0	0	0	0	2.65 gra.	0	24	0.00
Chlorothalonil	327	323	0	1	2	0	0	0	1	0	0	0	0	0	0	0.61 str.	0	4	0.00
Benomyl...	327	311	0	0	0	4	4	5	3	0	0	0	0	0	0	0.98 str.	0	16	0.00
Maneb...	318	283	0	0	0	1	12	10	7	4	1	0	0	0	0	2.43 gra.	1	35	0.31

<sup>a</sup> Columns with residues < 0.02 include the range from 0.011 – 0.020 mg/kg etc.

## Results of the Community monitoring exercise for Germany for all five products (apples, grapes, strawberries, tomatoes, and lettuce)

	Total number of samples	Total number of samples without residues	0.01	0.02 <sup>a</sup>	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Total number of samples with residues exceeding the MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	273	273	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Chlorpyrifos	1060	1028	10	3	11	4	2	1	1	0	0	0	0	0	0	0.51 gra.	1	32	0.09
Chlorpyrifos-methyl	983	977	0	2	2	1	0	0	1	0	0	0	0	0	0	0.59 str.	1	6	0.10
Methamidophos	795	793	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	2	0.13
Iprodione	874	801	2	2	9	14	14	16	10	5	1	0	0	0	0	3.4 let.	0	73	0.00
Procymidone	1103	802	16	19	59	46	52	65	26	10	7	1	0	0	0	5.8 gra.	1	301	0.09
Chlorothalonil	493	482	4	3	1	1	0	1	1	0	0	0	0	0	0	0.65 tom.	0	11	0.00
Benomyl...	139	121	0	2	3	4	3	3	1	2	0	0	0	0	0	1.8 app.	1	18	0.72
Maneb...	731	645	3	6	7	3	26	29	6	3	1	2	0	0	0	5.5 let.	2	86	0.27

<sup>a</sup> Columns with residues < 0.02 include the range from 0.011 – 0.020 mg/kg etc.

## Results of the Community monitoring exercise for Greece for all five products (apples, grapes, strawberries, tomatoes, and lettuce)

	Total number of samples	Total number of samples without residues	0.01	0.02 <sup>a</sup>	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Total number of samples with residues exceeding the MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	84	83	0	0	0	1	0	0	0	0	0	0	0	0	0		0	1	0.00
Chlorpyrifos	84	81	1	1	1	0	0	0	0	0	0	0	0	0	0		0	3	0.00
Chlorpyrifos-methyl	84	83	1	0	0	0	0	0	0	0	0	0	0	0	0		0	1	0.00
Methamidophos	84	74	0	0	3	2	3	1	0	1	0	0	0	0	0		7	10	8.33
Iprodione	84	77	0	2	0	1	2	0	2	0	0	0	0	0	0		0	7	0.00
Procymidone	84	84	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0.00
Chlorothalonil	84	75	0	0	5	2	0	2	0	0	0	0	0	0	0		5	9	5.95
Benomyl...	84	68	0	0	0	4	7	4	1	0	0	0	0	0	0		13	16	15.48
Maneb...	171	140	0	0	0	0	3	21	17	5	4	0	1	0	0		1	51	0.58

<sup>a</sup> Columns with residues < 0.02 include the range from 0.011 – 0.020 mg/kg etc.

## Results of the Community monitoring exercise for Spain for all five products (apples, grapes, strawberries, tomatoes, and lettuce)

	Total number of samples	Total number of samples without residues	0.01	0.02 <sup>a</sup>	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Total number of samples with residues exceeding the MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	150	146	0	0	1	0	1	0	1	1	0	0	0	0	0	1.56 let.	1	4	0.67
Chlorpyrifos	150	141	0	1	3	1	3	1	0	0	0	0	0	0	0	0.29 gra.	0	9	0.00
Chlorpyrifos-methyl	150	147	0	0	1	0	2	0	0	0	0	0	0	0	0	0.2 let.	1	3	0.67
Methamidophos	150	148	0	0	1	1	0	0	0	0	0	0	0	0	0	0.07 let.	0	2	0.00
Iprodione	150	144	0	0	0	0	2	2	2	0	0	0	0	0	0	0.64 gra.	0	6	0.00
Procymidone	150	140	0	0	1	1	3	3	2	0	0	0	0	0	0	0.87 gra.	0	10	0.00
Chlorothalonil	150	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Benomyl...	n.i.																0	0	
Maneb...	150	144	0	0	0	0	0	2	2	1	1	0	0	0	0	3.34 str.	1	6	0.67

<sup>a</sup> Columns with residues < 0.02 include the range from 0.011 – 0.020 mg/kg etc.

## Results of the Community monitoring exercise for France for all five products (apples, grapes, strawberries, tomatoes, and lettuce)

	Total number of samples	Total number of samples without residues	0.01	0.02 <sup>a</sup>	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Total number of samples with residues exceeding the MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	1283	1250	0	0	7	3	7	6	4	4	1	0	1	0	0	11.2 let.	6	33	0.47
Chlorpyrifos	1283	1269	0	2	7	3	0	2	0	0	0	0	0	0	0	0.42 ap.	0	14	0.00
Chlorpyrifos-methyl	1283	1281	0	2	0	0	0	0	0	0	0	0	0	0	0	0.01 ap.l.	0	2	0.00
Methamidophos	804	774	0	7	7	8	3	0	4	1	0	0	0	0	0	1.8 let.	5	30	0.62
Iprodione	1283	1083	0	5	9	17	27	33	26	20	40	18	0	5	0	32 let.	5	200	0.39
Procymidone	1283	1117	1	18	26	21	30	24	22	15	7	2	0	0	0	6.1 let.	13	166	1.01
Chlorothalonil	1283	1266	0	2	3	1	3	0	2	2	1	1	0	2	0	28 let.	8	17	0.62
Benomyl...	911	827	0	0	13	24	25	13	5	3	1	0	0	0	0	1.8 let.	16	84	1.76
Maneb...	1283	1040	0	0	0	2	5	25	55	56	49	30	21	0	0	50 let.	57	243	4.44

<sup>a</sup> Columns with residues < 0.02 include the range from 0.011 – 0.020 mg/kg etc.

## Results of the Community monitoring exercise for Ireland for all five products (apples, grapes, strawberries, tomatoes, and lettuce)

	Total number of samples	Total number of samples without residues	0.01	0.02 <sup>a</sup>	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Total number of samples with residues exceeding the MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	148	148	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Chlorpyrifos	148	147	0	0	1	0	0	0	0	0	0	0	0	0	0	0.05 gra.	0	1	0.00
Chlorpyrifos-methyl	148	130	4	4	3	3	1	2	1	0	0	0	0	0	0	0.70 ap.	0	18	0.00
Methamidophos	148	148	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Iprodione	148	122	0	0	1	0	2	8	3	4	4	1	2	1	0	30.03 let.	3	26	8.33
Procymidone	n.i.																		
Chlorothalonil	148	139	2	0	3	0	1	1	1	1	0	0	0	0	0	1.02 tom.	0	9	0.00
Benomyl...	36	34	0	0	0	0	0	1	1	0	0	0	0	0	0	0.57 ap.	0	2	0.00
Maneb...	49	40	0	0	0	5	1	3	0	0	0	0	0	0	0	0.37 str.	0	9	0.00

<sup>a</sup> Columns with residues < 0.02 include the range from 0.011 – 0.020 mg/kg etc.

## Results of the Community monitoring exercise for Italy for all five products (apples, grapes, strawberries, tomatoes, and lettuce)

	Total number of samples	Total number of samples without residues	0.01 <sup>a</sup>	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Total number of samples with residues exceeding the MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	1289	1251	3	1	5	5	9	10	4	1	0	0	0	0	0	1.17 ap.	3	38	0.23
Chlorpyrifos	1902	1845	7	6	15	17	6	6	0	0	0	0	0	0	0	0.4 ap.	1	57	0.05
Chlorpyrifos-methyl	1805	1759	14	8	11	11	0	2	0	0	0	0	0	0	0	0.42 tom.	0	46	0.00
Methamidophos	1423	1419	1	0	1	0	1	1	0	0	0	0	0	0	0	0.22 tom	0	4	0.00
Iprodione	1836	1754	2	1	1	6	12	19	19	13	6	3	0	0	0	9.85 let.	0	82	0.00
Procymidone	2054	1800	10	14	26	30	44	71	33	16	10	0	0	0	0	3.5 str.	9	254	0.44
Chlorothalonil	2103	2053	6	5	11	5	5	7	6	3	1	1	0	0	0	5.5 let.	13	50	0.62
Benomyl...	1288	1175	4	3	12	24	23	25	10	8	3	1	0	0	0	8.87 gra.	9	113	0.70
Maneb...	193	190	0	0	1	1	0	0	1	0	0	0	0	0	0	0.8 let.	0	3	0.00

<sup>a</sup> Columns with residues < 0.02 include the range from 0.011 – 0.020 mg/kg etc.

## Results of the Community monitoring exercise for Luxembourg for all five products (apples, grapes, strawberries, tomatoes, and lettuce)

	Total number of samples	Total number of samples without residues	0.01	0.02 <sup>a</sup>	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Total number of samples with residues exceeding the MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	112	111	0	0	0	0	0	0	0	1	0	0	0	0	0	1.9 gra.	1	1	0.89
Chlorpyrifos	112	111	0	1	0	0	0	0	0	0	0	0	0	0	0	0.02 ap.	0	1	0.00
Chlorpyrifos-methyl	112	112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Methamidophos	112	112	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Iprodione	112	94	0	0	0	0	5	3	5	1	1	3	0	0	0	0.7 gra.	0	18	0.00
Procymidone	112	97	0	0	0	1	4	4	4	0	1	1	0	0	0	0.9 gra.	1	15	0.89
Chlorothalonil	112	111	0	0	1	0	0	0	0	0	0	0	0	0	0	0.03 tom.	0	1	0.00
Benomyl...	n.i.																		
Maneb...	91	81	0	0	0	0	4	0	3	2	1	0	0	0	0	0.51 gra.	0	10	0.00

<sup>a</sup> Columns with residues < 0.02 include the range from 0.011 – 0.020 mg/kg etc.

## Results of the Community monitoring exercise for the Netherlands for all five products (apples, grapes, strawberries, tomatoes, and lettuce)

	Total number of samples	Total number of samples without residues	0.01	0.02 <sup>a</sup>	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Total number of samples with residues exceeding the MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	2325	2319	0	0	0	0	1	4	1	0	0	0	0	0	0	0.89 let.	3	6	0.13
Chlorpyrifos	3056	3037	2	0	4	4	4	4	1	0	0	0	0	0	0	0.68 gra.	1	19	0.03
Chlorpyrifos-methyl	2770	2763	1	0	0	2	4	0	0	0	0	0	0	0	0	0.2 gr.ap.	0	7	0.00
Methamidophos	2325	2322	0	0	0	3	0	0	0	0	0	0	0	0	0	0.07 gra.	2	3	0.09
Iprodione	3205	2489	8	7	51	107	103	152	113	86	60	28	1	0	0	5.31 let.	1	716	0.03
Procymidone	3108	2964	10	5	15	29	29	21	18	7	9	0	0	1	0	4.88 gra.	1	144	0.03
Chlorothalonil	3205	3178	9	4	5	3	0	2	1	3	0	0	0	0	0	1.7 let.	6	27	0.19
Benomyl...	183	100	3	4	16	11	10	17	16	5	0	1	0	0	0	1.7 let.	1	83	0.55
Maneb...	592	420	0	0	0	82	33	37	5	9	2	2	1	1	0	5.62 let.	8	172	1.35

<sup>a</sup> Columns with residues < 0.02 include the range from 0.011 – 0.020 mg/kg etc.

## Results of the Community monitoring exercise for Austria for all five products (apples, grapes, strawberries, tomatoes, and lettuce)

	Total number of samples	Total number of samples without residues	0.01	0.02 <sup>a</sup>	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Total number of samples with residues exceeding the MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	32	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Chlorpyrifos	135	122	9	3	0	0	0	1	0	0	0	0	0	0	0	0.375gra.	0	13	0.00
Chlorpyrifos-methyl	135	131	1	1	1	1	0	0	0	0	0	0	0	0	0	0.09 let.	1	4	0.74
Methamidophos	32	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Iprodione	151	137	1	1	2	3	3	4	0	0	0	0	0	0	0	0.386 str.	0	14	0.00
Procymidone	156	105	12	6	4	3	8	7	4	6	1	0	0	0	0	4.867 let.	0	51	0.00
Chlorothalonil	151	146	1	1	0	0	2	0	1	0	0	0	0	0	0	0.646 let.	0	5	0.00
Benomyl...	103	95	0	0	0	3	0	1	4	0	0	0	0	0	0	0.655gra.	0	8	0.00
Maneb...	105	95	0	0	0	0	1	1	3	2	3	0	0	0	0	4.7 let.	0	10	0.00

<sup>a</sup> Columns with residues < 0.02 include the range from 0.011 – 0.020 mg/kg etc.

## Results of the Community monitoring exercise for Portugal for all five products (apples, grapes, strawberries, tomatoes, and lettuce)

	Total number of samples	Total number of samples without residues	0.01	0.02 <sup>a</sup>	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Total number of samples with residues exceeding the MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	204	203	0	0	0	1	0	0	0	0	0	0	0	0	0	0.09 tom.	0	1	0.00
Chlorpyrifos	239	237	0	0	0	0	2	0	0	0	0	0	0	0	0	0.2 gra.str.	0	2	0.00
Chlorpyrifos-methyl	239	239	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Methamidophos	204	192	1	4	2	1	2	0	1	1	0	0	0	0	0	1.6 let.	2	12	0.98
Iprodione	239	223	0	0	3	4	1	4	4	0	0	0	0	0	0	0.64 let.	0	16	0.00
Procymidone	239	218	0	1	1	3	5	6	4	1	0	0	0	0	0	2 let.	0	21	0.00
Chlorothalonil	239	239	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Benomyl...	195	171	0	0	0	0	8	7	4	2	3	0	0	0	0	4.7 let.	5	24	2.56
Maneb...	324	231	0	0	0	1	15	21	14	11	18	5	4	2	2	63 let.	14	93	4.32

<sup>a</sup> Columns with residues < 0.02 include the range from 0.011 – 0.020 mg/kg etc.

## Results of the Community monitoring exercise for Finland for all five products (apples, grapes, strawberries, tomatoes, and lettuce)

	Total number of samples	Total number of samples without residues	0.01	0.02 <sup>a</sup>	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Total number of samples with residues exceeding the MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	821	817	0	0	0	0	1	0	1	1	1	0	0	0	0	3.1 let.	2	4	0.24
Chlorpyrifos	821	740	0	4	29	20	12	11	5	0	0	0	0	0	0	0.76 ap.	5	81	0.61
Chlorpyrifos-methyl	821	821	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Methamidophos	821	816	0	0	0	1	1	3	0	0	0	0	0	0	0	0.27 let.	3	5	0.37
Iprodione	889	790	0	0	5	18	27	32	7	8	2	0	0	0	0	4.1 gra.	0	99	0.00
Procymidone	821	764	0	0	2	15	11	9	7	3	7	3	0	0	0	6.6 let.	3	57	0.37
Chlorothalonil	821	819	0	0	0	1	1	0	0	0	0	0	0	0	0	0.19 str.	0	2	0.00
Benomyl...	197	172	0	0	0	0	3	11	5	1	5	0	0	0	0	4.5 ap.	3	25	1.52
Maneb...	136	125	0	0	0	0	0	6	4	1	0	0	0	0	0	1.1 gra.	0	11	0.00

<sup>a</sup> Columns with residues < 0.02 include the range from 0.011 – 0.020 mg/kg etc.

## Results of the Community monitoring exercise for Sweden for all five products (apples, grapes, strawberries, tomatoes, and lettuce)

	Total number of samples	Total number of samples without residues	0.01	0.02 <sup>a</sup>	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Total number of samples with residues exceeding the MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	1188	1159	0	1	2	10	6	9	1	0	0	0	0	0	0	0.72 let.	6	29	0.51
Chlorpyrifos	1188	1156	0	0	0	17	8	6	1	0	0	0	0	0	0	0.79 ap.	1	32	0.08
Chlorpyrifos-methyl	1188	1187	0	0	0	1	0	0	0	0	0	0	0	0	0	0.055 ap.	0	1	0.00
Methamidophos	1188	1164	0	0	15	8	1	0	0	0	0	0	0	0	0	0.115 gra.	7	24	0.59
Iprodione	1188	1148	0	0	0	0	0	20	15	3	2	0	0	0	0	3.12 str.	0	40	0.00
Procymidone	1188	1144	0	0	0	3	28	9	1	3	0	0	0	0	0	1.63 gra.	1	44	0.08
Chlorothalonil	1188	1150	2	10	12	5	5	2	2	0	0	0	0	0	0	0.15 tom.	1	38	0.08
Benomyl...	500	471	0	0	0	1	7	14	4	3	0	0	0	0	0	1.52 str.	3	29	0.60
Maneb...	441	390	0	0	0	0	17	24	6	3	1	0	0	0	0	2.16 str.	1	51	0.23

<sup>a</sup> Columns with residues < 0.02 include the range from 0.011 – 0.020 mg/kg etc.

## Results of the Community monitoring exercise for the UK for all five products (apples, grapes, strawberries, tomatoes, and lettuce)

	Total number of samples	Total number of samples without residues	0.01	0.02 <sup>a</sup>	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Total number of samples with residues exceeding the MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	90	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Chlorpyrifos	90	74	3	4	3	6	0	0	0	0	0	0	0	0	0	0.1 ap.	0	16	0.00
Chlorpyrifos-methyl	90	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Methamidophos	90	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Iprodione	90	80	0	0	1	4	1	3	0	1	0	0	0	0	0	1.2 str.	0	10	0.00
Procymidone	90	83	0	0	1	2	2	1	1	0	0	0	0	0	0	0.6 str.	0	7	0.00
Chlorothalonil	n.i.																		
Benomyl...	n.i.																		
Maneb...	n.i.																		

<sup>a</sup> Columns with residues < 0.02 include the range from 0.011 – 0.020 mg/kg etc.

## Results of the Community monitoring exercise for Norway for all five products (apples, grapes, strawberries, tomatoes, and lettuce)

	Total number of samples	Total number of samples without residues	0.01	0.02 <sup>a</sup>	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Total number of samples with residues exceeding the MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	922	892	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Chlorpyrifos	922	903	0	0	4	10	0	4	1	0	0	0	0	0	0	0.51 gra.	1	19	0.74
Chlorpyrifos-methyl	922	921	0	0	1	0	0	0	0	0	0	0	0	0	0	0.05 ap.	0	1	0.00
Methamidophos	922	922	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
Iprodione	922	814	0	0	0	15	20	34	20	9	8	0	2	0	0	19.0 let.	2	108	1.19
Procymidone	922	884	0	0	0	8	4	11	7	2	5	1	0	0	0	6.5 gra.	1	38	0.74
Chlorothalonil	922	906	0	0	0	5	4	3	3	0	1	0	0	0	0	3.1 straw.	1	16	0.49
Benomyl...	71	68	0	0	0	1	0	1	1	0	0	0	0	0	0	0.6 gra.	0	3	0.00
Maneb...	65	51	0	0	0	4	2	2	4	1	1	0	0	0	0	4.8 let.	0	14	0.00

<sup>a</sup> Columns with residues < 0.02 include the range from 0.011 – 0.020 mg/kg etc.

## Results of the Community monitoring exercise for apples in all countries

Pesticide residues in apples				Samples with quantifiable residues in classes up to and including (in mg/kg) (*)													Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
S	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50						
Acephate	385	379	0.02			1	3	2									0.170	0	1.00	N	6	0.00
Chlorpyrifos	385	361	0.05				12	7	4	1							0.790	1	0.50	E	24	0.26
Chlorp.-methyl	385	384	0.03				1										0.055	0	0.50	E	1	0.00
Methamidophos	385	385	0.02															0	0.20	N	0	0.00
Iprodione	385	385	0.20															0	10.00	E	0	0.00
Procymidone	385	384	0.10					1									0.130	1	0.02	N/E	1	0.26
Chlorothalonil	385	385	0.01															0	1.00	N	0	0.00
Benomyl...	178	157	0.10				1	7	13								0.460	0	2.00	E	21	0.00
Maneb...	146	137	0.10					1	8								0.490	0	1.00	N	9	0.00
UK	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	30	30	0.05															0		N	0	0.00
Chlorpyrifos	30	16	0.01	2	4	3	5										0.100	0	0.50	E	14	0.00
Chlorp.-methyl	30	30	0.01															0	0.50	E	0	0.00
Methamidophos	30	30	0.05															0		N	0	0.00
Iprodione	30	30	0.05															0	10.00	E	0	0.00
Procymidone	30	30	0.01															0		N	0	0.00
Chlorothalonil	n.i.																	0		N	0	
Benomyl...	n.i.																	0	2.00	E	0	
Maneb...	n.i.																	0		N	0	
I	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	498	464		2	1	3	5	8	10	4	1						1.170	1		N	34	0.20
Chlorpyrifos	688	645		4	5	12	13	4	5								0.400	0	0.50	E	43	0.00
Chlorp.-methyl	676	649		10	5	7	5										0.100	0	0.50	E	27	0.00
Methamidophos	509	508					1										0.120	0		N	1	0.00
Iprodione	583	573		1				1	2	5	1						1.500	0	10.00	E	10	0.00
Procymidone	723	700		6	8	1	2	1	3	2							0.750	9		N	23	1.24
Chlorothalonil	740	737		2	1												0.020	0		N	3	0.00
Benomyl...	494	429		2	1	5	15	15	14	7	6						1.800	0	2.00	E	65	0.00
Maneb...	45	45															n.d.	0		N	0	0.00

P	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	30	30	0.05															0	1.00	N	0	0.00
Chlorpyrifos	30	30	0.05															0	0.50	E	0	0.00
Chlorp.-methyl	30	30	0.05															0	0.50	E	0	0.00
Methamidophos	30	30	0.02															0	0.20	N	0	0.00
Iprodione	30	29	0.05						1								0.310	0	10.00	E	1	0.00
Procymidone	30	30	0.02															0	1.00	N	0	0.00
Chlorothalonil	30	30	0.02															0	0.50	N	0	0.00
Benomyl...	30	22	0.10					3	5								0.400	0	2.00	E	8	0.00
Maneb...	31	26	0.10					1		2	1	1					2.600	1	2.00	N	5	3.23
EL	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	27	27	0.02															0		N	0	0.00
Chlorpyrifos	27	25	0.01	1		1												0	0.50	E	2	0.00
Chlorp.-methyl	27	27	0.01															0	0.50	E	0	0.00
Methamidophos	27	26	0.05				1											1		N	1	3.70
Iprodione	27	27	0.02															0	10.00	E	0	0.00
Procymidone	27	27	0.02															0		N	0	0.00
Chlorothalonil	27	27	0.01															0		N	0	0.00
Benomyl...	27	24	0.05				1	1			1							0	2.00	E	3	0.00
Maneb...	53	46	0.10					1	4	2								0	3.00	N	7	0.00
F	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	424	424	0.02														0.020	0	1.00	N	0	0.00
Chlorpyrifos	424	412	0.01		1	6	3		2								0.420	0	0.50	E	12	0.00
Chlorpyrifos-ethyl	424	423	0.01		1												0.010	0	0.50	E	1	0.00
Methamidophos	182	182	0.02														0.020	0	0.30	N	0	0.00
Iprodione	424	417	0.01					3	2	1		1					3.200	0	10.00	E	7	0.00
Procymidone	424	412	0.01		1	2	1	1	3	4							0.700	11	0.02	N	12	2.59
Chlorothalonil	424	424	0.01														0.010	0	0.01	N	0	0.00
Benomyl...	284	220	0.02			13	22	21	7		1						1.400	0	2.00	E	64	0.00
Maneb...	424	416	0.05					2	2	3	1						0.850	0	2.00	N	8	0.00

FIN	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	298	298	0.05															0	N	0	0.00	
Chlorpyrifos	298	243	0.02		3	22	13	7	5	5							0.760	5	E	55	1.68	
Chlorpyrifos-methyl	298	298	0.02															0	E	0	0.00	
Methamidophos	298	298	0.05															0	N	0	0.00	
Iprodione	298	289	0.10				1	2	3	1	2						1.200	0	E	9	0.00	
Procymidone	298	298	0.05															0	N	0	0.00	
Chlorothalonil	298	298	0.05															0	N	0	0.00	
Benomyl...	90	75	0.20					2	6	4		3					4.500	3	E	15	3.33	
Maneb...	34	33	0.20						1								0.400	0	N	1	0.00	
DK	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	96	96	0.05															0	N	0	0.00	
Chlorpyrifos	96	90	0.05			4	1		1								0.400	0	E	6	0.00	
Chlorp.-methyl	96	96	0.05															0	E	0	0.00	
Methamidophos	96	96	0.05															0	N	0	0.00	
Iprodione	96	96	0.20															0	E	0	0.00	
Procymidone	96	96	0.05															0	N	0	0.00	
Chlorothalonil	96	96	0.05															0	N	0	0.00	
Benomyl...	96	89	0.05				2	2	3								0.380	0	E	7	0.00	
Maneb...	96	89	0.10					4	2	1							0.650	0	N	7	0.00	
D	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	128	128	0.01															0	N	0	0.00	
Chlorpyrifos	153	142	0.01	4	1	4	2										0.064	0	E	11	0.00	
Chlorp.-methyl	136	136	0.01															0	E	0	0.00	
Methamidophos	112	112	0.01															0	N	0	0.00	
Iprodione	134	132	0.01	1		1											0.028	0	E	2	0.00	
Procymidone	144	143	0.01	1													0.003	0	N	1	0.00	
Chlorothalonil	144	144	0.01															0	N	0	0.00	
Benomyl...	23	12				2	3	2	3		1						1.800	0	E	11	0.00	
Maneb...	66	58	0.10		1	2	1	3	1								0.240	0	N	8	0.00	

A	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	n.i.																	0	N	0	#VALUE!	
Chlorpyrifos	30	26	0.01	1	3												0.020	0	E	4	0.00	
Chlorp.-methyl	30	28	0.01	1	1												0.020	0	E	2	0.00	
Methamidophos	n.i.																	0	N	0	#VALUE!	
Iprodione	33	31	0.02				1	1									0.197	0	E	2	0.00	
Procymidone	34	32	0.01	1			1										0.080	0	N	2	0.00	
Chlorothalonil	33	33	0.01															0	N	0	0.00	
Benomyl...	30	30	0.10															0	E	0	0.00	
Maneb...	30	30	0.40															0	N	0	0.00	
L	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	21	21	0.10															0	N	0	0.00	
Chlorpyrifos	21	20	0.02		1												0.020	0	E	1	0.00	
Chlorp.-methyl	21	21	0.02															0	E	0	0.00	
Methamidophos	21	21	0.05															0	N	0	0.00	
Iprodione	21	21	0.02															0	E	0	0.00	
Procymidone	21	21	0.01															0	N	0	0.00	
Chlorothalonil	21	21	0.01															0	N	0	0.00	
Benomyl...	n.i.																	0	E			
Maneb...	21	21	0.05															0	N	0	0.00	
B	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	43	43	0.20															0	N	0	0.00	
Chlorpyrifos	71	68	0.05				2	1									0.370	0	E	3	0.00	
Chlorp.-methyl	71	68	0.05				2	1									0.110	0	E	3	0.00	
Methamidophos	43	43	0.05															0	N	0	0.00	
Iprodione	71	71	0.20															0	E	0	0.00	
Procymidone	71	71	0.02															0	N	0	0.00	
Chlorothalonil	71	71	0.05															0	N	0	0.00	
Benomyl...	71	63	0.20				2	3	2	1							0.680	0	E	8	0.00	
Maneb...	71	64	2.00								3	3	1				1.110	0	N	7	0.00	

E	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	30	30	0.02														0.000	0	0.50	N	0	0.00
Chlorpyrifos	30	30	0.05	1		3	3	3									0.200	0	0.50	E	10	0.00
Chlorp.-methyl	30	29	0.05				1										0.200	0	0.50	E	1	0.00
Methamidophos	30	30	0.10														0.010	0	0.01	N	0	0.00
Iprodione	30	25	0.02				2	2	1								0.780	0	10.00	E	3	0.00
Procymidone	30	30	0.02														0.000	0	0.02	E	0	0.00
Chlorothalonil	30	30	0.01														0.000	0	0.01	N	0	0.00
Benomyl...	n.i.			2	3	7	5	6	3								0.390	0	2.00	E	26	0.00
Maneb...	30	29	0.05				17	1									0.200	0	2.00	N	18	0.00
NL	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	95-% (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	447	447	0.02														0.000	0	0.02	N	0	0.00
Chlorpyrifos	447	437	0.05	1		3	3	3									0.200	0	0.50	E	10	0.00
Chlorp.-methyl	447	446	0.05				1										0.200	0	0.50	E	1	0.00
Methamidophos	447	447	0.01														0.010	0	0.01	N	0	0.00
Iprodione	544	541	0.02				1		2								0.780	0	10.00	E	3	0.00
Procymidone	447	447	0.02														0.000	0	0.02	E	0	0.00
Chlorothalonil	544	544	0.01														0.000	0	0.01	N	0	0.00
Benomyl...	36	10	0.10	2	3	7	5	6	3								0.390	0	2.00	E	26	0.00
Maneb...	60	42	0.10				17	1									0.200	0	2.00	N	18	0.00
IRL	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	59	59																0		N	0	0.00
Chlorpyrifos	59	59																0	0.50	E	0	0.00
Chlorp.-methyl	59	41	0.05	4	4	3	3	1	2	1							0.700	0	0.50	E	18	0.00
Methamidophos	59	59																0		N	0	0.00
Iprodione	59	59								1	1							0	10.00	E	0	0.00
Procymidone																		0		N	0	
Chlorothalonil	59	58	0.01	1													0.010	0		N	1	0.00
Benomyl...	8	6	0.10						1	1							0.570	0	2.00	E	2	0.00
Maneb...	12	10					1	1									0.130	0		N	2	0.00

EU	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	2793	2753	0.05	2	1	4	8	10	10	4	1	0	0	0	0	1.170	1	0.02-1	N	40	0.04
Chlorpyrifos	3066	2872	0.03	13	18	57	58	21	21	6	0	0	0	0	0	0.790	6	0.50	E	194	0.20
Chlorp.-methyl	3037	2982	0.03	15	11	11	11	4	2	1	0	0	0	0	0	0.160	0	0.50	E	55	0.00
Methamidophos	2546	2544	0.04	0	0	0	1	1	0	0	0	0	0	0	0	0.120	1	0.01-0.30	N	2	0.04
Iprodione	3042	2999	0.08	2	0	1	2	11	11	12	3	1	0	0	0	3.200	0	10.00	E	43	0.00
Procymidone	3037	2998	0.03	8	9	3	4	3	6	6	0	0	0	0	0	0.750	21	0.02-3	N	39	0.69
Chlorothalonil	3179	3175	0.02	3	1	0	0	0	0	0	0	0	0	0	0	0.020	0	0.01-1	N	4	0.00
Benomyl...	1408	1178	0.10	4	4	27	51	62	57	14	8	3	0	0	0	4.500	3	2.00	E	230	0.21
Maneb...	1139	1063	0.25	0	1	2	20	15	23	11	3	1	0	0	0	2.600	1	0.1-3	N	76	0.09
N	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	277	277	0.10														0		N	0	0.00
Chlorpyrifos	277	268	0.05			2	4		3							0.3	0	0.50	E	9	0.00
Chlorp.-methyl	277	276	0.05			1										0.05	0	0.50	E	1	0.00
Methamidophos	277	277	0.10														0		N	0	0.00
Iprodione	277	273	0.10					1	1	2						0.8	0	10.00	E	4	0.00
Procymidone	277	277	0.05														0		N	0	0.00
Chlorothalonil	277	277	0.02														0		N	0	0.00
Benomyl...	41	41	0.10														0	2.00	E	0	0.00
Maneb...	20	17	0.05				1	1	1							0.3	0	3.00	N	3	0.00

## Results of the Community monitoring exercise for grapes in all countries

Pesticide residues in grapes				Samples with quantifiable residues in classes up to and including (in mg/kg) (*)													Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
S	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50						
Acephate	122	116	0.02			1	1	2	2								0.380	6	0.02	E	6	4.92
Chlorpyrifos	122	114	0.05				5	1	2								0.310	0	0.50	E	8	0.00
Chlorp.-methyl	122	122	0.03															0	0.20	E	0	0.00
Methamidophos	122	115	0.02			3	3	1									0.115	7	0.2/0.01	N/E	7	5.74
Iprodione	122	97	0.20						15	7	2	1					2.570	0	10.00	E	25	0.00
Procymidone	122	118	0.10					1			3						1.630	0	5.00	E	4	0.00
Chlorothalonil	122	121	0.01					1									0.120	0	1.00	E	1	0.00
Benomyl...	74	74	0.10															0	1.00	N	0	0.00
Maneb...	72	56	0.10					7	6	2	1						1.380	0	2.00	E	16	0.00
UK	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate																		0	0.02	E	0	
Chlorpyrifos																		0	0.50	E	0	
Chlorp.-methyl																		0	0.20	E	0	
Methamidophos																		0	0.01	E	0	
Iprodione																		0	10.00	E	0	
Procymidone																		0	5.00	E	0	
Chlorothalonil																		0	1.00	E	0	
Benomyl...																		0		N	0	
Maneb...																		0	2.00	E	0	
I	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	180	177		1		1		1									0.200	2	0.02	E	3	1.11
Chlorpyrifos	257	248		1	1	2	4		1								0.230	0	0.50	E	9	0.00
Chlorp.-methyl	218	216		1			1										0.060	0	0.20	E	2	0.00
Methamidophos	207	207																0	0.01	E	0	0.00
Iprodione	261	240					3	5	4	3	5	1					3.290	0	10.00	E	21	0.00
Procymidone	287	241		1			4	5	9	18	4	4	1				3.250	0	5.00	E	46	0.00
Chlorothalonil	271	271																0	1.00	E	0	0.00
Benomyl...	214	185		1	2	1	3	7	9	3		2	1				8.870	3		N	29	1.40
Maneb...	18	18																0	2.00	E	0	0.00

P	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	35	35	0.05															0	0.02	E	0	0.00
Chlorpyrifos	35	34	0.05					1									0.200	0	0.50	E	1	0.00
Chlorp.-methyl	35	35	0.05															0	0.20	E	0	0.00
Methamidophos	35	35	0.02															0	0.01	E	0	0.00
Iprodione	35	31	0.05			1	1		1	1							0.600	0	10.00	E	4	0.00
Procymidone	35	34	0.02					1									0.130	0	5.00	E	1	0.00
Chlorothalonil	35	35	0.02															0	1.00	E	0	0.00
Benomyl...	35	33	0.10					2									0.200	0	3.00	N	2	0.00
Maneb...	30	25	0.10					2	2		1						1.100	0	2.00	E	5	0.00
EL	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	16	16	0.02															0	0.02	E	0	0.00
Chlorpyrifos	16	15	0.01		1													0	0.50	E	1	0.00
Chlorp.-methyl	16	16	0.01															0	0.20	E	0	0.00
Methamidophos	16	16	0.05															0		E	0	0.00
Iprodione	16	9	0.02		2		1	2		2								0	10.00	E	7	0.00
Procymidone	16	16	0.02															0	5.00	E	0	0.00
Chlorothalonil	16	16	0.01															0	1.00	E	0	0.00
Benomyl...	16	7	0.05				3	4	2									9		N	9	56.25
Maneb...	16	6	0.10					1	6	2	1							0	2.00	E	10	0.00
F	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	55	55	0.02															0	0.02	E	0	0.00
Chlorpyrifos	55	54	0.01			1											0.030	0	0.50	E	1	0.00
Chlorpyrifos-ethyl	55	55	0.01															0	0.20	E	0	0.00
Methamidophos	55	55	0.02															0	0.01	E	0	0.00
Iprodione	55	49	0.01			1		2	3								0.400	0	10.00	E	6	0.00
Procymidone	55	41	0.01		1	2	1	2	2	2	2	2					3.480	0	5.00	E	14	0.00
Chlorothalonil	55	55	0.01															0	1.00	E	0	0.00
Benomyl...	55	54	0.02						1								0.210	0	2.00	N	1	0.00
Maneb...	55	52	0.05					1	1		1						1.650	0	2.00	E	3	0.00

FIN	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	166	166	0.05															0	0.02	E	0	0.00
Chlorpyrifos	166	140	0.02		1	7	7	5	6								0.440	0	0.50	E	26	0.00
Chlorpyrifos-methyl	166	166	0.02															0	0.20	E	0	0.00
Methamidophos	166	166	0.05															0	0.01	E	0	0.00
Iprodione	166	116	0.10				1	12	25	4	6	2					4.100	0	10.00	E	50	0.00
Procymidone	166	149	0.05				4		3	5	3	2					2.800	0	5.00	E	17	0.00
Chlorothalonil	166	166	0.05															0	1.00	E	0	0.00
Benomyl...	37	34	0.20						2	1							0.600	0		N	3	0.00
Maneb...	47	37	0.20						5	4	1						1.100	0	2.00	E	10	0.00
DK	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	50	50	0.05															0	0.02	E	0	0.00
Chlorpyrifos	50	49	0.05				1										0.093	0	0.50	E	1	0.00
Chlorp.-methyl	50	50	0.05															0	0.20	E	0	0.00
Methamidophos	50	50	0.05															0	0.50	N	0	0.00
Iprodione	50	46	0.20						1	1	1	1					2.820	0	10.00	E	4	0.00
Procymidone	50	40	0.05				2	2		1	3	1	1				2.650	0	5.00	E	10	0.00
Chlorothalonil	50	50	0.05															0	1.00	E	0	0.00
Benomyl...	50	48	0.05						2								0.160	0	5.00	N	2	0.00
Maneb...	49	40	0.10					1	5	1	1	1					2.430	1	2.00	E	9	2.04
D	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	n.i.																	0	0.02	E	0	
Chlorpyrifos	188	171	0.01	4	2	5	2	2	1	1							0.510	1	0.50	E	17	0.53
Chlorp.-methyl	188	186	0.01			2											0.047	0	0.20	E	2	0.00
Methamidophos	134	132	0.05	1		1											0.050	1	0.01	E	2	0.75
Iprodione	144	111	0.01		2	3	8	6	7	4	3						1.600	0	10.00	E	33	0.00
Procymidone	188	126	0.01	4	3	3	7	9	12	10	6	7	1				5.800	1	5.00	E	62	0.53
Chlorothalonil	188	188	0.01															0	1.00	E	0	0.00
Benomyl...	39	36			1					1	1						1.100	1	3.00	N	3	2.56
Maneb...	103	76	0.10					7	16	2		1	1				5.300	2	2.00	E	27	1.94

A	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	n.i.																	0	0.02	E	0	
Chlorpyrifos	24	21	0.01	2					1								0.375	0	0.50	E	3	0.00
Chlorp.-methyl	24	24	0.01															0	0.20	E	0	0.00
Methamidophos	n.i.																	0	0.01	E	0	
Iprodione	31	27	0.02	1			1		2								0.279	0	10.00	E	4	0.00
Procymidone	33	17	0.01	6	2		1		1	3	3						1.692	0	5.00	E	16	0.00
Chlorothalonil	31	31	0.01															0	1.00	E	0	0.00
Benomyl...	24	21	0.10				1		1	1							0.655	0	3.00	N	3	0.00
Maneb...	25	23	0.40						1		1						1.100	0	2.00	E	2	0.00
L	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	30	29	0.10								1						1.900	1	0.02	E	1	3.33
Chlorpyrifos	30	30	0.02															0	0.50	E	0	0.00
Chlorp.-methyl	30	30	0.02															0	0.20	E	0	0.00
Methamidophos	30	30	0.05															0	0.01	E	0	0.00
Iprodione	30	26	0.02					1	2	1							0.700	0	10.00	E	4	0.00
Procymidone	30	27	0.01							2	1						0.900	0	5.00	E	3	0.00
Chlorothalonil	30	30	0.01															0	1.00	E	0	0.00
Benomyl...	n.i.																	0		N	0	
Maneb...	30	25	0.05					4		1							0.510	0	2.00	E	5	0.00
B	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	39	39	0.20															0	0.02	E	0	0.00
Chlorpyrifos	39	39	0.05															0	0.50	E	0	0.00
Chlorp.-methyl	39	39	0.05															0	0.20	E	0	0.00
Methamidophos	39	38	0.05			1											0.050	1	0.01	N-E	1	2.56
Iprodione	39	37	0.20							1	1						1.370	0	10.00	E	2	0.00
Procymidone	39	32	0.02							3	4						1.600	0	5.00	E	7	0.00
Chlorothalonil	39	39	0.05															0	1.00	E	0	0.00
Benomyl...	39	39	0.20															0	2.00	N	0	0.00
Maneb...	39	38	2.00									1					2.600	1	2.00	E	1	2.56

E	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	30	30	0.02															0	0.02	E	0	0.00
Chlorpyrifos	30	24	0.02		1	2		2	1								0.290	0	0.50	E	6	0.00
Chlorp.-methyl	30	30	0.05															0	0.20	E	0	0.00
Methamidophos	30	30	0.01															0	0.01	E	0	0.00
Iprodione	30	29	0.02									1					0.640	0	10.00	E	1	0.00
Procymidone	30	26	0.02					1	2	1							0.870	0	5.00	E	4	0.00
Chlorothalonil	30	30	0.01															0	1.00	E	0	0.00
Benomyl...	n.i.																	0			0	
Maneb...	30	29	0.05								1						0.900	0	2.00	E	1	0.00
NL	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	95-% (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	151	146	0.02					1	4								0.300	3	0.02	E	5	1.99
Chlorpyrifos	151	142	0.05	1		1	1	1	4	1							0.630	1	0.50	E	9	0.66
Chlorp.-methyl	151	150	0.05						1								0.200	0	0.20	E	1	0.00
Methamidophos	151	149	0.01				2										0.070	2	0.01	E	2	1.32
Iprodione	203	178	0.02	1	1	2	1	4	5	5	4	1	1				2.100	0	10.00	E	25	0.00
Procymidone	203	176	0.02	1	1	1		2	4	7	6	4			1		4.880	1	5.00	E	27	0.49
Chlorothalonil	203	203	0.01															0	1.00	E	0	0.00
Benomyl...	8	3	0.10				1	1	2	1							0.700	0	3.00	N	5	0.00
Maneb...	23	12	0.10				5	3	3								0.400	0	2.00	E	11	0.00
IRL	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	11	11																0	0.02	E	0	0.00
Chlorpyrifos	11	10	0.05			1											0.050	0	0.50	E	1	0.00
Chlorp.-methyl	11	11																0	0.20	E	0	0.00
Methamidophos	11	11																0	0.01	E	0	0.00
Iprodione	11	8	0.02					2	1								0.670	0	10.00	E	3	0.00
Procymidone																		0	5.00	E	0	
Chlorothalonil	11	11																0	1.00	E	0	0.00
Benomyl...	7	7																0		N	0	0.00
Maneb...	9	7	0.05				2											0	2.00	E	2	0.00

EU	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	1020	1005	0.06	1	0	2	1	4	6	0	1	0	0	0	0	0	1.900	12	0.02	E	15	1.18
Chlorpyrifos	1309	1216	0.03	8	6	21	26	12	17	3	0	0	0	0	0	0	0.630	3	0.50	E	93	0.23
Chlorp.-methyl	1270	1265	0.03	1	0	2	1	1	0	0	0	0	0	0	0	0	0.060	0	0.20	E	5	0.00
Methamidophos	1181	1169	0.04	1	0	5	5	1	0	0	0	0	0	0	0	0	0.070	11	0.01	E	12	0.93
Iprodione	1328	1110	0.07	2	5	7	17	36	76	38	26	10	1	0	0	0	4.1*	0	10.00	E	218	0.00
Procymidone	1389	1152	0.03	12	7	12	24	26	53	45	34	21	2	0	1	0	6.500	3	5.00	E	237	0.22
Chlorothalonil	1382	1381	0.02	0	0	0	0	1	0	0	0	0	0	0	0	0	0.120	0	1.00	E	1	0.00
Benomyl...	623	563	0.10	1	3	1	9	16	18	8	1	2	1	0	0	0	8.870	13	0.05-5	N	60	2.09
Maneb...	567	460	0.26	0	0	0	10	27	45	14	7	3	1	0	0	0	5.300	4	2.00	E	107	0.71
N	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	135	135	0.10															0	0.02	E	0	0.00
Chlorpyrifos	135	125	0.05			2	6		1	1							0.510	1	0.50	E	10	0.74
Chlorp.-methyl	135	135	0.05															0	0.20	E	0	0.00
Methamidophos	135	135	0.10															0	0.01	E	0	0.00
Iprodione	135	106	0.10				1	4	9	7	4	4					2.400	0	10.00	E	29	0.00
Procymidone	135	109	0.05				4	1	8	6	2	4	1				6.500	1	5.00	E	26	0.74
Chlorothalonil	135	135	0.02															0	1.00	E	0	0.00
Benomyl...	25	22	0.10				1		1	1							0.600	0		N	3	0.00
Maneb...	21	16	0.05				3	1		1							0.600	0	2.00	E	5	0.00



P	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	35	35	0.05															0	0.02	E	0	0.00
Chlorpyriphos	35	34	0.05					1									0.20	0	0.20	E	1	0.00
Chlorp.-methyl	35	35	0.05															0	0.50	E	0	0.00
Methamidophos	35	35	0.02															0	0.01	N	0	0.00
Iprodione	35	31	0.05			1	1		1	1							0.60	0	10.00	E	4	0.00
Procymidone	35	34	0.02					1									0.13	0	5.00	E	1	0.00
Chlorothalonil	35	35	0.02															0	1.00	N	0	0.00
Benomyl...	35	33	0.10					2									0.20	0	2.00	N	2	0.00
Maneb...	30	25	0.10					2	2		1						1.10	0	2.00	E	5	0.00
EL	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	13	13	0.02															0	0.02	E	0	0.00
Chlorpyriphos	13	13	0.01															0	0.20	E	0	0.00
Chlorp.-methyl	13	13	0.01															0	0.50	E	0	0.00
Methamidophos	13	7	0.05			2	1	1	1		1							6		N	6	46.15
Iprodione	13	13	0.02															0	10.00	E	0	0.00
Procymidone	13	13	0.02															0	5.00	E	0	0.00
Chlorothalonil	13	8	0.01			2	1		2									5		N	5	38.46
Benomyl...	13	11	0.05					2										2		N	2	15.38
Maneb...	n.i.		0.10																2.00	E		
F	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	132	132	0.02															0	0.02	E	0	0.00
Chlorpyriphos	132	132	0.01															0	0.20	E	0	0.00
Chlorpyriphos-ethyl	132	132																0	0.50	E	0	0.00
Methamidophos	132	132	0.02															0		N	0	0.00
Iprodione	132	119	0.01			1	3	4	2	2		1					3.50	0	10.00	E	13	0.00
Procymidone	132	100	0.01		2	3	4	7	4	7	2	3					3.48	0	5.00	E	32	0.00
Chlorothalonil	132	122	0.01		2	2		3		2			1				6.30	1	2.00	N	10	0.76
Benomyl...	132	124	0.02					3	2	2	1						1.17	8	0.02/2	N	8	6.06
Maneb...	132	128	0.05					1	1		1	1					7.80	2	2.00	E	4	1.52

FIN	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	147	147	0.05															0	0.02	E	0	0.00
Chlorpyrifos	147	147	0.02															0	0.20	E	0	0.00
Chlorpyrifos-methyl	147	147	0.02															0	0.50	E	0	0.00
Methamidophos	147	147	0.05															0		N	0	0.00
Iprodione	191	153	0.05			5	16	12	4	1							0.67	0	10.00	E	38	0.00
Procymidone	147	132	0.05				4	6	3	2							0.93	0	5.00	E	15	0.00
Chlorothalonil	147	145	0.05				1	1									0.19	0		N	2	0.00
Benomyl...	17	16	0.20					1									0.20	0		N	1	0.00
Maneb...	16	16	0.20															0	2.00	E	0	0.00
DK	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	72	72	0.05															0	0.02	E	0	0.00
Chlorpyrifos	72	71	0.05				1										0.07	0	0.20	E	1	0.00
Chlorp.-methyl	72	72	0.05															0	0.50	E	0	0.00
Methamidophos	72	72	0.05															0	0.50	N	0	0.00
Iprodione	72	70	0.20						1	1							0.94	0	10.00	E	2	0.00
Procymidone	72	67	0.05					2	3								0.45	0	5.00	E	5	0.00
Chlorothalonil	72	69	0.05			2				1							0.61	0	1.00	N	3	0.00
Benomyl...	72	66	0.05				1		2	3							0.98	0	2.00	N	6	0.00
Maneb...	65	55	0.10				1	3	1	3	2						1.53	0	2.00	E	10	0.00
D	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	n.i.																	0	0.02	E	0	
Chlorpyrifos	549	546	0.01	1		2												0	0.20	E	3	0.00
Chlorp.-methyl	542	538	0.01		2		1			1							0.59	1	0.50	E	4	0.18
Methamidophos	417	417	0.05															0	0.01	N	0	0.00
Iprodione	454	432	0.01	1		2	3	4	7	4	1						1.50	0	10.00	E	22	0.00
Procymidone	604	388	0.01	10	14	47	36	40	49	16	4						1.60	0	5.00	E	216	0.00
Chlorothalonil	n.i.																	0	1.00	N	0	
Benomyl...	39	35			1	1	1	1									0.11	0	1.50	N	4	0.00
Maneb...	429	387	0.10	3	5	5	2	13	10	4							1.00	0	2.00	E	42	0.00

A	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	n.i.																	0	0.02	E	0	
Chlorpyrifos	28	26	0.01	2													0.00	0	0.20	E	2	0.00
Chlorp.-methyl	28	27	0.01			1											0.03	0	0.50	E	1	0.00
Methamidophos	n.i.																	0		N	0	
Iprodione	29	24	0.02		1	2		1	1								0.39	0	10.00	E	5	0.00
Procymidone	29	15	0.01	2	3			1	4	1	3						1.27	0	5.00	E	14	0.00
Chlorothalonil	29	28	0.01	1													0.01	0	0.01	N	1	0.00
Benomyl...	28	23	0.10				2				3						0.54	0	1.50	N	5	0.00
Maneb...	28	28	0.40															0	2.00	E	0	0.00
L	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	20	20	0.10															0	0.02	E	0	0.00
Chlorpyrifos	20	20	0.01															0	0.20	E	0	0.00
Chlorp.-methyl	20	20	0.02															0	0.50	E	0	0.00
Methamidophos	20	20	0.05															0		N	0	0.00
Iprodione	20	20	0.02															0	10.00	E	0	0.00
Procymidone	20	16	0.01				1	2	1								0.21	0	5.00	E	4	0.00
Chlorothalonil	20	20	0.01															0		N	0	0.00
Benomyl...	n.i.																	0		N	0	
Maneb...	20	20	0.05															0	2.00	E	0	0.00
B	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	39	39	0.20															0	0.02	E	0	0.00
Chlorpyrifos	39	39	0.05															0	0.20	E	0	0.00
Chlorp.-methyl	39	39	0.05															0	0.50	E	0	0.00
Methamidophos	39	39	0.05															0	0.01	N-E	0	0.00
Iprodione	39	39	0.20															0	10.00	E	0	0.00
Procymidone	39	34	0.02						2	2	1						1.71	0	5.00	E	5	0.00
Chlorothalonil	39	39	0.05															0	0.01	N	0	0.00
Benomyl...	39	39	0.20															0	2.00	N	0	0.00
Maneb...	39	38	2.00								1						1.30	0	2.00	E	1	0.00

E	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	30	30	0.01															0	0.02	E	0	0.00
Chlorpyrifos	30	29	0.05					1									0.19	0	0.20	E	1	0.00
Chlorp.-methyl	30	30	0.05															0	0.50	E	0	0.00
Methamidophos	30	30	0.01															0	0.01	N	0	0.00
Iprodione	30	30	0.02															0	10.00	E	0	0.00
Procymidone	30	30	0.02															0	5.00	E	0	0.00
Chlorothalonil	30	30	0.01															0	1.00	N	0	0.00
Benomyl...	n.i.																	0		N	0	
Maneb...	30	28	0.05								1	1					3.34	1	2.00	E	2	3.33
NL	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	95-% (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	470	470	0.02															0	0.02	E	0	0.00
Chlorpyrifos	756	756	0.05															0	0.20	E	0	0.00
Chlorp.-methyl	470	465	0.05	1			2	2									0.18	0	0.50	E	5	0.00
Methamidophos	470	470	0.01															0	0.01	N	0	0.00
Iprodione	756	590	0.02	3		21	25	32	47	24	10	4					1.45	0	10.00	E	166	0.00
Procymidone	756	734	0.02	1	1	1	5	4	3	4	1	2					3.23	0	5.00	E	22	0.00
Chlorothalonil	756	754	0.01							1	1						1.44	2	0.01	N	2	0.26
Benomyl...	73	60	0.10	1	1	5	2	1	1	2							0.62	0	3.00	N	13	0.00
Maneb...	229	166	0.10				27	16	18	1	1							0	2.00	E	63	0.00
IRL	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	20	20																0	0.02	E	0	0.00
Chlorpyrifos	20	20																0	0.20	E	0	0.00
Chlorp.-methyl	20	20																0	0.50	E	0	0.00
Methamidophos	20	20																0		N	0	0.00
Iprodione	20	16	0.02			1		1	1	1							0.60	0	10.00	E	4	0.00
Procymidone																		0	5.00	E	0	
Chlorothalonil	20	19	0.01							1							0.65	0		N	1	0.00
Benomyl...																		0		N	0	
Maneb...	2	1	0.05						1								0.37	0	2.00	E	1	0.00

EU	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	1528	1528	0.06	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0.02	E	0	0.00
Chlorpyrifos	2455	2443	0.03	5	0	2	2	3	0	0	0	0	0	0	0	0	0.20	0	0.20	E	12	0.00
Chlorp.-methyl	2145	2122	0.03	2	5	4	8	2	1	1	0	0	0	0	0	0	0.59	1	0.50	E	23	0.05
Methamidophos	1940	1932	0.04	1	0	3	1	1	1	0	1	0	0	0	0	0	0.04	6	0.01-0.50	N	8	0.31
Iprodione	2395	2040	0.07	4	1	33	59	72	100	57	18	11	0	0	0	0	3.70	0	10.00	E	355	0.00
Procymidone	2491	2053	0.03	14	20	59	62	86	116	54	17	10	0	0	0	0	3.48	0	5.00	E	438	0.00
Chlorothalonil	1899	1852	0.02	3	2	8	7	9	6	9	1	1	1	0	0	0	13.519	10	0.01-2.00	N	47	0.53
Benomyl...	721	663	0.10	2	2	7	8	9	10	14	5	1	0	0	0	0	7.438	18	0.02-2.00	N	58	2.50
Maneb...	1114	970	0.27	3	5	5	30	36	40	15	6	3	1	0	0	0	19.3	4	2.00	E	144	0.36
N	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	205	205	0.10															0	0.02	E	0	0.00
Chlorpyrifos	205	205	0.05															0	0.20	E	0	0.00
Chlorp.-methyl	205	205	0.05															0	0.50	E	0	0.00
Methamidophos	205	205	0.10															0		N	0	0.00
Iprodione	205	143	0.10				10	14	22	10	4	2					3.70	0	10.00	E	62	0.00
Procymidone	205	203	0.05							1	1						2.70	0	5.00	E	2	0.00
Chlorothalonil	205	190	0.02				4	4	3	3		1					3.10	1	1.00	N	15	0.49
Benomyl...	5	5	0.10															0		N	0	0.00
Maneb...	5	5	0.05															0	2.00	E	0	0.00



P	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	59	58	0.05				1										0.090	0	0.50	E	1	0.00
Chlorpyrifos	76	76	0.05															0	0.50	E	0	0.00
Chlorp.-methyl	76	76	0.05															0	0.50	E	0	0.00
Methamidophos	59	50	0.02	1	4	2	1	1									0.120	0	0.50	E	9	0.00
Iprodione	76	73	0.05				1	1		1							0.530	0	5.00	E	3	0.00
Procymidone	76	65	0.00		1	1	2	2	4	1							0.830	0	2.00	E	11	0.00
Chlorothalonil	76	76	0.02															0	2.00	E	0	0.00
Benomyl...	50	48	0.10					1		1							0.610	0	2.00	N	2	0.00
Maneb...	80	51	0.10				1	9	8	2	4	5					2.500	0	3.00	N	29	0.00
EL	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	20	19	0.02				1											0	0.50	E	1	0.00
Chlorpyrifos	20	20	0.01															0	0.50	E	0	0.00
Chlorp.-methyl	20	19	0.01	1														0	0.50	E	1	0.00
Methamidophos	20	17	0.05			1		2										0	0.50	E	3	0.00
Iprodione	20	20	0.02															0	5.00	E	0	0.00
Procymidone	20	20	0.02															0	2.00	E	0	0.00
Chlorothalonil	20	17	0.01			3												0	2.00	E	3	0.00
Benomyl...	20	19	0.05					1										1		N	1	5.00
Maneb...	57	59	0.10					1	8	9								0	3.00	N	18	0.00
F	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	188	188	0.02															0	0.50	E	0	0.00
Chlorpyrifos	188	188	0.01															0	0.50	E	0	0.00
Chlorpyrifos-ethyl	188	188	0.01															0	0.50	E	0	0.00
Methamidophos	188	187	0.02							1							0.800	1	0.50	E	1	0.53
Iprodione	188	183	0.01		1	3	1										0.070	0	5.00	E	5	0.00
Procymidone	188	164	0.01	1	7	7	6	2	1								0.700	0	2.00	E	24	0.00
Chlorothalonil	188	188	0.01															0	2.00	E	0	0.00
Benomyl...	188	187	0.02							1							0.600	0	1.00	N	1	0.00
Maneb...	188	170	0.05				1	8	3	1	5						3.800	5	2.00	N	18	2.66

FIN	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	87	87	0.05															0	0.50	E	0	0.00
Chlorpyrifos	87	87	0.02															0	0.50	E	0	0.00
Chlorpyrifos-methyl	87	87	0.02															0	0.50	E	0	0.00
Methamidophos	87	86	0.05				1										0.060	0	0.50	E	1	0.00
Iprodione	111	111	0.10															0	5.00	E	0	0.00
Procymidone	87	77	0.05			1	4	3	2								0.270	0	2.00	E	10	0.00
Chlorothalonil	87	87	0.05															0	2.00	E	0	0.00
Benomyl...	13	13	0.20															0		N	0	0.00
Maneb...	15	15	0.20															0		N	0	0.00
DK	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	48	48	0.05															0	0.50	E	0	0.00
Chlorpyrifos	48	48	0.05															0	0.50	E	0	0.00
Chlorp.-methyl	48	48	0.05															0	0.50	E	0	0.00
Methamidophos	48	48	0.05															0	0.50	E	0	0.00
Iprodione	48	47	0.20					1									0.150	0	5.00	E	1	0.00
Procymidone	48	43	0.05			1	4										0.090	0	2.00	E	5	0.00
Chlorothalonil	48	47	0.05		1												0.015	0	2.00	E	1	0.00
Benomyl...	48	48	0.05															0	2.00	N	0	0.00
Maneb...	48	44	0.10					3	1								0.280	0	1.00	N	4	0.00
D	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	98	98	0.10															0	0.50	E	0	0.00
Chlorpyrifos	122	121	0.01	1													0.007	0	0.50	E	1	0.00
Chlorp.-methyl	117	117	0.01															0	0.50	E	0	0.00
Methamidophos	89	89	0.03															0	0.50	E	0	0.00
Iprodione	97	97	0.01															0	5.00	E	0	0.00
Procymidone	119	101	0.01	1	1	9	3	3	1								0.330	0	2.00	E	18	0.00
Chlorothalonil	114	103	0.01	4	3	1	1		1	1							0.650	0	2.00	E	11	0.00
Benomyl...	21	21																0	1.00	N	0	0.00
Maneb...	82	80	0.10					1	1								0.250	0	1.00	N	2	0.00

A	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	23	23	0.10															0	0.50	E	0	0.00
Chlorpyrifos	23	23	0.01															0	0.50	E	0	0.00
Chlorp.-methyl	23	23	0.01															0	0.50	E	0	0.00
Methamidophos	23	23	0.01															0	0.50	E	0	0.00
Iprodione	28	26	0.02				1		1								0.260	0	5.00	E	2	0.00
Procymidone	28	23	0.01	1		1	1	2									0.200	0	2.00	E	5	0.00
Chlorothalonil	28	26	0.01		1			1									0.110	0	2.00	E	2	0.00
Benomyl...	n.i.																	0		N	0	
Maneb...	n.i.																	0		N	0	
L	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	21	21	0.1															0	0.5	E	0	0
Chlorpyrifos	21	21	0.02															0	0.5	E	0	0
Chlorp.-methyl	21	21	0.02															0	0.5	E	0	0
Methamidophos	21	21	0.05															0	0.5	E	0	0
Iprodione	21	20	0.02					1									0.18	0	5	E	1	0
Procymidone	21	18	0.01								3						0.09	0	2	E	3	0
Chlorothalonil	21	20	0.01			1											0.03	0	2	E	1	0
Benomyl...	n.i.																	0		N	0	
Maneb...	n.i.																	0		N	0	
B	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	50	50	0.20															0	0.50	E	0	0.00
Chlorpyrifos	91	91	0.05															0	0.50	E	0	0.00
Chlorp.-methyl	91	91	0.05															0	0.50	E	0	0.00
Methamidophos	50	50	0.05															0	0.50	E	0	0.00
Iprodione	91	90	0.20					1									0.400	0	5.00	E	1	0.00
Procymidone	91	87	0.02					2	1	1							1.000	0	2.00	E	4	0.00
Chlorothalonil	91	91	0.05															0	2.00	E	0	0.00
Benomyl...	91	90	0.20					1									0.160	0	2.00	N	1	0.00
Maneb...	91	87	2.00					1	3								0.460	0	2.00	N	4	0.00

E	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	30	29	0.02			1											0.030	0	0.50	E	1	0.00
Chlorpyrifos	30	30	0.05															0	0.50	E	0	0.00
Chlorp.-methyl	30	30	0.05															0	0.50	E	0	0.00
Methamidophos	30	30	0.01															0	0.50	E	0	0.00
Iprodione	30	30	0.02															0	5.00	E	0	0.00
Procymidone	30	27	0.02			1		2									0.200	0	2.00	E	3	0.00
Chlorothalonil	30	30	0.01															0	2.00	E	0	0.00
Benomyl...	n.i.																	0		N	0	
Maneb...	30	30	0.05															0	3.00	N	0	0.00
NL	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	95-% (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	354	354	0.02															0	0.50	E	0	0.00
Chlorpyrifos	454	454	0.05															0	0.50	E	0	0.00
Chlorp.-methyl	454	454	0.05															0	0.50	E	0	0.00
Methamidophos	354	354	0.01															0	0.50	E	0	0.00
Iprodione	454	440	0.02			6	5	2		1							0.560	0	5.00	E	14	0.00
Procymidone	454	412	0.02	4	3	8	14	9	4								0.230	0	2.00	E	42	0.00
Chlorothalonil	454	439	0.01	5	3	3	2		1		1						1.100	0	2.00	E	15	0.00
Benomyl...	15	15	0.10															0	3.00	N	0	0.00
Maneb...	54	51	0.10				3											0	2.00	N	3	0.00
IRL	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	22	22																0	0.50	E	0	0.00
Chlorpyrifos	22	22																0	0.50	E	0	0.00
Chlorp.-methyl	22	22																0	0.50	E	0	0.00
Methamidophos	22	22																0	0.50	E	0	0.00
Iprodione	22	20	0.02					1		1							1.080	0	5.00	E	2	0.00
Procymidone																		0	2.00	E	0	
Chlorothalonil	22	18	0.01			2		1		1							1.020	0	2.00	E	4	0.00
Benomyl...	11	11																0		N	0	0.00
Maneb...	12	11	0.05				1										0.100	0		N	1	0.00

EU	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	1663	1655	0.07	0	0	2	4	0	2	0	0	0	0	0	0	0	0.220	0	0.50	E	8	0.00
Chlorpyrifos	1988	1986	0.03	2	0	0	0	0	0	0	0	0	0	0	0	0	0.004	0	0.50	E	2	0.00
Chlorp.-methyl	2003	2000	0.03	2	0	0	0	0	1	0	0	0	0	0	0	0	0.420	0	0.50	E	3	0.00
Methamidophos	1695	1672	0.04	1	4	9	4	3	1	1	0	0	0	0	0	0	0.800	1	0.50	E	23	0.06
Iprodione	2042	2008	0.07	0	2	9	10	7	3	2	1	0	0	0	0	0	0.700	0	5.00	E	34	0.00
Procymidone	2053	1866	0.03	8	17	38	50	46	22	5	1	0	0	0	0	0	1.300	0	2.00	E	187	0.00
Chlorothalonil	2093	2002	0.02	11	21	26	12	7	9	3	2	0	0	0	0	0	1.100	0	2.00	E	91	0.00
Benomyl...	748	735	0.10	0	0	4	4	3	0	2	0	0	0	0	0	0	0.600	1	0.05-2	N	13	0.13
Maneb...	817	754	0.25	0	0	0	6	18	30	14	5	10	0	0	0	0	3.800	5	0.1-3	N	83	0.61
N	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	137	137	0.10															0	0.50	E	0	0.00
Chlorpyrifos	137	137	0.05															0	0.50	E	0	0.00
Chlorp.-methyl	137	137	0.05															0	0.50	E	0	0.00
Methamidophos	137	137	0.10															0	0.50	E	0	0.00
Iprodione	137	134	0.10				2	1									0.200	0	5.00	E	3	0.00
Procymidone	137	131	0.05				4	1	1								0.300	0	2.00	E	6	0.00
Chlorothalonil	137	136	0.02				1										0.060	0	2.00	E	1	0.00
Benomyl...	0	0	0.10															0		N		
Maneb...	8	8	0.05															0		N	0	0.00



P	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	45	45	0.05														1.00	E		0	0.00	
Chlorpyrifos	63	63	0.05														0.10	N		0	0.00	
Chlorp.-methyl	63	63	0.05														0.05	E (N)		0	0.00	
Methamidophos	45	42	0.02					1		1	1						1.600	E		3	4.44	
Iprodione	63	59	0.05			1	1		1	1							0.640	E		4	0.00	
Procymidone	63	55	0.05				1	1	2	3	1						2.000	E		8	0.00	
Chlorothalonil	63	63	0.02														0.01	N		0	0.00	
Benomyl...	45	35	0.10						2	3	2	3					4.700	N		10	11.11	
Maneb...	153	104	0.10					1	9	10	4	12	5	4	2	2	63.000	E		49	8.50	
EL	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	8	8	0.02														1.00	E		0	0.00	
Chlorpyrifos	8	8	0.01															N		0	0.00	
Chlorp.-methyl	8	8	0.01														0.05	E		0	0.00	
Methamidophos	8	8	0.05														0.20	E		0	0.00	
Iprodione	8	8	0.02														10.00	E		0	0.00	
Procymidone	8	8	0.02														5.00	E		0	0.00	
Chlorothalonil	8	7	0.01				1										0.50	N		1	0.00	
Benomyl...	8	7	0.05					1										N		1	12.50	
Maneb...	45	29	0.10						3	4	4	4			1			E		16	2.22	
F	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	484	451	0.02			7	3	7	6	4	4	1		1			11.200	E		33	1.24	
Chlorpyrifos	484	483	0.01		1												0.015	N		1	0.00	
Chlorpyrifos-ethyl	484	483	0.01		1												0.010	E		1	0.00	
Methamidophos	247	218	0.01		7	7	8	3		3	1						1.800	E		29	1.62	
Iprodione	484	315	0.01		4	4	13	18	26	23	20	38	18		5		32.000	E		169	1.03	
Procymidone	484	400	0.01		7	12	9	18	14	9	11	2	2				6.100	E		84	0.41	
Chlorothalonil	484	477	0.01			1	1				2	1			2		28.000	N		7	1.45	
Benomyl...	252	242	0.02				2	1	3	2	1	1					1.800	N		10	3.17	
Maneb...	484	274	0.05				1	2	13	48	53	43	29	21			14.800	E		210	10.33	

	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
FIN																						
Acephate	123	119	0.05					1		1	1	1					3.100	2	1.00	E	4	1.63
Chlorpyrifos	123	123	0.02															0		N	0	0.00
Chlorpyrifos-methyl	123	123	0.02															0	0.05	E	0	0.00
Methamidophos	123	119	0.05					1	3								0.270	3	0.20	E	4	2.44
Iprodione	123	121	0.10					1		1							0.930	0	10.00	E	2	0.00
Procymidone	123	108	0.05			1	3	2	1			5	3				6.600	3	5.00	E	15	2.44
Chlorothalonil	123	123	0.05															0		N	0	0.00
Benomyl...	40	34	0.20						3		1	2					2.400	0		N	6	0.00
Maneb...	24	24	0.20															0	5.00	E	0	0.00
DK																						
Acephate	61	61	0.05															0	1.00	E	0	0.00
Chlorpyrifos	61	61	0.05															0	0.50	N	0	0.00
Chlorp.-methyl	61	61	0.05															0	0.05	E	0	0.00
Methamidophos	61	61	0.05															0	0.20	E	0	0.00
Iprodione	61	58	0.20						1	1		1					2.410	0	10.00	E	3	0.00
Procymidone	61	57	0.05				1	2	1								0.410	0	5.00	E	4	0.00
Chlorothalonil	61	61	0.05															0	1.00	N	0	0.00
Benomyl...	61	60	0.05				1										0.096	0	2.00	N	1	0.00
Maneb...	60	55	0.10					1	1	2	1						1.200	0	5.00	E	5	0.00
D																						
Acephate	47	47	0.05															0	1.00	E	0	0.00
Chlorpyrifos	48	48	0.01															0	0.50	N	0	0.00
Chlorp.-methyl	n.i.																	0	0.50	E	0	
Methamidophos	43	43	0.05															0	0.20	E	0	0.00
Iprodione	45	29	0.02			3	3	4	2	2	1	1					3.400	0	10.00	E	16	0.00
Procymidone	48	44	0.01		1				3								0.390	0	5.00	E	4	0.00
Chlorothalonil	47	47	0.01															0	2.00	N	0	0.00
Benomyl...	17	17																0	1.00	N	0	0.00
Maneb...	51	44	0.10					2	1		3		1				5.500	0	5.00	E	7	0.00

A	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	9	9	0.10															0	1.00	E	0	0.00
Chlorpyrifos	30	26	0.01	4													0.004	0	0.05	N	4	0.00
Chlorp.-methyl	30	29	0.01				1										0.090	1	0.05	E	1	3.33
Methamidophos	9	9	0.01															0	0.20	E	0	0.00
Iprodione	30	29	0.02					1									0.180	0	10.00	E	1	0.00
Procymidone	32	18	0.01	2	1	3		5	2				1				4.867	0	5.00	E	14	0.00
Chlorothalonil	30	28	0.01					1		1							0.646	0	2.50	N	2	0.00
Benomyl...	21	21	0.10															0	1.00	N	0	0.00
Maneb...	22	14	0.40					1		3	1	3					4.700	0	5.00	E	8	0.00
L	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	20	20	0.10															0	1.00	E	0	0.00
Chlorpyrifos	20	20	0.02															0		N	0	0.00
Chlorp.-methyl	20	20	0.02															0	0.05	E	0	0.00
Methamidophos	20	20	0.05															0	0.20	E	0	0.00
Iprodione	20	7	0.02					3	1	4	1	1	3				8.200	0	10.00	E	13	0.00
Procymidone	20	15	0.01					2	1				1	1			5.400	1	5.00	E	5	5.00
Chlorothalonil	20	20	0.01															0		N	0	0.00
Benomyl...	n.i.																	0		N	0	
Maneb...	20	15	0.05							2	2	1					4.400	0	5.00	E	5	0.00
B	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	95	95	0.20															0	1.00	E	0	0.00
Chlorpyrifos	167	167	0.05															0	0.20	N	0	0.00
Chlorp.-methyl	167	167	0.05															0	0.05	E	0	0.00
Methamidophos	95	95	0.05															0	0.20	E	0	0.00
Iprodione	167	84	0.20					4	7	18	19	26	7	1	1		20.500	2	10.00	E	83	1.20
Procymidone	167	163	0.02					1	3								0.400	0	5.00	E	4	0.00
Chlorothalonil	167	167	0.05															0	0.01	N-E	0	0.00
Benomyl...	167	164	0.20					1	2								0.310	0	2.00	N	3	0.00
Maneb...	167	115	2.00					1	7	13	7	20	4				9.680	4	5.00	E	52	2.40

E	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	30	27	0.02					1		1	1						1.560	1	1.00	E	3	3.33
Chlorpyrifos	30	28	0.05			1	1										0.060	0	0.50	N	2	0.00
Chlorp.-methyl	30	28	0.05			1		1									0.200	1	0.05	E	2	3.33
Methamidophos	30	28	0.01			1	1										0.070	0	0.20	E	2	0.00
Iprodione	30	30	0.02															0	10.00	E	0	0.00
Procymidone	30	27	0.02				1		1	1							0.520	0	5.00	E	3	0.00
Chlorothalonil	30	30	0.01															0	0.01	N	0	0.00
Benomyl...	n.i.																	0		N	0	
Maneb...	30	28	0.05						1		1						1.260	0	5.00	E	2	0.00
NL	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	95-% (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	903	902	0.02								1						0.890	0	1.00	E	1	0.00
Chlorpyrifos	1248	1248	0.05															0	0.10	N	0	0.00
Chlorp.-methyl	1248	1248	0.05															0	0.05	E	0	0.00
Methamidophos	903	902	0.01				1										0.060	0	0.20	E	1	0.00
Iprodione	1248	740	0.02	4	6	22	76	64	100	81	72	55	27	1			5.310	1	10.00	E	508	0.08
Procymidone	1248	1195	0.02	4		5	10	14	10	7		3					3.400	0	5.00	E	53	0.00
Chlorothalonil	1248	1238	0.01	4	1	2	1		1		1						1.700	4	0.01	N	10	0.32
Benomyl...	51	12	0.10			4	3	2	11	13	5		1				1.700	1	3.00	N	39	1.96
Maneb...	226	149	0.10				30	13	16	4	8	2	2	1	1		5.620	8	5.00	E	77	3.54
IRL	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	36	36																0	1.00	E	0	0.00
Chlorpyrifos	36	36																0		N	0	0.00
Chlorp.-methyl	36	36																0		E	0	0.00
Methamidophos	36	36																0	0.20	E	0	0.00
Iprodione	36	19	0.02				1	4	1	3	4	1	2	1			30.030	3	10.00	E	17	8.33
Procymidone																		0	5.00	E	0	
Chlorothalonil	36	33	0.01	1		1		1										0		N	3	0.00
Benomyl...	10	10																0		N	0	0.00
Maneb...	14	11	0.05				1		2								0.240	0	5.00	E	3	0.00

EU	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	2510	2426	0.06	0	1	7	7	11	11	8	6	2	0	1	0	0	11.200	9	1.00	E	54	0.36
Chlorpyrifos	3106	3097	0.03	4	1	2	1	1	0	0	0	0	0	0	0	0	0.120	1		N	9	0.03
Chlorp.-methyl	3009	3003	0.03	1	1	2	1	1	0	0	0	0	0	0	0	0	0.200	2	0.05	E	6	0.07
Methamidophos	2329	2281	0.04	0	7	14	13	5	3	4	2	0	0	0	0	0	1.800	9	0.20	E	48	0.39
Iprodione	3098	2237	0.07	5	10	32	101	98	151	139	123	130	59	6	7	0	32.000	13	10.00	E	861	0.42
Procymidone	3074	2823	0.03	7	10	26	29	66	45	28	17	17	6	0	0	0	6.600	6	5.00	E	251	0.20
Chlorothalonil	3080	3034	0.02	7	2	9	4	4	3	6	6	2	1	0	2	0	28.000	24		N	46	0.78
Benomyl...	941	869	0.10	0	0	5	6	5	21	18	10	6	1	0	0	0	4.700	16		N	72	1.70
Maneb...	1419	970	0.25	0	0	1	33	25	56	89	86	86	41	27	3	2	63.000	76	5.00	E	449	5.36
N	Total number of samples	Total number of samples without residues	Average reporting level	0.01	0.02	0.05	0.1	0.2	0.5	1	2	5	10	20	50	>50	Maximum (mg/kg)	Number of samples with residues exceeding the MRL	MRL (mg/kg)	Source of MRL	Total number of samples with residues	% Samples exceeding the MRL
Acephate	168	138	0.10															0	1.00	E	0	0.00
Chlorpyrifos	168	168	0.05															0		N	0	0.00
Chlorp.-methyl	168	168	0.05															0	0.05	E	0	0.00
Methamidophos	168	168	0.10															0	0.20	E	0	0.00
Iprodione	168	158	0.10				2		2	1	1	2					19.000	2	10.00	E	10	1.19
Procymidone	168	164	0.05					2	2								0.400	0	5.00	E	4	0.00
Chlorothalonil	168	168	0.02															0		N	0	0.00
Benomyl...																						
Maneb...	11	5	0.05					1	3	1	1						4.800	0	5.00	E	6	0.00

**Annex V:****Overview on all national monitoring of the Member States of the European Union and Norway 1996:**

This Table summarises all monitoring data in fruit and vegetables from 14 countries, both national and EC programmes. The table therefore reflects differences in monitoring programmes rather than differences in the presence of pesticide residues in food. Data for F and A are not included, as they were not available from the national monitoring reports.

Member State	No. of samples analysed	No. of pesticides/ degradates	No. of different pesticides found	Relationship domestic/ imported products	No. of samples with residues < MRL	No. of samples with residues > MRL (EC and national MRLs)	No of samples with confirmed residues exceeding harmonized EC-MRLs
<b>B</b>	932	108	49	79/21	480 (52 %)		12 (1 %)
<b>DK</b>	1273	Ca. 150	Ca. 60	44/56	289 (23 %)		13 (1 %)
<b>D</b>	4257	48	25	45/55	1420 (33 %)	89 (2 %)	
<b>EL</b>	1132	Ca. 75			207 (18 %)	71 (6 %)	14 (1 %)
<b>E</b>	3022				1174 (39 %)	42 (1 %)	3 (0.1 %)
<b>IRL</b>	505	89	45	39/61	218 (43 %)	13 (3 %)	13 (3 %)
<b>I</b>	7194	Ca. 268			2402 (33 %)	151 (2 %)	46 (1 %)
<b>L</b>	212	51	27	19/81	63 (30 %)	13 (6 %)	3 (1 %)
<b>NL</b>	11015 <sup>1)</sup>	Ca. 200			5131 (47 %)	410 (4 %)	
<b>P</b>	600	86	32			26 (4 %)	6 (1 %)
<b>FIN</b>	3368 <sup>1)</sup>	153	81	695/2673	1718 (51 %)	209 (6 %)	91 (3 %)
<b>S</b>	3908	230			1505 (39 %)	137 (4 %)	64 (2 %)
<b>UK</b>	878	Ca. 150	Ca. 45	60/40	338 (38 %)	8 (1 %)	1 (0.1 %)
<b>N</b>	2936			42/58	1051 (36 %)	40 (1 %)	
<b>EU(13) + N</b>	<b>41232</b>				<b>15996 (39 %)</b>	<b>1209 (3 %)</b>	<b>266 (1 %)</b>

<sup>1)</sup> including cereals



**Annex VI:****Summary of the National Monitoring Reports provided by the Member States**

Member States were asked to provide for a short summary on their national monitoring report for direct inclusion in the compiled Community monitoring report:

**Belgium**

This report shows the results of pesticide residue monitoring on fresh vegetables and fruits on the Belgian market in 1996. It contains not only results on pesticides mentioned in directive 90/642/EEC, but on all pesticides.

The two officially recognized laboratories involved in the monitoring programme were in the preparation phase to accreditation.

In selecting the commodities, the methods of analysis and the number of samples, several factors were taken into account : the average consumption, the Belgian production figures, the rate of exceedences and findings of previous years, the analytical and budgetary possibilities. For less important commodities, a rolling programme is preferred. Emphasis is placed on the commodities of the coordinated programme of the European Commission.

A total of 932 samples were analysed, of which 228 fruit, 650 vegetable and 54 potato samples (see Table 1). The 298 leafy vegetable samples represented 32% of the total amount of samples. Belgian produce accounted for 79% of the samples, 5% came from third countries, the remaining from other EU countries.

In 440 samples no pesticide residues were detected, while an average of one pesticide finding per sample was obtained. Out of a list of 108 different pesticide residues, a total of 49 were found at least once during this monitoring programme. Bromide ion, dithiocarbamates, iprodione, propamocarb, tolclofos-methyl and vinclozolin were the most commonly found pesticide residues. Twelve samples contained a residue level significantly higher than the EU MRL. More than half of the confirmed exceedences concern MRLs at the limit of determination.

**Table 1. Number of samples analysed, number of samples exceeding a MRL or more specifically a EU MRL.**

<b>food items</b>	<b>samples analysed</b>	<b>samples &gt; MRL</b>	<b>samples &gt; EU MRL</b>
fruit	228	8	5
vegetables	650	91	22
potatoes	54	0	0

**Note that exceedences were counted not taking into account the uncertainty on the analytical result.**

## **Denmark**

# **Pesticide Residue Monitoring of Fruits, Vegetables and Cereals in Denmark - 1996**

## **Introduction**

This report is made for the Commission of the European Communities, and includes specific and harmonized monitoring exercises from the pesticide monitoring programme in Denmark, 1996, together with information about sample numbers, reporting levels, quality assurance measures and accreditation. The results are presented in Annex Table A-E in the format recommended by the Commission.

## **Monitoring Programme**

The Danish monitoring programme for 1996 included 1273 samples of fresh and frozen vegetables and 110 samples of cereals.

The examinations covered food commodities of domestic production, as well as commodities from other member states and from non-member states.

The regulations for control of pesticide residues in foods are laid down in "Guidelines for the Control of Pesticide Residues in Foods", The National Food Agency (Ministry of Health), September 1996.

## **Sampling**

The nationwide sampling plans were designed by the Institute of Food Chemistry and Nutrition of the Danish Veterinary and Food Agency (DVFA) on the basis of the dietary consumption pattern, the production data and the results of the monitoring programs in previous years.

The sampling plans were worked out in details and implemented by three regional laboratories performing the analytical work.

Samples were taken from consignments meant for consumption as well as for working up in production. Samples were taken at random and emphasis was laid on raw products.

In general the size of a laboratory sample was at least 1 kg consisting of more than 10 individual items of fruits or vegetables.

Where exceedings of MRLs were found in Danish produce, new samples, if possible, were collected immediately. If exceedings of MRLs were found in foods of foreign origin, the wholesaler was subjected to the follow-up control.

Restrictions in cases of exceedings may be that a particular food item is ordered not to be sold, or to be recalled.

## **Analyses and quality assurance**

The samples were analysed at three regional accredited laboratories contracted with the DVFA. The laboratories analysing the samples regularly participate in proficiency tests.

The methods of analyses were developed at the DVFA.

## **Fruits and vegetables**

The major part of the samples were analysed by three different methods.

PCN: N-, P- and Cl- containing pesticides (Table A1)

The sample was extracted, first with acetone, and then with cyclohexane/ethyl acetate. At first the extract was purified by gel permeation chromatography (S-X3) and then by SPE. The residual content was determined by GC with EC- and NP- detection.

FU2: Selected fungicides, carbendazim-type (Table A1)

Extraction with ethyl acetate in alkaline liquid. Benomyl and thiophanate methyl were converted into carbendazime and purified. The residual content was determined by HPLC. Diphenyl and orthophenyl phenol were determined only in citrus fruits.

FU3: Selected fungicides, dithiocarbamate-type (Table A1)

Dithiocarbamates were converted into carbon disulfide, which was distilled and purified and finally absorbed in a solution of copper-(II)-acetate and diethanolamine. The content was determined by spectrophotometry and calculated as disulphide.

## **Cereals**

KO1: Insecticides and fungicides (Table A2)

Same principles as the PCN method.

All samples from the daily pesticide control analysed by method PCN and KO1 were analysed by using two columns according to quality assurance. Samples with pesticide residues exceeding the MRL were analysed by another laboratory in order to verify the result.

## **Reporting Level**

The reporting levels entered in Table A, are the general levels of quantification covering all pesticide/crop combinations. However, lower quantification levels are achievable for many pesticide-/crop combinations.

## **Results**

The results for the Danish monitoring programme for 1996 are included in annexes Table A - E.

In Table C: in cases of open positions, the national MRLs have not been used. Therefore the summarized numbers of samples do not include samples with pesticide residues without MRLs.

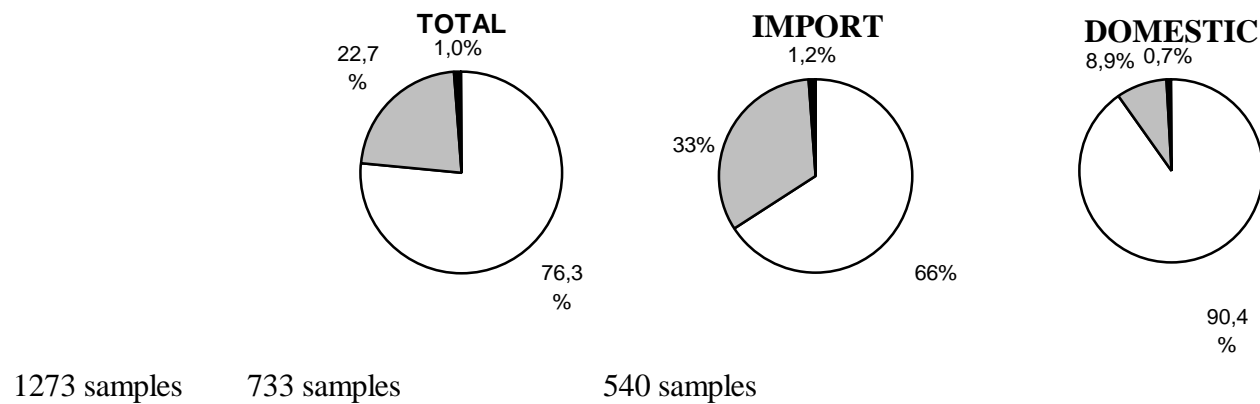
Summerized results are shown in Figure A. This includes the national and the coordinated programme.

**Conclusion**

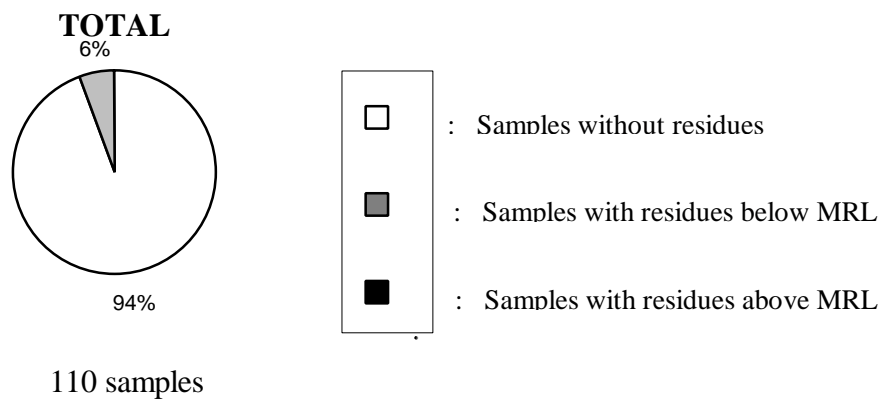
The results of the monitoring programme as summarized in the following figure, show that residues exceeding existing MRLs were found in only one per cent of the samples analysed in 1996. For residues exceeding the MRLs or found in commodities where no MRL-value was set (open positions), a toxicological risk assessment was performed. In all cases it was concluded that the detected residues did not constitute any health hazard to the consumer.

Thus, the general conclusion to be drawn from the monitoring programme is that the content of pesticide residues in food on the Danish market is at a safe level and in good compliance with the legal standards.

**Figure A: Summarized results from the Danish pesticide monitoring programme 1996**



## CEREALS



**Germany****Summary of the Results from the Federal Republic of Germany for the Year 1996**

The report contains the results of the tests carried out on food of animal origin, grain, fruit and vegetables during the 1996 survey period. It includes all of the data transmitted by the food inspection services of the Länder, which are responsible for monitoring the quality of food, to the Federal Institute for Health Protection of Consumers and Veterinary Medicine. These data also comprise the results of the food monitoring carried out on a national scale, those of the official food inspection services as well as of the co-ordinated monitoring programme.

In the course of the 1996 survey period, a total of 11,870 samples were tested for pesticide residues in the Federal Republic of Germany. Of these, 7,218 samples tested were accounted for by foods of animal origin, the majority of which (4,389) were cow's milk and whole milk samples. In addition to this, 395 samples of grain and 4,257 samples of fruit and vegetables were tested. The active ingredients tested for were ingredients which had already been included in the Annexes to Directives 86/362/EEC, 86/363/EEC or 90/642/EEC. Of the samples tested, 8,506 were of domestic production and 3,364 from foreign sources. Among the samples of domestic origin, 33% (2,830) contained no determinable residues and in 65.7% of the cases residues below the maximum level were able to be detected. Only in 1% of the cases were the established maximum residue limits exceeded. With respect to the samples of foreign origin, no residues were quantifiable in 55.7% (1,877) of the cases and in 41.2% of them, the residues detected remained below the maximum residue limit. However, here, maximum residue limits were exceeded in 2.9% of the samples.

The following table shows an overview of the results of the tests performed on domestic and foreign produce.

Foodstuff	Domestic samples				Foreign samples			
	Total no. of samples	Samples without residues (not determinable)	Samples containing residues including the maximum level	Samples containing residues above the maximum level	Total no. of samples	Samples without residues (not determinable)	Samples containing residues including the maximum level	Samples containing residues above the maximum level
Grain	301	269	31	1	94	47	42	5
Food of animal origin	6434	1359	5004	71	784	284	482	18
Fruit and vegetables	1771	1202	556	13	2486	1546	864	76
Total	8506	2830	5591	85	3364	1877	1388	99

**Spain****Summary of the residues**

Products	Samples analysed	Without residues	With residues	Samples < 50 % MRL	Samples 50–100 % MRL	Samples > MRL
Fruits	1603	681	922	864	47	11
Vegetables	1231	940	291	229	32	30
Others	188	185	3	1	1	1
Total	3022	1806	1216	1094	80	42

**Results in percent**

Products	Samples without residues	Samples with residues	Samples with residues < 50 % MRL	Samples with residues 50-100 % MRL	Samples with residues > MRL
Fruits	42,48	57,41	53,89	2,93	0,68
Vegetables	76,36	23,63	18,60	2,59	2,43
Others	98,40	1,59	0,53	0,53	0,53
Total	59,76	40,23	96,20	2,54	1,38

## Summary of the pesticide analyses

Product	Samples analysed	Samples without residues	Samples with residues	Samples with residues < MRL	Samples with residues > MRL
Lemons	77	31	46	45	1
Mandarins	327	88	239	238	1
Oranges	449	71	378	376	2
Grapefruits	2	1	1	1	0
Apples	105	47	58	57	1
Peas	74	34	40	39	1
Medlars	4	4	0	0	0
Apricots	24	20	4	4	0
Nectarines	15	10	5	4	1
Peaches	96	53	43	41	2
Cherries	14	14	0	0	0
Plums	22	18	4	4	0
Table grapes	70	52	18	18	0
Wine grapes	118	93	25	24	1
Strawberries	90	59	31	30	1
Bananas	42	13	29	29	0
Olives	74	73	1	1	0
Carrots	31	30	1	1	0
Garlic	27	27	0	0	0
Onions	100	93	7	4	3
Tomatoes	314	206	108	107	1
Bell Pepper	126	60	66	64	2
Eggplants	19	15	4	4	0
Cucumber	37	25	12	12	0
Courgettes	23	17	6	2	4
Melons	102	90	12	11	1
Water melons	77	73	4	0	4
Cauliflower	28	26	2	2	0
Cabbage	34	33	1	1	0
Lettuce	121	79	42	35	7

Green beans	43	37	6	5	1
Green peas	10	10	0	0	0
Asparagus	27	25	2	2	0
Celery	11	4	7	2	5
Artichoke	53	48	5	3	2
Mushrooms	5	4	1	1	0
Leek	10	9	1	1	0
Chard	10	8	2	2	0
Spinach	5	5	0	0	0
Broccoli	17	15	2	2	0
Dry bean	10	10	0	0	0
Lentils	3	3	0	0	0
Chickpea	3	3	0	0	0
Sunflower	50	50	0	0	0
Potatoes	117	114	3	1	1
Almonds	5	5	0	0	0
<b>Summary</b>	<b>3021</b>	<b>1805</b>	<b>1216</b>	<b>1173</b>	<b>42</b>

## Greece

### **MONITORING OF PESTICIDE RESIDUES IN GREECE, 1996**

#### **INTRODUCTION**

In 1996 in Greece five laboratories participated to the national pesticide residue monitoring program. Four of them, called Regional, are recently (1995) established by the Ministry of Agriculture and became functional in collaboration with the National Agricultural Research Foundation (NAGREF). The fifth is a laboratory established in 1976 and is called Benaki Phytopathological Institute. From the above laboratories, those situated in Crete (Heraclion) and Pelopennese (Patras) were able to analyse only for residues of dithiocarbamate fungicides. Those situated in the regions of Athens (Lycovrissi and Kifissia) and Thessaloniki, were able to carry out GLC analyses; therefore, the number of pesticides covered was much higher. The recently (1995) established laboratory in Lycovrissi has been designated as the co-ordinating laboratory and undertook to carry out the EU Commission's coordinated program (specific exercise).

This report has two parts: the first gives the results on the specific exercise established by the Commission's recommendation 96/199/EC, reported using the model report forms.

The second gives the results of the national program, which comprises both harmonised and non-harmonised MRLs. The results of the analyses for dithiocarbamate fungicides are given on separate sheets.

#### **SAMPLING, METHODS AND PESTICIDES COVERED**

Samples of fresh products were collected from the central fruit and vegetable market in Athens, Thessaloniki, Patras and Heraclion by agents of the laboratories authorised by the government. Imported produce were sampled at the entry point (ports) of the same above cities. Two multiresidue methods (MRM 1, submethod 1 and MRM 5, submethod 1 from the Manual "Analytical Methods for Residue of Pesticides" Ministry of Welfare, Health and Cultural Affairs, Netherlands) were used to cover a range of the most commonly used electron captive and organophosphorus compounds. Recovery studies gave recoveries in the range 70 - 110 % for most pesticides indicating that the analytical procedures used were valid. Residue determination was carried out by gas-liquid chromatography (GLC) with selective detectors (electron capture (ECD), N/P thermionic (NPD) and flame photometric (FPD)). Residues were confirmed by GLC using a stationary phase of different polarity.

Dithiocarbamates were determined using the CS<sub>2</sub> evolution method.

Benomyl group residues were determined and expressed as carbendazim, using a spectrophotometric method.

The fact that more than one laboratories was involved in the national program, made that the pesticides covered and the LODs achieved were in at a certain extent different. This complicated the evaluation and presentation of data. However, we have included in the reporting sheets those pesticides that could be detected by almost all the participating laboratories.

## QUALITY ASSURANCE MEASURES

### a) Training

Five scientists of the new laboratories participated to a two-weeks training course on pesticide residue analysis, offered by GTZ in Darmstadt, Germany, through financing of the EU Commission (DG IV). One scientist of the new laboratory in Athens (Lycovrissi) was also sent for training to the pesticide residue laboratory of the Inspectorate for Health Protection in Alkmaar (Netherlands)(responsible: Dr André de Kok), again through financing of the EU Commission.

### b) Accreditation

The national accreditation authority in Greece had not been established in 1996. However, in practice the laboratories follow the guidelines for quality assurance in pesticide residue analysis, as close as possible.

Generally, quality assurance is ensured by carrying out recovery studies, reproducibility-repeatability studies and the running of reagent blanks and control samples. Confirmation of results is achieved by using columns of different polarity and the use of selective detectors.

## RESULTS

### a) *EU coordinated program*

From the pesticide residues listed in Annex I of Commission's recommendation 96/199/EC, the following pesticides were analysed using the two GLC multiresidue methods: acephate, chlorpyrifos, chlorpyrifos-methyl, methamidophos, iprodione, procymidone and chlorothalonil. The same samples, have been also analysed for residues of the fungicides of the benomyl group.

Eighty four (84) samples (twenty seven (27) samples of apples, sixteen (16) samples of table grapes, thirteen (13) samples of strawberries, twenty (20) samples of tomatoes and eight (8) samples of lettuce) were analysed. From these, fifty four (54) samples (61 % of the samples analysed) did not contain detectable residues of the sought pesticides. From the samples with detectable residues no one exceeded the MRLs established by the EU Commission. Twenty one (21) samples (25 % of the samples analysed) contain detectable residues of pesticides for which no MRLs have been established (open position). In those cases, the LOD was taken as MRL and these ten samples were considered as violative.

The analyses for dithiocarbamate fungicides of the maneb group have been carried out, as already mentioned, by two other regional laboratories in other samples than those analysed by the coordinating laboratory. Two hundred five (205) samples were analysed for the commodities included in Annex I of the recommendation (fifty three (53) samples of apples, fifty (50) samples of table grapes, fifty seven (57) samples of tomatoes and forty five (45) samples of lettuce). From these, one hundred fifty four (154) samples (75 % of the samples analysed) did not contain detectable residues of dithiocarbamates. From the samples with detectable residues one sample of lettuce exceeded the MRLs established by the EU Commission. Twenty five (25) samples of food items for which no EU MRLs have been established (open positions), representing the 12.2 % of the samples analysed, contain detectable residues of dithiocarbamates. In those cases, the MRL of FAO/WHO Codex Alimentarius, was reported as National MRL. This limit was not exceeded by any sample.

*b) National program*

Two hundred forty one (241) samples have been analysed for dithiocarbamates. From these, (...) one hundred eighty five (185) samples (77% of the samples analysed) did not contain detectable residues. Four (4) samples (1.6%) (one of lettuce and three of cucumber) exceeded the EU MRL.

Eight hundred ninety one (891) samples have been analysed by GLC, using the multiresidue methods cited above, covering fifty four (54) EU-harmonised pesticides and twenty one (21) non-harmonised. From the samples analysed, six hundred sixty nine (669) samples (75% of the samples analysed) did not contain any detectable residue of the pesticides sought. Twelve (12) samples (1.3 % of the samples analysed), exceeded the MRL established by the EU Commission. One sample exceeded a Codex MRL (Codex MRLs are accepted as national MRLs in the absence of harmonised EU MRLs). And fifty four (54) samples (6% of the samples analysed) contain detectable residues of pesticides for which no MRLs have been established neither by EU nor by FAO/WHO Codex Alimentarius. In those cases, the LOD was taken as MRL and these fifty five samples were considered as violative.

## Ireland

### **Irish Pesticide Monitoring Results 1996.**

The prime functions of the Irish monitoring programme are to

- ensure that producers use good agricultural practice [GAP] in the production of food and as a result comply with the statutory MRL's.
- ensure that there is no unauthorised use of pesticides in crops.
- monitor the risk to the consumer arising from pesticide residues in food.

The current report is divided into 2 main sections

- the results of the specific EU recommended monitoring programme for 1996
- and
- the results of the domestic Irish monitoring programme.

The overall monitoring programme for 1996 involved the analysis of 505 samples of fruit and vegetables for residue of 89 different pesticides and metabolites. In the course of the programme residues of 45 different pesticides and their metabolites were detected in the samples analysed. The most common pesticides found were captan, iprodione, dichlofluanid, chlorothalonil, brompropylate, chlorpyrifos, endosulfan and methidathion. 45.7% of the samples analysed were found to contain at least one pesticide residue and 2.6% were found to contain residues in excess of statutory MRL's.

Of the 2.6% of samples with residues greater than the statutory MRL, 13 in all, 7 were of domestic origin of which 6 were lettuce samples. Residues of dimethoate and iprodione were the pesticides found in domestic samples which were mainly responsible for these exceedences of the MRL's. No pattern was evident in the pesticides found in breach of MRL's from external sources. Assessment of the dietary intake associated with these breaches of the MRL's, using the chronic toxicity indicators, does not suggest a serious risk to the consumer but as a precautionary measure lettuce will again be targetted for special attention in the monitoring programme for 1998. When the WHO procedures for assessing the dietary intake of acutely toxic pesticides are published the dietary intake assessment of the dimethoate residues found in excess of the MRL will be re-evaluated.

The results of the monitoring programme are broadly in line with the results from other European countries. In general the difference in the relative number of pesticides found and in the % of samples exceeding MRL's relate more to the size of the pesticide screen operated by different laboratories rather than to different patterns of residues being present in the produce sampled. It is recognised in Ireland that a more extensive screen is required when analysing samples for pesticide residues but progress in achieving this goal is slow. The inclusion of a large number of additional EU harmonised MRL's is expected towards the end of 1997/early 1998 and this progress while welcomed will result in further pressure on laboratory facilities within Ireland to provide satisfactory analytical facilities to cope with this extra workload.

**Italy:****Introduction**

The Italian monitoring report (Pesticide Residues in Vegetable Products) contains the results of the data supplied by the Laboratories of the National Health Service (Presidi Multizonali di Prevenzione ed Istituti Zooprofilattici Sperimentali) with regard to analytical results of the official control on pesticide residues in fruit and vegetable products and in cereals, carried out in 1996, concerning the active substances enclosed in the recommendation 96/199/EC dated 1.3.1996, in compliance with the article 4, paragraph 2, of 90/642/EEC Directive, implemented in Italy by the Decree issued by the Ministero della Sanità on 23 December 1992.

**Results**

Samples were analysed using multi-residual methods, able to determine the presence of 100 or more active substances contained in pesticides. The performed processing concerned exclusively the active substances reported in the Recommendation 96/199/EC. Of a total of 7003 samples, in 1342 samples (19.2 %) residues not exceeding permitted levels were found, while in 91 samples (1,3 %) residues were found exceeding permitted levels; no residues were detected in 5570 samples (79,5 %).

In the results of the official national control plan higher percentages are reported both for regular samples and of violative samples, due to the much higher number of active substances processed.

**Summary of Data, Year 1996 – Recommendation 96/199/EC**

	Vegetables	Fruits	Cereals	Total
No. of samples	2942	3759	302	7003
Regular samples	2885	3726	301	6912
Violative samples	57	33	1	91
Violative samples %	1.9	0.9	0.3	1.3

**Pesticide Residues in Regular Samples**

	Vegetables	Fruits	Cereals	Total
No. of samples without residues	2588	2702	280	5570
No. of samples without residues %	89.71	72.52	93.02	80.58

No. of samples with residues within legal limits	297	1024	21	1342
No. of samples with residues within legal limits %	10.29	27.48	6.98	19.42

**Summary of Data, Year 1996 - National Programme**

	Total samples	Regular samples		No. of irregular samples	No. of active substances	Violative samples %
		No. of samples without residues	No. of samples with residues < MRL			
Vegetables	3260	2485	687	88	286	2.7
Fruit	3934	2156	1715	63	283	1.6
Total	7194	4641	2402	151		2.1

## **Luxembourg**

### **Pesticide residues monitoring in fruits and vegetables carried out in Luxembourg in 1996**

#### ***Introduction***

This report summarizes the results of the national and the incorporated coordinated pesticide monitoring program of fruits and vegetables on the luxembourgish market in 1996. The report has been prepared according to the recommendation of the commission as far as technically possible. It not only contains pesticides mentioned in the dir. 90/642/CEE, but also some other pesticides.

#### ***Sampling***

The samples were collected according to the annual sampling plan prepared from the National Food Control Administration and forwarded to the Commission of EC.

Samples of fresh fruits and vegetables were generally collected from the central market in Luxembourg by the local police agents. Imported products' sampling was done by the food controller in the wholesalers warehouses.

The usual size of a laboratory sample was at least 1 kg.

The sampling plan is based on a rolling plan (the section of commodities is subject to annual variations).

#### ***Analysis***

The samples were analysed by the division of food control which is a part of the National Health Laboratory.

All the samples were analysed by a gaschromatographic multiresidue method (modified german official method DFG S19).

This method consists of an acetone extraction partition with dichloromethane, and a clean-up on a biobeads S-X<sub>3</sub> gel permeation column. The extract was analysed by GC with selective detectors (ECD, NPD and FPD). When a pesticide residue exceeded the MRL, the identity of the pesticide was confirmed by GC-MS. With this method more than 200 pesticides are covered.

Dithiocarbamates were also determined on each sample by using an CS<sub>2</sub> evolution method. The CS<sub>2</sub> is determined by headspace analysing using GC with flame photometric detector (EC method, document 1729/VI/80 final 2 not published).

### ***Accreditation and quality assurance***

The one official laboratory involved in the monitoring residue program is in the preparation phase for accreditation.

The analytical results are governed by a quality assurance system.

### ***Reporting levels***

The lowest residue levels are the same as the limits of determination (generally in the range of 0,01-0,1 mg/kg). The limits of determination are determined by recovery tests.

### ***Results***

A total of 212 samples were analysed out of which 101 fruits and 121 vegetables.

Luxembourgish products were concerned for 19 % of the analysed samples and 81 % come from EU and third countries.

In 136 samples no pesticide residues were detected. Out of a list of 51 different pesticide residues a total of 27 were found at least once during the monitoring program.

Iprodione, procymidon, vinclozolin, tolphosphométhylth endosulfan, captane and dithiocarbamates were the most commonly found pesticide residues.

Thirteen samples contained a residue level higher than the maximum EU or national level.

## The Netherlands

### **Pesticide Residue Monitoring in the Netherlands - 1996**

#### **INTRODUCTION**

Pesticide residue control has been a task of the Dutch Inspectorate for Health Protection for many years. Therefore, a suitable infrastructure was present for the EU-monitoring as required by directives 90/642/EEC (products of plant origin), 86/363/EEC (cereals) and Recommendation 96/199/EU (the harmonized specific program 1996).

#### **SAMPLING**

Samples are taken by 13 inspectorates at auctions, importers, wholesale trade and industries processing agricultural products. The samples are taken representatively without prior information about the probability to violate the MRL. The number of items of a lot is regulated by the Dutch Food and Commodity Law. This regulation is the implementation of the EC-directive 79/700/EEC.

#### **ANALYSIS AND QUALITY CONTROL**

The general strategy is obtaining as much information as possible by using Multi-Residue-Methods (MRM's). These methods consist of an extraction of residues into an organic solvent followed by a chromatographic separation and selective detection of residues. The four main methods are:

- Gas chromatography (GC) with 1. Electron Capture Detection (ECD), 2. Nitrogen/Phosphorus Detection (NPD) and 3. ITD Detection
- High Pressure Liquid Chromatography (HPLC) with post-column derivatisation and fluorimetric detection of N-methylcarbamates (4)

The MRM's detect about 200 analytes of the 450 substances that have an MRL. The remainder must be controlled by Single-Residue-Methods (SRM's), which are not performed in routine but on a survey base. Only the dithiocarbamates and carbendazim are analyzed as routine SRM's.

The validity of the analytical results is governed by a quality assurance system complying EN45001. To avoid the risk of false negatives a series of standard mixtures that contain frequent occurring residues are available to check system performance.

The applied MRM's and SRM's are recorded and the results are stored. Because of the registration of MRM's also the **absence** of a residue can be established.

#### **MONITORING RESULTS**

During 1996 about 10000 samples were analyzed, both Dutch production and import. During the last 10 years the import fraction was increased according to the importance on the market (Figure 1, 2). Import products in general show higher percentages of MRL-violations. Both import and local production show residues above the limit of detection in about 50 % of the samples.

**Austria****Summary:**

In 1996, especially cereals and potatoes were analysed for pesticide residues. Measurable pesticide residues were found in four samples only. Exceeded maximum residue levels could not be detected in these foodstuffs.

During the co-ordinated monitoring programme, Commission recommendation 96/199/EC from 1 March 1996, measurable residues of the pesticides under investigation (acephate etc.) could be detected in 105 cases, however, about 50 % of the samples did not contain any residues. During the co-ordinated monitoring programme, in one case only the maximum residue level was exceeded.

Further investigations (ca. 50) of other fruit and vegetable samples showed that measurable residues could only be found in some single cases (15 x).

## Portugal

### **Pesticide Residue Monitoring in Fruit, Vegetables and Cereals, Portugal,1996.**

#### **SUMMARY INFORMATION AND RESULTS**

##### . General information

A total of 600 samples of fruit and vegetables, including potatoes, have been analysed in the framework of check sampling. Monitoring of cereals involved 30 samples of grain and processed products. The great majority of samples have been collected by DGFCQA (Directorate-General for Inspection and Food Control) and by their regional extensions or homologous bodies. Most samples were collected at wholesale markets and provisions in directive 79/700/EEC were generally followed.

The present report includes the contribution of four official laboratories: the central laboratory (DGPC) two laboratories located respectively in the Northern and Southern Regions and a fourth laboratory in Madeira Island. All the laboratories involved are integrated in Organizations of the Ministry of Agriculture.

The dithiocarbamate fungicide group were the most frequently sought pesticides. A primary reason for this is the fact that currently the two regional laboratories in the continent can only contribute to monitoring data with the determination of dithiocarbamates. The relative increase of the number of samples monitored for dithiocarbamates in comparison with other pesticides is however more than justified, as these were by far the most frequently pesticides detected and the most frequent ones for which infringements to MRLs have been found. Concern associated with the situation led to a programme of compliance monitoring which involved 217 samples, mostly home-produced winter lettuces.

##### . Methods of analysis and quality assurance measures

Methods of analysis used include a GC multiresidue method (MRM) with selective detectors (ECD and NPD), HPLC-UV/vis determination of benomyl group and spectrophotometric determination of dithiocarbamates. The CG MRM involves acetone extraction, liquid partitioning and adsorption column chromatography cleanup. A different method of analysis, based on ethylacetate extraction and without cleanup, was used for the determination of the very polar organophosphorus insecticides acephate, methamidophos and omethoate, as these are lost through the cleanup procedures used in the MRM.

Quality control measures included daily calibration of the instruments for all pesticides sought. For the screening of pesticides determined by the GC MRM either one or two calibration points have been used depending on the instrument (without or with automatic injector). To be sure of not reporting false negatives, all samples were injected at least in two different columns/GCs equipped with the same type of detector. Confirmation of identity (qualitative and quantitative) was done by use of at least a second column of different polarity. Confirmation by GC-MS was only possible at the laboratory in Madeira Island.

According to the instrument used, provided with automatic injector or not, 3-4 calibration points or just 1 calibration point (double injection, bracketing the sample), were used for quantitative determination. In the case of just 1 calibration point, maximum difference accepted between standard and sample responses was 10%, except when the residue level was much lower than the MRL, for which cases higher differences were accepted. The determination of the highly polar organophosphorus insecticides was systematically done by using calibration standards in blank crop extracts. For other compounds, differences in response were just checked in the case of residue levels close to or exceeding the respective MRLs.

All samples exceeding the MRLs were analysed in duplicate. When the MRLs exceeded referred to dithiocarbamates, often not less than three replicate analysis were done, so as to compensate for the high variation associated with laboratory sampling.

Recovery checks have been often carried out, but not included in all batches of samples, for benomyl/carbendazim, for dithiocarbamates and for the very polar organophosphorus insecticides. Recovery checks were much less frequent for the compounds determined with the GC MRM. The number of recovery checks throughout the year amounted to only 3-6 recovery determinations both in DGPC and Madeira laboratories, but included all the compounds for which the method has been validated and which are reported in Table A. External quality control measures included the participation of the two above mentioned laboratories in FAPAS exercises in 1996 (DGPC in 3 exercises, Madeira in 2 exercises).

#### . Results of check sampling

Out of the 86 pesticides/groups of pesticides sought occurrences of 32 of them have been found. The dithiocarbamate fungicides were the most frequently compounds found (nearly 28% findings in the 600 samples of fruits and vegetables monitored). The second and third compounds showing higher rates of occurrence were respectively the benomyl group (12% findings of carbendazim) and captan (nearly 10% findings).

Twenty three samples of fruit and vegetables were found to violate EC MRLs; in two samples two EC MRLs were simultaneously exceeded. In another three samples exceedences of national MRLs have been found.

As mentioned before, the main cause of violative samples was the dithiocarbamate group. In total, 22 samples contained residues of dithiocarbamates exceeding EC MRLs: strawberries (2 in 45 samples analysed); cucumber (1 in 2 samples analysed); lettuces (13 in 153 samples analysed); spinach (6 in 63 samples analysed). All violative samples were domestic production.

Given concern associated with the situation, specially because a few samples contained very high residue levels (maximum values of about 60 mg/kg CS<sub>2</sub> in lettuces and 21 mg/kg CS<sub>2</sub> in spinach) a programme of compliance monitoring was planned to be carried out by the end of the year.

#### . Results of compliance monitoring and measures

Compliance monitoring was specially carried out in winter lettuce (indoor lettuce) in November-December. In a total number of 217 samples of lettuces analysed for dithiocarbamates, the great majority being of national origin, 33 were found to contain violative levels of dithiocarbamates. In 2 of these samples simultaneous violations of pesticides not registered for application on lettuces (endosulfan and methamidophos) have been found. All but one of the lettuce samples with violative residues of dithiocarbamates were home produced.

Most samples in the framework of compliance monitoring have been collected by DGFCQA, a body of the Ministry of Agriculture, and by their regional extensions. A small number of samples, spinach samples included, have been collected by IGAE (General Inspectorate for Economical Activities), a body of the Ministry of Trade.

Where infringements are found in samples collected by IGAE, farmers are prosecuted in Court. However, these cases often take such a long time that impact on infractors is lost. On the other hand, evidence of risk to consumers is extremely difficult to be proved in Court, and therefore this procedure has been found to produce little or no effect.

Where violative results are found in samples collect by DGFCQA in the framework of compliance monitoring, growers can be fined by means of more simplified and expedite procedures which are believed to be more effective. This new system has become in force in 1996.

For violative results of dithiocarbamates in lettuces not exceeding the level of 10 mg/kg CS<sub>2</sub> official warnings to growers were issued. In the case of violative samples exceeding this value growers have been fined (18 different growers). Should any level higher than 50 mg/kg CS<sub>2</sub> had occurred the case would have been presented to Court. A document on risk evaluation had been previously prepared in order to support the Court on a decision.

The follow-up of cases of infringements in spinach and lettuce samples collected by IGAE is still not known.

## Sweden

### **Pesticide Residue Monitoring of Fruit, Vegetables and Cereals in Sweden - 1996**

#### **Summary**

In 1996, a total of 3 908 surveillance samples of fresh and frozen fruits and vegetables including potatoes were analysed for residues of about 230 pesticides and metabolites. The harmonised EC Maximum Residue Limits were exceeded by 64 (1.6%) of the samples and national and EC MRLs by 137 samples (3.5%). Four (1.3%) out of 317 samples of cereals, screened for residues of 98 pesticides and metabolites, contained residues above EC MRLs. None of the exceedings were of any health concern.

Commodity	Total number of samples analysed	No. of samples without residues	No. of samples with detectable residues	No. of exceedings of EC MRLs
Fruit and vegetables	3 908	2 266 (58.0%)	1 642 (42.0%)	64 (1.6%)
Cereals	317	276 (87.1%)	41 (12.9%)	4 (1.3%)

A total of about 650 000 residues were analysed for.

Compliance samples were collected as a follow-up when surveillance samples exceeded an MRL.

17 out of 116 samples of fruits and vegetables and one out of 12 samples of cereals contained residues above harmonised EC MRLs.

#### **Sampling**

The number of samples collected of each food was roughly proportional to the food's consumption rate and amounted to at least 100 samples for each of the more important foods. By analysis of 100 samples we can with 95% confidence say that the actual percentage of exceedings is less than 3% if no exceeding was discerned.

The samples were taken by trained inspectors belonging to the Board of Agriculture according to written instructions from the National Food Administration. The samples were sealed and the sample number was written on labels which were attached to those boxes being sampled and a photo was taken. The photos were stored on discs.

#### **Analysis**

By using both multi-residue and single residue methods a total of 250 pesticides were covered.

The majority of the pesticide residues were measured and reported from the limit of quantitation (determination), generally in the range of 0.01 - 0.2 mg/kg.

The analyses were carried out at four laboratories which were accredited by the Swedish accreditation authority SWEDAC for the analytical methods used. The laboratories have participated in three proficiency tests in 1996.

The quality control included daily checks of the instruments' sensitivity and possible matrix effects by injection of test solutions. From 1 July 1996, the GC-determinations were carried out using standards in matrix extracts. Recovery checks were done on a regular basis.

## United Kingdom

### **THE UK PESTICIDES RESIDUES MONITORING PROGRAMME BRIEF DESCRIPTION OF PROGRAMME, RESULTS AND METHODS**

#### **1. Background**

The purpose of the UK monitoring programme is threefold: to back up the statutory approvals process for pesticides by checking that no unexpected residues are occurring; to check that residues do not exceed statutory EU and UK maximum residue levels (MRLs); and to check that human dietary intakes of residues are at acceptable levels. This monitoring, together with that carried out by local authorities and the food industry provided a wide-ranging overview of the residues present in food. Only about 1% of samples analysed contained residues above MRLs, and only a very small proportion of these would lead to an exceedance of the acceptable daily intake (ADI).

The results from the programme of work were submitted to the European Commission in fulfilment of the obligations for reporting results of surveillance for pesticide residues established by Directives 86/362/EEC, 86/363/EEC and 90/642/EEC. For the first time, results of the co-ordinated recommended monitoring programme carried out across the EU were included in the report.

#### **2. Selection Criteria**

Samples for the main commodity rolling programmes have generally been obtained at monthly intervals from two population centres in each of six regions of the UK. The centres selected are changed each year. Generally, the choice of foodstuffs to be analysed in the programmes represents a balance between the levels of consumption of those foodstuffs, information on the possible levels of residues and the need to ensure that as wide a range of commodities as possible is included in the surveillance. Where practicable samples are taken, prepared and analysed according to CAC guidelines (*Recommended Method of Sampling for the Determination of Pesticide Residues (Vol. 2, section 3, Codex Alimentarius, 1993)* and *Portion of Commodities to which Codex Maximum Residue Limits Apply and which is Analysed (Vol. 2, Codex Alimentarius, 1993)*). Samples are generally analysed unwashed and unpeeled, with the exception of root crops which are routinely washed. Only one variety, from a single source, is included in each sample.

In determining its surveillance programme, the UK considered data from other sources including publications produced by other UK Ministry of Agriculture departments. The UK also considered data published on monitoring carried out by other governments, as well as data and intelligence from industry and other sources.

#### **3. Enforcement**

When the level of pesticide residues found UK surveys indicates use of a non-approved pesticide, or the use of a pesticide other than in accordance with the conditions of its approval, the source of the samples involved is investigated to establish the cause of the residues. Further targeted surveillance is normally carried out to check whether the result represented an isolated incident. For UK-produced commodities, enforcement

involves the taking of samples from a grower's premises for analysis. If evidence of misuse is found the grower is prosecuted. In the case of imported produce from third countries, sampling is normally carried out at the point of entry while the consignment is detained. If unacceptable residues are found, the whole consignment is refused entry to the UK, and other EU member states are notified. If problems are identified in retail samples of produce of EU origin, the details are reported to the member state concerned, to allow the relevant authorities to follow up the case.

#### **4. The 1996 European Union recommended monitoring programme**

Surveys were carried out in support of the Commission recommendation for a harmonised, specific, EU programme. Samples of apples, strawberries and lettuce were analysed for a range of pesticides indicated in the recommendation. Chlorpyrifos was the only pesticide detected in apples (in 14 of 30 samples analysed). All levels were within the MRL. Residues were also detected in 6 of 30 samples of strawberries analysed, all levels found were within the MRL. 30 lettuce samples were also analysed. 1 of the 15 UK samples contained residues of iprodione, within the MRL. 5 of the 15 imported samples contained residues, but these too were within the MRL.

The UK is continuing to take an active part in EU recommended monitoring programmes, though the ability fully to complete recommended programmes will depend to an extent on getting timely recommendations from the EU.

#### **5. Implications of 1996 Results for consumers**

In line with previous years' monitoring, only 1% of samples analysed contained residues in excess of an MRL. This confirmed that in the vast majority of cases pesticides were being applied in accordance with their label requirements, and also provided an assurance to consumers that, where they were being exposed to residues, they were at safe levels. In all cases where MRLs were exceeded, a separate consumer risk assessment was carried out to establish whether the level of residues present would lead to an exceedance of the ADI or, where appropriate the ARfD, by a high level consumer. The risk assessments indicated that in the great majority of cases there would be no exceedance. However, the ADI and ARfD incorporate safety margins and the risk assessments assume food intake at the 97.5th percentile level in food surveys. Therefore, even where exceedances are calculated, the risk to consumers is unlikely. In 1996 only one sample (of apricots) contained residues that would lead to an exceedance of the ADI, and the residues of phosalone detected in the Total Diet Study would lead to an exceedance by infants. Neither of these findings was calculated to lead to adverse health effects.

#### **6. Methods of Work and Quality Control**

Full details of the Working Party's methods of work are contained in the *Surveillance: The Estimation of Dietary Exposure to Pesticides - Report of the Working Party on Pesticide Residues: 1991-1993* which is published as Food Surveillance Paper Number 50 available from the Stationery Office (ISBN 0 11 243015 5).

##### **6.1 Quality Control**

Analytical methods were deemed acceptable if they permitted a level of recovery of added residues of 70%-110%, ideally with a mean recovery in the range of 80%-100%. Results which exceeded MRLs, or which were unusual in occurrence, or were otherwise of particular significance were required to be accompanied by acceptable recovery data and, wherever practicable, to have been confirmed using mass spectrometry. The residues data provided in the UK report were not been corrected for recovery and are expressed, unless otherwise stated, on the basis of the fresh weight of the sample and as defined by the MRL.

## 6.2 Proficiency Testing Programme

All laboratories carrying out work have taken part in proficiency testing exercises, including the Dutch Chek Monitoring Programme and other international programmes. Recognising the importance of proficiency testing the UK Ministry of Agriculture started a scheme for laboratories in 1990 known as the Food Analysis Performance Assessment Scheme (FAPAS). All of the laboratories which submit data to the Working Party participate in FAPAS. Additionally, most of the laboratories meet the requirements of a recognised accreditation scheme, such as the United Kingdom Accreditation Service (UKAS) or the requirements of Good Laboratory Practice (GLP).

### THE UK PESTICIDES RESIDUES MONITORING PROGRAMME

Country	Total no. of samples analysed *	No. of samples with residues detected <MRL	No. of samples where 1 or more MRL exceeded
UK	878	338 (38%)	8 (1%)

\* = Extract from UK programme. Results of monitoring :

Fruit and Vegetables (including potato)

Oilseeds

Pulses

## Norway

### **INTRODUCTION**

The Norwegian monitoring programme for pesticide residues in fruit and vegetables has existed since 1977. The programme has gradually been expanded over the last few years, as a consequence of increased public awareness of questions related to the use of pesticides. Today, about 3000 samples of fresh products of plant origin are analysed each year.

More than 70 different commodities, both imported and domestically produced, are included in the monitoring programme. Samples are taken at wholesaler's ware-houses in different parts of Norway and sent to the Pesticide Laboratory for analysis. The number of surveillance samples of each commodity roughly reflects their share of the market, but more samples are taken of commodities suspected to contain residues.

National tolerances for pesticide residues in foodstuffs were established at the end of 1993. The maximum residue limits (MRLs) used in 1996 are harmonised with the European Union (EU) directives (93/58/EEC and 94/30/EC). In addition some MRLs based on Codex Alimentarius recommendations are including the national maximum residue limits. The MRLs apply equally to domestic and imported products.

### **SAMPLING**

In the random sampling (routine monitoring of non suspect lots we usually take samples of at least 1 kg combined with 3 primary samples.

If we find exceeding in the routine monitoring, we followed it up with compliance sampling (control of the next suspect lot) according to the method described in the EU directive.

### **QUALITY ASSURANCE**

The Pesticide Laboratory, which is a department of the Norwegian Crop Research Institute, was accredited by April 1st 1997. The accreditation is based on the European Standard EN 45001 and also includes no. 2 and 7 of the OECD Principles of Good Laboratory Practice, section II.

The accreditation covers three methods:

- \* Analysis of dithiocarbamates in fruit and vegetables
- \* GC-multimethod for analysis of pesticides in water
- \* GC/MS-multimethod for analysis of phenoxy acids and bentazon in water

The analyses of fruit and vegetables are carried out in accordance with our Quality Assurance Manual. As part of the quality assurance programme the laboratory participate regularly in international intercalibrations / proficiency tests. The daily quality assurance measures include analysis of quality control (QC) samples, check of the sensitivity of the instruments and calibration with all pesticides in the monitoring programme. The QC sample for

the GC-multimethod contains four pesticides of different chemical, chromatographic and detection properties in concentration 0.5 mg/kg. One QC sample is analysed together with every batch of samples and the results are plotted in control charts. Check of recovery is carried out regularly.

When a pesticide residue exceeds 75 % of the MRL, quantitative determination is carried out on three replicate samples using three-level calibration with separate standards. If the concentration exceeds the MRL, the identity of the pesticide is always, if possible, confirmed by GC/MS and the recovery is checked.

## **REPORTING LEVEL**

The reporting level is set at the limit of determination (quantification). See enclosed "Monitoring programme for fruit and vegetables 1996" with limits of determination.

The limit of determination is for most of the pesticides smaller than or equal to the lowest MRL. For pesticide/matrix combinations where the limit of determination is higher than MRL, this is marked with the sign "\$" in the enclosed tables B,C and D.

## **RESULTS AND DISCUSSION**

During 1996, a total of 2936 samples of fresh fruit and vegetables have been checked. 42 % of the samples are domestic produce. On average, 1.5 % of the samples exceeded the MRLs. Over the past 6 years there has been an increase in the rate of exceedings from 0.6 % to 1.5 %. This is partially due to the use of EU-based MRLs being lower than the Codex MRLs used as guideline levels before 1994. The increase in violations is also due to an increase in the number of samples and number of pesticides analysed.

Residues of pesticides are more often found in imported produce than in domestic produce. Only once have residue concentrations posing acute health risk been seen. This was a sample of imported Yod Kana containing monocrotophos.

Among the domestic produce, problems were most frequently seen in celery and celeriac. Among the imported produce, clementine, mango, celery, lettuce and table grapes had the highest number of samples exceeding the MRLs. Annex Table D 1 and 2 lists samples with residues above MRLs in 1996.

## **CONCLUSION**

Residue levels are usually low and exceedings are moderate, and in general of no health concern.