

## Biosecurity Risk Assessment

The control and elimination of disease organisms is critical to the ongoing success of a turkey operation. A weakness in the biosecurity program that allows disease into the flock can result in poor performance and in the worst case a complete loss of the flock. A strong biosecurity program that reduces the risk of a disease entering the farm as well as the spread of disease on the farm is required for a good poultry operation.

### Three levels of Biosecurity

There are three levels of biosecurity that need to be addressed:

**Conceptual Biosecurity** - location and distance of poultry facilities from potential dangers.

**Structural Biosecurity** – structures in place that control the introduction and spread of disease and potential vectors such as pests and fomites. For example: fences, screened houses, boot change or disinfection stations, water sanitation, dead bird disposal, showers, feed storage, bait stations & disinfection equipment.

**Operational Biosecurity** - defined procedures for traffic flow, clean-up, disinfection, storage of feed and medication, vaccination and movement of birds. Operational biosecurity is most important on a day to day basis:

- What are we doing and how are we doing it?
- What do we have contact with outside of the farm?
- What do we do to limit the risk if we come across an issue?

A good biosecurity program addresses and controls all three levels.

Better biosecurity results in:

- Less disease
- Improved performance – livability, reproduction, growth, feed conversion, uniformity
- Reduced use of medications and antibiotics
- Better public opinion toward animal production and welfare

Biosecurity is a dynamic process that changes with each flock, farm, bird age and public or governmental evaluation. To stay effective the biosecurity program must be reviewed and risks assessed on a regular basis. This Biosecurity Risk Assessment is for just that purpose.

### Using the Biosecurity Risk Assessment

The risk assessment has 6 sections. Only complete the sections that are applicable to your operation.

Each item can be answered as a True or False statement. If the statement is True for the facility under evaluation enter a “1” in the right most column. If the statement is false enter a “0”. A “0” in the right column indicates an area where the biosecurity program needs reinforcement. If the item is not applicable to your operation enter “NA”.

At the end of each section, enter the total number of points, then the total that were “NA”. Subtract the “NA” from the total number of items to see the total potential point. Divide the total by potential points to see the score for that section.

At the end of the assessment transfer each section total to the summary page to see the final score. The summary page will highlight which areas of the operation need the most attention.

Remember your biosecurity defense system is only as strong as the weakest area. The purpose of this assessment is to make the program stronger and reduce the risk and costs of disease.

Visit the Health section of the Resource Center at [www.aviagenturkeys.com](http://www.aviagenturkeys.com) for an Excel version of this assessment tool, or send an email to [turkeysinc@aviagen.com](mailto:turkeysinc@aviagen.com)



# Biosecurity Risk Assessment

Company: \_\_\_\_\_

Farm: \_\_\_\_\_

Date \_\_\_\_\_

Auditor(s): \_\_\_\_\_

\_\_\_\_\_

	Total Points Available	Points Not Applicable (NA)	Applicable Points (Without NA)	Points Scored	Score
1. Brooding	24				
2. Growing	20				
3. Flock Service	8				
4. Feed Delivery	3				
5. Live Load Out	20				
6. General	24				
	<b>99</b>				

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

This tool is designed to help assess the risk of exposing your flock to infectious diseases. There are numerous ways to introduce disease organisms into a flock as well as many diseases which affect turkeys. It is important to follow a strict set of rules to prevent exposure. An effective biosecurity program requires identifying the most likely sources of disease and establishing practices designed to suppress the introduction and spread of these pathogens into flocks.



# Biosecurity Risk Assessment

1=Yes

0= No

NA=Not Applicable

## 1. Brooding

This section is part of this audit:

Score

1.01	Barn Preparation	Farm is depopulated of all poultry prior to cleanout.	
1.02	Barn Preparation	When preparing the barn for a new flock, the ceilings, walls, curtains, ledges, tops of feed/waterlines, fans, and entry room are washed down with a high pressure washer and detergent.	
1.03	Barn Preparation	When preparing the barn for new poults, the litter is removed from the floor and swept. The ceilings, walls, curtains, ledges, tops of feed/waterlines, fans, floor and entry of the room are disinfected.	
1.04	Barn Preparation	When preparing the barn for new poults, the waterlines and drinkers are cleaned and sanitized.	
1.05	Litter	There is a system in place to prevent contamination of new litter prior to entering clean barn.	
1.06	Litter	The tires and wheel wells of the litter truck is sprayed with a disinfectant before entering the farm.	
1.07	Litter	If a litter truck driver gets out of the truck, he or she puts on disposable boots.	
1.08	Mortality Disposal	All mortality is in its intended disposal site within 24 hours.	
1.09	Mortality Disposal	If using incineration, carcasses are thoroughly and completely incinerated. If composting, birds are completely covered with manure or litter and compost locations are a minimum of 300 feet away from production sites. (Can be NA)	
1.10	Bird Transfer	Prior to arriving at the farm the bird transfer equipment is cleaned and sanitized.	
1.11	Bird Transfer	Before entering farm or barn, tires are disinfected with a high volume of disinfectant water.	
1.12	Bird Transfer	Bird transfer crew members follow Brooder Farm biosecurity protocol.	
1.13	Used Litter Disposal	Prior to arriving at the farm, trucks and equipment are cleaned and sanitized. Trucks are tarped when leaving farm and all spills are cleaned up around pads and in roadways.	
1.14	Barn Sanitation	Entry room is clean. Barn entry biosecurity plan is being followed.	
1.15	Shower facility	Farm is a shower in/out facility	
1.16	Dedicated clothing/footwear	Dedicated or single use clothing and footwear is being utilized by everyone entering barn.	
1.17	On farm visitors not entering barns	Dedicated or single use footwear is being utilized by everyone entering farm.	
1.18	Barn entry procedures	Biosecurity procedures are in place prior to entering barn.	
1.19	Water Sanitation	Water sanitation program is in place, monitored and documented.	
1.20	Sign in log	A log is kept of all non farm personnel entering farm.	
1.21	Poult Delivery	Upon exiting the truck, the driver puts on disposable boots, coveralls, and hairnet then disinfects truck interior (seats, floor boards, dash, etc) using a spray disinfectant.	
1.22	Poult Delivery	The tires and wheel wells of the poult trucks are sprayed with a properly mixed disinfectant before entering the farm	
1.23	Poult Delivery	Drivers do not enter the barn	
1.24	Poult Delivery	After placing poults, the drivers leave the disposable boots, coveralls and hairnets at the farm.	

24 Total Items

**Add up the number of points**

**Total**

**Add up the number of NA**

**NA**

**Subtract the NA from the total items**

**Potential Points without NA**

**Divide the points by the Potential**

**Score**




# Biosecurity Risk Assessment

1=Yes

0= No

NA=Not Applicable

## 2. Growing

This section is part of this audit:

Score

2.01	Barn Preparation	Prior to cleanout farm is depopulated of all poultry.	
2.02	Barn Preparation	When preparing the barn for a new flock, the ceilings, walls, curtains, ledges, tops of feed/waterlines, fans and entry room are washed down with a high pressure washer and detergent.	
2.03	Barn Preparation	When preparing the barn for new birds, the litter is removed from the floor and swept. The ceilings, walls, curtains, ledges, tops of feed/waterlines, fans, floor and entry of the room is disinfected.	
2.04	Barn Preparation	Barns are totally cleaned out every flock (Can be rated as NA)	
2.05	Barn Preparation	Litter is composted (windrowed) between every non-total cleanout flock. (Can be rated as NA)	
2.06	Barn Preparation	Top dressed litter is either new or brooder litter from the same flock. (Can be rated as NA)	
2.07	Barn Preparation	Waterlines and drinkers are cleaned and sanitized prior to arrival of a new flock.	
2.08	Litter	There is a system in place to prevent contamination of new litter prior to entering clean barn.	
2.09	Litter	The tires and wheel wells of the litter truck are sprayed with a disinfectant before entering the farm.	
2.10	Litter	If a litter truck driver gets out of the truck, he or she puts on disposable boots.	
2.11	Mortality Disposal	All mortality is in it's intended disposal site within 24 hours.	
2.12	Mortality Disposal	If using incineration, carcasses are thoroughly and completely incinerated. If composting, birds are completely covered with manure or litter and compost locations are a minimum of 300 feet away from production sites. (Can be NA)	
2.13	Bird Transfer	When moving birds, the transfer equipment and tires are cleaned and sanitized before entering the premise and barn.	
2.14	Bird Transfer	Birds are moved via transfer equipment or enclosed walkway. Walkways are cleaned, sanitized and free of wild birds and rodents prior to transfer.	
2.15	Used Litter Disposal	Prior to arriving at the farm trucks and equipment are cleaned and sanitized. Trucks are tarped when leaving farm and all spills are cleaned up around pads and in roadways.	
2.16	Sanitation	Entry room is clean. Barn entry biosecurity plan is being followed.	
2.17	On farm visitors not entering barns	Dedicated or single use footwear is being utilized by everyone entering farm.	
2.18	Barn entry procedures	Biosecurity procedures are in place prior to entering barn.	
2.19	Water Sanitation	Water sanitation program is in place, monitored and documented.	
2.20	Sign in log	A log is kept of all non farm personnel entering farm.	

20 Total Items

**Add up the number of points**

**Add up the number of NA**

**Subtract the NA from the total items**

**Divide the points by the Potential**

**Potential Points without NA**

**Total**

**NA**

**Score**




# Biosecurity Risk Assessment

1=Yes

0= No

NA=Not Applicable

## 3. Flock Service

This section is part of this audit:

Score

3.01	Farm visit log	A daily travel log is kept that includes farms visited and barns entered.	
3.02	Vehicle Sanitation	Trucks are cleaned and disinfected daily.	
3.03	Setback for vehicles	Vehicle is parked a minimum of 50 feet from first barn.	
3.04	Vehicle Windows and Doors	Vehicle windows and doors are closed while on farms.	
3.05	Equipment	All equipment is cleaned and disinfected prior to entering barn and after exiting.	
3.06	Hand sanitizer	Hand sanitizer is used before entering and when exiting barns or gloves are worn.	
3.07	Dedicated clothing/footwear	Dedicated or single use clothing and footwear is being utilized.	
3.08	Transporting Specimens	A protocol is in place and followed for transporting birds and specimens to the lab.	
8 Total Items		<b>Add up the number of points</b>	<b>Total</b>
		<b>Add up the number of NA</b>	<b>NA</b>
		<b>Subtract the NA from the total items</b>	<b>Potential Points without NA</b>
		<b>Divide the points by the Potential</b>	<b>Score</b>

## 4. Feed Delivery

This section is part of this audit:

Score

5.01	Tractor / Trailer Sanitation	Trucks are kept free of mud/debris.	
5.02	Footwear Covering	All drivers wear disposable boots. The boots are put on in the cab before feet hit the ground. At the end of the delivery the driver removes the boots and places them in the trash.	
5.03	Truck Interior Sanitation	Drivers apply disinfectant to their shoes, floorboards and pedals after each delivered load.	
3 Total Items		<b>Add up the number of points</b>	<b>Total</b>
		<b>Add up the number of NA</b>	<b>NA</b>
		<b>Subtract the NA from the total items</b>	<b>Potential Points without NA</b>
		<b>Divide the points by the Potential</b>	<b>Score</b>



# Biosecurity Risk Assessment

1=Yes

0= No

NA=Not Applicable

## 5. Live Load Out

This section is part of this audit:

Score

4.01	Loader Sanitation	Loaders are cleaned and free of feathers and fecal between farms. Loading boards from loader are removed, cleaned and sanitized.	
4.02	Loader Truck Sanitation	The interior and exterior of the truck is clean and has been sanitized and free of feathers and fecal in between farms.	
4.03	Loader Truck & Loader Sanitation	The daily truck / loader wash report is filled out daily with name, date, trucks cleaned and loaders cleaned.	
4.04	Personnel Sanitation	Loadout personnel do not have other livestock and are aware that they must shower and wear clean clothing and footwear after exposure to other livestock before returning to work.	
4.05	Personnel Sanitation	Loadout personnel do not have other poultry or birds at residence and are aware that they must shower and wear clean clothing and footwear after exposure to other poultry or birds (hunting, zoos, fairs, neighbors and other commercial poultry) before returning to work.	
4.06	Personnel Sanitation	All on-farm clothing and footwear are cleaned daily.	
4.07	Loading at Multiple Farms	Footwear is cleaned and sanitized before going to second farm. (Can be rated as NA)	
4.08	Loading at Multiple Farms	If multiple farms are loaded by the same crew, loading crews use cleaned and sanitized loader on the second farm. (Can be rated as NA)	
4.09	Loading at Multiple Farms	If multiple farms are loaded, loading personnel change coveralls and any other outer wear (hairnets, gloves) before going to second farm. (Can be rated as NA)	
4.10	Loading at Multiple Farms	If multiple farms are loaded, loading personnel spray tires with approved sanitizing agent before entering second farm (Can be rated as NA)	
4.11	Loading at Multiple Farms	If multiple farms are loaded, interior of truck is sprayed with approved sanitizing agent before entering second farm (Can be rated as NA)	
4.12	Crew Facilities	Crew facilities are cleaned and sanitized daily. (Can be rated as NA)	
4.13	Wash Bay	Wash bays are cleaned and sanitized daily with approved sanitizer.	
4.14	Monitoring	A daily log is kept documenting which farms were visited, what barns were entered and names of personnel present.	
4.15	Tractor Sanitation	Upon dropping off live bird trailer all tractors must be sanitized, every time no exceptions, before hooking up to an empty trailer.	
4.16	Documentation and Sign-Off	Upon Sanitation Completion, drivers complete a log sheet including the date, tractor number and the driver's signature.	
4.17	Plant Trailer and Cage Disinfecting	Empty turkey hauling trailers are cleaned and sanitized using high pressure water.	
4.18	Plant Trailer and Cage Disinfecting	Each trailer is inspected for cleanliness. All fecal matter and feathers have been removed. If fecal matter or feathers exist, trailer is re-cleaned and sanitized.	
4.19	Stunning System Cage Wash	When cages are unloaded, the trailer deck, trailer sides and wheels are cleaned and sanitized to remove any fecal matter or feathers. (Can be NA)	
4.20	Stunning System Cage Wash	All cages are cleaned and sanitized to remove any fecal or feathers. (Can be NA)	

20 Total Items

**Add up the number of points**

**Total**

**Add up the number of NA**

**NA**

**Subtract the NA from the total items**

**Potential Points without NA**

**Divide the points by the Potential**

**Score**




# Biosecurity Risk Assessment

1=Yes

0= No

NA=Not Applicable

## 6. General

This section is part of this audit:

Score

6.01	Contact with livestock, poultry or hunting	Persons entering farm have not been game bird hunting or in contact with other birds or livestock within the past 24 hours.	
6.02	Personal Vehicles	Personal vehicles are not allowed onto farms unless washed and sanitized.	
6.03	Clothing and Boots	Disposable coveralls, boots, hairnets and gloves are worn while in facilities unless farm clothing is provided	
6.04	Visitor Log	Visitor log is signed where available	
6.05	Biosecurity measures agreement	Biosecurity policy is reviewed and signed off by visitors.	
6.06	Rodents	Rodent control program is being followed as per company/farm BMP.	
6.07	Insects	Insect control program is being followed as per company/farm BMP. This includes but not limited to keeping feed spills cleaned up, managing manure moisture to limit habitat and using other available control methods.	
6.08	Wild Birds	Barns are free of wild birds.	
6.09	Signage	Signs are posted at farm entrance and individual barns that deter unwanted farm traffic and entrance onto premises.	
6.10	Gated	Gates are present and secure.	
6.11	Trash disposal	Dumpsters and/or trash receptacles are located outside perimeter buffer zone. (Can be NA)	
6.12	Locked Barns	Barns are locked.	
6.13	Equipment	All equipment is cleaned and disinfected prior to entering barn and after exiting.	
6.14	Bio-Security Documentation	Grower has a farm specific bio-security program and a perimeter buffer zone has been established. (documentation must be produced by the grower)	
6.15	Vendor/Visitor Guidelines	Vendors with an essential need to enter the perimeter buffer area and/or poultry barns follow all applicable biosecurity requirements.	
6.16	Disease Surveillance	Parameters to define elevated mortality and a reporting system is in place.	
6.17	Disease Response Plan	Quarantine procedures for suspect or positive disease farms are in place.	
6.18	Neighboring Backyard flocks	No neighboring backyard flocks are present within 500 yards of poultry barns.	
6.19	Surface Water	No permanent standing water (pond, lake, etc.) is within 500 yards of poultry barns.	
6.20	Multi-age	Farm is single age.	
6.21	Drinking water source	No surface water used as primary drinking water source.	
6.22	Outdoor access	Flocks have no access to outdoors	
6.23	Premise	Grass is kept neat and tidy to avoid harboring rodents. No vegetation within 24 inches of perimeter of barn.	
6.24	Training with sign-off	Growers and employee have been trained and training is documented.	

24 Total Items

**Add up the number of points**

**Add up the number of NA**

**Subtract the NA from the total items**

**Divide the points by the Potential**

**Total**

**NA**

**Potential Points without NA**

**Score**


---

*The contents of this Technical Bulletin are © Aviagen Turkeys, Inc and the advice contained herein is given as a guide and may need to be varied to meet a specific customer operation; in any event this advice should not be regarded as a form of guarantee.*

---

**Aviagen Turkeys, Inc.**

31186 Midland Trail, East • Lewisburg, West Virginia 24901 • USA

Tel: +1 304 793 2680 • Fax: +1 304 793 2684

turkeysinc@aviagen.com

**Aviagen Turkeys Ltd**

Chowley Five, Chowley Oak Business Park • Tattenhall, Cheshire CH3 9GA • UK

Tel: +44 (0) 1829 772020 • Fax: +44 (0) 1829 772059

turkeysLtd@aviagen.com

**Web:** [www.AviagenTurkeys.com](http://www.AviagenTurkeys.com)

---

Visit [www.AviagenTurkeys.com](http://www.AviagenTurkeys.com) for a complete library of technical publications.



*Nicholas*

B.U.T.