

Making Biosecurity Work on Your Farm

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Introduction

There have been dozens of biosecurity talks endured over the past year or so, almost to the point that our attention span grows very short when the topic comes up. This presentation will attempt to forego repeating too many of the basic concepts of biosecurity (we already know them) but will instead focus on what we have learned from the recent past and how implement a biosecurity program unique to your farm. The primary take-home message from this presentation is the fact that biosecurity is about;

WHAT HAPPENS WHEN NOBODY IS WATCHING.

Elements of a practical biosecurity program

There are a few key elements that have to be incorporated into any effective biosecurity program.

They are;

1. It has to make sense
2. It has to be workable for all parties involved
3. It has to deal with all circumstances
4. Everybody understands their role and the importance of the program
5. Good records are important in dealing with an outbreak

It has to make sense

If elements of the program place unrealistic expectations on personnel or create undue logistical obstacles to day to day operations then it won't be long before the program begins to break down. For example, site design factors, work flow and placement of cleaning and disinfecting stations must be individually tailored to each farm. If there are monitoring steps involved, there needs to be provision in terms of time and materials to accomplish the monitoring. The same is true with any cleaning and disinfecting steps. Many elements of a biosecurity program take time to accomplish and we need to allocate this time into the daily work flow. Hurrying through a procedure because we are behind or we lack motivation to truly implement the steps necessary will compromise the program in short order.

It has to be workable for all parties involved

Biosecurity programs are best created by a team of individuals that represent a cross-section of all parties on the farm. You cannot set in an office and draw up a plan that will work. Communication and frequent reviews and discussion of problems and breaks in the program are necessary. All parties need to have an equal voice in the process. Those charged with health responsibilities will have an important perspective but those that work daily on the farm also have a very valuable perspective that must be included for the program to be implemented and work on a sustained basis. Everyone must feel some ownership of the program.

It has to deal with all circumstances

It seems logical to assume that a biosecurity program would be fairly easy to manage on a warm sunny day but a practical program has to deal with all weather scenarios. Extreme cold may reduce the likelihood of a disease agent surviving on incoming traffic but the level of risk needs to be assessed and workable solutions need to be implemented. Another area often overlooked is the need for third party service providers (propane, electricity, etc.) to be on site. Again, when everything is operating normally this can be fairly simple but what kind of emphasis will be placed on biosecurity when the power is out in the midst of a storm?

Everybody understands their role and the importance of the program

In addition to including a cross-section of all personnel in the development, implementation and modification of the plan, it is imperative that every person understand how their actions impact the biosecurity of the farm. Enforcement by fear of termination will not provide for a culture of compliance. Every person should be held accountable and breeches (regardless of position within the firm) need to be acknowledged and addressed. Biosecurity discussions should be a part of ongoing communications. Production meetings or other times when personnel are gathered to receive information is an opportunity to discuss (not preach) biosecurity. Listen to all input, ask questions, propose solutions and keep the program fresh and viable. Maintaining open communication and addressing concerns and questions will help assure that the program is operating appropriately even when nobody is watching.

Good records are important in dealing with an outbreak

One element of a biosecurity program that will almost certainly slip into neglect over time is collection of records. This is primarily keeping track of human and equipment traffic but also includes monitoring records for pest control and other environmental sampling. With regards to keeping track of human and equipment traffic log books have been the mainstay for a long time. Generally they become dirty, wet and faded over time and thus are not of much value in the face of an outbreak. Knowing who and what has been where and when are critical

components of a disease response program. There might be other surveillance technology that could record this information more easily and sustainably keep this information readily available if needed.

Recent Experiences

There is some good information that has come from the case studies and other analyses of recent outbreaks. There were some factors that contributed to the spread of disease that are problematic to quickly remedy (wind for instance). However, there is overwhelming evidence that humans are implicated in a lot of cases. This should be a wakeup call for all of us. Letting our guard down even briefly can have devastating consequences. Review the information provided from these efforts and utilize this knowledge as you design and implement a program for your farm.

Addressing Biosecurity Threats

Much of this presentation has centered around the behavior of people due to the lessons learned in the recent past. There are a multitude of potential threats that a biosecurity program must address. All threats need to be addressed in a program and the main five points apply to non-human as well as human threats. Some areas may require long-term modifications or adaptations to traffic patterns or barriers to movement. Others require knowledge of pest control and maintenance of farm grounds and structures. The key elements outlined above must be incorporated into all aspects of the biosecurity program. Major components and elements may be similar across farms but the details are farm specific. Take any one of several model programs and use it as a starting point for your program.

Every Day Counts

Once again, Biosecurity is about WHAT HAPPENS WHEN NOBODY IS WATCHING. Your biosecurity program has to make sense. It has to be workable for all parties involved. It has to deal with all circumstances. Everybody must understand their role and the importance of the program. And we cannot neglect the fact that good records are important in dealing with an outbreak .