



Food safety and pesticides

Fresh Congress in Rotterdam,
25-27 May 2011

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PAN – Europe & CEPTA





Pesticides Action Network

PAN - Europe

- 31 not-for-profit members in 19 European countries
- Goal of productive + sustainable farming, minimising agrochemical inputs; adverse health & environmental impacts
- Working to replace use of hazardous pesticides with ecologically sound alternatives
 - www.pan-europe.info

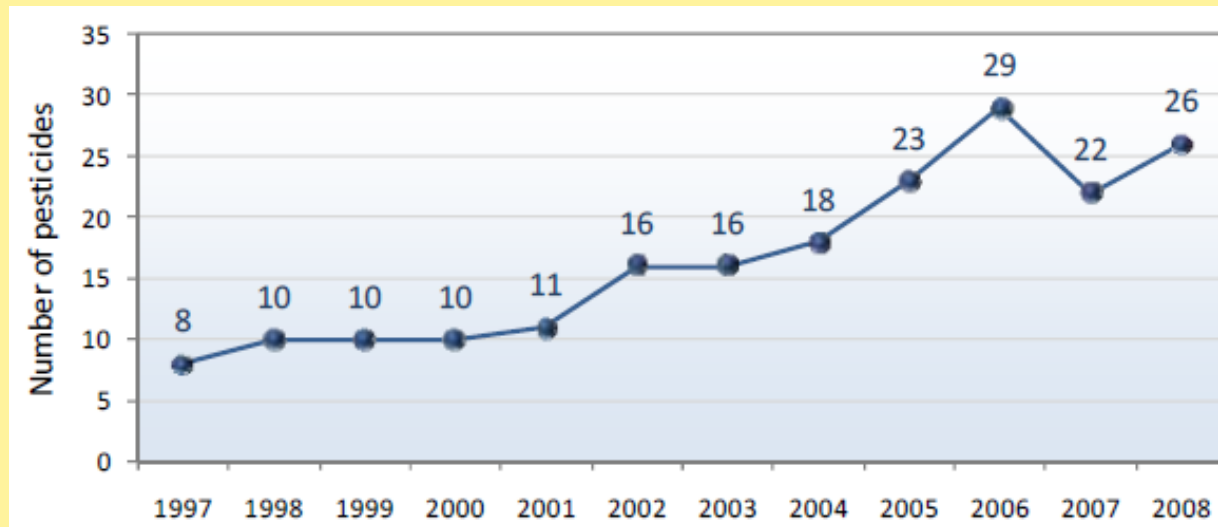
Do you know what do you eat?

EFSA Report 2010 (monitoring from 2008):

- 3,5% exceed MRL; (EU – 2,4% / 3rd countries 7,6%; worst: Thailand, Turkey, Colombia, Egypt, India)
- 27% of samples contain multiply residues
- 26 residues in one sample of grape
- 0,9% exceed MRL in Organic

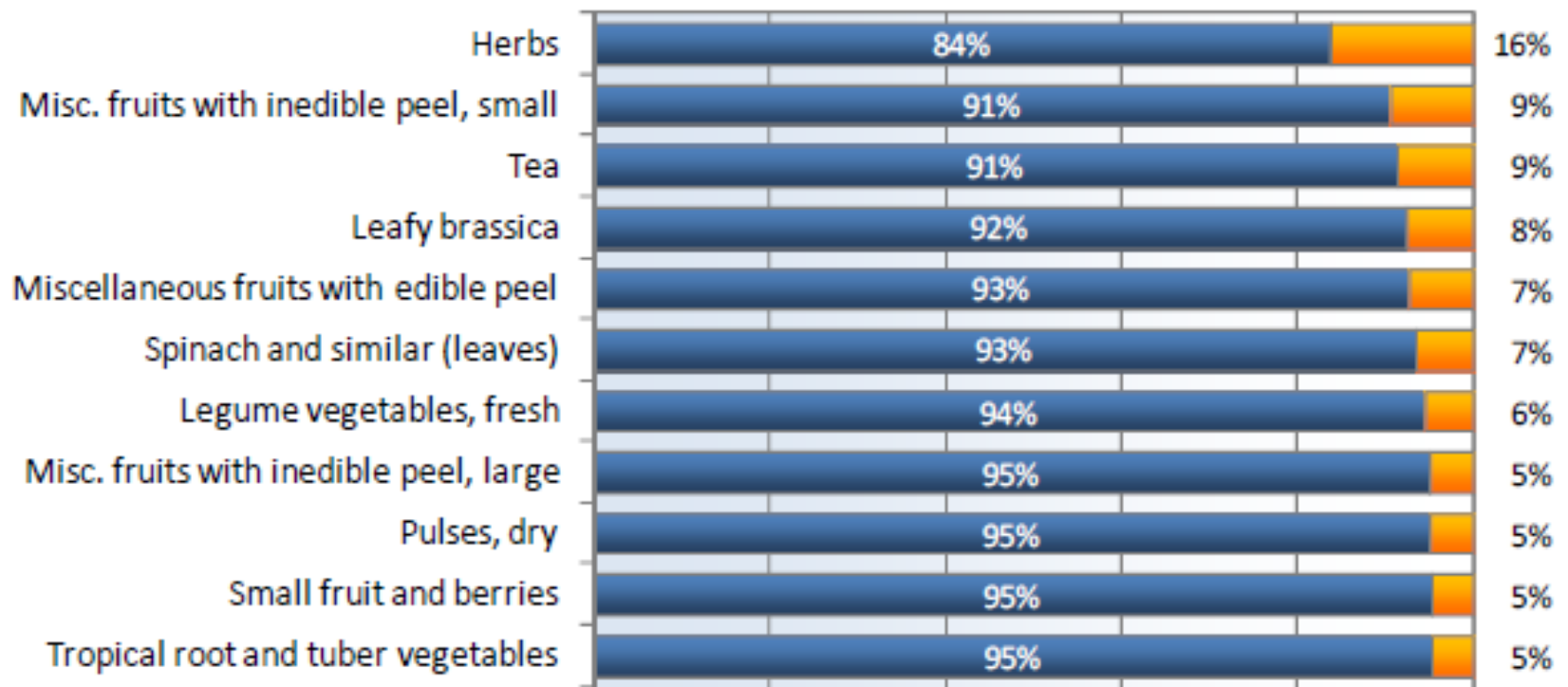


Multiply residues in one sample



Commodity	Number of samples	Percentage of samples with multiple residues					Total %
		2	3	4	5	More than 5	
Citrus fruit (e.g. oranges, grapefruits and lemons)	5505	21.5	15.7	10.6	5.5	3.5	56.9
Cane fruit (e.g. blackberries and raspberries)	390	18.2	17.9	9.7	4.9	4.4	55.1
Other small fruit and berries (e.g. blueberries/goosberries)	687	13.7	12.2	10.9	8.0	9.0	53.9
Strawberries	2760	13.6	11.9	10.8	7.6	7.2	51.0
Table and Wine grapes	3153	16.8	10.9	7.1	6.1	10.0	50.8
Pome fruit (e.g. apples and pears)	6048	15.2	10.6	8.2	5.1	5.8	44.8
Lettuce and other salad plants, including Brassica	3214	12.8	9.5	5.7	4.0	5.9	37.8

Food with most MRL's exceedance 08'



■ No measurable residues detected above MRL

■ Residues detected above MRL

Why are pesticides danger?

- for Health (users; non – users direct exposure; residues) - carcinogenic, mutagenic, reprotoxic, imunotoxic, neurotoxic, IQtoxic ... obesity, asthma, heart disease, tipe 2 diabetes, endocrine disruptions...[PAN-E PR from 25th May 2011](#));
- for Biodiversity (honey bee colaps – 1/3 of bees in 2008 UK, 2008 Germany; 2011 Slovenia);...;
- for Environment (drinking water pollution, waste, obsolete pesticides...)



Honey-bees pollinate about 46 from 115 world's leading food crop = $\frac{1}{3}$ of the human diet.

Possible actions – 1

„The Co-op today (28 January 2009) became the first UK supermarket to ban the use of a group of 8 pesticides implicated in billions of honeybee deaths worldwide (neonicotinoids family).“

The pesticide ban is part of the Co-op's 10-point ***Plan Bee*** launched today, which includes £150,000 for research into the impact of pesticides on the decline of honeybees in England.

www.guardian.co.uk/environment/2009/jan/28/bees-coop-pesticide

How are MRL safe?

- MRL are not toxicological limits (just GAP)
- MRL does not reflect to „coctail effect“ (27%), sensitive consumers, long-time influence
- Human toxicity is reflected by ADI and ARfD

pesticide	EU MRL apples mg/kg	ARfD (mg/kg) = 100%	% ARfD child 16,5 kg – D	% ARfD child 16,5 kg - UK	% child 16,5 kg - NL
Imazalil	5	0,05	820%	720%	636%
Carbendazim	2	0,02	820%	720%	636%
Chlorothalonil	1	0,015	547%	480%	424%
Carbaryl	3	0,2	123%	108%	95%

Slow move of EC



EUROPEAN COMMISSION

HEALTH & CONSUMERS DIRECTORATE-GENERAL

SANCO

14. 07. 2009

Brussels, SANCO – D1 (2009)410991

SUMMARY REPORT OF THE STANDING COMMITTEE ON THE FOOD CHAIN AND ANIMAL HEALTH – PESTICIDES RESIDUES

11-12 JUNE 2009

President: Michael Flüh, Head of Unit

24 Member States were present.

Cyprus was absent and represented by Greece.

Lithuania was absent and represented by Luxemburg.

Romania was absent and not represented.

Qualified majority: 255 votes and 14 Member States in favour.

Points for vote / note taking

- 1. Examination and possible final opinion on a draft Commission Regulation amending Annex II to Regulation (EC) No 396/2005 of the European Parliament and of the Council as regards maximum residue levels for dimethoate, ethephon, fenamiphos, fenarimol, methamidophos, methomyl, oxydemeton-methyl, procymidone, thiodicarb and vinclozolin in or on certain products (SANCO/2008/3791 rev 4).**

The Commission presented the proposal and its contents.

For all these substances the consumer risk assessments carried out by the European Food Safety Authority showed that at the current maximum residue levels (MRLs) there is a risk that the Acceptable Daily Intake (ADI) or the Acute Reference Dose (ARfD) for one or more consumer groups will be exceeded. Those MRLs should therefore be lowered.

Possible action 2 - limitation

Adapt own MRL / residues limitations, guide producers, have a good reporting, cooperate to NGOs

Country	Retailer	Limitation
Germany	LIDL	max. 33 % MLR, non limited number of residues
	ALDI	max. 4 residues, in SUM max. 80 % MLR, max. of 1 rezidue is 70%
Niederland	Klaas Plas	3 - 5 residues (some without limitation), In SUM max. 80 % MLR, max. of 1 residue is 70% MRL
Austria	BILLA	complex Pesticides reduction program (by Global 200)
UK	Leon Jahae	2 - 4 rezidues of insecticides, MRL without limitation
Itálie	IP Agrios	max. 50 % MLR

External costs of pesticides

Cost category framework for assessing full costs of pesticide use (million US \$ per year, adjusted to year 2000)

Damage costs	China ¹	Germany	UK	USA
1. Drinking water treatment costs	nd	104	215	1059
2. Health costs to humans (farmers, farm workers, rural residents, food consumers)	500-1300	17	2 ²	157
3. Pollution incidents in water courses , fish deaths, monitoring costs and revenue losses in aquaculture and fishing industries	nd	nd	7	153
4. Negative effects on on- and off-farm biodiversity (fish, beneficial insects, wildlife, bees, domestic pets)	200-500	10	75	331
5. Negative effects on climate from energy costs of manufacture of pesticides	148	4	3	55
TOTALS	848-1948	195	302	1755

WHO PAY?

1. China costs are just for rice cultivation; 2 Does not include any costs of chronic health problems; 3nd = no data

(Pretty, J. and Waibel, H. (2005) Paying the price: the full cost of pesticides. In: *The Pesticide Detox. Towards a more sustainable agriculture*, Ed. J Pretty, Earthscan, London, pp.39-54.

Integrated pest management

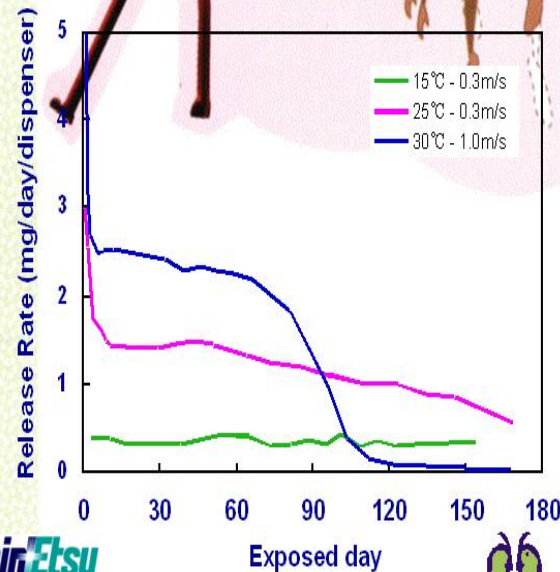
- **Organic** or good Integrated production
- New EU Directive „SUD“ 2009/128/EC:
 - **26 November 2011**, Member States to convert Directive 2009/128/EC into national law (art. 23)
 - **26 November 2012**, MS shall communicate National Action Plans (NAP) to EC and other MS
 - **30 June 2013**, Member States report to the EC on implementation of IPM

IPM – Mating pheromone traps



MD KEY TOOL: A DEPENDABLE DISPENSER

Typical Release Rate of SHIN-ETSU dispenser
(by average temperature and wind)



ShinEtsu



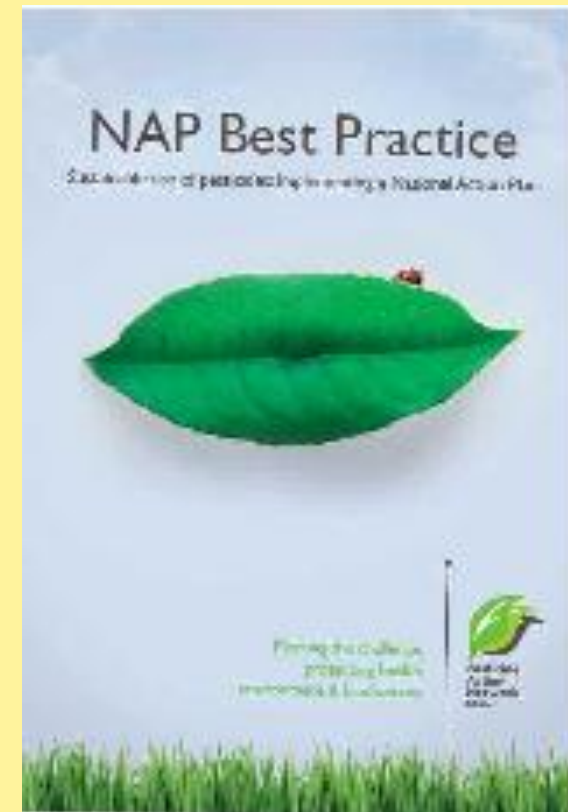
where are you ???
...can't find any girl
here around !!!!



Possible action 3 - lobbying

Lobby at national levels on:

- Adaptation of GOOD National action plans (for more info - publication of PAN-E)
- Adaptation of GOOD Integrated Pest Management scheme and independent advisory service
- Cooperation with NGOs is recommended



Thank you for your attention



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Producers association – standards

JARNÍ FESTIVAL NEJLEPŠÍCH DOBROT

BILLA = pestrá nabídka od tuzemských výrobců!

9.8. - 15.8.2011 www.billa.cz

Zemský ráj to na pohled

sispo -25%
Hruška volná 1 kg Česká republika **29⁹⁰**

sispo -21%
Jablko téžněd volné 1 kg Česká republika **17⁹⁰**

The advertisement features a blue header with the text 'JARNÍ FESTIVAL NEJLEPŠÍCH DOBROT'. Below it is a red banner with the slogan 'BILLA = pestrá nabídka od tuzemských výrobců!' and the dates '9.8. - 15.8.2011' and website 'www.billa.cz'. A yellow sign on the right says 'BILLA dnes'. A white banner with a treble clef and a dove contains the text 'Zemský ráj to na pohled'. At the bottom, two product displays are shown: one for pears ('Hruška volná') with a -25% discount and a price tag of 29⁹⁰, and one for apples ('Jablko téžněd volné') with a -21% discount and a price tag of 17⁹⁰. Both products have a 'sispo' logo.

Good example – SISPO – CZ
Association for Integrated fruit production

Low residues production

Results for apples 2010:

- 31% apples =0 residues;
- over 50% under 1% of MRL
- Just 2 samples over 20% of MRL
- No sample with more than 3 residues

Improving standards, good 2y control, existing advisory and education + economic motivation for farmers

www.sispo.cz

