SHOULD THIS BIRD BE LOADED?

A guide for preparing, loading, and transporting poultry



















Introduction

Farmers work hard to ensure their animals are properly cared for 365 days of the year. In order to ensure good welfare throughout the birds' life, it is also important to ensure proper care during catching and loading onto trucks leaving the farm, until the birds arrive at the processing plant.

This guide is designed to assist poultry farmers, catching crews, and haulers in making decisions about which birds should be loaded for transportation.

This handbook provides additional details for the information provided within the "Should This Bird be Loaded?" decision tree and poster. Only healthy birds that are fit to withstand the journey to the final destination should be loaded and transported.



This project was possible due to the following partnerships:

Ontario Ministry of Agriculture Food and Rural Affairs

Poultry Industry Council

University of Guelph

Ontario Farm Animal Council

Chicken Farmers of Ontario

Egg Farmers of Ontario

Turkey Farmers of Ontario

Ontario Broiler Hatching Egg and Chick Commission

Association of Ontario Chicken Processors

www.livestockwelfare.com

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To order additional copies of any of the **Poultry Decision Tree** materials, please contact OFAC or Poultry Industry Council.

This guide is intended to assist producers in making ethical and responsible decisions regarding poultry transportation. The authors do not make any representations, warranties or conditions, either express or implied, with respect to any of the information contained in this guide. This information is offered entirely at the risk of the recipient and as the recipient assumes full responsibility, the authors shall not be liable for any claims, damages, or losses of any kind based on any theory of liability arising out of the use of, or reliance upon, the information (including omissions, inaccuracies, typographical errors, and infringement of third party rights).

SHOULD THIS BIRD BE LOADED?

Guidelines for Transporting Poultry DO NOT TRANSPORT DO NOT LOAD

Weak and/or not alert

- Dark red, purple, or black combs or wattles
- Discharge from eyes/nostrils
 - Swollen head/neck
- Skin on head or neck is dark red or very pale (Exception: toms can have bright blue skin in this area)
- Emaciated and weak: very thin, Bloody and/or prolapsed vents
- Exception: end-of-lay hens may have emaciated they must not be loaded) pronounced breastbones but if easily felt breastbone
- (including injury due to handling) Unable to rise or walk due to physical abnormality or injury

Dislocated, broken or exposed bones

Birds not loaded should be segregated according to on-farm protocol. Notify farm manager of birds left on the farm before leaving.

CAUTION

Conditions requiring assessment before loading

animal that by reason of

cause to be loaded... an infirmity, illness, injury,

No person shall load or

Regulations

Wet birds in cool or cold weather

Environmental

- Heat and/or humidity
- Cold and/or wind chill

the expected journey.

Health of Animals Regulations; Part XII, 138, 28

undue suffering during

transported without fatigue or any other

cause cannot be

Road closures

Individual Bird

(including injury due to handling) Minor trauma, wounds or bleeding

Load or unload a bird in

Transport a sick or injured bird

a way likely to cause

injury or suffering

Flock

Diarrhea

extent as to cause injury

or undue suffering

Crowd birds to such an

- Coughing and sneezing "snicking"
- If a flock is diagnosed with a disease by provisions for loading may be required. a veterinarian or laboratory special

processing plant when faced with should be made by the producer, **Assessment and joint decisions** catching crew, transporter and

CAUTION conditions

HEALTHY BIRDS TRANSPORT LOAD &

Should this bird be loaded?

www.inspection.gc.ca

Violators of the

Health of Animals Act.

 \Rightarrow Fines up to \$10,000

- Increased fines for repeat offenders
- on CFIA website
- Repeat offenders posted

Guidelines for Dealing with Poultry

TRANSPORT

TOAD &

HEAL THY

1. Identify

Identification of Sick or Injured Birds





Emaciated

Weak, not alert





Dispose



Unable to rise/ walk

(Ontario only)

Swollen head

Discoloured comb

(Do not confuse with fatigue) due to physical abnormality **Broken leg**

1-877-814-2342 **Emergency Transport Livestock** CFIA Line

Environmental Considerations Factors to Consider

	4	Ellvii Ollii
Maximum Loading & Transport Densities	Moderate	Extreme Heat
Broiler Chickens	63 kg/m²	54 kg/m ²
Broiler Breeders	66 kg/m ²	56 kg/m ²
Turkeys	98 kg/m²	83 kg/m ²
End-of-Lay Hens	63 kg/m²	54 kg/m ²
Reference: The Recommended Code of Practice for the Care	ractice for the Care	

Number of birds in the barn

Ventilation in barn

Time of day of load-out

Condition of barn (e.g. litter)

the Care & Handling of Farm Animals Recommended Code of Practice for Duration of travel (including loading and lairage)

except end-of-lay hens, which should be maintained at 5°C to 30°C for all birds, Air temperature in load should be maintained at 13°C to 30°C.

route and at processing plant

Weather at load-out, along

2008) recommends for broilers, an upper Recent research (Mitchell and Kettlewell, in load temperature limit of 24°C.

and Handling of Farm Animals - Poultry

Poultry Welfare

It's everyone's responsibility!

Definition

The welfare of a bird includes its physical and mental state. Good welfare implies both fitness and a sense of well-being. All birds must be protected from undue suffering.



Bird welfare starts in the barn and continues through loading, transportation, and slaughter at the processing plant. Everyone who works with birds is responsible for maintaining bird welfare.

Federal Regulations

CFIA Health of Animals Regulations www.inspection.gc.ca

What is your responsibility in the *Health of Animals* Regulations?

DO:

- Load or transport birds that are free from infirmity, illness, injury, fatigue or any other cause which may induce undue suffering during the expected journey
- Load or unload the birds in a way that prevents injury or undue suffering
- Load or transport birds using densities which minimize
 crowding. For more information reference the Transportation Codes of Practice
- Minimize transport times (less than 36 hours)
- Transport birds in a manner that they are unlikely to suffer due to exposure to the weather or inadequate ventilation

Violators may receive Administrative Monetary Penalties (AMPs)

Notice of violation:

- With warning
- With penalty

\$1,300 - \$10,000

Up to **\$15,000** based on the severity of the violation and the history of the offender

CFIA posts repeat offenders (multiple offenses within 5 years) on their website

Did you know? CFIA has the authority to inspect birds during loading, and to stop and inspect trucks during transit.

Identify - Cull - Dispose (ICD)

Producer practices prior to loading.

Load Healthy Birds. Refer to your **On-Farm Animal Care Program** for details.

Identify

As part of your daily routine, identify birds that have **DO NOT LOAD** conditions. Refer to pages **12 - 17** for guidelines.

Cull

Adopting a daily culling program will minimize the number of **DO NOT LOAD** birds left in the barn after a load-out. This will improve load-out efficiency and eliminate the need to euthanize a large number of birds left on the farm.

Euthanasia must result in a **quick death without pain or distress**. The method depends on the number and type of birds being culled and it must be performed by **competent personnel**.

Identify - Cull - Dispose (ICD)

Producer practices prior to loading.

Cull - Euthanasia results in a **quick death without pain or distress**.

Acceptable Euthanasia Methods

- Blunt force trauma to the head
- Non-penetrating captive bolt
- Cervical dislocation

For Large Numbers of Birds:

- CO₂ gas administered at appropriate concentrations
- Other inert gases such as argon
 - *All euthanasia methods must be performed by competent personnel.

Unacceptable Euthanasia Methods

- Physical trauma not listed under "acceptable methods"
- Suffocation
- Drowning
- Rapid freezing
- Injecting household products or solvents, or chemical irritants
- Maceration for birds older than 72 hours
- Poisons
- Burdizzo/Castration forceps

Reference: "AVMA Guidelines on Euthanasia"

Dispose

Refer to provincial regulations for guidelines on disposal.

Handling Guidelines for Catching Crews

Proper handling will minimize injuries during catching & loading

Caged end-of-lay hens

DO

- Remove birds from cages using two legs
- Remove only one or two birds from a cage at a time (depending on the size of the cage door)
- Minimize passing of birds between people
- End-of-lay hens are more fragile than other poultry
- Place birds gently and upright in the liner

DO NOT

- Carry the birds by the wings or neck
- Load birds with "DO NOT LOAD" conditions
- Swing, throw or drop the birds
- Squeeze the legs

Turkeys

DO

- Minimize passing of birds between people
- Place birds gently and upright in the liner
- Ensure no part of the bird is protruding from the liner before closing the door

DO NOT

- Herd birds in a way likely to cause smothering or piling
- Carry the birds by the wings or neck
- Load birds with "DO NOT LOAD" conditions
- Swing, throw, or drop the birds

Handling Guidelines for Catching Crews

Proper handling will minimize injuries during catching & loading

Floor birds - chickens

DO

- Minimize passing of birds between people
- Place birds upright and gently inside the crates

DO NOT

- Herd birds in a way likely to cause smothering or piling
- Carry the birds by the wings or neck
- Load birds with "DO NOT LOAD" conditions
- Swing, throw, or drop the birds

Humane Broiler Catching

For Catching Crews



Produced by
Ontario Ministry of Agriculture Food and Rural Affairs
Association of Ontario Chicken Processors
Chicken Farmers of Ontario

0.2012

OMAFRA offers Humane Handling courses for:

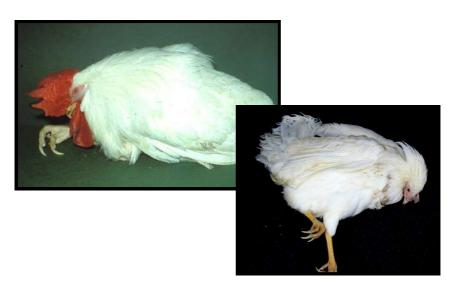
- Broilers
- Layers & Pullets
- Turkeys

These train-the-trainer sessions are offered free of charge. If you are interested please contact the OMAFRA Poultry Specialist.

Segregate and notify the Farm Manager

Weak and/or not alert

These birds might not run away from you when approached (floor chickens), or might move with the group when being herded (turkeys). They might have their heads on the litter and their feathers fluffed up.



These birds should not be confused with large tom turkeys that become fatigued during herding!

Segregate and notify the Farm Manager

Skin on head or neck is dark red or very pale

Compared to other birds in the flock, these birds will have discoloured faces. They might also show other **DO NOT LOAD** symptoms.



Mature male turkeys (Toms) can have vibrant blue, red, or purple on the face or neck



WE ARE HEALTHY!



Segregate and notify the Farm Manager

Swollen head and/or neck

The face or head will be puffy and eyes might be swollen shut. These birds might also have wounds on their heads.





Discharge from eyes and/or nostrils



Segregate and notify the Farm Manager

Dark red, purple, or black combs and wattles

Discoloured combs or wattles indicate that a bird is sick. The bird might also be compromised (weak, not alert, and thin).





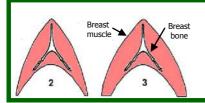


Look for this in end-of-lay hens and broiler breeders.

Bloody and/or prolapsed vents

The area under the tail will have exposed red tissue that appears to stick out. There can also be blood in the area. Prolapsed vents are painful and hens can bleed out and die if the prolapse is pecked or stepped on.

Segregate and notify the Farm Manager



Body Condition Scores of 2 or 3 reflect healthy birds with good muscle tone. **LOAD THESE BIRDS!**



A **Body Condition Score of 1** can reflect a compromised broiler chicken or turkey. Segregate these birds and notify the farm manager.

Thin End-of-lay hens SHOULD NOT be confused with emaciated birds.

End-of-lay hens will be less muscular than broilers or breeders due to their production cycle and genetics. End-of-lay hens may receive a body condition score of 1 and still be loaded. Cautionary measures might be needed (E.g. adjustment of loading densities, tarping).



A Body Condition Score of 0 reflects an emaciated, very thin and weak bird. The breastbone is very easy to feel. The muscles dip into the breastbone on the side (concave breast muscle). Emaciated birds will be weak and

MUST NOT BE LOADED

These birds do not have the energy reserves to withstand the stress of catching and transportation, and will likely be dead-on-arrival (DOA).

Segregate and notify the Farm Manager

Dislocated, broken and/or exposed bones

These injuries are painful. Wings might droop on the ground and legs might stick out at odd angles. Legs might also be discoloured with bruises.

DO NOT LOAD birds with broken and/or exposed bones!Dislocated and broken bones are painful during catching and transport due to handling bumps and motion. Broken bones can also limit the birds ability to move around in the crate or liner.



Birds unable to rise or walk due to physical abnormality or injury should not be confused with turkeys that become fatigued during herding!

Conditions requiring assessment

Environmental Cautions

Wet Birds

- DO NOT LOAD wet birds in cool or cold weather.
- Protect birds from getting wet during loading by using tarps and eaves troughs.
- Use caution when loading wet birds in moderate conditions.



See page 21 for loading and transportation temperature guidelines.

Wet birds cannot maintain their body temperature in cool or cold weather and are more likely to freeze to death during transport (DOAs).

Wet birds that are loaded in cool or cold weather are a significant cause of DOAs and every effort should be taken to ensure the birds are dry when they are loaded and stay dry during transport.

Conditions requiring assessment

Environmental Cautions

Road Closures



- Be aware of road closures prior to loading so that alternative routes or loading times can be established.
- Listen for current updates and look for alternate routes when necessary.

Be Aware of...

- Snow Storms
- Weather Conditions
- & Road Closures
 - Accidents Roll Overs/Crashes

 - Construction



Conditions requiring assessment

Temperature, Humidity and Wind Chill

When determining whether a flock should be loaded during adverse weather conditions a joint decision should be made by the producer, catching company, hauling company, and processing plant **prior** to load-out.

Have you considered...

- 🚺 Condition of birds & barn
- ✓ Weather & travel conditions
- ✓ Duration of travel
- Time of loading
- Tarps on trucks
- Wind chill or humidity

Recommended Code of Practice for Poor Weather Conditions

Air temperature **in the load** should be maintained between 5°C (43°F) and 30°C (86°F) for all birds, **except** end-of-lay hens in which the load should be maintained between 13°C (55°F) and 30°C (86°F)

DO NOT LOAD WET BIRDS IN COOL OR COLD WEATHER!

Recent research (Mitchell and Kettlewell, 2008) recommends for broilers, an upper **in load** temperature limit of 24°C.

Conditions requiring assessment

Air Temperature

Maximum Loading & Transport Guidelines	Moderate	Extreme Heat Density	
Broiler Chickens	63 kg/m ²	54 kg/m ²	
Broiler Breeders	66 kg/m ²	56 kg/m ²	
Turkeys	98 kg/m ²	83 kg/m ²	
End-of-Lay Hens	63 kg/m ²	54 kg/m ²	

Reference: The Recommended Code of Practice for the Care and Handling of Farm Animals - Poultry

When transporting birds during extreme temperatures discussions between all stakeholders should occur to assess whether or not birds should be loaded and if the truck can be delayed until better conditions are available.

The above chart provides guidelines regarding stocking densities at different temperatures however these do not consider wind chill or humidity. Additionally, across Canada these temperatures and guidelines might differ due to moisture levels in the air.

Conditions requiring assessment



How many birds per crate?

The following charts can be used as a guide for deciding how many birds should be loaded per crate.

The charts are based on the Recommended Codes of Practice, and provide <u>maximum</u> bird numbers.

When deciding to transport, consider: temperature (in load), wind chill, humidity level and precipitation

Adjust tarps and include strategically placed empty crates to improve air movement and ventilation.

Conditions requiring assessment

Guideline for Loading <u>Broiler Chickens</u> into 44" x 28" Anglia Modules Drawers (0.79m²)

Weight (kg)	1.75kg N			2.50kg r of Birds	_	_
Moderate (63 kg/m²)	28	25	22	20	18	14
Extreme Heat (54 kg/m²)	24	21	19	17	15	12

Guideline for Loading <u>Broiler Chickens</u> into 44" x 47" Linco Module Drawers (1.3m²)

Weight (kg)	1.75kg N	2.00kg 1aximum		2.50kg of Birds		
Moderate (63 kg/m²)	48	42	37	34	30	24
Extreme Heat (54 kg/m²)	41	36	32	29	26	21

Conditions requiring assessment

Guideline for Loading <u>Broiler Chickens</u> into 23" x 34" Chicken Crates (0.50m²)

Weight (kg)	1.75kg			2.50kg er of Bird		
Moderate (63 kg/m²)	18	16	14	13	11	9
Extreme Heat (54 kg/m²)	15	14	12	11	10	8

Guideline for Loading End-of-lay hens into 45" x 16" End-of-lay hen Baskets (0.46m²)

Weight (kg)	1.50kg	1.70kg	1.80kg	2.00kg	2.50kg	2.70kg		
	N	/laximuı	m Numbe	er of Bird	ls / Basket			
Moderate (63 kg/m²)	19	17	16	14	12	11		
Extreme Heat (54 kg/m²)	17	15	14	12	10	9		

Conditions requiring assessment

Guideline for Loading <u>Turkeys</u> into 45" x 45" Large Liners (1.32m²)

Weight (kg)	5.29kg			10.00kg		
		Maximu	m Numb	er of Bird	ls / Liner	•
Moderate (98 kg/m²)	24	20	16	13	9	6
Extreme Heat (83 kg/m²)	21	17	14	11	7	5

Guidelines for Loading <u>Turkeys</u> into 45" x 37" Small Liners (1.09m²)

Weights (Kg)	- T			10.00kg er of Bird		20.00kg
Moderate (98 kg/m²)	20	16	14	11	7	5
Extreme Heat (83 kg/m²)	17	14	11	9	6	5

Conditions requiring assessment

Humidex = "Feels Like" Temperature

Source: Environment Canada

Temperatures are listed across the top and humidity down the side. The temperature that correlates with each level of humidity combine to make a humidex value (or "feels like" temperature).

			Temperature								
		20 C	20 C 25 C 30 C 35 C								
	50%	22	28	36	45						
ty	60%	24	30	38	46						
Humidity	70%	25	32	41	49						
un '	75%	26	33	42	50						
Ī	80%	26	33	43	52						
_	85%	27	34	44	53						

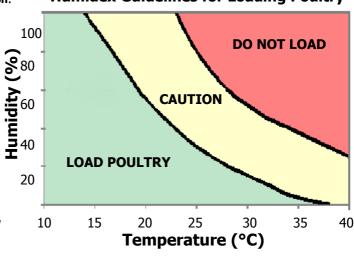
For more information:

Classen H.L., Knezacek T., Audren G.P., Stephens s., Crowe, T., Barber E.M., Olkowski A.A., Mitchell, M.A. Kettlewll P.J. (2002): Final Report : Studies on Broiler Chicken Transportation in Saskatchewan; Project SDAF# 19990246-24BX

Mitchell, MA, and PJ Kettlewell, 1998. Physiological stress and welfare of broiler chickens in transit: solutions not problems! Poultry Science, 77: pp. 1803-1814.

Mitchel, MA, Kettlewell, PJ, Carlisle, AJ and Matheu, C. 1996. The use of apparent equivalent temperature (AET) to define the optimum thermal environment for broilers in transit. Poultry Science 75, supplement: p. 18

Humidex Guidelines for Loading Poultry



Should this bird be loaded?

Pg 26

Conditions requiring assessment

Individual Bird

- Cuts and lesions on the skin will vary in severity.
- The size of the injury should be considered, as well as its location and how the bird appears.
- If unsure whether a wound is severe enough to cause undue suffering during transport, speak to a supervisor.



Identify - Cull - Dispose
The farm manager should
ensure birds are ready to
load before crews arrive and
euthanize ALL birds that
SHOULD NOT BE LOADED

Be aware...

If vet or lab diagnosis confirms disease, the flock may be deemed fit for transport despite the condition of the birds. In this case, special transport provisions may need to be considered,

Density Biosecurity Handling Loading times Transport Time

Weather Conditions

Flock

such as:

Diarrhea can be due to diet or illness. An individual bird with diarrhea is unfit if it also shows symptoms listed under **DO NOT LOAD**. A flock with diarrhea might be wet, and wet birds should no be transported in cold weather.

Definitions

Compromised Bird

A bird with reduced capacity to withstand the stress of transportation, due to injury, fatigue, infirmity, poor health, distress, or any other Cause (Adapted from CFIA Compromised Animals Policy)

Distress

An aversive, negative state in which coping and adaptation processes fail to return an organism to a normal physiological and/or psychological state (Adapted from Carstens and Moberg 2000; Moberg 1987; NRC 1992)

Euthanasia

The humane destruction of an animal accomplished by a method that produces rapid unconsciousness and subsequent death without evidence of pain or distress, or a method that utilizes anaesthesia produced by an agent that causes loss of consciousness and subsequent death. "Euthanasia" originates from the Greek language: **eu** meaning "**good**" and **thanatos** meaning "**death**".

Fatigue

Extreme tiredness/weakness, typically resulting from mental or physical exertion or illness.

Definitions

Prolapse

Also known as "prolapsed oviduct", "prolapsed vent", or "blowout". Occurs when the lower part of the hen's oviduct (egg duct) protrudes through the vent. A prolapse often leads to pecking, meaning the bird can also be injured/bleeding.

Segregate

To set apart from the rest or from each other; isolate or divide.

Suffering

To submit to or be forced to endure something that causes pain or distress.

Transportation Time

The time from when the first bird is loaded to when the last bird is unloaded.

Welfare

How an animal is coping with the conditions in which it lives. An animal is in a good state of welfare if (as indicated by scientific evidence) it is healthy, comfortable, well-nourished, safe, able to express innate behaviour, and is not suffering from unpleasant states, such as pain, fear, and distress.

(Source: American Veterinary Medical Association)



- 1. FAWC: Farm Animal Welfare Council. *5 Freedoms*http://www.fawc.org.uk
- 2. Agriculture and Agri-Food Administrative Monetary Penalties Act 2010

Regulations Amending the Agriculture and Agri-Food Administrative Monetary Penalties Regulations. http://www.gazette.gc.ca

3. National Farm Animal Care Council 2003 Recommended Code of Practice

for the care and handling of pullets, layers and spent fowl. http://www.nfacc.ca/

- **4. AVMA Guidelines on Euthanasia**http://www.avma.org/issues/animal_welfare/euthanasia.pdf
- 5. **CFIA Health of Animals Regulations** http://laws-lois.justice.gc.ca/PDF/C.R.C., c. 296.pdf
- **6. Loading Densities**http://www.nfacc.ca/codes-of-practice/chicken-turkeys-and-breeders



Contacts



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Ontario Ministry of Agriculture Food and Rural Affairs (OMAFRA)

1 Stone Road West Guelph, ON N1G 4Y2 Phone: 1-877-424-1300

www.omafra.gov.on.ca

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