

# **Pesticide residues in Hungary**

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# **Pesticide residue monitoring, June 2009**

## **– coordinated by CAAG**

- 15 strawberry samples + 17 imported green papper samples**
- From all regions of Hungary**
- From 3 large commercial chain (Auchan, Tesco, Plus)**
- Testing nearly 300 active ingredients by the accredited laboratory of the Corvinus University (Department of Food Science)**



# **Pesticide residue monitoring, June 2009**

## **– coordinated by CAAG**

- **Strawberries (17 samples):**
- **Hungarian origin**
- **13 sample contain pesticide in detectable level**
- **7 different active ingredients detected (Azoxystrobin, Carbendazim, Fenpyroximate, Penconazol, Pyrimethanil, Spinosyn, Thiophantane-methyl)**
- **1 sample above MRL (0,1 mg/kg) Thiophantane-methyl content: 0,183 mg/kg – EPA C**
- **2 samples – 3 different act. ingr., 7 samples – 2 different act. ingr.,**



# **Pesticide residue monitoring, June 2009**

## **– coordinated by CAAG**

- **Green pappers (15 samples):**
- **Imported - Spain(4), Netherlands(5), Marocco(4), Jordania(2)**
- **8 samples contain act. ingr. in detectable level**
- **4 active ingredients found (Azoxystrobin, Dimethoate, Pyrimethanil, Triadimenol)**
- **1 sample (from Marocco) above MRL (0,02 mg/kg) – Dimethoate content 0,139 mg/kg (7 times higher!) – EPA C, ED, teratogen**
- **Only 1 samples contain 2 different residues**
- **Samples from Netherlands didn't contain any pesticide residues, All Spanish, and 3 of the 4 Maroccian samples contain pest. res.**



# **Pesticide residue monitoring, October 2008**

## **– coordinated by PAN Europe**

- Table grapes sold in 5 EU countries**
- In average 7 different act. ingr. /samples**
- 90% contaminated**
- 5 (37 with older MRL) above MRL from the 124 samples**
  
- In the samples sold in Hungary (imported from Italy):**
- 100% contaminated in average with 6,6 act. ingr.**
- 15 different act. ingr. in the 5 samples**



# **Pesticide residue monitoring – above MRL coordinated by the Hungarian authority**

- The samples above MRL permanently put to website of the authority.**
- Data contain producer, distributor, problematic act.ingr, and its concentration**
- 17 samples in the last 10 months (6 lettuces, 2 peaches)**
- For eg. Chlortalonil (MRL 0.01) 2,7 mg/kg, 1,6 mg/kg - EPA B2**



# **Pesticide residue monitoring – 2007 coordinated by the Hungarian authority**

- The samples above MRL permanently put to website of the authority.**
- Data contain producer, distributor, problematic act.ingr, and its concentration**
- 17 samples in the last 10 months (6 lettuces, 2 peaches)**
- For eg. Chlortalonil (MRL 0.01) 2,7 mg/kg, 1,6 mg/kg - EPA B2**



# **Methods of the monitoring – 2007**

## **coordinated by the Hungarian authority**

**Measured crops spectrum determined by the excise patterns.**

**Special attention for the firstlings.**

**The sampling areas:**

- on the fields after the harvest
- on the markets
- on the border stations (import)
- in wholesale trade chains

**Testing totally 230 different active ingredients.**

**Totally 69 different crops + 89 different produced food measured**  
(33 vegetables, 32 fruits, 4 grains, 26 produced foods, 63 babyfoods)

# **Pesticide residues in domestic products, 2007**

**An extreme dry year > lower pest. res.**

- **67.5% of the 1589 samples didn't contain pesticide residues in detectable concentration**
- **31.3% of the samples contain pest. res. under the MRL**
- **0.9% (15 samples) contain pest. res. above the MRL**
- **0.3% (4 samples) contain illegal pest. res. (in the measured commodity)**



# Multiple residues in domestic products, 2007

	No. of samples	Number of detected active ingredients							
		1	2	3	4	5	6	7	
<b>Apple</b>	<b>122</b>	<b>38</b>	<b>29</b>	<b>2</b>	<b>2</b>				
<b>Lettuce</b>	<b>114</b>	<b>36</b>	<b>12</b>	<b>5</b>					
<b>Apricot</b>	<b>38</b>	<b>8</b>	<b>9</b>	<b>3</b>	<b>4</b>	<b>1</b>			
<b>Pear</b>	<b>34</b>	<b>18</b>		<b>2</b>					
Green pepper	139	28	5	2	1				
Tomato	118	31	3	2				1	
Sour cherry	63	16	10	2					
Potato	32	3							
Cucumber	91	28	4	2					

# Multiple residues in domestic products, 2005

	No. of samples	samples with residues	Number of detected active ingredients						
			1	2	3	4	5	6	7
<b>Apple</b>	<b>232</b>	<b>164</b>	<b>66</b>	<b>38</b>	<b>32</b>	<b>10</b>	<b>10</b>	<b>2</b>	<b>6</b>
<b>Lettuce</b>	<b>163</b>	<b>89</b>	<b>47</b>	<b>17</b>	<b>14</b>	<b>8</b>	<b>3</b>		
<b>Apricot</b>	<b>41</b>	<b>36</b>	<b>12</b>	<b>16</b>	<b>8</b>				
<b>Pear</b>	<b>28</b>	<b>23</b>	<b>5</b>	<b>8</b>	<b>1</b>	<b>4</b>	<b>3</b>	<b>2</b>	
Green pepper	128	47	31	11	4	1			
Tomato	141	65	43	14	7			1	
Sour cherry	44	7	5	2					
Potato	31	2	2						
Cucumber	123	41	26	12	3				

# Pesticide residues in imported products, 2007

- **40.8% of the 1511 samples didn't contain pesticide residues in detectable concentration**
- **57.2% of the samples contain pest. res. under the MRL**
- **1.3% (19 samples) contain pest. res. above the MRL**
- **0.7% (10 samples) contain illegal pest. res.**



# Residues above MRL

In 25 domestic samples (1,2%) (2007): **lettuce** (5), apple (3), cucumber (2)

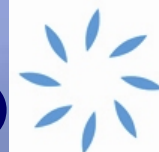
In 30 domestic samples (1.6%) (2006): barley grain (5), **apple** (4), poppy seed (4), raspberry (3), cucumber (2), Tart gooseberries (2)

In 25 domestic samples (1,2%) (2005): **lettuce** (6), Tart gooseberries (4), cucumber (4), wheat grain (3)

In 45 domestic samples (2,2%) (2004): **apple** (11), **lettuce** (9), apricoat (8), green pepper (5), cucumber (4)

In 10 domestic samples (0,5%) (2003): tomato (5)

In 20 domestic samples (1%) (2002): **lettuce** (7), green pepper (4), tomato (3)



# Pesticide residues in imported products, 2005

Some of the most contaminated crops

	No. of samples	Positive samples	% of pos. samples
mandarin	147	140	95.2
grapefruit	59	55	93.2
orange	120	107	89.2
lemon	198	171	86.4
grape	144	103	71.5
tomato	104	65	62.5
green pepper	322	120	37.3

# Thank you for your attention!

