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OMB Approved
0579-0315
EXP: 01/2023

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE
VETERINARY SERVICES
NATIONAL ANIMAL HEALTH MONITORING SYSTEM
2150 CENTRE AVE, BLDG B
FORT COLLINS, CO 80526

2021 NAHMS Swine Large Enterprise Survey

Project Code: ? NAHMS ?
QID: 121858 SMetaKey: ?

Multiple Site Identification

EPAID	Site Number	Line Number
0 0 0 0		0 0 0

Office Use Only

0001

BEGINNING TIME [MILITARY].....

0002 ____ : ____

INTRODUCTION

We would like to ask you some questions about the swine on the land you operate. USDA has collaborated with the National Pork Board, National Pork Producers Council and American Association of Swine Veterinarians to design this study to understand important issues in the hog industry. This questionnaire asks about the health status of the hogs on your land and also about productivity and management practices.

Under Title 7 of the U.S. Code and CIPSEA (Public Law 107-347), facts about your operation are kept **confidential** and used only for statistical purposes. Response is **voluntary**. However, your report is needed to make regional and national estimates as accurate as possible. You may find it easier to answer some of the questions if you have your records available.

NOTE: The questions in all sections pertain to what is done on THIS Site

SECTION 1 – SITE INVENTORY

1. Of the total swine on hand June 1, 2021 on this site , how many were: (Enter Zero if None)		Head
a. Sows, unmated replacement gilts and bred gilts in the breeding herd?.....		0100
b. Unmated replacement gilts for breeding <u>not yet in the breeding herd</u> , such as those in a Gilt Development Unit?.....	+	0101
c. Nursing pigs?.....	+	0102
d. Boars and young males for breeding, including teaser boars?.....	+	0103
e. Cull sows, gilts and boars?.....	+	0104
f. Weaned hogs under 60 pounds?.....	+	0105
g. Market hogs 60 pounds and over, excluding cull sows, gilts and boars ?.....	+	0106
h. Then the total number of swine on this site on June 1, 2021 is:.....	=	0107

2. Which of the following describes <u>your</u> day-to-day responsibilities on this pig site? (Enter Code from List 1 below).....	Code
	0108

LIST 1 – Primary Role	
1 - Contractor that owns the swine 2 - Contractee that raises or manages the swine 3 - Independent producer who markets on their own 4 - Independent producer who markets through a cooperative	5 - Farm manager/herdsman 6 - Company Veterinarian 7 - Private or Other Veterinarian 8 - Other-include combination of above responses if applicable (Specify: ⁰¹⁰⁸ oth _____)

SECTION 2 – BREEDING AND PREWEANING ANIMAL MANAGEMENT

1. Between December 1, 2020 and May 31, 2021 : (Check Yes or No for both)	
a. Did any sows or gilts farrow?.....	0200 <input type="checkbox"/> 1 YES <input type="checkbox"/> 3 NO
b. Were any sows or gilts bred?.....	0201 <input type="checkbox"/> 1 YES <input type="checkbox"/> 3 NO

[If Items 1a and 1b BOTH = NO, SKIP to Section 3]

NOTE: Items 2 through 6 ask about what is generally or currently done.

NOTE: For the purposes of this study, all-in/all-out management means that every single animal is removed from a room, building, or site, and the pig areas are then cleaned and disinfected before any new animals arrive. If a facility (room, building, or site) is never completely empty of swine, the management approach is referred to as continual flow.

2. How do most sows and gilts flow through the (column heading) phase? (Enter Code from List 2 below for each column).....	Gestation	Farrowing
	0202	0203

LIST 2 – Flow Management	
1 - Continual flow 2 - All swine removed, but swine areas not cleaned and disinfected	3 - All-in/all-out by room 4 - All-in/all-out by building 5 - All-in/all-out by site

SECTION 2 – BREEDING AND PREWEANING ANIMAL MANAGEMENT

3. Which type of facility is used for the most animals in the (column heading) phase? (Enter Code from List 3 below for each column).....	Gestation 0204	Farrowing 0205
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LIST 3 – Facility Type	
1 - Total confinement with mechanical ventilation 2 - Open building with no outside access 3 - Open building with outside access	4 - Other (Specify: Gestation ^{0204oth} _____) Farrowing ^{0205oth} _____)

NOTE: The next three items refer to the specific facilities reported in Item 3 for each applicable phase.

4. How was manure from most animals collected and handled in this (column heading) facility? (Enter Code from List 4 below for each column).....	Gestation 0206	Farrowing 0207
--	--------------------------	--------------------------

LIST 4 – Manure Collection and Handling	
1 - None 2 - Deep pit holding 3 - Shallow pit holding 4 - Mechanical scraper or tractor	5 - Hand-cleaned 6 - Flush-under slats 7 - Flush-open gutter 8 - Other (Specify: Gestation ^{0206oth} _____) Farrowing ^{0207oth} _____)

5. How was manure from most animals stored and treated in this (column heading) facility? (Enter Code from List 5 below for each column).....	Gestation 0208	Farrowing 0209
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LIST 5 – Manure Storage and Treatment	
1 - None 2 - Daily haul and spread 3 - Composting 4 - Earthen Manure storage pond 5 - Formed Liquid/Slurry Storage tank	6 - Earthen Treatment lagoon 7 - Solid storage 8 - Below Building in a Deep Pit 9 - Other (Specify: Gestation ^{0208oth} _____) Farrowing ^{0209oth} _____)

6. Which type of housing is used for most animals in the (column heading) facility? (Enter Code from List 6 below for each column).....	Gestation 0210	Farrowing 0211
---	--------------------------	--------------------------

LIST 6 – Housing	
1 - Individual stalls or crates 2 - Group housing such as in pens	3 - Other (Specify: Gestation ^{0210oth} _____) Farrowing ^{0211oth} _____)

[If Item 6 = 2, CONTINUE for that phase; otherwise SKIP to Item 8]

7. What percent of animals housed in groups in the (column heading) facility receive feed in the following methods? (Enter Zero if None)	Gestation	Farrowing
a. Electronic Sow/Gilt Feeding?.....	0212	0217
b. Group fed on floor?.....	+ 0213	+ 0218
c. Individually fed in trough, but with group access to the trough?.....	+ 0214	+ 0219
d. Individually fed in free access stall?.....	+ 0215	+ 0220
e. Other feeding methods? (Specify: ^{0216oth} _____) (Specify: ^{0221oth} _____)	+ 0216	+ 0221
Total [Should equal 100%] =	100%	100%

8. Between December 1, 2020 and May 31, 2021 , how many breeding females (e.g., replacement gilts) were introduced into the breeding herd?.....	Head 0222
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[If Item 8 = ZERO, SKIP to Item 15]

SECTION 2 – BREEDING AND PREWEANING ANIMAL MANAGEMENT

9. Between **December 1, 2020** and **May 31, 2021**, how many **groups** of breeding females were introduced into the breeding herd as breeding animals?..... **Groups**
0223
10. In number of weeks, what was the **average age** of the (Item 8) breeding females when they were introduced into the breeding herd and commingled with other sows?..... **Weeks**
0224
11. Were the newly arriving breeding females always, sometimes or never put through an isolation or quarantine process when being introduced to the breeding herd?
 0225 1 Always } **[If Always or Sometimes]** How many days did it last?..... **Days**
0226
 2 Sometimes
 3 Never
12. Were all, some or none of the newly arriving breeding females tested for disease either on **or** before introduction to the breeding herd?..... 0227
1 All 2 Some 3 None
[If Item 12 = None, SKIP to Item 14]
13. For which diseases are any newly arriving breeding females tested? (Check **Yes** or **No** for all)
- a. Porcine Reproductive and Respiratory Syndrome?..... 0228
 1 YES 3 NO
- b. Mycoplasma?..... 0229
 1 YES 3 NO
- c. Swine Influenza?..... 0230
 1 YES 3 NO
- d. Other? (Specify: ^{0231oth} _____) 0231
 1 YES 3 NO
14. Between **December 1, 2020** and **May 31, 2021**, were any of the following acclimatization procedures used for **ANY** newly arriving breeding females: (Check **Yes** or **No** for all)
- a. Feedback of feces from other swine?..... 0232
 1 YES 3 NO
- b. Feedback of mummies, placentas or stillborn swine?..... 0233
 1 YES 3 NO
- c. Exposure to cull boars, gilts and sows?..... 0234
 1 YES 3 NO
- d. Exposure to sick swine?..... 0235
 1 YES 3 NO
- e. Vaccinations?..... 0236
 1 YES 3 NO
- f. Other? (Specify: ^{0237oth} _____) 0237
 1 YES 3 NO

NOTE: For the purposes of this study, a service is one or more matings in the same heat cycle or estrous period.

15. Between **December 1, 2020** and **May 31, 2021**, how many (column heading) were serviced?..... **Sows**
0238 **Gilts**
0239
16. Between **December 1, 2020** and **May 31, 2021**, were **ANY** of the following **breeding methods** used for (column heading) (Check **Yes** or **No** for all)
- | | Sows | Gilts |
|--|--|--|
| a. Artificial insemination?..... | 0240
<input type="checkbox"/> 1 YES <input type="checkbox"/> 3 NO | 0244
<input type="checkbox"/> 1 YES <input type="checkbox"/> 3 NO |
| b. Individual hand-mating naturally?..... | 0241
<input type="checkbox"/> 1 YES <input type="checkbox"/> 3 NO | 0245
<input type="checkbox"/> 1 YES <input type="checkbox"/> 3 NO |
| c. Pen-mate w/multiple females and one or more boars?..... | 0242
<input type="checkbox"/> 1 YES <input type="checkbox"/> 3 NO | 0246
<input type="checkbox"/> 1 YES <input type="checkbox"/> 3 NO |
| d. Other? (Specify: ^{0243oth} _____)
(Specify: ^{0247oth} _____) | 0243
<input type="checkbox"/> 1 YES <input type="checkbox"/> 3 NO | 0247
<input type="checkbox"/> 1 YES <input type="checkbox"/> 3 NO |

[If Item 16a is "No" for both Sows and Gilts, SKIP to Item 19]

SECTION 2 – BREEDING AND PREWEANING ANIMAL MANAGEMENT

17. Between **December 1, 2020** and **May 31, 2021**, was **any** of the semen used for artificial insemination: (Check **Yes** or **No** for all)

- a. Purchased?..... 0248 1 YES 3 NO
- b. Collected and processed **on** this site?..... 0249 1 YES 3 NO
- c. Collected and processed **off** this site, but not purchased?..... 0250 1 YES 3 NO

18. Between **December 1, 2020** and **May 31, 2021**, was **any** of the semen used for artificial insemination **TESTED** at **ANY** time for the following diseases? (Check **Yes**, **No** or **Don't Know** for all)

- a. Porcine Reproductive and Respiratory Syndrome?..... 0251 1 YES 3 NO 4 DK
- b. Porcine Epidemic Diarrhea/Porcine Deltacoronavirus?..... 0252 1 YES 3 NO 4 DK
- c. Seneca Valley Virus?..... 0253 1 YES 3 NO 4 DK
- d. Other? (Specify: 0254oth _____)) 1 YES 3 NO 4 DK

19. Between **December 1, 2020** and **May 31, 2021**: (Enter **Zero** if None)

- | | Head |
|---|------|
| a. How many sows and gilts farrowed, counting each time a sow farrowed separately?..... | 0255 |
| b. How many total piglets were born, including stillborn piglets and mummies?..... | 0256 |
| c. How many of the (Item 19b) piglets were born alive?..... | 0257 |
| d. Of the (Item 19c) piglets born alive, how many have been or will be weaned?..... | 0258 |

20. Subtract Item 19d from Item 19c and enter result. This is the number of preweaning deaths that occurred between **December 1, 2020** and **May 31, 2021**.....

	Head
	0259

21. Of the (Item 20) piglets that died, what **percent** were disposed of by: (Enter **Zero** if None in a disposal type)

- | | Percent |
|--|---------|
| a. Burial ON this site?..... | 0260 |
| b. Incineration ON this site?..... | + 0261 |
| c. Renderer pickup ON this site such as a "dead box" at the end of the driveway?..... | + 0262 |
| d. Renderer pickup OUTSIDE of this site?..... | + 0263 |
| e. Composting ON this site?..... | + 0264 |
| f. Composting OUTSIDE of this site?..... | + 0265 |
| g. Some other means? (Specify: 0266oth _____)) | + 0266 |

Total [Should equal 100%] = 100%

22. Of the (Item 20) piglets that died, how many head **or** what percent of the preweaning deaths were **primarily** due to: (Enter **Zero** if None)

- | | | Head | OR | Percent |
|---|---|------|----|-------------|
| a. Scours?..... | | 0267 | | 0274 |
| b. Crushed by sow by being laid on?..... | + | 0268 | + | 0275 |
| c. Starvation or refusal to eat?..... | + | 0269 | + | 0276 |
| d. Respiratory problems?..... | + | 0270 | + | 0277 |
| e. Other known problems? (Specify: 0271oth _____)) | + | 0271 | + | 0278 |
| f. Unknown problems?..... | + | 0272 | + | 0279 |
| Total [Should equal Item 20 or 100%] = | | 0273 | = | 100% |

23. Between **December 1, 2020** and **May 31, 2021**, what was the **average weaning age** in number of days?.....

	Days
	0280

SECTION 2 – BREEDING AND PREWEANING ANIMAL MANAGEMENT

24. Are piglets moved to a separate site at weaning?.....⁰²⁸¹ 1 YES 3 NO

25. Between **December 1, 2020** and **May 31, 2021**, what was the approximate average number of litters per sow?.....

Litters
0282

NOTE: For the purposes of this study, parity is the total number of farrowings a gilt or sow has

26. Between **December 1, 2020** and **May 31, 2021**, what was the approximate average parity of breeding females (gilts and sows) in the breeding herd?.....

Average Parity
0283

27. Between **December 1, 2020** and **May 31, 2021**, how many breeding females: (Enter **Zero** if None)

Head
0284
0285

a. Died or were euthanized?.....

b. Were culled?.....

[If Item 27a = ZERO, SKIP to Item 29]

28. Of the (Item 27a) breeding females that **died**, what **percent** were disposed of by: (Enter **Zero** if None in a disposal type)

Percent
0286
0287
0288
0289
0290
0291
0292

a. Burial **ON** this site?..... +

b. Incineration **ON** this site?..... +

c. Renderer pickup **ON** this site such as a “dead box” at the end of the driveway?..... +

d. Renderer pickup **OUTSIDE** of this site?..... +

e. Composting **ON** this site?..... +

f. Composting **OUTSIDE** of this site?..... +

g. Some other means? (Specify: ^{0292oth}.....) +

Total [Should equal 100%] = 100%

[If Item 27b = ZERO, SKIP to Section 3]

29. Of the (Item 27b) breeding females culled, how many head or what percent were culled primarily due to: (Enter **Zero** if None)

Head	OR	Percent
0293		1010
0294	+	1011
0295	+	1012
0296	+	1013
0297	+	1014
0298	+	1015
0299	=	100%

a. Old age?..... +

b. Lameness?..... +

c. Small litter size, high preweaning mortality or low birth weight?..... +

d. Reproductive failure such as failure to rebreed or farrow?..... +

e. Injury?..... +

f. Other reasons? (Specify: ^{0298oth}.....) +

Total [Should equal Item 27b or 100%] = 100%

30. For the (Item 27b) breeding females culled, what was the average parity?.....

Average Parity
1016

SECTION 3 – NURSERY AGED PIG MANAGEMENT

1. Between **December 1, 2020** and **May 31, 2021**, did this site raise **weaned** pigs?..... 0300 1 YES 3 NO
[If Item 1 = NO, SKIP to Section 5]

2. Between **December 1, 2020** and **May 31, 2021**, did this site raise **nursery aged pigs** (weaning to approximately 60 pounds)?..... 0301 1 YES 3 NO
[If Item 2 = NO, SKIP to Section 4]

3. Between **December 1, 2020** and **May 31, 2021**, in which of the following facilities did this site **raise most** of its **nursery aged** pigs? Check only one box below (3a or 3b)

a. A Nursery facility(ies)..... 0302 1

b. A Wean-to-Finish facility(ies)..... 0303 1

NOTE: For this questionnaire in this section, answer for nursery aged pigs whether they are raised in nursery or wean to finish facility(ies).

NOTE: Items 4 through 7 ask about what is generally or currently done.

NOTE: For the purposes of this study, all-in/all-out management means that every single animal is removed from a room, building, or site, and the pig areas are then cleaned and disinfected before any new animals arrive. If a facility (room, building, or site) is never completely empty of swine, the management approach is referred to as continual flow.

4. How do **most** nursery aged pigs flow through the nursery or wean-to-finish phase? (Enter Code from List 7 below)..... Code 0304

LIST 7– Flow Management	
1 - Continual flow	3 - All-in/all-out by room
2 - All swine removed, but swine areas not cleaned and disinfected	4 - All-in/all-out by building
	5 - All-in/all-out by site

5. Which type of **facility** is used for the **most** nursery aged pigs? (Enter Code from List 8 below)..... Code 0305

LIST 8 – Facility Type	
1 - Total confinement with mechanical ventilation	3 - Open building with outside access
2 - Open building with no outside access	4 - Other (Specify: ^{0305oth} _____)

NOTE: The next two items refer to the specific facility reported in Item 5.

6. How was manure from **most** nursery aged pigs **collected and handled** in this facility? (Enter Code from List 9 below)..... Code 0306

LIST 9 – Manure Collection and Handling	
1 - None	5 - Hand-cleaned
2 - Deep pit holding	6 - Flush-under slats
3 - Shallow pit holding	7 - Flush-open gutter
4 - Mechanical scraper or tractor	8 - Other (Specify: ^{0306oth} _____)

7. How was manure from **most** nursery aged pigs **stored and treated** in this facility? (Enter Code from List 10 below)..... Code 0307

LIST 10 – Manure Storage and Treatment	
1 - None	6 - Earthen Treatment lagoon
2 - Daily haul and spread	7 - Solid storage
3 - Composting	8 - Below Building in a Deep Pit
4 - Earthen Manure storage pond	9 - Other (Specify: ^{0307oth} _____)
5 - Formed Liquid/Slurry Storage tank	

SECTION 3 – NURSERY AGED PIG MANAGEMENT

8. Between **December 1, 2020** and **May 31, 2021**, approximately how many **recently weaned pigs** entered the **facility(ies) chosen in Item 3**? **Head**

Include weaned pigs that came from this site, purchases and movements from other facilities.....

[If Question 8 = ZERO, SKIP to Section 4]

9. Of the (Item 8) pigs, how many head or what percent originated from:
 (Enter **Zero** if None)

	Head	OR	Percent
a. This site such as on-site farrowing units?.....	0309		0315
b. Offsite farrowing unit(s) belonging to this operation?..... +	0310	+	0316
c. Offsite farrowing unit(s) not belonging to this operation?..... +	0311	+	0317
d. An auction, sale barn or livestock market?..... +	0312	+	0318
e. Another source? (Specify: ^{0313oth} _____) +	0313	+	0319
Total [Should equal Item 8 or 100%] =	0314	=	100%

[If Item 9a = Item 8 or 100%, SKIP to Item 12]

10. Between **December 1, 2020** and **May 31, 2021**, how many different **off-site** sources contributed **recently weaned pigs** to the **facility(ies) chosen in Item 3**?..... **Sources**

11. Were **recently weaned pigs** from different **off-site** sources commingled (shared airspace) in the same facility(ies)?..... ⁰³²¹ ₁ YES ₃ NO ₄ DK

12. What was the average age, in days of the Item 8 pigs when they:

		Days
a. First entered the nursery or wean-to-finish facility(ies)?.....		0322
b. Left the nursery facility(ies)?..... ⁰³²³ <input type="checkbox"/> ₁ N/A		0324
c. Transitioned within the wean-to-finish facility(ies) to be fed and managed as grower/finisher aged pigs?..... ⁰³²⁵ <input type="checkbox"/> ₁ N/A		0326

13. Of the (Item 8) pigs, how many **died**?..... **Head**

[If Item 13 = ZERO, SKIP to Section 4]

14. Of the (Item 13) pigs that died, how many head or what percent of the deaths were primarily due to: (Enter **Zero** if None)

	Head	OR	Percent
a. Scours?.....	0328		0335
b. Starvation or refusal to eat?..... +	0329	+	0336
c. Respiratory problems?..... +	0330	+	0337
d. Central Nervous System signs or meningitis such as from <i>Hemophilus</i> , <i>Strep. suis</i> or <i>E. coli</i> (edema disease)?..... +	0331	+	0338
e. Other known problems? (Specify: ^{0332oth} _____) +	0332	+	0339
f. Unknown problems?..... +	0333	+	0340
Total [Should equal Item 13 or 100%] =	0334	=	100%

SECTION 4 – GROWER/FINISHER AGED PIG MANAGEMENT

1. Between **December 1, 2020** and **May 31, 2021**, did this site raise **grower/finisher aged** 0400
pigs (weaning to approximately 60 pounds)?..... 1 YES 3 NO

[If Item 1 = NO, SKIP to Section 5]

2. Between **December 1, 2020** and **May 31, 2021**, in which of the following facilities did this site raise most of its **grower/finisher aged** pigs? Check only one box below (2a or 2b)

a. A Grower/Finisher facility(ies)?..... 0401 1

b. A Wean-to-Finish facility(ies)?..... 0402 1

NOTE: For this questionnaire in this section, answer for grower/finisher aged pigs whether they are raised in grower/finisher or wean to finish facility(ies).

NOTE: Items 3 through 9 ask about what is generally or currently done.

NOTE: For the purposes of this study, all-in/all-out management means that every single animal is removed from a room, building, or site, and the pig areas are then cleaned and disinfected before any new animals arrive. If a facility (room, building, or site) is never completely empty of swine, the management approach is referred to as continual flow.

3. How do **most** grower/finisher aged pigs flow through the grower/finisher or wean-to-finish phase? Code
(Enter Code from List 11 below)..... 0403

LIST 11 – Flow Management	
1 - Continual flow 2 - All swine removed, but swine areas not cleaned and disinfected	3 - All-in/all-out by room 4 - All-in/all-out by building 5 - All-in/all-out by site

4. Which type of **facility** is used for the **most** grower/finisher aged pigs? (Enter Code from List 12 below)..... Code
0404

LIST 12 – Facility Type	
1 - Total confinement with mechanical ventilation 2 - Open building with no outside access	3 - Open building with outside access 4 - Other (Specify: ^{0404oth} _____)

NOTE: The next five items refer to the specific facility reported in Item 4.

5. How was manure from **most** grower/finisher aged pigs collected and handled in this facility? (Enter Code from List 13 below)..... Code
0405

LIST 13 – Manure Collection and Handling	
1 - None 2 - Deep pit holding 3 - Shallow pit holding 4 - Mechanical scraper or tractor	5 - Hand-cleaned 6 - Flush-under slats 7 - Flush-open gutter 8 - Other (Specify: ^{0405oth} _____)

6. How was manure from **most** grower/finisher aged pigs stored and treated in this facility? (Enter Code from List 14 below)..... Code
0406

LIST 14 – Manure Storage and Treatment	
1 - None 2 - Daily haul and spread 3 - Composting 4 - Earthen Manure storage pond 5 - Formed Liquid/Slurry Storage tank	6 - Earthen Treatment lagoon 7 - Solid storage 8 - Below Building in a Deep Pit 9 - Other (Specify: ^{0406oth} _____)

[If Item 6 = 1,2 or 3, SKIP to Item 9]

NOTE: The next three items refer to the method used to store or treat manure for the facility in Item 4.

7. Are any methods used to separate manure solid and liquid parts, such as a screw press?..... 0407 1 YES 3 NO

8. How many times in the last **three years** has the manure storage and treatment been cleaned out?..... Times
0408

SECTION 4 – GROWER/FINISHER AGED PIG MANAGEMENT

9. What month(s) of the year do you typically clean out the manure storage and treatment system? (Check **all** that apply)

0409 <input type="checkbox"/> 1 January	0412 <input type="checkbox"/> 1 April	0415 <input type="checkbox"/> 1 July	0418 <input type="checkbox"/> 1 October
0410 <input type="checkbox"/> 1 February	0413 <input type="checkbox"/> 1 May	0416 <input type="checkbox"/> 1 August	0419 <input type="checkbox"/> 1 November
0411 <input type="checkbox"/> 1 March	0414 <input type="checkbox"/> 1 June	0417 <input type="checkbox"/> 1 September	0420 <input type="checkbox"/> 1 December

NOTE: For the rest of this section we switch topics from grower/finisher aged pigs to nursery aged pigs that transition into being fed and managed as grower/finisher aged pigs.

10. Between **December 1, 2020** and **May 31, 2021**, approximately how many **nursery aged pigs** either entered a grower/finisher facility(ies) **or** transitioned to become **grower/finisher aged pigs** within the **facility(ies) chosen in Item 2?**

Include nursery aged pigs that came from this site, purchases and movements from other facilities..... 0421

[If Question 10 = ZERO, SKIP to Section 5]

11. Of the (Item 10) pigs, how many head or what percent originated from:
(Enter **Zero** if None)

	Head	OR	Percent
a. This site such as on-site nursery aged pigs?.....	0422		0428
b. Offsite unit(s) belonging to this operation?.....	+ 0423	+	0429
c. Offsite unit(s) not belonging to this operation?.....	+ 0424	+	0430
d. An auction, sale barn or livestock market?.....	+ 0425	+	0431
e. Another source? (Specify: ^{0426oth} _____)	+ 0426	+	0432
Total [Should equal Item 10 or 100%] =	0427	=	100%

[If Item 11a = Item 10 or 100%, SKIP to Item 14]

12. Between **December 1, 2020** and **May 31, 2021**, how many different **off-site** sources contributed pigs to be **raised as grower/finisher aged pigs** to the **facility(ies) chosen in Item 2?**

Sources
0433

13. Were **nursery aged pigs** from different **off-site** sources commingled (shared airspace) in the same facility(ies)?.....

⁰⁴³⁴
 1 YES 3 NO 4 DK

14. What was the average age, in days of the Item 10 pigs when they:

	Days
a. Entered the grower/finish facility(ies)?.....	0435
b. Transitioned within the wean-to-finish facility(ies) to be fed and managed as grower/finisher aged pigs ?.....	0437
c. Left the site, such as went to market?.....	0439

15. Of the (Item 10) pigs, how many **died**?.....

Head
0440

[If Item 15 = ZERO, SKIP to Section 5]

16. Of the (Item 15) pigs that died, how many head or what percent of the deaths were primarily due to: (Enter **Zero** if None)

	Head	OR	Percent
a. Scours?	0441		0449
b. Lameness?	+ 0442	+	0450
c. Injury or trauma such as from tail biting?.....	+ 0443	+	0451
d. Respiratory problems?	+ 0444	+	0452
e. Stress?	+ 0445	+	0453
f. Other known problems? (Specify: ^{0446oth} _____)	+ 0446	+	0454
g. Unknown problems?	+ 0447	+	0455
Total [Should equal Item 15 or 100%] =	0448	=	100%

SECTION 5 – BIOSECURITY

[If Sections 3 and 4 were not filled out because this site does not raise weaned pigs OR Section 3, Item 13 and Section 4, Item 15 BOTH = ZERO, SKIP to Item 3]

NOTE: Item 1 refers to those swine that were reported as having died in: Section 3, Item 13 and Section 4, Item 15, If disposal type is not applicable (had no disposals in that category). Enter zero for that disposal type.

1. For the **weaned pigs** (Nursery and Grower/Finisher Aged) that died on the site between **December 1, 2020** and **May 31, 2021**, what **percent** were disposed of by: (Enter **Zero** if None in a disposal type)

		Percent Weaned Pigs
a. Burial ON this site?.....		0500
b. Incineration ON this site?.....	+	0501
c. Renderer pickup ON this site such as a “dead box” at the end of the driveway?.....	+	0502
d. Renderer pickup OUTSIDE of this site?.....	+	0503
e. Composting ON this site?.....	+	0504
f. Composting OUTSIDE of this site?.....	+	0505
g. Some other means? (Specify: ^{0506oth} _____).....	+	0506
Total [Should equal 100%] =		100%

[If Item 1f is 0% or blank, SKIP to Item 3]

2. Are dead swine from other sites also disposed of at this location **OUTSIDE** of this site?.... ⁰⁵⁰⁷ ₁ YES ₃ NO ₄ DK

NOTE: For Items 3 and 4, a Business or Non Business visitor is not an employee. Business visitors might be a veterinarian, construction worker, feed salesman or maintenance person. Non Business visitors might be a tour of school kids or a friend. Enter zero if none in a category in Item 3.

3. Over the last **three months**, approximately how many visits were made onto your site by (column heading)?.....

	Business Visitors	Non-Business Visitors
.....	0508	0509

4. Are (column heading) allowed to enter into areas where swine are kept on this site?..

	Business Visitors	Non-Business Visitors
.....	0510 <input type="checkbox"/> ₁ YES <input type="checkbox"/> ₃ NO	0511 <input type="checkbox"/> ₁ YES <input type="checkbox"/> ₃ NO

NOTE: In Item 5 answer 5a-c for each column. Check N/A if visitors of either type are not allowed in the hog and pig facilities on the site per Item 4. Otherwise, Check Yes or No for all.

5. Before entering the swine facilities on this site, are (column heading) required to:

	Employees	Business Visitors	Non-Business Visitors
a. Take a shower immediately prior to entry?.....	0512 <input type="checkbox"/> ₁ YES <input type="checkbox"/> ₃ NO	0517 <input type="checkbox"/> ₁ YES <input type="checkbox"/> ₃ NO <input type="checkbox"/> ₂ N/A	0522 <input type="checkbox"/> ₁ YES <input type="checkbox"/> ₃ NO <input type="checkbox"/> ₂ N/A
b. Change to clean boots and coveralls first?.....	0513 <input type="checkbox"/> ₁ YES <input type="checkbox"/> ₃ NO	0518 <input type="checkbox"/> ₁ YES <input type="checkbox"/> ₃ NO <input type="checkbox"/> ₂ N/A	0523 <input type="checkbox"/> ₁ YES <input type="checkbox"/> ₃ NO <input type="checkbox"/> ₂ N/A
c. Use the Danish Entry or “Bench” system?.....	0514 <input type="checkbox"/> ₁ YES <input type="checkbox"/> ₃ NO	0519 <input type="checkbox"/> ₁ YES <input type="checkbox"/> ₃ NO <input type="checkbox"/> ₂ N/A	0524 <input type="checkbox"/> ₁ YES <input type="checkbox"/> ₃ NO <input type="checkbox"/> ₂ N/A
d. Wait 24 hours or more after visiting any other swine site?.....	0515 <input type="checkbox"/> ₁ YES <input type="checkbox"/> ₃ NO	0520 <input type="checkbox"/> ₁ YES <input type="checkbox"/> ₃ NO <input type="checkbox"/> ₂ N/A	0525 <input type="checkbox"/> ₁ YES <input type="checkbox"/> ₃ NO <input type="checkbox"/> ₂ N/A
e. Use footbaths?.....	0516 <input type="checkbox"/> ₁ YES <input type="checkbox"/> ₃ NO	0521 <input type="checkbox"/> ₁ YES <input type="checkbox"/> ₃ NO <input type="checkbox"/> ₂ N/A	0526 <input type="checkbox"/> ₁ YES <input type="checkbox"/> ₃ NO <input type="checkbox"/> ₂ N/A

6. Over the last **three months**, approximately how many visits were made onto your site by: (Enter **Zero** if None)

	Number of Visits
a. Company owned animal transport trucks?.....	0527
b. Commercial animal transport trucks?.....	0528

SECTION 5 – BIOSECURITY

7. Before **all** animal transport trucks are brought onto this site to pick up swine, is it required that: (Check **Yes**, **No** or **DK** for each)
- a. The inside of the trailer be cleaned?..... 0529 ₁ YES ₃ NO ₄ DK
 - b. The inside of the trailer be disinfected?..... 0530 ₁ YES ₃ NO ₄ DK
 - c. The outside of the trailer be cleaned?..... 0531 ₁ YES ₃ NO ₄ DK
 - d. The outside of the trailer be disinfected?..... 0532 ₁ YES ₃ NO ₄ DK
 - e. The trailer be dried?..... 0533 ₁ YES ₃ NO ₄ DK

[If Item 7e = NO or DK, SKIP to Item 9]

8. What drying method is required (Check one box only)?..... 0534 **Baking** ₁ 0535 **Air Dry** ₁

NOTE: For the purposes of this study, a Line of Separation is a line dividing the farm into a clean area and a dirty area that neither drivers nor farm staff cross over.

9. When loading or unloading swine does this site have a designated Line of Separation?..... 0536 ₁ YES ₃ NO
10. Were any of the following methods of rodent control used on the site? (Check **Yes** or **No** for all)
- a. Cats?..... 0537 ₁ YES ₃ NO
 - b. Dogs? 0538 ₁ YES ₃ NO
 - c. Traps? 0539 ₁ YES ₃ NO
 - d. Bait or poison? 0540 ₁ YES ₃ NO
 - e. Professional exterminator? 0541 ₁ YES ₃ NO
 - f. Grounds keeping (e.g., rock border, regular lawn mowing)?..... 0542 ₁ YES ₃ NO
 - g. Other? (Specify: 0543oth _____) 0543 ₁ YES ₃ NO

11. Do you use the following methods to keep wildlife (e.g., birds, rodents, cats) out of or away from buildings containing swine? (Check **Yes** or **No** for each)
- a. Bird screens in barn openings such as exhaust ports in ceiling?..... 0544 ₁ YES ₃ NO
 - b. Gravel perimeter? 0545 ₁ YES ₃ NO
 - c. Clean up feed spills within 24 hours?..... 0546 ₁ YES ₃ NO
 - d. Perimeter Fencing? 0547 ₁ YES ₃ NO
 - e. Exterior fan louvers or covers that close automatically when not in operation?..... 0548 ₁ YES ₃ NO
 - g. Other? (Specify: 0549oth _____) 0549 ₁ YES ₃ NO

12. To the nearest **quarter mile**, how many miles is it from this site to the nearest site with any swine? **Include** sites regardless of who owns the swine..... 0550 **Miles**

13. How many sites with swine are within three miles of this site? **Include** sites regardless of who owns the swine..... 0551 **Sites**

14. Are there feral swine in this site's county? **Include** swine on hunting clubs or captive on farms..... 0552 ₁ YES ₃ NO ₄ DK

15. Between **June 1, 2020** and **May 31, 2021**, how many times have feral swine or evidence of them (such as footprints, rooted up land, low rubbed areas on trees, feces, etc.) been seen on this site?..... 0553 **Times**

[If Item 15 = ZERO, SKIP to Section 6]

16. If feral swine or evidence of them were seen on this site, was there any evidence that the feral swine entered or gained access to facilities used to house your swine or store feed?..... 0554 ₁ YES ₃ NO

SECTION 6 – OVERALL FARM MANAGEMENT

1. During the past **three years**, how many times did this site test: (Enter **Zero** if None)
- | Times | |
|-------|------|
| | 0600 |
| | 0601 |
| | 0602 |
- a. Ground water such as for nitrates or pathogens?.....
- b. Nutrient content of manure such as the nitrogen level?.....
- c. Air quality such as the ammonia or hydrogen sulfide levels?.....

NOTE: For the purposes of this study, a written manure or nutrient management plan includes testing of nutrient values in both the soil and manure and limiting application of nutrients to agronomic rates for the crops to be grown

2. Do you have and follow a written manure or nutrient management plan?..... 0603 ₁ YES ₃ NO ₄ DK
3. Does this site have a Veterinary Client Patient Relationship (VCPR) with its primary veterinarian?..... 0604 ₁ YES ₃ NO ₄ DK
- 4.. Between **June 1, 2020** and **May 31, 2021**, was **anyone** from this site in contact with a veterinarian (include site visit, telephone, video conference, e-mail or data transfer)?..... 0605 ₁ YES ₃ NO ₄ DK
- 5.. Were any individuals who work on this site Pork Quality Assurance Plus (**PQA Plus**) certified?..... 0606 ₁ YES ₃ NO ₄ DK
6. Has this site **ever** had a **PQA Plus** site assessment?..... 0607 ₁ YES ₃ NO ₄ DK
- [If Item 6 = No, SKIP to question 8]**

- | Month/Year | |
|------------|-------------------|
| | 0608
____/____ |
7. When was the last **PQA Plus** site assessment conducted?.....
8. Has this site ever been audited under the **Common Swine Industry Audit**?..... 0609 ₁ YES ₃ NO ₄ DK
- [If Item 8 = No, SKIP to question 10]**

- | Month/Year | |
|------------|-------------------|
| | 0610
____/____ |
9. When was the last **Common Swine Industry Audit** conducted?.....
10. Between **June 1, 2020** and **May 31, 2021**, were antibiotics used in swine **water** or **feed** on this site?..... 0611 ₁ YES ₃ NO ₄ DK
- [If Item 10 = NO or DK, SKIP to Section 7]**

NOTE: For Item 11, check N/A for items 11a – 11d only if antibiotics were not used via that delivery method (e.g., none delivered by Water).

11. Between **June 1, 2020** and **May 31, 2021**, when antibiotics were used in **water** or **feed on this site** which of the following information was recorded? (Check **Yes, No, DK** or **N/A** for each)

	Water	Feed
a. Date antibiotic use began.....	0612 <input type="checkbox"/> ₁ YES <input type="checkbox"/> ₃ NO <input type="checkbox"/> ₄ DK <input type="checkbox"/> ₂ N/A	0616 <input type="checkbox"/> ₁ YES <input type="checkbox"/> ₃ NO <input type="checkbox"/> ₄ DK <input type="checkbox"/> ₂ N/A
b. Date antibiotic use ended.....	0613 <input type="checkbox"/> ₁ YES <input type="checkbox"/> ₃ NO <input type="checkbox"/> ₄ DK <input type="checkbox"/> ₂ N/A	0617 <input type="checkbox"/> ₁ YES <input type="checkbox"/> ₃ NO <input type="checkbox"/> ₄ DK <input type="checkbox"/> ₂ N/A
c. Antibiotic used.....	0614 <input type="checkbox"/> ₁ YES <input type="checkbox"/> ₃ NO <input type="checkbox"/> ₄ DK <input type="checkbox"/> ₂ N/A	0618 <input type="checkbox"/> ₁ YES <input type="checkbox"/> ₃ NO <input type="checkbox"/> ₄ DK <input type="checkbox"/> ₂ N/A
d. Treatment withdrawal period.....	0615 <input type="checkbox"/> ₁ YES <input type="checkbox"/> ₃ NO <input type="checkbox"/> ₄ DK <input type="checkbox"/> ₂ N/A	0619 <input type="checkbox"/> ₁ YES <input type="checkbox"/> ₃ NO <input type="checkbox"/> ₄ DK <input type="checkbox"/> ₂ N/A

SECTION 7 – CONCLUSION

1. ENTER INTERVIEW RESPONSE CODE

- 2 - Out of business
- 3 - Refusal of LES
- 4 - Complete LES: signed CONSENT FORM
- 5 - Complete LES: refused CONSENT FORM
- 6 - Out of scope
- 7 - Office hold
- 8 - Inaccessible

Code
2000

[If Item 1 = 3 or 5, complete Item 2; otherwise SKIP to Item 3]

2. ENTER REFUSAL REASON CODE

- 1 - Does not want to commit time to the project
- 2 - Does not want involvement with government veterinarian
- 3 - Does not have necessary records available
- 4 - Has participated in too many surveys
- 5 - Does not want outside people on the swine site
- 6 - A bad time of year due to planting, harvesting, second job, etc.
- 7 - Currently has or recently had disease problem with herd
- 8 - Believes that surveys and reports hurt the farmer more than help
- 9 - Could not get Owner/Contractor permission
- 10- No reason given or other miscellaneous reasons

Code
2001

3. ENDING TIME [MILITARY].....

2002
____ : ____

4. DATE OF INTERVIEW.....

2003	MM	DD	YY
____	/	____	/
____	/	____	____

OFFICE USE ONLY											
Response		Respondent		Mode		Enum.	Eval.	Change	Office Use for POID		
1-Comp	9901	1-Op/Mgr	9902	1-PASI (Mail)	9903	9998	9900	9985	9989		
2-R		2-Spouse		2-PATI (Tel)					_____ - _____ - _____		
3-Inac		3-Acct/Bkpr		3-PAPI (Face-to-							
4-Office Hold		4-Partner		Face)							
5-R – Est		9-Other		6-Email							
6-Inac – Est				7-Fax							
7-Off Hold – Est				19-Other							
							R. Unit	Optional Use			
							9921	9907	9908	9906	9916
S/E Name											