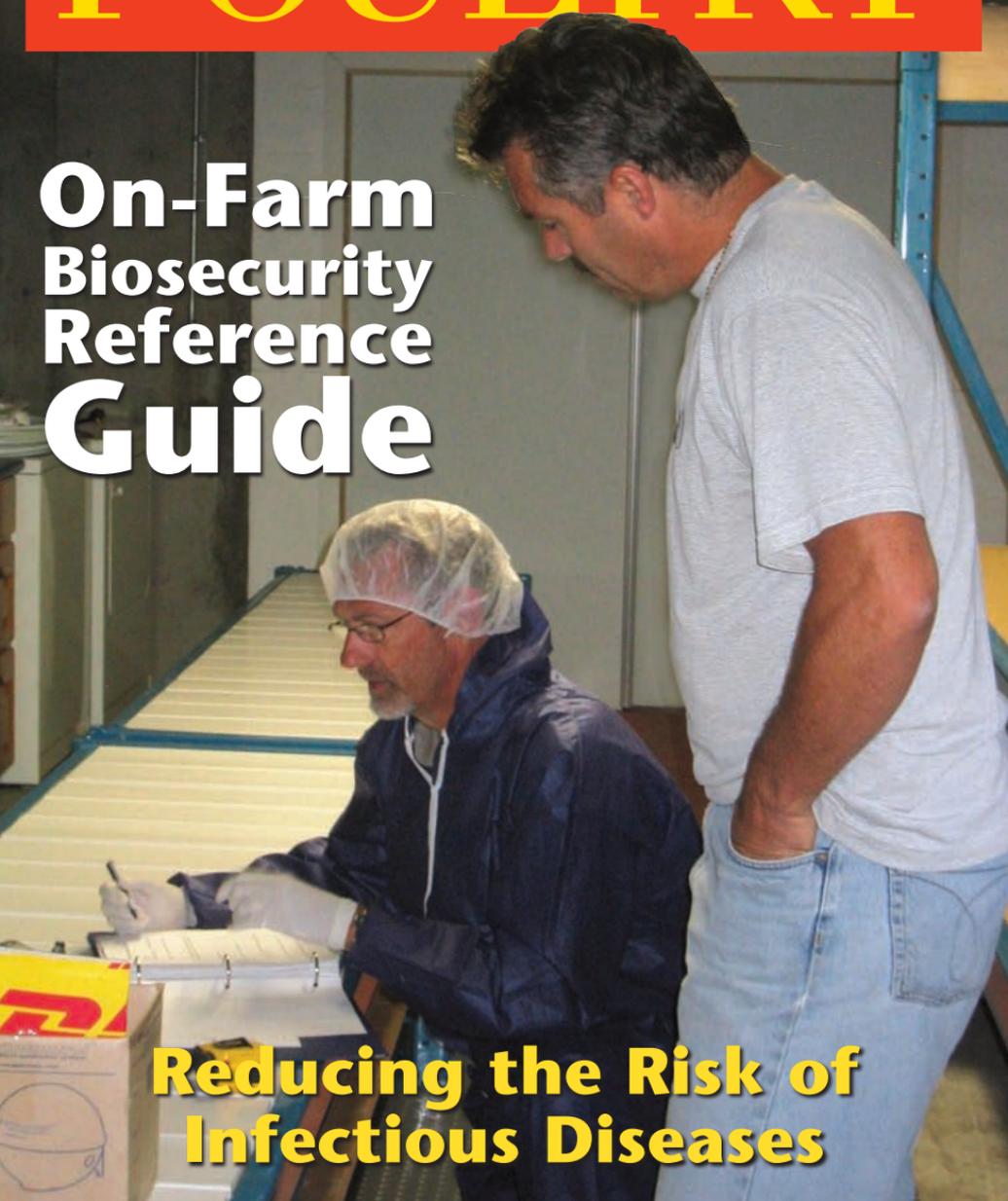


Canadian LA REVUE CANADIENNE D'AVICULTURE POULTRY

On-Farm Biosecurity Reference Guide



**Reducing the Risk of
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SEPTEMBER 2009

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*Canadian Poultry Magazine wishes
to extend special thanks to eBiz
Professionals Inc. for editorial content of
this publication.*



Biosecurity Anterooms

– Crossing a Line

Most farmers are careful when they enter the active area of their barn, and carrying a disease agent into close quarters with their birds is a line they will not knowingly cross. The problem is, how can you be sure that others are doing the same? Part of the solution is to focus visitors' attention on entering and leaving the barn, and consistently reinforce the habit of doing what's right. An anteroom, an area that clearly and often physically divides the "clean" side from the "dirty" side, can help on both counts.

Recent work in the industry, prompted by concern about farm

services workers entering the active barn area during the course of their day-to-day activities, has resulted in considerable interest in designing anteroom areas, and determining how they should be used. In 2007, four pilot sites were built and studied, three in British Columbia and one in Ontario, to establish models for each of four farm types – broiler-breeder, layer, broiler, and turkey. The costs of construction were collected, and protocols to guide their use were prepared for each.

At the same time, a mandatory Biosecurity Program was being finalized in British Columbia,



including the requirement that an anteroom be built on each farm, and that separation between clean and dirty areas be maintained at each barn. Also, the National Avian Biosecurity Advisory Council was refining its work on national standards for avian biosecurity.

A second study published for industry use in 2009, set out to determine how the designs and materials for anterooms on poultry farms could be standardized, and what equipment and supplies they would need to properly fulfil their role as a principal barrier to defend



poultry barns from inadvertent infection by visitors. It contains useful sourcing information for farmers.

Here's what the study found.

1. A surprisingly large number of poultry farmers say they are positive about building or improving the anterooms on their farms, with or without financial support from government programs.
2. Contractors are available who understand the requirements for poultry anterooms – especially those who have built swine facilities, including “Danish entries,” which have similar

requirements. A list of contractors who helped in the study is published in the new report.

3. Costs vary widely, both by style of construction and by contractor. A design standard and a list of materials are available in the report.
4. Anterooms help achieve several of the national standards for biosecurity.
5. Anterooms are the focus for biosecurity materials and supplies that are essential tools in the effort to resist disease transfer; they are listed, along with manufacturer and distributor names, elsewhere in this guide.
6. Prefabricated anteroom shells are available in standard forms and dimensions, and are a good option for any farmer requiring additional space for a biosecurity anteroom.

Information from the new report is available for download at www.agbiosecurity.ca, or by email request at info@ebpros.com. Farmers seeking assistance in financing new and renovated anterooms may be eligible under the biosecurity provisions of the Growing Forward program – check with your provincial ministry for details.

An effective biosecurity anteroom will ensure that everyone entering a barn will know that something special is required here, and the more they see barns with these facilities, the more likely it is that biosecurity will become a good habit not to break. ■

A report on the anterooms built in B.C. and Ontario is available for review. It contains design drawings and photographs of the anterooms installed on each of the four subject farms, along with protocols for their use. Go to www.agbiosecurity.ca and follow the links to the poultry section.



Agence canadienne
d'inspection des aliments

Canadian Food
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Canada



Avis public

La protection de la santé des animaux : tout commence à la ferme

La biosécurité à la ferme est le meilleur investissement pour protéger la santé de vos animaux. La biosécurité signifie l'application de mesures simples et peu coûteuses pour empêcher l'introduction et la propagation de maladies au sein de votre ferme.

Mettez sur pied un plan de biosécurité pour votre ferme

Un plan de biosécurité complet comporte les activités de base suivantes :

- Nettoyez et désinfectez quotidiennement les étables, les enclos, les distributeurs d'aliments et le système d'approvisionnement en eau.
- Lavez-vous les mains et enfillez des vêtements et des chaussures propres avant et après tout contact avec les animaux.
- Gérez l'accès qu'ont les visiteurs aux animaux.
- Tenez les animaux domestiques loin des animaux sauvages.
- Utilisez de bonnes pratiques de tenue de registres quotidiennement.
- Enlevez rapidement les carcasses et interdisez l'accès à celles-ci.

Observez vos animaux

Surveillez vos animaux et notez tout changement de leur apparence, de leur comportement ou de leurs habitudes alimentaires.

Consultez un spécialiste

Si vous avez des animaux malades, consultez un vétérinaire ou un professionnel de la santé animale dès que possible. Cela pourrait réduire l'incidence de la maladie sur votre ferme et celles avoisinantes.

Pour de plus amples renseignements, composez le
1-800-442-2342 ou visitez le site suivant :
www.inspection.gc.ca/biosecurite

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Public Notice

Keeping animals healthy: It starts on the farm

Farm-level biosecurity is the best investment you can make to help keep your animals healthy. Biosecurity means taking simple and inexpensive steps to prevent diseases from being introduced to your farm and then spreading.

Make a biosecurity plan for your farm

A thorough biosecurity plan starts with these basic parts:

- Routinely clean and disinfect barns, pens, feeders and watering equipment.
- Wash your hands and change into clean clothes and footwear before and after coming into contact with your animals.
- Control visitor access to your animals.
- Prevent contact between domestic and wild animals.
- Practice good daily record keeping.
- Quickly remove and restrict access to carcasses.

Observe your animals

Watch for changes in your animals' appearance, behaviour and eating habits.

Rely on an expert

If you have sick animals, talk to a veterinarian or an animal health professional as soon as possible. This can reduce the impact of disease on your farm and on surrounding farms.

For more information call **1-800-442-2342** or visit
www.inspection.gc.ca/biosecurity

www.inspection.gc.ca

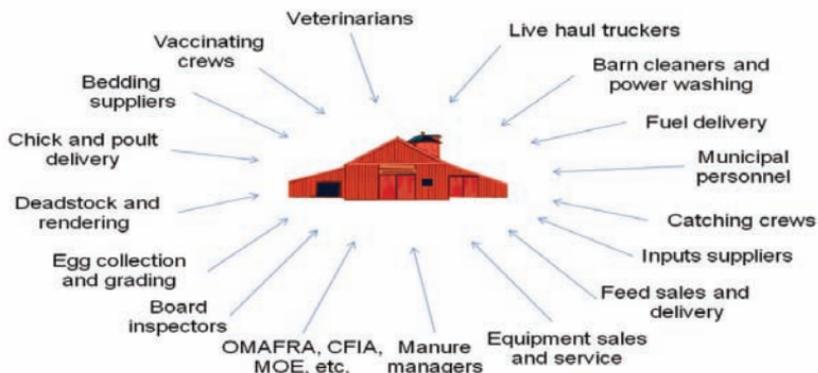
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Following Protocol

Had you ever heard the word biosecurity 20 years ago? Probably not, but it sure is a familiar word today. Poultry farmers have been tightening their own biosecurity practices and requirements over the years with help from their boards' On-Farm Food Safety programs. The logical next step to improve on-farm biosecurity is to ensure that farm service operators that travel from farm to farm are also following good biosecurity practices.

From hatcheries to bedding suppliers to turkey truckers, the full set of sector-specific standard operating protocols are available without cost on www.agbiosecurity.ca. These biosecurity guides follow a typical day starting with preparing your vehicle, arriving at the farm, setting up, cleaning up, departing the farm and returning to home base.

The protocols have been developed with three levels of biosecurity practice: minimum standard, best



Groups of service providers for 23 farm services have come together to help develop standard operating protocols for their particular sector. New protocols have been developed for some sectors and existing protocols have been updated and enhanced with target outcome statements for the farm service operators. These target outcomes are the goals that each operator is trying to accomplish in improved biosecurity.

practice and enhanced security.

Minimum standard is the level of biosecurity that all farm service operators can implement in their day-to-day operations to reduce the risk of spreading disease.

Best practices are activities that farm services can put in place when additional risks are present, or when farmer-customers ask for a higher level of assurance.

Enhanced security is the level

that all farm service operators would work at when passing through or working in an area where there is a suspected or confirmed serious disease or an unconfirmed foreign animal disease. In fact, CFIA requires that operators know and understand these enhanced procedures, and are ready to enact them, when operating in a disease risk zone.

“I have been working to implement these protocols into my business,” said Steve Kratz of Wood Shavings Ontario Inc. “It gives me peace of mind to know I am doing my part to protect the industry, my customers and my business.”

Funding to develop these protocols was provided in part by Agriculture and Agri-food Canada through the Agriculture Adaptation Council CanAdvance program. A sample protocol is reproduced on the following



page(s) for your review. This sample illustrates the form and content that all sector protocols have taken. The standard operating protocols for the 23 sectors are available on www.agbiosecurity.ca. ■



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Wood Shaving

Bedding Supplier Biosecurity Protocols

CLEAN AREAS

The truck cab, box interior, and wood shaving warehouse are equally “clean” areas.

DIRTY AREAS

The road and driveways are “dirty” areas.

1 STEP 1: PREPARATION FOR THE DAY

CLEAN AND DISINFECT VEHICLES

Target Outcome: Farm service vehicles, equipment, and personnel move from location minimizing the risk of transferring potentially-infectious material.

MINIMUM STANDARD

Wash the truck and cab exterior once per week and more often as necessary with water and detergent. Note: winter conditions may limit the frequency of rinsing and

washing.

Wash debris from the wheel wells, bumpers, step plates, boot brush, and other areas susceptible to contamination daily.

Spray the trailer interior daily with disinfectant.

Wash the hoses/pipes daily with water and detergent.

Wash the hose compartment with water and detergent and spray with disinfectant daily.

Clean the cab interior floor and seats by vacuuming or at minimum by sweeping. Dispose of the vacuum contents as potentially-biohazardous waste.

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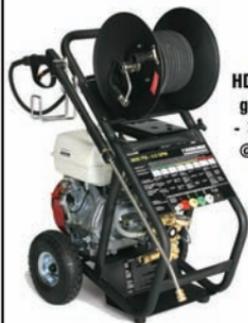


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Wash the steering wheel, pedals, controls, door panels, and windows with water and detergent once per week and more often as necessary.

Remove rubber mats and wash with water and detergent once per week and more often as necessary. Carpets must be permanently removed from cabs.

Empty garbage containers daily and replace garbage bags.

BEST PRACTICE

Spray the hoses/pipes with disinfectant daily.

Schedule time between deliveries to allow vehicle cleaning and/or spray wheels, tires, and wheel wells with disinfectant before leaving each customer location.

Note cleanings in the truck log.

Ensure vehicles have vinyl interior or another easily-cleaned material.

ENHANCED SECURITY

Following notification by the Feather Board Command Centre (FBCC) or the Canadian Food Inspection Agency (CFIA) that there is an unconfirmed disease of interest, review delivery records to identify all vehicles and all personnel that have entered the index farm or the infected zone in the previous 72 hours. Prepare a list of locations visited by these vehicles and personnel in the previous 72 hours.

Contact all drivers immediately and notify them of the boundaries of the infected zone and instruct them not to enter that zone. Give them the boundaries of the restricted zone, and determine if any changes need to be made to the delivery schedule and if avoiding the restricted area is possible.

For all vehicles that have entered the infected zone in the previous 72 hours, have them disinfect the truck tires if possible and go directly to a

truck wash station immediately to clean and disinfect the vehicles.

If the driver learns of a foreign animal disease (FAD) suspicion while on route, he/she should contact his/her company for further direction on continuing the route or returning to the plant.

If a FAD is confirmed, all trucks operating in the security zone must have the wheels and undercarriage disinfected daily.

If a FAD is confirmed, the CFIA will need to authorize bedding deliveries to poultry farms in the restricted zones. Permits will be required and additional biosecurity practices will be determined by the CFIA and the service provider.

Load the Truck

Target Outcome: Farm service operators are prepared to accommodate the biosecurity requirements of their own operation and their customers' operations.

MINIMUM STANDARD

Inspect the truck to ensure it has been cleaned to the prescribed standards. Note inspection in a log book.

Stock the clean truck with bedding, required equipment, clothing, and disinfectants.

Ensure base-layer clothing, coveralls, boots, and gloves are clean.

Review the order, which includes access/egress, zones on farm, barn access locations, and any special biosecurity requirements requested by the farmer.

Drive to the farm.

BEST PRACTICE

The farmer notifies the supplier of any risk situations he/she is aware of on-farm or in the area prior to delivery.

ENHANCED SECURITY

Stock the truck with a bucket, boot

brush, detergent, and four litres of water.

2 **STEP 2: ENTER THE PREMISES**

Target Outcome: Farm service operators know and understand the rationale behind the biosecurity protocols of their customers.

2a. Arrive at the Premises to Blow or Walk Shavings off the Truck

MINIMUM STANDARD

Stop the truck at the end of the farm lane or at the farm's cleaning station. Spray truck tires with disinfectant if requested by the farmer.

Drive slowly < 15km/hr, onto the farm to avoid raising dust or throwing debris.

Avoid obviously contaminated areas.

Keep windows closed except as required for safe vehicle operation.

Park in the designated location or as assigned by the farmer.

Put on clean coveralls, gloves, and work boots.

Sign the farm log book and meet the farmer.

2b. Arrive at a Breeder Premise to Exchange a Trailer of Shavings

MINIMUM PRACTICE

Drive slowly < 15km/hr, onto the premises to avoid raising dust or throwing debris.

Avoid obviously contaminated areas.

Keep windows closed except as required for safe vehicle operation.

Park the trailer in the designated location. The location will be away from the barns. Do not enter the controlled access perimeter.

Hook onto the empty trailer and depart the premises.

3 **STEP 3: UNLOAD THE SHAVINGS**

Target Outcomes: Products supplied to the farm are free from pathogens that can cause infectious disease. Farm service operators know and understand the rationale behind the biosecurity protocols of their customers.

3a. Walk Shavings off the Truck

MINIMUM STANDARD

Start the unloading process at the designated location.

Stay at the truck and do not enter the barn.

When unloading is complete, turn off controls and sweep the back of the truck ensuring that the broom does not touch the ground.

3b. Unload Bagged Shavings

MINIMUM STANDARD

If the bags are on skids in the truck, help the farmer position the skids so the farmer can easily remove them with a tractor or forklift.

If the bags are to be unloaded into the barn or shed, park the truck near the door and position the ramp from the truck to the entranceway.

Roll the bags down the ramp into the building.

If a bag breaks in the truck, do not sweep the shavings onto the ground. They are to be cleaned up back at the yard.

3c. Blow Shavings into the Barn

Target Outcome: Equipment and tools are moved from location to location minimizing the risk of transferring potentially-infectious material.

MINIMUM STANDARD

Hook the hoses/pipes up to the truck.

Farmer takes the hoses/pipes into the barn. Try to keep the hoses/pipes off the ground as much as possible.

Start the blowing process.

Stay at the truck and do not enter the barn.

When it is time to move the hoses/pipes further into the barn, stop the blower, unhook the hoses/pipes and carry them to barn door for the farmer to move inside the barn to next entry.

Blow dust and debris off clothes and remove gloves before entering the truck.

Move the truck to the next entry being used.

Hook up the hoses/pipes to the truck and start the process again.

When unloading is complete, unhook the hoses/pipes and wipe off any visible debris before putting them back onto the truck. Dispose of the cloth in a biosecure location on-farm.

BEST PRACTICE

Farms own their own hoses/pipes.

Ensure that the section of hose that hooks to the truck is the same throughout the process to avoid spreading contaminants from the ground into the barn.

Keep hoses/pipes off the ground as much as possible.

When finished unloading, spray the hoses/pipes with a disinfectant before loading them back onto the truck.

4

STEP 4: CLEAN UP

4a. Clean Up After Walking Shavings off the Truck

Target Outcome: Farm service operators complete their jobs free of undue risk of contracting disease from infected poultry, animals, equipment, or facilities.

MINIMUM STANDARD

Sign out in the farm log book.

Remove gloves and coveralls and store them in a closed plastic

bag in the cab or in an outside compartment on the truck.

Change into driving shoes.

Brush debris off work boots and store them in a closed plastic bag in the cab or in an outside compartment on the truck.

Clean hands with hand sanitizer.

BEST PRACTICE

Wash boots before spraying with a disinfectant.

ENHANCED SECURITY

Scrub boots using water, detergent, and a scrub brush and spray boots with a disinfectant.

Wash hands using soap and water and a hand sanitizer.

4b. Clean Up After Blowing Shavings into the Barn

Target Outcome: The clean area of the vehicle is maintained throughout the course of the day and throughout the functions of the job.

MINIMUM STANDARD

Follow the protocols in 4a. as well as:

Spray pedals, floor mats, controls, and steering wheel with a disinfectant.

BEST PRACTICE

Wash boots and spray work boots with a disinfectant.

ENHANCED SECURITY

Scrub boots using water, detergent, and a scrub brush and spray boots with a disinfectant.

Wash hands using soap and water and a hand sanitizer.

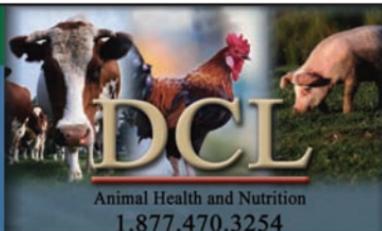
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STEP 5: DEPART THE PREMISES

Target Outcome: Farm service vehicles move from location to location minimizing the risk of transferring potentially-infectious material.

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MINIMUM STANDARD

Record delivery details, date, time, etc. in a log book.

Drive slowly < 15km/hr, off the farm to avoid raising dust or throwing debris.

Avoid obviously contaminated areas.

Proceed to the yard or the next delivery.

BEST PRACTICE

Return to the yard to clean the truck between deliveries.

Schedule only one poultry farm delivery per truck per day.

6

STEP 6: RETURN TO THE YARD

Target Outcome: Farm service operators are fully aware of the risks represented by their actions and fully understand the

biosecurity principles and practices required to reduce them.

MINIMUM STANDARD

If the truck or hoses/pipes were in a noticeably contaminated area on the farm, park the truck away from other vehicles in the yard and begin cleaning and disinfecting the truck and hoses/pipes.

Remove coveralls and gloves for laundering.

Wash and disinfect boots.

BEST PRACTICE

Park the truck in its designated parking spot.

Complete a log book noting the farm locations, date, time, personnel, biosecurity protocols followed (yes/no), farmer or farm personnel spoken to, and any biosecurity concerns noticed or discussed.

ENHANCED SECURITY

Stop truck at the end of the driveway before entering the yard. Spray the truck tires with disinfectant. ■

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- helping to reduce odours helps maintain a positive environment for the livestock and the people working with the poultry.



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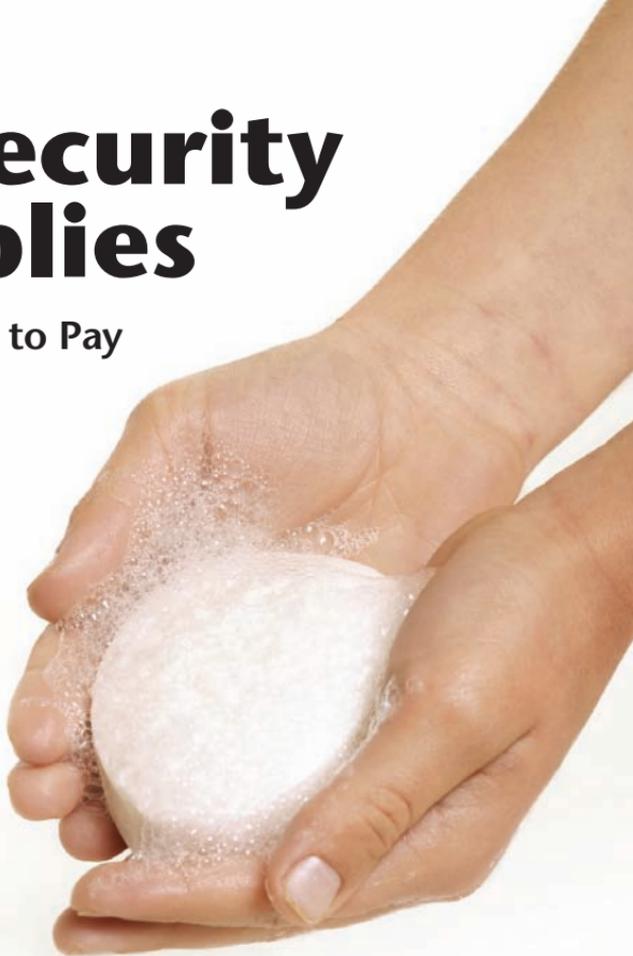
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Biosecurity Supplies

A Small Price to Pay



A little bit of poop on someone else's boots could cost you a bundle. The best way to avoid someone bringing bacteria and viruses into your barn is to lock the door and not invite them in. When visitors do need to come into your barn, make sure their hands and feet are clean. There are many ways to encourage this:

- Post a sign telling visitors what they must do (e.g. report to the house)
- Supply disposable boot covers, coveralls and gloves
- Provide washable coveralls and barn boots of various sizes

- Have a boot bath with fresh disinfectant
- Have a hand wash station or a bottle of hand sanitizer in the entryway.

The most important thing you can do is to tell visitors what you expect.

Many farm service operators who come on farm will have standardized operating protocols that address what biosecurity gear they should wear when entering a farm premises. For your own protection you should ask what their protocols are and let them know that it is important to you as a customer

that they be followed.

There will always be visitors that arrive not knowing the importance of biosecurity. Take the time to explain why biosecurity is important to your farm and what protocols you expect them to follow when visiting. If they are required to enter your barn, and they do not have biosecurity supplies, you should provide biosecurity clothing and footwear for them.

The industry has completed a study on the biosecurity supplies and equipment required during a foreign animal disease outbreak to help contain the disease. The industry has been working with the Canadian Food Inspection Agency, industry personnel and biosecurity experts to determine the most appropriate supplies and equipment required for the tasks on farm. Below is a list of biosecurity

supplies and equipment you may want to have available on your farm for visitors:

- Disposable hooded impervious coveralls or washable coveralls
- Disposable boot covers or barn boots in various sizes
- Disposable nitrile gloves
- Alcohol based hand sanitizer
- Hand soap and water
- Boot cleaning station with fresh disinfectant
- Disinfectant spray
- Garbage container with a lid to discard used biosecurity gear
- Log book for visitors to sign.

How do you keep other people's poop out of your barn? Tell people why biosecurity is important to your farm. Tell them what you are doing about it. And make sure you have the required supplies for visitors to have clean hands and clean feet. ■



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Guidelines and Procedures

Biosecurity guidelines and procedures for farm service operators are available in a pdf format at www.agbiosecurity.ca (On the left-hand side of the homepage under “Recent News and Events”, they can be found by clicking on the link for “New and updated biosecurity standard operating protocols for farm service operators who visit poultry farms are available”).

If you regularly visit farms or have farm service operators visit your farm, it’s a good idea to have these resources on hand to reduce the risk of spreading infectious disease.

Also available is a recommended disinfectant list and the complete biosecurity handbook which includes the standard operating protocols for the 23 service sectors.

The following standard operating protocols and biosecurity checklists are available on www.agbiosecurity.ca:

- Barn Cleaners
- Barn Washers
- Board Representatives
- Broiler Catchers
- Broiler Processors
- Broiler Truckers
- Chick and Poults Delivery
- Deadstock Collectors and Renderers
- Equipment Sales and Service Representatives
- Feed Suppliers
- Fuel Haulers
- Government Representatives
- Hatching Egg Pick-up
- Layer Catchers
- Layer Truckers
- Manure Managers
- Poultry Veterinarians
- Pullet Catchers
- Pullet Truckers
- Straw Bedding Suppliers
- Turkey Catchers
- Turkey Processors
- Turkey Truckers
- Vaccinating and Trimming Crews
- Wood Shaving Bedding Suppliers



Check out the **BUYERS' GUIDE** on the web

To find a comprehensive list of companies, suppliers and manufacturers of biosecurity products and services please see Canadian Poultry Magazine's Buyers' Guide.

View our digital Buyers' Guide issue by clicking on Buyers Guide under Resources on the home page.

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August 7, 2009 - The Value Chain Management Centre, part of the George Morris Centre, has released a think piece on the ideal model of value chain management. The report states that competitiveness is an output of the systems in which businesses operate. It also describes current innovations on typical agri-food systems, and identifies a specific situation where current regulations make a Canadian industry 6 times less innovative than other jurisdictions. | [READ MORE](#)

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August 4, 2009 - The U.S. House of Representatives passed a food safety bill that promises far-reaching reform of how food is processed and grown. | [READ MORE](#)

Bioreactor Technology Powers Poultry Farms
August 4, 2009 - A new development in aerobic bioreactor technology is set to power Georgia's poultry farms. | [READ MORE](#)

Sanoofi-aventis to Acquire Merck's Interest in Meril
July 31, 2009 - French pharmaceutical company Sanoofi-Aventis will acquire Merck's health company Meril, the company announced on Thursday, July 30.

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Glossary of Terms



Anteroom – an area or room that immediately precedes the Restricted Access Zone and provides a transition to the Controlled Access Zone and provides the opportunity to clean and/or change clothing and equipment, and to wash and/or disinfect hands and other exposed skin areas*.

Best practice – practices which will further reduce the risk of disease transmission, and which can be put in place with some change to procedures, added investment, or cost.

Biosecurity – the term used to describe the measures needed to protect against the introduction and spread of disease*.

Checklist – a short-form version of a biosecurity protocol provided for convenience and use on the job.

Disinfection – The application of a disinfectant to a surface for the purpose of destroying or inhibiting the activity of disease-causing micro-organisms*.

Enhanced (bio)security – at times when a disease outbreak is suspected on the premise or has

been identified in the vicinity, extra biosecurity measures may be required and increased emphasis placed on existing biosecurity procedures*.

Minimum standard – practices which all of the farm service operators can put in place today, and which will reduce the risk of disease transmission.

Protocol – effectively a code of conduct; a defined procedure to be followed*.

Standard Operating Procedure (SOP) – a documented procedure based on generally-accepted good practices that describe in detail the steps followed to meet an objective*.

Target outcome – the goal that all keepers of poultry, regardless of the size of their flock, should aim for if they are to protect their flocks from the introduction and spread of avian diseases*.

Traceability – the ability to locate an animal, commodity, food product or ingredient and follow its history in the supply chain forward (from source to consumer) or backward (from consumer to source). Traceability relies on three key pillars of information in order to be effective: identification of animals or products, identification of premises, and movement tracking.

(*Entries followed by an asterisk are taken from the [Draft National Avian On-Farm Biosecurity Standard](#) prepared by CFIA and were adapted for use in this format)



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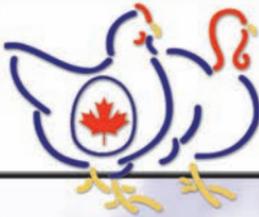


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