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)

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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.,**

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Pesticide residue monitoring, June 2009 – coordinated by CAAG

- Green pappers (15 samples):
- Imported - Spain(4), Nederlands(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 Nederlands didn't contain any pesticide residues, All Spanish, and 3 of the 4 Maroccian samples contain pest. res.

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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

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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

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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)

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Multiple residues in domestic products, 2007

	No. of samples		Number of detected active ingredients						
			1	2	3	4	5	6	7
Apple	**122**		**38**	**29**	**2**	**2**			
Lettuce	**114**		**36**	**12**	**5**				
Apricot	**38**		**8**	**9**	**3**	**4**	**1**		
Pear	**34**		**18**		**2**				
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
Apple	**232**	**164**	**66**	**38**	**32**	**10**	**10**	**2**	**6**
Lettuce	**163**	**89**	**47**	**17**	**14**	**8**	**3**		
Apricot	**41**	**36**	**12**	**16**	**8**				
Pear	**28**	**23**	**5**	**8**	**1**	**4**	**3**	**2**	
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 residuesin 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.

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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), ruspberry (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)

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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!

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