



## PADRAP Training Manual – Appendix A

### Canadian National Biosecurity Standards (NBS)

#### Canadian NBS accessibility

- ✿ **“Primary VeterinarianCA”** = AASV Veterinarians that have completed the training AND have a Canadian address OR have been assigned by PADRAP Administrators as a Canadian user
  - Access to PADRAP online and Canadian additions via username and password
  - May set up Canadian and non-Canadian *production systems, sites, surveys and users*
  - May take surveys and view benchmarking and NBS reports
  - Ability to create Canadian and non-Canadian users
  
- ✿ Who can complete Canadian surveys and who has access to the NBS reporting capabilities?
  - A veterinarian assigned the role of *Primary VeterinarianCA* by administrators when he/she is registered in PADRAP (any veterinarian with a Canada address will be designated as *Primary VeterinarianCA* by PADRAP administrators)
  - OR**
  - If the veterinarian is assigned as a *Primary VeterinarianCA* for at least one Canadian production system (this could be a veterinarian with a non-Canadian address that is manually assigned a *Primary VeterinarianCA* role by PADRAP administrators or another person that is a *Primary VeterinarianCA* for a production system in Canada)
  
- ✿ Where are the additional NBS questions located in the PADRAP survey?
  - The first 24 questions in the Demographics section of the Breeding Herd survey are the original questions present for all PADRAP users. When a Canadian survey is created, questions 25 through 36 will appear in the Demographics section under an NBS sub-section. These are the additional questions pertaining to the NBS categories.



Original PADRAP  
Demographic  
questions

**22. Number of Clinical PRRSv episodes between 3 and 5 years ago**

A "clinical PRRSv episode" in the breeding herd is defined by

1. A change in one or more reproduction performance measures where the change exceeds that which would be expected with "normal" variation.  
Consider changes for the following reproductive performance measures:

- increase in 45 to 112 day abortions
- increase in born dead (mummies or stillborns) per litter farrowed
- increase in prewean mortality
- increase in sow deaths

2. Diagnostic confirmation of PRRSv involvement

**23. Number of Clinical PRRSv episodes within last 3 years**

A "clinical PRRSv episode" in the breeding herd is defined by

1. A change in one or more reproduction performance measures where the change exceeds that which would be expected with "normal" variation.  
Consider changes for the following reproductive performance measures:

- increase in 45 to 112 day abortions
- increase in born dead (mummies or stillborns) per litter farrowed
- increase in prewean mortality
- increase in sow deaths
- Diagnostic confirmation of PRRSv involvement

**24. Number of months since most recent clinical PRRSv episode**

If the site has never had a clinical PRRSv episode, enter "N/A".

NBS

0.0%

**25. Procedures are in place to meet legal requirements for importation of foreign live pigs, semen or embryos.**

- No live pigs, semen or embryos and imported from a foreign country
- Yes, proper procedures are in place and reviewed by a veterinarian
- No, proper procedures are not in place

**26. Entry of pork meat products by employees, visitors, service and delivery personnel**

- No restrictions on entry of pork meat products
- Not allowed to enter uncooked fresh pork products, but can enter cooked fresh or processed pork
- Not allowed to enter uncooked or cooked fresh pork products, but can enter processed pork
- No pork meat products allowed

**27. Presence of domestic animals (pets) inside buildings**

- Often present inside buildings
- Occasionally present inside buildings
- Barriers are sufficient to restrict entry of pets into buildings

**28. Presence of feral pigs near this site**

- Frequently (at least once per month) observed near the site
- Occasionally (every 1 to 6 months) observed
- Rarely (less than once every 6 months to a year)
- There are no feral pigs near this site

**29. Chlorination of water**

- Not done
- Done in response to problems only
- Done on a regular basis
- Done continuously

**30. Acidification of water**

- Not done
- Done in response to problems only
- Done on a regular basis
- Done continuously

**31. Water source**

- Surface water
- Shallow well
- Deep well
- Rural/Municipal water

**32. Waste (other than manure) disposed of on-site?**

- Yes
- No

**33. Location of pick up site for waste (other than manure) disposed of off-site**

- At this site or less than one-half mile (0.8 km) away
- At a dedicated site between one-half mile (0.8 km) and a mile (1.6 km) from this site
- At a dedicated site more than one mile (1.6 km) from this site
- Not applicable (select if waste is disposed of on-site)

**34. Frequency with which waste (other than manure) is picked up for off-site disposal**

- Daily
- Pickup every 2-6 days
- Pickup every 7-13 days
- Pickup every 14-20 days
- Less frequently than every 20 days
- Not applicable (select if waste is disposed of on-site and never stored prior to disposal)

**35. Type of storage for waste (other than manure) awaiting pickup or disposal**

- Open container
- Covered container or shed
- Covered container or shed with perimeter fence
- Not applicable (select if waste is disposed of on-site and never stored prior to disposal)

**36. Management of trucks that pick up waste (other than manure) for off-site disposal**

- Truck managed by third party
- Truck managed by production system
- Not applicable (select if waste is disposed of on-site)

Additional NBS  
questions are 25  
through 36



- ✦ When will the additional NBS questions be visible?
  - In a survey created for a site that belongs to a production system with a Canadian address
  - Conversely, if a survey has been created for a site that belongs to a production system outside Canada, the additional NBS questions will not be visible (even if the user has the role of *Primary VeterinarianCA*)
  - If the production system/site is in Canada but you do NOT want the additional NBS questions to appear in the survey and do NOT want to run NBS reports **please call/email PADRAP administrators** so the settings can be adjusted
  
- ✦ When will the NBS Report Card for a site be available?
  - When a survey is 100% complete for a site that belongs to a production system with a Canadian address
  - On the contrary, even if the user has been designated as a *Primary VeterinarianCA* when he/she registered or for another production system, and the NBS Report Card link is visible on the left menu, if a survey was completed for a site with an address outside Canada it will not show up in the drop down list used to run NBS reports

	Canadian Production system	Non-Canadian Production system
Primary VeterinarianCA	<ul style="list-style-type: none"> <li>•NBS questions show up</li> <li>•User sees NBS Report Card link in left menu</li> <li>•Surveys 100% complete are visible for NBS Report Card reports</li> </ul>	<ul style="list-style-type: none"> <li>•NBS questions do not show up</li> <li>•User sees NBS Report Card link in left menu</li> <li>•Completed surveys are not visible for NBS Report Card reports</li> </ul>
Primary Veterinarian .....	<ul style="list-style-type: none"> <li>•NBS questions show up</li> <li>•User sees NBS Report Card link in left menu</li> <li>•Surveys 100% complete are visible for NBS Report Card reports</li> </ul>	<ul style="list-style-type: none"> <li>•No access to NBS questions and reports</li> <li>•User may see NBS Report Card link in left menu if he/she is a <i>Primary VeterinarianCA</i> for a different production system with a Canadian address</li> </ul>



## Completing surveys with NBS questions for Canadian sites

- Production Systems, Sites, and Surveys should be set up following the steps in the PADRAP Training Manual
- Questions 25 through 36 in the Demographics section are specific to Canada and will appear for any survey for a site in Canada

## Accessing The NBS Report Card

1. Click on “NBS Report Card” on the left menu
2. From the drop down menus, select the Production System, Site, and Survey to analyze

**PADRAP**  
Production Animal Disease Risk Assessment Program

**Navigation Menu**

- [PADRAP Login](#)
- [Overview](#)
- [Request. Prod. System](#)
- [Prod. System/Site Admin](#)
- [Change My Password](#)
- [List Surveys](#)
  - [New Survey](#)
  - [View/Change Surveys](#)
  - [Copy Survey](#)
- [Benchmark Reports](#)
  - [PADRAP Benchmark](#)
  - [NBS Report Card](#)
  - [Raw Data](#)
- [Home](#)

**Benchmark Reports > NBS Report Card**

### NBS Report Card

Production System : Bacon Makers CANADA  
Site Name : - Select -  
Select Survey : - Select -  
Survey Title : - Select -

**Farm Details** | User NBS Report Card | Simulation, Results, Recommendations

Please select a Production System from the list above.

**Click on “NBS Report Card”**

**Select Production System first, then Site, then Survey Type, then finally Survey Title**



### 3. There are 3 tabs – Farm Details, User NBS Report Card, and Simulation, Results, Recommendations

- a. **Farm Details** – shows general information for the site such as address and GPS coordinates, site location on Google maps, a Risk Quadrant report and Risk Profile summary.

#### NBS Report Card

Production System : Bacon Makers CANADA  
 Site Name : Bacon Makers CA Sow 1  
 Select Survey : PRRS Breeding Herd 2.3  
 Survey Title : Bacon Makers CA ST (2011-Nov-15)

**Farm Details tab**

#### Risk Profile Summary

Category/Question	Score	Rank
<b>Overall</b>	<b>27.42</b>	<b>83.23%</b>
<b>Internal Risks</b>	<b>21.68</b>	<b>71.56%</b>
<b>Circulation Risks</b>	<b>25.21</b>	<b>74.89%</b>
<b>Herd and Site Characteristics</b>	<b>33.1</b>	<b>79.89%</b>
Characteristics of the herd	43.13	85.23%
Characteristics of the site	13.05	39.99%
<b>PRRSV Status</b>	<b>23.67</b>	<b>82.38%</b>
Current and historical PRRSV status of the site	23.67	82.38%
<b>Management</b>	<b>10</b>	<b>13.44%</b>
Management practices	10	13.44%
<b>Immune Management</b>	<b>14.22</b>	<b>67.83%</b>
Managed Exposure	14.22	67.83%
Natural exposure by contact or feedback of breeding females and replacement animals	4.6	0.18%
Controlled exposure by blood or serum injection of breeding females and replacement animals	5.6	80.59%
Modified live PRRSV vaccine use at this site	46.4	100.00%
<b>External Risks</b>	<b>28.87</b>	<b>84.18%</b>
<b>Pig Related</b>	<b>43.35</b>	<b>93.26%</b>
Live Animals	35.59	68.24%
Entry of breeding female and boar replacements into the breeding herd	35.59	68.24%
Animal Components	49.55	98.54%
Entry of semen into the breeding herd	49.55	98.54%
<b>Non pig Related</b>	<b>21.92</b>	<b>69.74%</b>
Operations	21.79	80.10%
Transportation of live animals	24.96	82.77%
A. Vehicles used to transport animals to market or collection points	18.19	58.46%
B. Vehicles used to transport non-genetic animals to and from other sites within the production system	28.03	91.31%
C. Vehicles used to transport genetic animals	31.26	88.30%
Transportation of feed	10	25.54%
Employee and service vehicles	28.2	98.97%
Disposal of dead animals	18.21	71.86%
Employees and visitors	19.27	81.88%
Entry of supplies	10	31.82%
Facilities	18.63	98.38%
Biovectors	2.2	0.31%
Location / Proximity	22.25	27.83%
Density of pig farms in the area	4.8	15.71%
Neighboring pig farms	26.82	37.71%
Distance to pork industry infrastructure	14.45	46.77%
Topography and forestation of surrounding area	46.4	100.00%



- b. **User NBS Report Card** – an overview of the site’s scores for each of the NBS categories and ranks each as either “ACCEPTABLE” or “OPPORTUNITY TO IMPROVE”
  - i. categories and subcategories can be expanded and collapsed by clicking on the + or – respectively

**User NBS Report Card tab**

**Click + or – to expand or collapse a category or subcategory**

Please click on the red header if you don't see the report

NBS Category/Question	Median	Score	
[-] Direct Routes of Contamination	22.8	43.4	Opportunity to Improve
[+] Domestic Live Animals	28.7	35.6	Opportunity to Improve
[+] Domestic Semen and Embryos	19	49.6	Opportunity to Improve
[-] Foreign live pigs, semen or embryos			Opportunity to Improve
[-] Procedures are in place to meet legal requirements for importation of foreign live pigs, semen or embryos.			Opportunity to Improve
[-] Indirect Routes of Contamination	20.4	22.2	Opportunity to Improve
[+] Incoming animal transport	15.3	29.7	Opportunity to Improve
[+] Outgoing animal transport	17.2	18.2	Opportunity to Improve
[+] Dead stock	15.1	18.2	Opportunity to Improve
[+] People	10.4	25.1	Opportunity to Improve
[+] Aerosols	26.5	22.2	Acceptable
[+] Pests, birds, and insects	46.4	2.2	Acceptable
[+] Fomites	10	10	Acceptable
[+] Feed and bedding	10	10	Acceptable
[+] Pharmaceuticals	28.2	10	Acceptable
[-] Meat Products (for human consumption) from foreign countries			Opportunity to Improve
[-] Entry of pork meat products by employees, visitors, service and delivery personnel			Opportunity to Improve
[+] Domestic animals			Opportunity to Improve
[+] Wildlife			Opportunity to Improve
[+] Water			Opportunity to Improve
[+] Waster other than manure			Opportunity to Improve
[-] On farm health management	12.2	19.4	Opportunity to Improve
[+] Health status, disease management, and monitoring	9.3	23.7	Opportunity to Improve
[+] Swine immunization strategies	13.6	14.2	Opportunity to Improve



- c. **Simulation, Results, Recommendations tab** – gives veterinarian the chance to show client what would happen by improving score(s) in a category or categories and has a place for notes and recommendations
  - i. The NBS categories and subcategories are shown and can be expanded/collapsed by clicking +/-
  - ii. After expanding all the way down to a question, that question can be selected by clicking in the box, or an entire category and it's questions can be selected by clicking the category box
  - iii. Scroll to the bottom of the page and click "Proceed"

Farm Details   User NBS Report Card   **Simulation, Results, Recommendations**

Please click on the red header if you don't see the report

NBS Category/Question	Median	Score	
Direct Routes of Contamination	22.8	43.4	Opportunity to Improve
Domestic Live Animals	28.7	35.6	Opportunity to Improve
Domestic Semen and Embryos	19	49.6	Opportunity to Improve
Foreign live pigs, semen or embryos			Opportunity to Improve
Indirect Routes of Contamination	20.4	22.2	Opportunity to Improve
Aerosols	26.5	22.2	Acceptable
Dead stock	15.1	18.2	Opportunity to Improve
Dead animals are stored in enclosed box awaiting pickup or disposal	10	10	Acceptable
Dead animals are stored in refrigerated box awaiting pickup or disposal	21.5	21.5	Acceptable
<input checked="" type="checkbox"/> Dead animals disposed of on-site (e.g. buried, composted or incinerated)	1	46.4	Opportunity to Improve
Dead animals moved using equipment dedicated to this site to an off-site location for pick up	2.2	2.2	Acceptable
Location of pick up site for dead animals disposed of off-site	46.4	4.6	Acceptable
<input checked="" type="checkbox"/> Management of manure disposal	4.6	10	Opportunity to Improve
Management of trucks that pick up dead animals for off-site disposal	46.4	46.4	Acceptable
Washing of manure removal equipment	4.6	4.6	Acceptable
Domestic animals			Opportunity to Improve
Feed and bedding			
Fomites			
Incoming animal transport	15		
Meat Products (for human consumption) from foreign countries			
Outgoing animal transport	17		
<input checked="" type="checkbox"/> People	10		
<input checked="" type="checkbox"/> Average annual employee turnover			
<input checked="" type="checkbox"/> Design of entry to site			
<input checked="" type="checkbox"/> Employee restrictions on visits to other swine production facilities	2.2	46.4	Opportunity to Improve
<input checked="" type="checkbox"/> Flow of on-site employee vehicles	2.2	10	Opportunity to Improve
<input checked="" type="checkbox"/> Flow of service vehicles	4.6	46.4	Opportunity to Improve
<input checked="" type="checkbox"/> Sanitation procedure for employees and visitors entering site	2.2	21.5	Opportunity to Improve
<input checked="" type="checkbox"/> Written biosecurity protocols	4.6	21.5	Opportunity to Improve
Pests, birds, and insects	46.4	2.2	Acceptable
Pharmaceuticals	28.2	10	Acceptable
Waster other than manure			Opportunity to Improve
Water			Opportunity to Improve
Wildlife			
On farm health management			
Health status, disease management, and monitoring			
Swine immunization strategies			

**Proceed**

**Simulation, Results, Recommendations tab**

**Click box to select a single question, this allows you to change an answer and see the new score**

**Click box to select an entire category and its questions, this will allow you to change answers and see the new scores**



- iv. Next the selected question(s) will appear with the response(s) that was(were) given as well as the other possible responses. Click circle(s) below “Select new response” then click “Update” in lower left corner. You do not have to select a new response and can just skip over ones you don’t want to change.

Click in circle to select new answer(s)

Farm Details | User NBS Report Card | **Simulation, Results, Recommendations**

Category Type [v]

PADRAP Question	Response
<input type="checkbox"/> Flow of service vehicles	No restrictions, the same service vehicle may visit PRRSV positive and negative or naive sites
<b>Other possible responses</b> <span style="float: right;">Select new response</span>	
The same service vehicle can visit PRRSV positive and negative or naive sites but a minimum downtime is required before visits to negative or naive sites following last visit to positive site	<input type="radio"/>
The same service vehicle never visits PRRSV positive and negative or naive sites	<input type="radio"/>
<input type="checkbox"/> Flow of on-site employee vehicles	Allowed to visit other pig farm sites but must be washed and dried before return to this farm site
<b>Other possible responses</b> <span style="float: right;">Select new response</span>	
Allowed to visit other pig farm sites but must be washed before return to this farm site	<input type="radio"/>
Allowed to visit other pig farm sites but must be washed, dried and disinfected before return to this farm site	<input type="radio"/>
No restrictions	<input type="radio"/>
Not allowed to visit other pig farm sites	<input type="radio"/>
<input type="checkbox"/> Dead animals disposed of on-site (e.g. buried, composted or incinerated)	No
<b>Other possible responses</b> <span style="float: right;">Select new response</span>	
Yes	<input type="radio"/>
<input type="checkbox"/> Management of manure disposal	Outsourced to third party that provides service exclusively to production system
<b>Other possible responses</b> <span style="float: right;">Select new response</span>	
Managed by production system	<input type="radio"/>
Outsourced to third party that provides service non-exclusively to production system	<input type="radio"/>
<input type="checkbox"/> Sanitation procedure for employees and visitors entering site	Boot wash / disinfection prior to entry
<b>Other possible responses</b> <span style="float: right;">Select new response</span>	
Coverall and boot change, hands are washed prior to entry	<input type="radio"/>
Shower in and clothes changed prior to entry	<input type="radio"/>
Unrestricted entry	<input type="radio"/>
<input type="checkbox"/> Design of entry to site	Physical barriers separate the outside ("Dirty") and internal ("clean") areas"
<b>Other possible responses</b> <span style="float: right;">Select new response</span>	
Direct access, no defined "dirty" and "clean" areas"	<input type="radio"/>
<input type="checkbox"/> Employee restrictions on visits to other swine production facilities	No restrictions
<input type="checkbox"/> Written biosecurity protocols	Written protocols and communications to on-site employees are sometimes provided in all language(s) spoken as first language by employees
<b>Other possible responses</b> <span style="float: right;">Select new response</span>	
Not Applicable (Select if a single owner-operator that has no employees)	<input type="radio"/>
Written protocols and communications to on-site employees are always provided in all language(s) spoken as first language by employees	<input type="radio"/>
Written protocols and communications to on-site employees are never provided in all language(s) spoken as first language by employees	<input type="radio"/>

**Update** **Go Back**

Click “Update” after done selecting new answers







- v. Now you can see the question, old response, new response, old score, median, new score, old NBS category it fell in, new NBS category it falls in

Farm Details | User NBS Report Card | **Simulation, Results, Recommendations**

The downloads are saved in the Microsoft Excel 2007. If you have an older version of Excel you can still download and view the 2007 format if you use the Microsoft Compatibility Pack.  
[Click here to download the Microsoft Compatibility pack.](#)

**Export Results to**  

### Results and Recommendations

Indirect Routes of Contamination>People

Question	Old Response	New Response	Old Score	Median	New Score	Old NBS Status	New NBS Status
Flow of service vehicles	No restrictions, the same service vehicle may visit PRRSV positive and negative or naive sites	The same service vehicle never visits PRRSV positive and negative or naive sites	46.40	4.60	4.6	Opportunity to Improve	Acceptable
Flow of on-site employee vehicles	Allowed to visit other pig farm sites but must be washed and dried before return to this farm site	Not allowed to visit other pig farm sites	10.00	2.20	2.2	Opportunity to Improve	Acceptable
Sanitation procedure for employees and visitors entering site	Boot wash / disinfection prior to entry	Shower in and clothes changed prior to entry	21.50	2.20	2.2	Opportunity to Improve	Acceptable
Design of entry to site	Physical barriers separate the outside ("Dirty") and internal ("clean") areas"	Direct access, no defined "dirty" and "clean" areas"	4.60	4.60	46.4	Acceptable	Opportunity to Improve
Employee restrictions on visits to other swine production facilities	No restrictions	Visits to other swine farms are restricted	46.40	2.20	2.2	Opportunity to Improve	Acceptable
Written biosecurity protocols	Written protocols and communications to on-site employees are sometimes provided in all language (s) spoken as first language by employees	Written protocols and communications to on-site employees are always provided in all language(s) spoken as first language by employees	21.50	4.60	4.6	Opportunity to Improve	Acceptable

Indirect Routes of Contamination>Dead stock

Question	Old Response	New Response	Old Score	Median	New Score	Old NBS Status	New NBS Status
Dead animals disposed of on-site (e.g. buried, composted or incinerated)	No	Yes	46.40	1.00	1	Opportunity to Improve	Acceptable
Management of manure disposal	Outsourced to third party that provides service exclusively to production system	Outsourced to third party that provides service non-exclusively to production system	10.00	4.60	46.4	Opportunity to Improve	Opportunity to Improve

**Veterinarian's comments:**

The veterinarian can type in comments and recommendations here in this box.

This report can then be exported to .pdf or Excel so it can be printed and/or saved.

NBS reports may be exported to .pdf or Excel, then printed/saved

**Edit this Report** **New Report**

- vi. Veterinarian can type in comments or recommendations in the box
- vii. These reports are NOT currently auto-saved by PADRAP (like the regular PADRAP reports) but the NBS Reports can be exported to both Excel and to .pdf then printed and/or saved.
- viii. Click "New Report" to run reports for another site, "Edit this Report" to go back to the beginning of the Simulation, Results, Recommendations tab or "Logout" if your work is complete