Présentation des avis de l'EFSA relatifs au bien-être des animaux d'élevage pendant le transport (2022)

Dans le cadre de la :

Concertation bien-être animal | Groupe de travail n°4 « Bien-être des animaux lors du transport »

Séance du 7 avril 2023

Centre national de référence pour le **bien-être animal**

Agnès Tiret, CNR BEA - 07/04/2023

Déroulé

- Avant-propos & Introduction
- Focus sur « fitness » et « vulnerable animals » :
 - « Highly relevant welfare consequences » : vue d'ensemble et vue par espèces
 - « Fitness for transport », aptitude au transport : vue d'ensemble et vue par espèces
 - « Vulnerable animals for transport », animaux vulnérables au transport : vue par espèces
- Conclusion



Avant-propos & Introduction



Avant-propos

Cette présentation par le CNR BEA est effectuée à la demande du BBEA (DGAL) dans le cadre de la 1ère réunion du Groupe de travail n°4 « Bien-être des animaux lors du transport » de la Concertation bien-être animal.

Des éléments de cette présentation reprennent les termes en anglais des avis de l'EFSA, faute à date de traduction officielle disponible en français de ces avis.

FOREWORD

EFSA looks solely at the **animal perspective** to ensure good animal health and well-being. Environmental, economic and social impact assessment **does not** fall into the remit of EFSA.



SCIENTIFIC OPINION	SCIENTIFIC OPINION
ADOPTED: 30 June 2022	ADOPTED: 1 June 2022
doi: 10.2903/j.efsa.2022.7442	doi: 10.2903/j.efsa.2022.7404
Welfare of cattle during transport	Welfare of small ruminants during transport
SCIENTIFIC OPINION	SCIENTIFIC OPINION
ADOPTED: 30 June 2022	ADOPTED: 30 June 2022
doi: 10.2903/j.efsa.2022.7445	doi: 10.2903/j.efsa.2022.7444
Welfare of pigs during transport	Welfare of equidae during transport
	Pour télécharger les avis :
	https://www.efsa.europa.eu/en/news/more-space-
	lower-temperatures-shorter-journeys-efsa-
ADOPTED: 30 June 2022	recommendations-improve-animal-welfare
doi: 10.2903/j.efsa.2022.7441	
Welfare of domestic birds and rabbits transported in containers	



Note : Précédents avis sur le transport publiés par l'EFSA et l'EFSA Animal Health & Welfare (AHAW) Panel : en 2002, 2004 et 2011.



En un mot...

Plus d'espace, des températures plus basses, des trajets plus courts : les recommandations de l'EFSA pour améliorer le bien-être des animaux pendant le transport

Publié le : 7 septembre 2022 | 3 minutes de lecture Share: **D f in**



https://www.efsa.europa.eu/fr/news/morespace-lower-temperatures-shorter-journeysefsa-recommendations-improve-animal-welfare Consulté le 06/04/2023



En quelques mots...

« Cette série d'avis scientifiques couvrent les petits ruminants (ovins et caprins), les équidés (chevaux et ânes), les bovins (y compris les veaux), les cochons, ainsi que les animaux transportés dans des conteneurs, notamment les oiseaux domestiques (poulets, poules pondeuses, dindes, etc.) et les lapins.

Au sein des avis sont identifiés les divers impacts sur le bien-être animal **au cours des différentes étapes du transport**, les **dangers** qui peuvent les induire et des **indicateurs** mesurables de bien-être animal qui permettent de les évaluer.

Pour toutes les espèces, l'aptitude au transport est considérée comme étant de la plus haute importance. »

https://www.efsa.europa.eu/fr/news/more-spacelower-temperatures-shorter-journeys-efsarecommendations-improve-animal-welfare Consulté le 06/04/2023



En quelques mots...

« La législation actuelle de l'UE sur la protection des animaux pendant le transport est entrée en vigueur en 2005. Dans le cadre de la <u>stratégie F2F</u>, les conclusions de l'EFSA serviront de fondement à la <u>révision de la législation</u> par la Commission européenne, une révision qui vise à l'aligner sur les données scientifiques les plus récentes, à élargir son champ d'application, à faciliter son application et, en définitive, à assurer un niveau plus élevé de bien-être animal. »

« La proposition de la Commission est attendue pour le second semestre 2023. »

https://www.efsa.europa.eu/fr/news/more-spacelower-temperatures-shorter-journeys-efsarecommendations-improve-animal-welfare Consulté le 06/04/2023



En quelques mots...

https://www.efsa.europa.eu/fr/news/more-spacelower-temperatures-shorter-journeys-efsarecommendations-improve-animal-welfare Consulté le 06/04/2023 « L'EFSA a défini des seuils quantitatifs pour les températures à maintenir dans les véhicules de transport ainsi que des allocations d'espace minimales pour les animaux. Les avis décrivent également le développement ou la progression de divers autres paramètres impactant le bien-être des animaux au fil du temps pendant le transport, tels que la faim, la soif et la fatigue. Par exemple, en ce qui concerne les animaux transportés dans des

conteneurs (volailles et lapins), l'EFSA recommande que la durée du trajet soit considérée comme l'entièreté du temps que les animaux passent dans les conteneurs et que, pour les **poussins d'un jour**, la seule façon d'éviter toute conséquence sur le bien-être est de **transporter les œufs fécondés** et de les faire éclore dans l'élevage de destination. »

« L'EFSA décrit et évalue les pratiques actuelles en matière de transport dans l'UE, sur la base de données issues de la littérature, des États membres et de l'avis d'experts. »



Transport - étapes

The majority of the opinions deal with **road** transport.



assessment of animal welfare from pre-loading and until after unloading



https://www.efsa.europa.eu/sites/default/files/2022-09/3.Herskin-Free-moving-transport.pdf

Focus sur « fitness » et « vulnerable animals »

« Highly relevant welfare consequences » : vue d'ensemble et vue par espèces



OVERVIEW Highly relevant welfare consequences associated with transport of farm animals

	Welfare conse	quences		Pi	igs			She	еер			Cat	tle		D	omest	ic bir	ds		Rab	bits			Hor	ses	
(tro	aduction automatic via l'EFS	que en français A)	Prepa ration	Loading/ unloading	g Transit	Journey break	Prepa ration	Loading/ unloading	Transit	Journey break	Prepa ration	Loading/ unloading	Transit	Journey break	Loading	Journey	Arrival	Uncrating	Loading	Journey	Arrival	Uncrating	Prepa ration	Loading/ unloading	Transit	Journe break
1	Lésions osseuses (dont fractures, dislocations)	Bone lesions (incl. Fractures and dislocations)													x	x	x	x	x		x	x				
2	Stress froid	Cold stress														x	x			x	x					
4	Stress collectif	Group stress	x		x	x				х	x			x												
5	Troubles gastro- entériques	Gastro-enteric disorders																							x	x
6	Stress de manipulation	Handling stress	x	x		x	x	x		x	x	x		x	x			x	x			x	x	x		x
7	Stress thermique	Heat stress	x	x	x	x		x	x			x	x				x	x	x	х			x	x		
1 + 3	32 Blessures	Injuries	x		x	x		x		x		x											x	x	x)
16	Stress d'isolement	Isolation stress																					x			
20	Stress de mouvements	Motion stress			x					х			x			x	x		x	х	х				x	
22	Stress de prédation	Predation stress					x	x																		
23	Faim prolongée	Prolonged hunger	x		x	x			x	х			x	x		x	x			x	х				x	
24	Soif prolongée	Prolonged thirst			x	x			x				x	x		x	x			x	x				x	
25	Restriction de mouvements	Restriction of movement			x	x			x				x		x	x	x	x	x	x	x	x		x	x	
26	Troubles respiratoires	Respiratory disorders											x												x	x
27	Problèmes de repos	Resting problems	x		x	x			x	x															x	•
29	Surstimulation sensorielle	Sensory under- and/or overstimulation		x	x			x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	c.
30	Stress de séparation	Separation stress																					x			
32	Lésions des tissus mous et tégumentaires	Soft tissue lesions and integument damage													x	x	x	x	x		x	x				

🥒 bien-être animal



SMALL RUMINANTS Transport means and stages within the EU

Transport stages









Specific scenarios and other assessment topics

		Pigs	Sheep	Cattle	Horses
Long journeys to slaughterhouses	Transport lors de longs trajets vers les abattoirs				хх
Transport by air	Transport aérien	xx	xx	x	x
Transport by roll-on-roll-off ferries	Transport par navires/transbordeurs/ferries rouliers		xx	xx	x
Transport by rail	Transport ferroviaire	xx	xx	x	
Export by road	Exportation par la route		xx	xx	
Export in livestock vessels	Exportation par navires de bétail	xx	xx		
Special health status animals	Animaux relevant du statut sanitaire spécial	xx	xx	xx	
Transport of donkeys	Transport d'ânes				x
Transport of goats	Transport de chèvres		x		
Transport of unweaned lambs	Transport d'agneaux non sevrés		x		
Unweaned cows during long journeys by road	Transport de veaux non sevrés			xx	
Transport of cull females to slaughterhouses	Transport de vaches de réforme, transport de truies de réforme	xx		xx	

Note: none were specified for domestic birds and rabbits

xx : specific scenario
x : other assessment topic

Focus sur « fitness » et « vulnerable animals »

« Fitness for transport », aptitude au transport : vue d'ensemble et vue par espèces

« Fitness for transport », aptitude au transport

Fitness assessment (in most opinions)

✓ Behaviour

- ✓ Posture
- ✓ Clinical signs of illness ✓ Discharge
- ✓ Gait

✓ Respiration

Risk factors for misclassification

Concept of "un/fitness for transport" not well defined No comprehensive and available guidelines Professionals not all properly trained Question of groups' responsibility

OVERVIEW List of general conditions that make an animal unfit for transport

	General condition	Pigs	Sheep	Cattle	Domestic birds	Day-old- chicks	Rabbits	Horses	
	Sickness/illness	Х	Х	Х	Х		Х	Х	
	Pathophysiological state	Х	Х	Х	Х		Х	Х	
	In pain	Х	Х	Х				Х	
	Injury	Х	Х	Х	Х		Х	Х	
	Shoulder sores	Х							
	Lameness	Х	Х	Х	Х		Х	Х	
	Fractures and dislocations				Х	Х	Х		
	Non-ambulatory	Х	Х	Х				Х	
	Inability to stand					Х			
	Ear lesions	Х							
	Eye lesion	Х	Х	Х				Х	
	Skin lesions	Х							
	Tail lesions	Х							
	Poor feather cover				Х				
	Wet plumage/fur in low				x		X		
	effective temperature				X		X		
	Umbilical outpouchings	Х							
	Hernia	Х	Х	Х					
	Prolapse	Х	Х	Х	Х		Х	Х	
	Pregnancy	X	Х	Х			Х	Х	
	Recent birth	Х	Х	Х			Х	Х	
ur la	New born	Х	Х	Х			Х	Х	
nimal	Un-weaned rabbits						Х		

ien-être

Conditions leading to pigs being unfit for transport (all animal categories)

Painful clinical condition (e.g., arthritic joint)

Lameness

Physiological weakness

Umbilical outpouchings, prolapsed uterus or rectum

Profuse and continuous bleeding

Reduced ability to perform important physiological function (e.g., respiratory disorders)

SHEEP Fitness for transport

Conditions leading to sheep being unfit for transport

Painful clinical condition (e.g. arthritic joint)

Reduced ability to perform important physiological function

Lameness

Clinical disease/poor body condition (e.g., inappetence, thirst, fever)

CATTLE Fitness for transport

Fitness assessment

Decision by herdsman/farmer/producer...

... Backed-up by veterinarian, if needed

... Checked by driver/haulier

Conditions leading to cattle being unfit for transport

Painful clinical condition (e.g., bone fractures)

Reduced ability to perform important physiological function (e.g., pneumonia, respiratory diseases)

DOMESTIC BIRDS AND RABBITS Fitness for transport

Conditions leading to domestic birds, one-day-all chicks and rabbits being unfit for transport

Evident signs of illness Emaciation and cachexia

Open wounds, prolapse and abscesses

Severe lameness

Fracture and dislocations

Poor feather cover or wet plumage

HORSES Fitness for transport

Conditions leading to horses being unfit for transport

Pas de conditions détaillées dans cet avis autres que le tableau des « general conditions » (voir diapo 58)

Focus sur « fitness » et « vulnerable animals »

« Vulnerable animals for transport », animaux vulnérables au transport : vue par espèces

PIGS Vulnerable animals for transport

Specific animal categories

Piglets after weaning	Sows in late pregnancy	OPERATIONALISATION
Risk of hypothermia Risk of hypoglycaemia Risk of developing diseases	Risk of going into labour Risk of giving birth Risk of abortion Susceptible to heat stress	ISSUES Threshold in terms of number of days in gestation unknown
Cull sows to slaughter	Sows after weaning	
Risk of dying	Risk of engorged udders Risk of developing mastitis	A potential example of
Growing pigs with		individuals with physiological

SHEEP Vulnerable animals for transport

Specific animal categories

Cull ewes to slaughter

Health issues: less able to cope with transport conditions Risk of dying

Ewes with engorged udder

Painful Reluctant to lie down

Pregnant females

Risk of going into labour Risk of giving birth Risk of abortion In late pregnancy: risk of metabolic conditions Risk of heat stress

Fetus/newborn

Risk of prenatal stress Risk of being born during transport

Juvenile animals

Risk of hypothermia and hypoglycaemia Risk of infectious diseases More susceptible to cold & lack of food and water

CATTLE Vulnerable animals for transport

Specific animal categories

Cows in late pregancy		Lactating cows		Cull dairy cows
Risk of metabolic disorders (e.g., ketosis and fatty liver)Risk of udder engorgRisk of heat stress Reduced exercise capacityImage: Comparison of the stress Reduced exercise capacity		Risk of udder engorgeme	nt	Risk of dying Susceptibility to cold stress Risk of bruising
				Unweaned calves
Concerns for fetus		Early-lactating cows		Compromised immune system
Prenatal stress		Susceptible to		Susceptible to hunger and thirst
Premature birth/death		metabolic disorders		Risk of navel inflammation
RISK OF DEING DORN		Risk of hoof-horn		Risk of gastro-enteric disorders
during transport		lesions		Risk of injuries

DOMESTIC BIRDS AND RABBITS Vulnerable animals for transport

Specific animal categories

Pas détaillé dans cet avis.

HORSES Vulnerable animals for transport

Specific animal categories

Pregnant females

Stress and WCs associated with the different transport stages when carrying a fetus Risk of going into labour Risk of giving birth Risk of abortion

Fetus/newborn

Risk of prenatal stress Risk of being born during transport

Conclusion

« Fitness for transport », aptitude au transport

Fitness for transport

- Challenges associated with transport are greater for weak or vulnerable animals (less able to cope with hazards)
- The concept of `fitness for transport' is used to describe animals that are fit for the planned journey
- Unfit often relates to health impairment, but also cover certain age groups or physiological stages
- Overview of current guidelines and potential conditions are given

Conclusions and Recommendations

- Assessment of fitness for transport is of utmost importance in the protection of animal welfare
- No scientific definition of the concept of being fit for transport exists – it should be properly defined
- In order to avoid doubt, professional groups (e.g., farmers, stockpersons, drivers, haulers, inspectors and veterinarians) should be well-educated and trained, and questions on responsibility between the groups should be clarified.

PLAN

https://www.efsa.europa.eu/sites/default/files/2022-09/3.Herskin-Free-moving-transport.pdf

En résumé

In summary

20

- · EFSA has assessed animal welfare during transport for horses, cattle, sheep and pigs
- The majority of the opinions deal with road transport constitutes around 90%
- The opinions focus on non-juvenile animal categories but also sections on for example unweaned calves or weaners
- · The opinions include animal categories such as cull animals and horses sent for slaughter
- · Short sections on donkeys and goats are available

https://www.efsa.europa.eu/sites/default/files/2022-09/3.Herskin-Free-moving-transport.pdf

Infographies EFSA – free moving animals

TEMPERATURE

Severe heat stress for animals starts at the upper critical temperature (UCT). To reduce this risk, the temperature inside vehicles should not exceed the UCT.

SPACE

Increased space in the vehicle is important to allow animals to adjust their posture in response to acceleration and other events during transport. For pigs, small ruminants, and bovines the minimum space allowance for an animal depends on the live weight.

TIME

A

The amount of time the animals are exposed to hazards is dependent on the journey duration. Based on the scientific evidence on preventing stress, fear and distress in animals, journey duration should be kept to a minimum.

https://www.efsa.europa.eu/en/infographics/animal-welfare-duringtransport-free-moving-animals

Kelly.

Infographies EFSA – free moving animals

https://www.efsa.europa.eu/en/infographics/animal-welfare-duringtransport-free-moving-animals

Infographies EFSA – animals in containers

Sufficient floor space so all can sit at the same time without overlapping. The height of the container should be such that the comb or head does not touch the ceiling when birds sit with their head and neck in a natural posture.

Sufficient floor space to sit in a natural resting posture. The height of the container should be at least 35 cm to ensure rabbits (up to 3 kg) can sit with their ears extended in a comfortable position.

The journey duration of animals transported in containers should be considered as the whole time the animals are confined. EFSA recommends journeys up to a maximum of 12 hours, including 'on farm' feed withdrawal.

.~

The most efficient measure for preventing heat stress is to transport animals in vehicles using effective mechanical ventilation or air conditioning.

EFSA recommends transporting fertilised eggs, instead of day-old chicks, and hatching them on the farm of destination.

https://www.efsa.europa.eu/en/infographics/animal -welfare-during-transport-animals-containers

Conclusion

Pour en savoir plus

Avis de l'EFSA 2002 : <u>https://www.efsa.europa.eu/en/news/more-space-lower-temperatures-shorter-journeys-efsa-recommendations-improve-animal-welfare</u>

EFSA – Bien-être animal : <u>https://www.efsa.europa.eu/fr/topics/topic/animal-welfare</u>

Merci de votre attention.

Centre national de référence pour le **bien-être animal**

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Annexes

Annexes

Transport – Quelques chiffres

Transport - Quelques chiffres Means of animal transport

*Not specific to transport within EU

Source : TRACES - Avis EFSA relatifs au transport (2022)

Transport - Quelques chiffres

Source : TRACES - Avis EFSA relatifs au transport (2022)

Animals transported within the EU in 2021*

*Figures for poultry and rabbits are from 2019

Annexes

« Highly relevant welfare consequences » - Détails par espèces

PIGS Highly relevant welfare consequences associated with transport of pigs

Transport stages

	WCs and definitions	Preparation	Loading/ unloading	Transit	Journey break
Group stress	The animal experiences stress and/ or negative affective states such as pain, fear and/or frustration resulting from a high incidence of aggressive and other types of negative social interactions, often due to hierarchy formation and competition for resources or mates.	х		х	х
Handling stress	The animal experiences stress and/ or negative affective states such as pain and/or fear resulting from human or mechanical handling (e.g. loading/unloading).	Х	х		Х
Heat stress	The animal experiences stress and/ or negative affective states such as discomfort and/or distress when exposed to high effective temperature.	Х	Х	Х	Х
Injuries	The animal experiences negative affective states such as pain, discomfort or distress due to physical damage to somatic tissue types (bones, joints, skin muscles). This can be due to injuries or pathological changes.	Х		Х	х
Motion stress	The animal experiences motion sickness, stress and/or fatigue due to the forces exerted as a result of acceleration, braking, stopping, cornering, gear changing, vibrations and uneven road surfaces during transport.			Х	
Prolonged hunger	The animal experiences craving or urgent need for food or a specific nutrient, accompanied by a negative affective state, and eventually leading to a weakened condition as metabolic requirements are not met.	x		Х	х
Prolonged thirst	The animal experiences craving or urgent need for water, accompanied by an uneasy sensation (a negative affective state), and eventually leading to dehydration as metabolic requirements are not met.			Х	х
Resting problems	The animal experiences stress and/ or negative affective states such as discomfort, and/or frustration due to the inability to lie/rest comfortably or sleep. (e.g. due to hard flooring or vibration during transport). This may eventually lead to fatigue.	Х		Х	Х
Restriction of movements	The animal experiences stress and/ or negative affective states such as pain, fear, discomfort and/or frustration due to the fact that it is unable to move freely, or is unable to walk comfortably (e.g. due to overcrowding, unsuitable floors, gates, barriers).			х	x
Sensory overstimulation	The animal experiences stress and/ or negative affective states such as fear or discomfort due to visual, auditory or olfactory under/ overstimulation by the physical environment.		х	Х	

SMALL RUMINANTS Highly relevant welfare consequences associated with transport of small ruminants

		Transport stages								
	WCs and definitions	Preparation	Loading/ unloading	Transit	Journey break					
Group stress	The animal experiences stress and/or negative affective states such as pain, fear and/or frustration and stress resulting from a high incidence of aggressive and other types of negative social interactions, often due to hierarchy formation and competition for resources or mates.				Х					
Handling stress	The animal experiences stress and/or negative affective states such as pain and/or fear resulting from human or mechanical handling (e.g. loading/ unloading).	Х	Х		Х					
Heat stress	The animal experiences stress and/or negative affective states such as discomfort and/or distress when exposed to high effective temperature.		х	х						
Injuries	The animal experiences negative affective states such as pain, discomfort or distress due to physical damage to somatic tissue types (bones, joints, skin, muscles). This can be due to injuries or pathological changes.		Х		Х					
Motion stress	The animal(s) experience motion sickness, stress and/or fatigue due to the forces exerted as a result of acceleration, braking, stopping, cornering, gear changing, vibrations and uneven road surfaces during transport.				Х					
Predation stress	The animal experiences stress and/or negative affective states such as fear and/or pain resulting from being attacked or perceiving a high predation risk.	Х	Х							
Prolonged hunger	The animal experiences craving or urgent need for food or a specific nutrient, accompanied by a negative affective state and eventually leading to a weakened condition as metabolic requirements are not met.			х	Х					
Prolonged thirst	The animal experiences craving or urgent need for water, accompanied by an uneasy sensation (a negative affective state) and eventually leading to dehydration as metabolic requirements are not met.			Х						
Resting problems	The animal experiences stress and/or negative affective states such as discomfort, and/or frustration due to the inability to lie/rest comfortably or sleep. (e.g. due to hard flooring, inability to perch or vibration during transport). This may eventually lead to fatigue.			х	х					
Restriction of movements	The animal experiences stress and/or negative affective states such as pain, fear, discomfort and/or frustration due to the fact that it is unable to move freely, or is unable to walk comfortably (e.g. due to overcrowding, unsuitable floors, gates, barriers).			х						
Sensory overstimulation	The animal experiences stress and/or negative affective states such as fear, discomfort due to visual, auditory or olfactory under/overstimulation by the physical environment.		Х	х	X					

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CATTLE Highly relevant welfare consequences associated with transport of cattle

			Transport	stages	
	WCs and definitions	Preparation	Loading/ unloading	Transit	Journey breaks
Group stress	The animal experiences stress and/or negative affective states such as pain, fear and/or frustration resulting from a high incidence of aggressive and other types of negative social interactions, often due to hierarchy formation and competition for resources or mates.	х			Х
Handling stress	The animal experiences stress and/or negative affective states such as pain and/or fear resulting from human or mechanical handling (e.g. loading/ unloading).	х	х		х
Heat stress	The animal experiences stress and/or negative affective states such as discomfort and/or distress when exposed to high effective temperature.		Х	х	
Injuries	The animal experiences negative affective states such as pain, discomfort or distress due to physical damage to somatic tissue types (bones, joints, skin, muscles). This can be due to injuries or pathological changes.		х		
Motion stress	The animal experiences motion sickness, stress and/or fatigue due to the forces exerted as a result of acceleration, braking, stopping, cornering, gear changing, vibrations and uneven road surfaces during transport.			х	
Prolonged hunger	The animal experiences craving or urgent need for food or a specific nutrient, accompanied by a negative affective state, and eventually leading to a weakened condition as metabolic requirements are not met.			Х	х
Prolonged thirst	The animal experiences craving or urgent need for water, accompanied by an uneasy sensation (a negative affective state), and eventually leading to dehydration as metabolic requirements are not met.			Х	х
Respiratory disorders	The animal experiences negative affective states such as discomfort, pain, air hunger and/or distress due to impaired function or lesion of the lungs or airways.			х	
Resting problems	The animal experiences stress and/or negative affective states such as discomfort, and/or frustration due to the inability to lie/rest comfortably or sleep (e.g. due to hard flooring or vibration during transport). This may eventually lead to fatigue.			х	х
Restriction of movements	The animal experiences stress and/or negative affective states such as pain, fear, discomfort and/or frustration due to the fact that it is unable to move freely, or is unable to walk comfortably (e.g. due to overcrowding, unsuitable floors, gates, barriers).			Х	
Sensory overstimulation	The animal experiences stress and/or negative affective states such as fear or discomfort due to visual, auditory or olfactory under/overstimulation by the physical environment.		x	Х	Х

DOMESTIC BIRDS AND RABBITS Highly relevant welfare consequences associated with transport of domestic birds and rabbits

Welfare consequence	Preparation	Loading		Journey		Arrival		Uncrating	
Handling stress	n.a.	х	Х	-	-	-	-	х	Х
Bone lesions	n.a.	x	Х	x		x	Х	x	Х
Soft tissue lesions and integument damage	n.a.	x	Х	x	-	x	Х	X	х
Restriction of movement	n.a.	x	Х	x	Х	x	Х	x	х
Sensory overstimulation	n.a.	x	Х	x	Х	x	Х	x	х
Motion stress	n.a.	-	Х	x	Х	x	Х	-	-
Heat stress	n.a.	223	-	x	Х	x	х	-	-
Cold stress	n.a.	-	-	x	х	x	х	-	·
Prolonged hunger	n.a.	- 1	-	x	х	x	х	-	-
Prolonged thirst	n.a.	<u></u> 23	-	x	х	x	х	1000	-

Left : Poultry Right : Rabbits

HORSES Highly relevant welfare consequences associated with transport of horses

		Transport stages								
	WCs and definitions	Preparation	Loading/ unloading	Transit	Journey break					
Gastro-enteric disorders	The animal experiences negative affective states such as discomfort, pain and/or distress due to impaired function or lesion of the gastro- intestinal tract resulting from, e.g. nutritional deficiency, infectious, parasitic or toxigenic agents.			х	х					
Handling stress	The animal experiences stress and/or negative affective states such as pain and/or fear resulting from human or mechanical handling (e.g. sorting and vaccination of newly hatched chicks, loading/unloading, catching and crating of animals to be transported, inversion).	Х	Х		х					
Heat stress	The animal experiences stress and/or negative affective states such as discomfort and/or distress when exposed to high effective temperature.		Х	х						
Injuries	The animal experiences negative affective states such as pain, discomfort or distress due to physical damage to somatic tissue types (bones, joints, skin, muscles). This can be due to injuries or pathological changes.	х	Х	х	Х					
Isolation stress	The animal experiences stress and/or negative affective states such as frustration and/or fear resulting from the absence of or from limited social contact with conspecifics.	Х								
Motion stress	The animal(s) experience motion sickness, stress and/or fatigue due to the forces exerted as a result of acceleration, braking, stopping, cornering, gear changing, vibrations and uneven road surfaces during transport.			х						
Prolonged hunger	The animal experiences craving or urgent need for food or a specific nutrient, accompanied by a negative affective state and eventually leading to a weakened condition as metabolic requirements are not met.			х						
Prolonged thirst	The animal experiences craving or urgent need for water, accompanied by an uneasy sensation (a negative affective state) and eventually leading to dehydration as metabolic requirements are not met.			х						
Respiratory disorders	The animal experiences negative affective states such as discomfort, pain, air hunger and/or distress due to impaired function or lesion of the lungs or airways.			х	Х					
Resting problems	The animal experiences stress and/or negative affective states such as discomfort, and/or frustration due to the inability to lie/rest comfortably or sleep. (e.g. due to hard flooring, inability to perch or vibration during transport). This may eventually lead to fatigue.			х	х					
Restriction of movement	The animal experiences stress and/or negative affective states such as pain, fear, discomfort and/or frustration due to the fact that it is unable to move freely, or is unable to walk comfortably (e.g. due to overcrowding, unsuitable floors, gates, barriers).		Х	х						
Sensory overstimulation	The animal experiences stress and/or negative affective states such as fear, discomfort due to visual, auditory or olfactory overstimulation by the physical environment.	х	Х	Х	Х					
Separation stress	The animal experiences stress and/or negative affective states such as fear and/or frustration resulting from separation from conspecifics.	Х								

Annexes

« Fitness for transport », aptitude au transport : détails par espèces des « General conditions »

Note : définition d'un animal « non-ambulatory » :

" Unable to stand or move without assistance and/or unable to bear weight on two legs (Consortium of the Animal Transport Guides Project, 2018)".

PIGS List of conditions that can make pigs unfit for transport

General condition	Specific condition
	Not specified further
Sickness/illness	Cardiovascular or respiratory disorders/laboured breathing
	Dehydration risk and poor general status (profuse diarrhoea)
	Weakness
	Anaemia (pale skin, breathing quickly)
Pathonhysiological state	Emanciation
r achophysiological state	Circulatory weakness
	Breathing difficulties
	Fatigued/exhausted
	Not specified further
	Serious wound, open or bleeding
	Disabled/infirmity
	Severe, profuse nose bleeding
Injured	Profuse bleeding from the vulva
	Significant pus discharge from the vulva
	Swelling. Multiple abscesses and/or deformation and/or arthritis
	Unhealed wounds after recent surgery
	Severe blood loss
Tail lesions	Severe tail lesions: Evidence of chewing or puncture wounds with swelling and signs of infection. Pigs appearing depressed.
	Partial or total loss of the tail with possible necrosis
Ear lesions	 Severe ear lesions: Wounds involving a large part of the ear. Exposed ear cartilage. Inflammation/ infection deeper in the ear. Severe elephantiasis - the ear is so large/heavy that it limits the pig from moving normally, or from maintaining balance due to the titled head. Acute accumulation of blood ('blood-ear').

SHEEP List of conditions that can make a sheep unfit for transport

General condition	Spec	cific condition	General	Speci	fic condition		
Sickness/illness	Not specified further		condition				
	Pathological processes		Sickness/illness	Not specified further			
	Apparent lack of coordination/di	isorientation	Prolapse	Prolapsed uterus or a severe rectal or severe vaginal prolapse			
	Apparent tack of cooldination/disorder		Hernia	Hernia that (i) impedes movement, including when a hind limb of the animal touches the hernia as the animal is walking, (ii) causes signs of pain or suffering,			
	Shock or dving						
	Fever			(11) touches the ground when the animal is standing in its natural position or (1V)			
	Infected navel			nas an open wound, ulceration			
	Gangrenous udder			Cappet be moved /transported without causing additional suffering			
	Mastitis			Experience severe pain when moving			
	Bloated to the extent that it exh	nibits signs of discomfort or weakness	In pain	Fracture			
	Gastrointestinal disruption			Fracture that impedes mobility or cau	uses pain or suffering		
	Contagious ecthyma (orf)			Unable to bear weight on each leg			
	Orchitis			Lame in one or more limbs to extent t	Lame in one or more limbs to extent that it exhibits signs of pain or suffering and		
	Swollen penis		Lameness	halted movements or a reluctance to walk			
	Urinary calculi causing abdominal distention			Swollen joints			
	Weakness						
	Emaciation	Not specified further BCS < 2 out of 5	General	Speci	fic condition		
	Fatigue/exhaustion		condition	specific condition			
	Dehydration		Non-ambulatory				
	Distress				Final 10% of gestation period		
Pathophysiological	Hypothermia	Not specified further Cold stress or frosthite	Reproductive	Pregnancy	Likely to lamb Within 2 weeks of lambing		
State	Hyperthermia	Not specified further Heat stress	state	Recent lambing	Given birth within the previous 48		
	Engorged udder				Given birth within previous week		
	Eye lesion	Blind in both eyes	Newborn	Unhealed navel			
		Blind	Newborn	< 1 week old			
		Severe squamous cell carcinoma					
	Not specified further						
	Severe open wound or a severe laceration						
	Disal-La d /in Constitut		GOATS: "[] conditions very similar to the ones listed above for sheep				
	Disabled/infirmity		GOATS: " [] conditions very similar to	the ones listed above for sheep		
la ium c	Disabled/infirmity Unhealed wounds after recent su	urgery	GOATS: "[] conditions very similar to t	the ones listed above for sheep		
Injury	Disabled/infirmity Unhealed wounds after recent su Severe haemorrhage	urgery	GOATS: " [(Section 3.3.)] conditions very similar to 3) will leave goats unfit for tr	the ones listed above for sheep ansport. [] for goats, no list of		
Injury	Disabled/infirmity Unhealed wounds after recent su Severe haemorrhage Abscess Has sustained an injury and is bo	urgery	GOATS: " [(Section 3.3.) conditions lea] conditions very similar to3) will leave goats unfit for transformed to animals being unfit h	the ones listed above for sheep ansport. [] for goats, no list of as been developed. [] "		
Injury	Disabled/infirmity Unhealed wounds after recent su Severe haemorrhage Abscess Has sustained an injury and is ho Ingrown horn	urgery obbled to aid in treatment	GOATS: " [(Section 3.3.3 conditions lea (p.69) doi: 10] conditions very similar to t 3) will leave goats unfit for tra ading to animals being unfit h 0.2903/j.efsa.2022.7404	the ones listed above for sheep ansport. [] for goats, no list of as been developed. [] "		
Injury	Disabled/infirmity Unhealed wounds after recent su Severe haemorrhage Abscess Has sustained an injury and is ho Ingrown horn Flystrike	urgery obbled to aid in treatment	GOATS: " [(Section 3.3.3 conditions lea (p.69) doi: 10] conditions very similar to 3) will leave goats unfit for tra ading to animals being unfit h 0.2903/j.efsa.2022.7404	the ones listed above for sheep ansport. [] for goats, no list of as been developed. [] "		

CATTLE List of conditions that can make cattle unfit for transport

General condition	Specific con	dition	General condition	Specifi	c condition	
	Not specified further		Sickness/illness	Not specified further		
	Pathological processes Laboured breathing Congestive heart failure		Injured	Not specified further		
				Severe open wound or a severe laceration		
				Disabled/infirmity		
	Generalised nervous system disorder			Unhealed wounds after recent surgery		
	Shock or dying			Severe haemorrhage		
	Fever			Has sustained an injury and is hobbled	to aid in treatment	
	Pneumonia (unresponsive with fever)			Ingrown horn, broken horns if bone tissue is affected or animal appears		
	Infected navel			depressed		
C 1 (11)	Gangrenous udder		Prolapse	Prolapsed uterus or a severe rectal or severe vaginal prolapse		
Sickness/illness	Acute mastitis		llomia	Hernia that (i) impedes movement, including when a hind limb of the animal		
	Bloated to the extent that it exhibits signs	of discomfort or weakness		touches the hernia as the animal is walking, (ii) causes signs of pain or suffering, (iii) touches the ground when the animal is standing in its natural		
	Massive purulent discharge		Herma			
	Actinomycosis (lumpy jaw)			position, or (iv) has an open wound, ulceration or obvious infection;		
	Extensive Calicer/leukosis			Cannot be moved/transported without causing additional suffering		
	Ketosis Orobitio		Experiencing pain	Experience pain when moving		
	Orchitis Swellen penis			Fracture that impedes mobility or causes pain or suffering		
	Multiple abscesses		Lameness	Unable to bear weight on each leg		
				Lame in one or more limbs to extent that it exhibits signs of pain or suffering		
	Irinary calculi causing abdominal distention			and halted movements or a reluctance to walk		
	Weakness			Unable to walk as fast as a brisk numan pace (cannot keep up with the healthy hord)		
	Emaciation			likely to lose balance during transport		
	Fatigue/exhaustion			Arthritic in multiple joints		
	Dehydration			Artificts in multiple joints		
Pathophysiological	Distress			6 : C		
state	Hypothermia		General condition	Specific	condition	
		Not specified further	Non-ambulatory	Not specified further		
	Hyperthermia	Heat stress			Final 10% of their gestation period	
	Engorged udder			Pregnancy	Last month of pregnancy	
E a la tra	Blind in both eyes				Within 2 weeks of calving	
Eye lesion	Severe squamous cell carcinoma				b	
Reproductive state	Recent calving	Visible placenta	Reproductive state		Given hirth within previous week	
	Unhealed navel < 1 week old			Recent calving	Given birth within the previous	
Newborn					14 days	
					Visible placenta	
Centre national				Unhooled novel	visible placenta	
de référence pour le			Newborn	Unitedieu navel		

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< 1 week old

DOMESTICS BIRDS AND RABBITS List of conditions that can make domestic birds, day-old-chicks or rabbits unfit for transport

	Domestic birds	Day-old-chicks	Rabbits
Evident signs of illness	Х		Х
Emaciation and cachexia	Х		Х
Severe lameness: Unable to stand or walk more than a few steps	Х		Х
Open wounds and prolapse	Х		Х
Abscesses			Х
Poor feather cover in low effective temperature (end-of-lay hens only)	Х		
Fractures (legs, wings) and dislocations	Х	Х	Х
Wet plumage in low effective temperature (except for ducks and geese)	Х		
Wet fur in low effective temperatures			Х
Poor chick quality		Х	
Inability to stand		Х	
Female rabbits in the last third of gestation			Х
Female rabbits and young up to 7 days after parturition			Х
Un-weaned rabbits			Х

P	rincipal conditions which will make domestic birds unfit for transport				
	Evident signs of illness				
	Emaciation and cachexia				
	Severe lameness: Unable to stand or walk more than a few steps				
	Open wounds and prolapse				
Poor feather cover in low effective temperature (end-of-lay hens only)					
	Broken bones (legs, wings) and dislocations				
	Wet plumage in low effective temperature (except for ducks and geese)				
P	rincipal conditions which will make day-old chicks unfit for transport				
	Poor chick quality				
	Inability to stand				
	Fractures (legs, wings) and dislocations				
F	Principal conditions which will make rabbits unfit for transport				
	Evident signs of illness				
	Emaciation and cachexia				
	Severe lameness: Unable to stand or walk more than a few steps				
	Female rabbits in the last third of gestation				
	Female rabbits and young up to 7 days after parturition				
	Un-weaned rabbits				
	Open wounds, prolapse and abscesses				
	Fractures (legs, etc.) and dislocations				
	Wet fur in low effective temperatures				

HORSES List of conditions that can make a horse unfit for transport

General condition	n Specific condition	General		Specific condition
Sickness/illness	Not specified further	condition		
	Pathological processes	Non-ambulatory		
	Laboured breathing (rapid, shallow)	Eye lesion	Blind in both eyes	
	Generalised nervous system disorder	Reproductive	Pregnancy	Final 10% of gestation period (corresponding to 33 days)
	Shock or dying	state	5 ,	Heavily gestating, likely to give birth (i.e. Wax-like beads or
	Fever	51410		milk drops present, or relaxation hindquarters and tail muscles)
Pathophysiologica	l Weakness			Within 2 weeks of giving birth
state	Emaciation/ Severely emaciated		Recent given birth	Given birth within the previous 48 h
	Fatigue/exhaustion		without a foal	Given birth within previous week
	Visible dehydration	General condition	Specific condition	
	Distress			
	Body condition would result in poor welfare because of the expected climatic conditions	Newborn	Unhealed navel (e.g	red and swollen, moist or with fluid)
Injury	Not specified further	ine woorn	Less than 6 months	
	Open or infected wound		Less than 4 months	
	Disabled			
	Recent major surgery			
	Severe head injury			
	Profuse bleeding			
	Penis injuries			
Prolapse	No further specified			
	Uterine, vaginal or rectal prolapse			
In pain	Cannot be moved/transported without causing additional suffering			
	Present signs of unreasonable pain (e.g. Unresponsive to surroundings or repeatedly			
	looking at abdomen, rolling or kicking at abdomen)			
	Fracture			
	Until 3 weeks after a painful procedure (e.g. castration)			
Lameness	Unable to bear weight on each leg			
	Unable to move independently without pain or to walk unassisted			

Note: "Table (17) provides an extensive list of examples of conditions that would make a horse unfit for transport. However, the full list has not been scientifically validated. In addition, such a list of conditions is not the complete answer to issues related to fitness. There are difficulties in readily identifying the conditions and in making a judgment on whether the severity of each condition is sufficient to make a horse unfit in relation to the intended journey."

HORSES List of conditions that can make a horse unfit for transport

Adapted table from Fitness Guidelines (World Horse Welfare et al., 2015) on conditions that render horses unfit for transport or require further investigation

CONDITIONS	ABMs to declare horses UNFIT FOR TRANSPORT	FURTHER ASSESSMENT REQUIRED
Difficulty standing, moving, maintaining balance or lameness, deformity	Stumbling, staggering or falling. Animal unable to: Stand or remain standing; maintain balance; move without difficulty; bear any weight on one of its legs. Severe lameness. Reluctance to stand or move.	Mild lameness. Weight shifting. Abnormal posture.
Wounds	Exposed body cavity, muscle, deeper tissue or bone. Large reopened wound (including surgical wounds). Infected open wound. Difficulty moving. Pain	Multiple wounds. A wound that may reopen. Transport likely to aggravate the wound.
Bleeding	Profuse and/or continuous bleeding. Blood squirting out under pressure.	Nose bleed or other bleed that has stopped
Prolapse	Red or pink mass protruding from the vulva or anus. Bleeding from vulva or anus.	
Late pregnancy or recently foaled	Mares beyond 90% (300 days) of gestation period, or foaled in the previous week. Wax-like beads or droplets of milk on tips of teats.	Enlarged abdomen. Full or enlarged udder.
New-born foal	Navel not healed: moist; fluid dripping from end; redness and swelling.	
Pain	Repeated rolling; kicking or looking at abdomen. Unresponsive to surroundings. Inability to stand or difficulty standing. Horse grimace scale = 2	Restlessness. Weight shifting. Profuse sweating. Facial tension. Horse grimace scale = 2
Dehydration	Unresponsive to surroundings.	Drinking excessively or for extended periods. Aggression when water is present. Dark, thick or strong-smelling urine. Abnormal faeces.
Exhaustion	Unresponsive to surroundings. Inability to stand or move. Collapse.	Lethargy, dull demeanour. Leaning or resting head. Reluctance to move or stand.
Body Condition Score (BCS) (animals may be at risk of other health problems)	Poor/emaciated: Ribs, hips, backbone prominent. Skin stretched tightly over bones. Horses with a BCS \leq 1 and a BCS=5 are unfit for transport	Very fat: Fat deposits on top of neck. Ribs and pelvis buried. Back broad and flat. Deep gutter along spine.
Infectious disease	High rectal temperature (above 38.5°C/101.3°F). Fitting, paralysis or collapse.	Swellings, lumps or abscesses. Repeated coughing. Discharge from any orifice. Sensitivity to light, touch or noise. Abnormal faeces.
Colic	Repeated rolling, lying down, looking at abdomen. Pain.	Restlessness. Groaning. Profuse sweating. Abnormal posture or head and neck position.
Swelling, inflammation or abscess	Significant swelling, heat and/or redness. Pain. Ruptured abscess. Inability to move. Lameness.	Abscess that has not ruptured. Mild lameness. Reluctance to move.
Hernia	Signs of pain, poor general health or colic.	Large hernia. Evidence of lesions or infection. Transport likely to aggravate condition.
Visually impaired	Total blindness.	Discharge from eye/s. Abnormal eye/s. Material present on the eye.
Dangerous behaviour	Behaviour that presents a risk, such as rearing, bucking, kicking, biting or striking out	If in any doubt about an animal's behaviour
Unbroken Equidae	Journeys over eight hours for animals that cannot be led by a halter/head collar without causing avoidable excitement, pain or suffering. BUT score can be used to differentiate these animals (Menchetti et al., 2021).	If in any doubt about whether an animal is broken/handled or not.
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