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EFSA Scientific Assessments on Animal Welfare and interaction with animal disease and food safety

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EFSA's Mission



The Authority shall provide <u>scientific</u> <u>advice</u> and <u>scientific</u> and <u>technical</u> <u>support</u> for the Community's legislation and policies in all fields which have a direct or indirect impact on food and feed safety.

It shall provide <u>independent information</u> on all matters within these fields and communicate on risks.

AHAW Panel - mandate



The Animal Health and Welfare Panel deals with questions on all aspects of animal health and animal welfare, primarily relating to food producing animals, including fish.

General Approach according to Regulation 178/2002



Ethical, socio-economic, cultural and religious aspects are outside the scope of the EFSA's remit

⇒ Risk Managers (EC) deal with legitimate and legal factors, "including societal, economic, traditional, ethical and environmental factors and the feasibility of controls"

Development of Scientific Opinion



Mandate

EC, EP, MS

or self-mandate

Acceptance/Refusal/Comments

EFSA & AHAW Unit

Scientific Report

Scientific Opinion
Conclusions and Recommendations

Risk Assessment

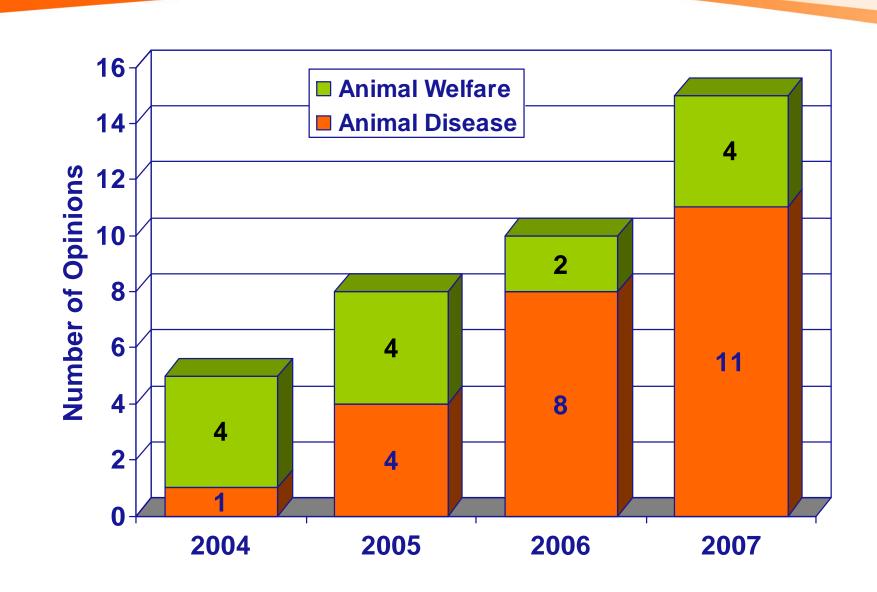
Working Group
Chairman and "ad hoc" Experts

Adoption during the Plenary

Publication on EFSA website

Scientific Opinions 2004-2008





Animal Welfare Scientific Opinions 2004-2009



Scientific Opinions	Year	AD	FS
Transport	2004	X	
Stunning/killing of main species	2004	X	X
Castration of piglets	2004		X
Microclimate in transport	2004	X	
Laying hens	(pub. 2005)	X	X
Farmed domestic rabbits	2005	X	
Pig: space allowance/floor types	2005	X	X
Laboratory animals	2005		
Avian Influenza	2005	X	
Import of wild birds	2006	X	
Calf farming systems	2006	X	X

Animal Welfare Scientific Opinions 2004-2009



Scientific Opinions	Year	AD	F5
Stunning/killing of minor species	2006		X
Pig welfare: Sows and boars	2007		X
Pig welfare: Fattening pigs	2007		X
Pig welfare: Tail Biting	2007		X
Stunning/killing methods of Seals	2007		
Salmon Welfare	2008	X	X
Trout Welfare	2008	X	X
Carp Welfare	2008	X	X
European eel Welfare	2008	X	X
Sea bream/sea bass Welfare	2008	X	X
Dairy Cows Welfare	2009	X	X
Stunning and Killing of fish (8 sp)	2009		X



Species	AW Issue	Impact		
Species		AD	FS (public health)	
Laying hens	Non-cage systems	S. Enteritidis	Egg contamination. Risk of Salmonellosis	
Laying hens	Nest condition (Cleanliness)		Eggshell contamination Risk of Salmonellosis	
Poultry	Outdoor systems	Highly Pathogenic AI (HPAI)	HPAI in humans	



Charies AVA/ Ta	AW Issue	Impact	
Species	AVV 155UE	AD	FS (public health)
Calves	Floor & bedding conditions, humidity, ventilation	Accumulation of pathogens	Foodborne pathogens contamination (Salmonella)
Calves	Stress, large groups, space allowance, mixing from different sources, restocking	Increased susceptibility, cross-contam, pathogens spread	Risk of foodborne pathogen contamination (i.e. <i>Salmonella</i>)



Species AW Issue		Impact		
Species	AW Table	AD	FS (public health)	
Pig	Bedding materials	Salmonella, Campylobacter	Meat contamination Risk Salmonellosis	
Pig	Bedding materials (straw) floor types (e.g. causing abrasion to feet or snout)	FMD, Aujesky, Vesicular Stomatitis		



	A)A/ T	Ir	npact	
Species	AW Issue	AD	FS (public health)	
Pig	Feeding liquid (fermented) feeds	Enteric diseases (L. monocytogenes)		
Pig	Outdoor systems	Wildlife pathogens (e.i. <i>Toxoplasma, Salmonella, Brucella</i>)	Foodborne pathogens. Risk of Toxoplasmosis, Salmonellosis and Brucellosis	



Transport

Species	AW Issue	Impact		
Species		AD	FS (public health)	
All species	Related	Susceptibility to and transmission of AD (e.g. FMD, CSF)		
Cattle	stress	Shipping fever (Pasteurella spp, BRSV, IBR, E. Coli and Salmonella spp)	Meat contamination Salmonella in humans	
All species	Mixing animals at staging points	Spread of infectious diseases (e.g. E. Coli, Salmonella)	Meat contamination Risk of Salmonellosis	



Stunning and killing

Species	AW Issue		Impact	
Species	AW ISSUE	AD	FS (public health)	
Cattle	Captive bolt stunner with pithing	1	Contaminated nervous tissue into edible parts Risk of BSE/CJD	
Goat	Penetrative captive bolt	-	Contaminated nervous tissue into edible parts Risk of BSE/CJD	
Ducks, geese, quail	Electrical water bath stunning	-	Aspiration of stunner water and subsequent contamination of the lung. Risk of microbial contamination (Inedible Lungs)	

Welfare Indicators



- Community Action Plan on the Protection and Welfare of Animals (2006-2010): specifically stating the development of precise and measurable animal welfare indicators to facilitate a proper and uniform enforcement of the animal welfare legislation and increase the efficiency of the controls and standards applied.
- New EU Animal Strategy EU (2007-2013): has a priority goal on the promotion of farming practices and animal welfare to prevent animal health related threats. The development of simple and reliable performance indicators will help to measure progress towards the strategy's goals.

Welfare Indicators



- EFSA should include, whenever possible, objective measurable welfare indicators (animal-based) in the Conclusions and Recommendations of the Scientific Opinions, in order to:
 - √try to quantify the adverse effects on animals exposed to an hazard
 - ✓ give to the Risk Managers essential tools
 - ✓ decide what is acceptable or unacceptable
 - ✓ judge as objectively as possible the state of well being of animals in an husbandry system.
 - ✓ allow the epidemiological surveillance and the implementation of a monitoring and control system of animal health (welfare and disease) at farm level.

RA in AW: development of Standardised Welfare Indicators

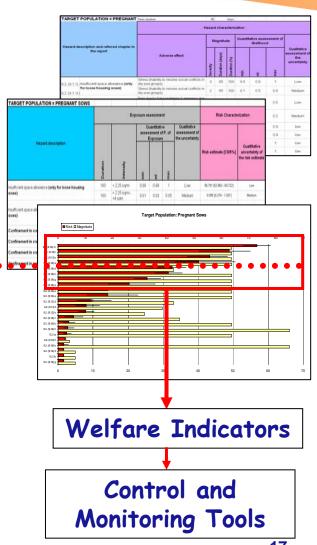


Animal Needs and Hazards Identification

Major Risk Identification (Farm, transport, slaughterhouse)

Welfare Indicators Development (animal-based)

Monitoring and Control Measures (Animal Welfare and Disease)





Conclusions

- Animal Welfare has an overall impact, not only focused on welfare aspects, but also considering factors with possible incidence on animal diseases and food safety.
- The evaluation of the overall interaction between animal welfare, animal disease and food safety may support the development of control and monitoring plans at farm level through specific indicators.

For any additional info:



www.efsa.europa.eu



