

## Residues of Pesticides in foodstuffs of animal origin : Monitoring programs in France



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**Results and follow- up** 









- Directive 96/23/EC = measures to monitor certain substances and residues in live animal and animal products (= residue monitoring plans)
  - Establishes substances, species or products covered and sampling requested
  - Covers Member States and third countries
- Directive 96/22/EC = Ban on the use of hormones as growth promoters





- Regulation 396/2005 = Establishes MRL for Pesticides.
- Regulation 2377/90 = Establishes Maximum Residue Limits (MRLs) for substances and animal species (veterinary medicines)



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- Why ? :
  - Complexity of present legislation :
    - 4 parents Council Directives
    - Complicated lists of MRLs, both at national and at Community level
    - Problem for the international market and for the importers
  - Lack of harmonisation
  - Role of EFSA (Reg. 178/2002)



LEGAL FRAMEWORK Reg. 3962005 : new legal framework



- Regulation clear and transparent :
  - one list of MRLs (accessible database with information)
  - Information to consumers about risk arising from pesticides, results of national monitoring
- Clear procedure for application :
  - MS EFSA- Commission),
  - Codex LMRs considered
- Complete harmonisation : no more trade problems, Import tolerance



# LEGAL FRAMEWORK Regulation 396/2005 - Annex



Condition for the application of the regulation

- Annex I → List of commodities (Reg. 178/2006)
- Annex II → EU MRLs (existing MRLs)
- Annex III → Temporary MRLs (harmonisation of national MRLs)
- Annex IV → List of active substances for which no MRLs are required (low toxicity)

Will be developped later :

- Annex V  $\rightarrow$  Substances for which a default MRL applies
- Annex VI  $\rightarrow$  Processing factors
- Annex VII → Fumigants



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# Decision Making Process General Scheme





**Results and follow- up** 











**RESIDUE MONITORING** Directive 96/23



Harmonized approach : Directive 96/23

Coordination by the European Commission

 Member States Report on previous results and current plans

Different national organizations





# **RESIDUE MONITORING** Animals and products concerned





# **RESIDUE MONITORING Classification of substances**



- Hormones, Beta agonists, etc...
- Forbidden veterinary products : Annexe IV LMR (chloramphenicol, dimetridazol)
- Veterinary medicines (Groups B1, B2) with LMR
  - Antibiotics (B1),
  - Antihelminthics, etc...
- Contaminants (Group B3)
  - PESTICIDES, dioxins,
  - Heavy metals...













## **RESIDUE MONITORING** Frequencies and level of the control

Species	Number of controlled animals (% of annual production)	Group A		GROUP B	
			50% live animal	0.15% (30% for groups B1)	
Bovine	0.4%	0.25%	50% slaughterhous e		
Porcine	0.05 %	0.02%		0.03% (30% for group B1)	
Sheep and Goat	0.05 %	0.01%		0.04%	
Equine	In relation to the problems identififed				
Poultry (broiler chicken, turkeys)	1 per 200 tons of annual production (minimum : 100)	50% of samples		50% of samples (30% for group B1)	
Aquaculture products	1 per 100 tons of annual production	33% of samples		67%	
Milk except sheep and goat milk	1 per 15000 tons of annual production	70% for veterinary medicament and 30% for B3			
Eggs	1 per 1000 tons (equivalent ton)	70% for groups A6, B1, B2b and 30% in relation to the problems identififed (B3a )			
Honey	10/300 tons (3000 tons) + 1/300 tons	50% for groups B1 and B2c and 40% for groups B3a, B3b, B3c			



**Results and follow- up** 



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# FRENCH ORGANIZATION Risk assessment-Risk management



Political decisions	Ministry of Agriculture		
Legal texts	<i>Risk</i>		
Control coordination	mamagement		
Enforcement Sampling Investigation / Inspection	Departmental Directions		
Scientific risk	French Food	Risk	
assessment	Safety Agency	assessment	
Control confirmation NRL, CRL Official analysis	Laboratory for pe		



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# FRENCH ORGANIZATION Risk policy and management



**One leading Ministry** 

Ministry of Agriculture and Fishery

**One competent Direction** 

General Directorate for Food (DGAL)

# Elaboration of residue plan each year

- Determinate scope : group of residue (previous results,)
- Determinate number of samples for each department, each species each sub-groups of residue

Target criteria : local production, number of slaughtered animals





- Departmental Directions for Veterinary Services
- - Sampling (slaughterhouses etc...)
  - Investigation (food production, farms etc...)
  - Sanctions (prohibited substances etc...)



FRENCH ORGANIZATION Risk assessment





•1998 : clear separation between risk management and risk assessment

- **atssa** French Food safety Agency:
  - Risk assessment
  - Scientific opinions
  - Studies on the basis of Residue monitoring plans



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### FRENCH ORGANIZATION Official analysis : network of laboratories







#### • Minimum requirements

- Suitable qualified staff, equipment, buildings and
- Guaranty of confidentiality, impartiality and independence
- Accreditation on NF EN ISO/CEI 17025 standard delivered by the COFRAC
- Approval by General Division for Food
- Permanent maintenance of their competences (trainings, participations in ring tests,...)



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# FRENCH ORGANIZATION National Reference Laboratories



#### Pesticides

AFSSA LERQAP Maisons-Alfort

(foodstuffs of animal origin)

- AFSSA Sofia (honey)
- LNPV Angers (vegetable)







- Coordinate the work of designated laboratories, training, coordinate the standards
- Organize comparative tests
- Scientific and technical support for the government
- Confirm positive analysis detected by public laboratories
- Development and validation of method of analysis,
- Disseminate information supplied by CRL, knowledge of international standards and practical
- Maintain qualified staff and equipment





SPECIFIC TOOLS System of information



• SIGAL : System of information for DGAI

 Information Processing System connecting the departments to the laboratories and the general division for food (DGAI)

- Base Data-Processing containing the requests for samples by plan and department

- Daily monitoring of control plans realization



**Laboratories** 



**Results and follow- up** 



**Characteristics of the residue monitoring** 

**French organization** 

**Results and follow-up** 



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Species	Nb of samples	% of Non compliance	Pesticide
Bovine	970	0.22	OP, OC, Pyret., PCB
Poultry	360	0	OC, Pyret., PCB
Rabbit	15	0	OC, Pyret., PCB
Game	50	0	OC, Pyret., PCB
Fish	130	1	OP, OC, Pyret., PCB
Milk	80	0	OP, OC, Pyret., PCB
Egg	110	1.1	OC, PCB
Honey	140	0	OC, amitraze, Pyret



**RESULTS AND FOLLOW-UP Follow up - Non compliance** 



# If the result exceeds the maximum residue limit (MRL)

Investigation on farm

- Find the cause of non compliance (not respect of the latency).
- Checking the register of breeding.
- Recall of the obligations.
- Correct measurements to implement.
- Withdrawal of the market of the food products if new non compliant results.
- Targeting of the breeding for the plan of the year n+1.





- Prohibited substances
- 1<sup>st</sup> sample for official laboratories
- 2nd sample for the animal's owner :
  - Possibility for the animal's owner to analyze his sample in an approved laboratory
- 3rd sample for the national authorities :
  - In case of different result between the 1st and 2nd sample, analysis of the 3rd sample by the National Reference Laboratory (NRL).





# **RESULTS AND FOLLOW-UP** Follow up - Summarize











# THANK YOU FOR YOUR ATTENTION

