

NAHMS SWINE LARGE ENTERPRISE SURVEY

OMB No. 0579-0315
Approval Expires: 1/31/2023
Project Code: 967
Survey ID: 5093



**United States
Department of
Agriculture**



**NATIONAL
AGRICULTURAL
STATISTICS
SERVICE**

USDA/NASS

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Please make corrections to name, address and ZIP Code, if necessary.

Multiple Site Identification

EPAID	Site Number
9967 _____000_____	9968 _____

Office Use Only

0001

0002

BEGINNING TIME (MILITARY) _____:_____

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INTRODUCTION

We would like to ask you some questions about the pigs 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.

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

SECTION 1 - SITE INVENTORY

<p>1. Of the total swine on hand June 1, 2021 on this site, how many were: (Enter Zero if None)</p> <p>a. Sows, unmated replacement gilts and bred gilts in the breeding herd?</p> <p>b. Unmated replacement gilts for breeding not yet in the breeding herd, such as those in a Gilt Development Unit?.....</p> <p>c. Nursing pigs?.....</p> <p>d. Boars and young males for breeding, including teaser boars?</p> <p>e. Cull sows, gilts, and boars?.....</p> <p>f. Weaned hogs under 60 pounds?.....</p> <p>g. Market hogs 60 pounds and over, EXCLUDING cull sows, gilts, and boars?.....</p> <p>h. Then the total number of pigs on this site on June 1, 2021 is</p>	<p>Head</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="text-align: center;">0100</td></tr> <tr><td style="text-align: center;">+</td></tr> <tr><td style="text-align: center;">0101</td></tr> <tr><td style="text-align: center;">+</td></tr> <tr><td style="text-align: center;">0102</td></tr> <tr><td style="text-align: center;">+</td></tr> <tr><td style="text-align: center;">0103</td></tr> <tr><td style="text-align: center;">+</td></tr> <tr><td style="text-align: center;">0104</td></tr> <tr><td style="text-align: center;">+</td></tr> <tr><td style="text-align: center;">0105</td></tr> <tr><td style="text-align: center;">+</td></tr> <tr><td style="text-align: center;">0106</td></tr> <tr><td style="text-align: center;">+</td></tr> <tr><td style="text-align: center;">0107</td></tr> <tr><td style="text-align: center;">=</td></tr> </table> <p style="text-align: center;">Code</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="text-align: center;">0108</td></tr> </table>	0100	+	0101	+	0102	+	0103	+	0104	+	0105	+	0106	+	0107	=	0108
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<p>2. Which of the following describes your day-to-day responsibilities on this pig site? (Enter Code from List 1 below).....</p>	<p>0108</p>																	

LIST 1 - PRIMARY ROLE	
<p>1 - Contractor that owns the swine</p> <p>2 - Contractee that raises or manages the swine</p> <p>3 - Independent producer who markets on their own</p> <p>4 - Independent producer who markets through a cooperative</p>	<p>5 - Farm manager/herdsman</p> <p>6 - Company Veterinarian</p> <p>7 - Private or Other Veterinarian</p> <p>8 - Other-include combination of above responses if applicable (Specify:⁵¹⁰⁸ _____)</p>

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	1	<input type="checkbox"/> Yes		3	<input type="checkbox"/> No
b. Were any sows or gilts bred?.....	0201	1	<input type="checkbox"/> Yes		3	<input type="checkbox"/> 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 purpose 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.

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

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

SECTION 2 - BREEDING AND PREWEANING ANIMAL MANAGEMENT (continued)

	Gestation	Farrowing
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).....	0204	0205

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 ⁵²⁰⁴ _____) Farrowing ⁵²⁰⁵ _____)

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

	Gestation	Farrowing
4. How was manure from most animals collected and handled in this (column heading) facility? (Enter Code from List 4 below for each column).....	0206	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 ⁵²⁰⁶ _____) Farrowing ⁵²⁰⁷ _____)

	Gestation	Farrowing
5. How was manure from most animals stored and treated in this (column heading) facility? (Enter Code from List 5 below for each column).....	0208	0209

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 ⁵²⁰⁸ _____) Farrowing ⁵²⁰⁹ _____)

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

LIST 6 - Housing	
1 - Individual stalls or crates 2 - Group housing such as in pens	3 - Other (Specify: Gestation ⁵²¹⁰ _____) Farrowing ⁵²¹¹ _____)

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

	Gestation	Farrowing
7. What percent of animals housed in groups in the (column heading) facility		
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: ⁵²¹⁶ _____)	0216	0221
(Specify: ⁵²²¹ _____)		

Total (Should equal 100%) = 100% = 100%

	Head
8. Between December 1, 2020 and May 31, 2021 how many breeding females (e.g., replacement gilts) were introduced into the breeding herd?.....	0222

If Item 8 = ZERO, SKIP to Item 15

SECTION 2 - BREEDING AND PREWEANING ANIMAL MANAGEMENT (continued)

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

2 Sometimes

3 Never

Days

0226

If Always or Sometimes How many days did it last?.....

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 were 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:⁵²³¹ _____) 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:⁵²³⁷ _____) 0237 1 Yes 3 No

SECTION 2 - BREEDING AND PREWEANING ANIMAL MANAGEMENT (continued)

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

	Sows	Gilts
15. Between December 1, 2020 and May 31, 2021 , how many (column heading) were serviced?	0238	0239

	Sows	Gilts
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)		
a. Artificial insemination?.....	0240 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	0244 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
b. Individual hand-mating naturally?.....	0241 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	0245 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
c. Pen-mate with multiple females and one or more boars?.....	0242 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	0246 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
d. Other?.....	0243 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	0247 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
(Specify: ⁵²⁴³ _____)		
(Specify: ⁵²⁴⁷ _____)		

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

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 <input type="checkbox"/> Yes	3 <input type="checkbox"/> No
b. Collected and processed on this site?.....	0249	1 <input type="checkbox"/> Yes	3 <input type="checkbox"/> No
c. Collected and processed off this site, but not purchased?.....	0250	1 <input type="checkbox"/> Yes	3 <input type="checkbox"/> 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 or No for all)			
a. Porcine Reproductive and Respiratory Syndrome?.....	0251	1 <input type="checkbox"/> Yes	3 <input type="checkbox"/> No 4 <input type="checkbox"/> DK
b. Porcine Epidemic Diarrhea/Porcine Deltacoronavirus?.....	0252	1 <input type="checkbox"/> Yes	3 <input type="checkbox"/> No 4 <input type="checkbox"/> DK
c. Seneca Valley Virus?.....	0253	1 <input type="checkbox"/> Yes	3 <input type="checkbox"/> No 4 <input type="checkbox"/> DK
d. Other? (Specify: ⁵²⁵⁴ _____)	0254	1 <input type="checkbox"/> Yes	3 <input type="checkbox"/> No 4 <input type="checkbox"/> 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) were born alive?.....	0257
d. Of the (Item 19c) piglets born alive, how many have been or will be weaned?.....	0258
	Head
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	0259

SECTION 2 - BREEDING AND PREWEANING ANIMAL MANAGEMENT (continued)

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 this site?.....	+	0265
g. Some other means? (Specify: ⁵²⁶⁶ _____)	+	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: ⁵²⁷¹ _____)	+	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

24. Are piglets moved to a separate site at weaning?..... 0281 Yes No

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

Litters
0282

SECTION 2 - BREEDING AND PREWEANING ANIMAL MANAGEMENT (continued)

NOTE: For the purpose 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	
a. Died or were euthanized?.....	0284
b. Were culled?.....	0285

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	
a. Burial ON this site?..... +	0286
b. Incineration ON this site?..... +	0287
c. Renderer pickup ON this site such as a "dead box" at the end of the driveway?..... +	0288
d. Renderer pickup OUTSIDE of this site?..... +	0289
e. Composting ON this site?..... +	0290
f. Composting OUTSIDE this site?..... +	0291
g. Some other means? (Specify: ⁵²⁹² _____) +	0292
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	
a. Old age?..... +	0293	+	1010	
b. Lameness?..... +	0294	+	1011	
c. Small litter size, high preweaning mortality or low birth weight?..... +	0295	+	1012	
d. Reproductive failure such as failure to rebreed or farrow?..... +	0296	+	1013	
e. Injury?..... +	0297	+	1014	
f. Other known problems? (Specify: ⁵²⁹⁸ _____) +	0298	+	1015	
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 one box below only (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 a 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 |

Code

0305

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

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: ⁵³⁰⁵ _____) |

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: ⁵³⁰⁶ _____) |

Code

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: ⁵³⁰⁷ _____) |
| 5 - Formed Liquid/Slurry Storage tank | |

SECTION 3 - NURSERY AGED PIG MANAGEMENT (continued)

8. Between **December 1, 2020** and **May 31, 2021**, approximately how many **recently weaned pigs** entered the **facility(ies) chosen in Item 3?** (INCLUDE weaned pigs that came from this site, purchases and movements from other facilities).....

Head

0308

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?..... +
- b. Offsite farrowing unit(s) **belonging** to this operation?..... +
- c. Offsite farrowing unit(s) **not belonging** to this operation?..... +
- d. An auction, sale barn or livestock market?..... +
- e. Another source? (Specify: ⁵³¹³ _____) +

0309	+	0315
0310	+	0316
0311	+	0317
0312	+	0318
0313	+	0319
Total (Should equal Item 8 or 100%) =		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

0320

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)?.....
- b. Left the nursery facility(ies)?..... ⁰³²³ 1 N/A
- c. Transitioned within the wean-to-finish facility(ies) to be fed and managed as **grower/finisher aged** pigs?..... ⁰³²⁵ 1 N/A

0322
0324
0326

Head

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

0327

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?..... +
- b. Starvation or refusal to eat?..... +
- c. Respiratory problems?..... +
- d. Central Nervous System signs or meningitis such as from *Hemophilus*, *Strep. suis* or *E. coli* (edema disease)?..... +
- e. Other known problems?(Specify: ⁵³³² _____) +
- f. Unknown problems? +

0328	+	0335
0329	+	0336
0330	+	0337
0331	+	0338
0332	+	0339
0333	+	0340
Total (Should equal Item 13 or 100%) =		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 (nursery age to market weight)? 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 facility(ies) did this site raise **most** of its **grower/finisher aged** pigs? Check one box below only (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 these questions for grower/finisher aged pigs whether they are raised in a 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? (Enter Code from List 11 below)..... Code
0403

LIST 11 - 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 |

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 | 3 - Open building with outside access |
| 2 - Open building with no outside access | 4 - Other (Specify: ⁵⁴⁰⁴ _____) |

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 | 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: ⁵⁴⁰⁵ _____) |

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 | 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: ⁵⁴⁰⁶ _____) |
| 5 - Formed Liquid/Slurry Storage tank | |

SECTION 4 - GROWER/FINISHER AGED PIG MANAGEMENT (continued)

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

Times

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

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

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

Head

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: ⁵⁴²⁶ _____)	0426	+	0432
Total (Should equal Item 10 or 100%) =	0427	=	100%

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

Sources

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?**

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	1 <input type="checkbox"/> N/A	0436
b. Transitioned within the wean-to-finish facility(ies) to be fed and managed as grower/finisher aged pigs ?.....	0437	1 <input type="checkbox"/> N/A	0438
c. Left the site, such as went to market?.....			0439

Head

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

0440

SECTION 4 - GROWER/FINISHER AGED PIG MANAGEMENT (continued)

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: ⁵⁴⁴⁶ _____) +	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: ⁵⁵⁰⁶ _____) +	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.

SECTION 5 - BIOSECURITY (continued)

	Business Visitors	Non-Business Visitors
3. Over the last three months , approximately how many visits were made onto your site by (column heading)?.....	0508	0509

	Business Visitors	Non-Business Visitors
4. Are (column heading) allowed to enter into areas where swine are kept on this site?.....	0510 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	0511 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No

NOTE: In Item 5 answer 5a-e 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.

	Employees	Business Visitors	Non-Business Visitors
5. Before entering the swine facilities on this site, are (column heading) required to:			
a. Take a shower immediately prior to entry?.....	0512 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	0517 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No 2 <input type="checkbox"/> N/A	0522 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No 2 <input type="checkbox"/> N/A
b. Change to clean boots and coveralls first?.....	0513 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	0518 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No 2 <input type="checkbox"/> N/A	0523 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No 2 <input type="checkbox"/> N/A
c. Use the Danish Entry or "Bench" system?.....	0514 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	0519 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No 2 <input type="checkbox"/> N/A	0524 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No 2 <input type="checkbox"/> N/A
d. Wait 24 hours or more after visiting any other swine site?.....	0515 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	0520 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No 2 <input type="checkbox"/> N/A	0525 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No 2 <input type="checkbox"/> N/A
e. Use footbaths?.....	0516 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	0521 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No 2 <input type="checkbox"/> N/A	0526 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No 2 <input type="checkbox"/> N/A

	Number of Visits
6. Over the last three months , approximately how many visits were made onto your site by:(Enter Zero if None)	
a. Company owned animal transport trucks?.....	0527
b. Commercial animal transport trucks?.....	0528

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 <input type="checkbox"/> YES	3 <input type="checkbox"/> NO	4 <input type="checkbox"/> DK
b. The inside of the trailer be disinfected?.....	0530	1 <input type="checkbox"/> YES	3 <input type="checkbox"/> NO	4 <input type="checkbox"/> DK
c. The outside of the trailer be cleaned?.....	0531	1 <input type="checkbox"/> YES	3 <input type="checkbox"/> NO	4 <input type="checkbox"/> DK
d. The outside of the trailer be disinfected?.....	0532	1 <input type="checkbox"/> YES	3 <input type="checkbox"/> NO	4 <input type="checkbox"/> DK
e. The trailer be dried?.....	0533	1 <input type="checkbox"/> YES	3 <input type="checkbox"/> NO	4 <input type="checkbox"/> DK

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

		Baking		Air Dry
8. What drying method is required (Check one box only)?.....	0534	1 <input type="checkbox"/>	0535	1 <input type="checkbox"/>

SECTION 5 - BIOSECURITY (continued)

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: ⁵⁵⁴³ _____) 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

f. Other? (Specify: ⁵⁵⁴⁹ _____) 0549 1 YES 3 NO

Miles

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 _____

Sites

13. How many sites with swine are within three miles of this site? INCLUDE sites regardless of who owns the swine.....

0551 _____

14. Are there feral swine in this site's county? INCLUDE swine on hunting clubs or captive on farms.....

0522

1 Yes 3 No 4 DK

Times

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, fences, etc.) been seen on the site?.....

0553 _____

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)

- 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?.....

Times
0600
0601
0602

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 conferences, email 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 or DK, SKIP to Item 8

- 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

Month/Year
0608
____/____

If Item 8 = NO or DK, SKIP to Item 10

- 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

Month/Year
0610
____/____

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

SECTION 7 - CONCLUSION

1. Would you like the opportunity to participate in Phase 2 of this study?..... 2004 1 Yes 3 No

This will allow USDA-NASS staff to provide the following information to the State USDA-APHIS-NAHMS Coordinator, who is part of a non-regulatory program; your name, address, phone number, email address, total inventory, and operation type (market/breeding/other)? A Federal or State veterinary medical officer (VMO) will contact you to administer a Phase II questionnaire and the opportunity to obtain free testing for your hogs: fecal (*Salmonella*, *E. coli*, *Enterococcus*, *Campylobacter*) and oral (Seneca Valley Virus) pathogens. You are free to accept or decline participation at that time. Data collected from the Phase II questionnaire will be confidential, using the same, strong legal protections afforded this collection, and no name or contact information will be associated with the data. Data are only presented in aggregated summaries.

Please see the Appendix for more information, which can be found on the last page of this questionnaire or can be accessed at https://www.aphis.usda.gov/animal_health/nahms/swine2021large-les.pdf.

If Item 1 = 3, then SKIP to Item 3; Otherwise, continue to Item 2

2. Please ensure that operator's name, phone number, address, and email address are all current from the **Large Enterprise Survey - Site Selection Form**. If they are not up to date, please update them below.

Name: 2005	Address: 2007
Phone number: 2006	Email: 2008

3. ENTER INTERVIEW RESPONSE CODE

- 2 Out of business
- 3 Refusal of LES
- 4 Complete LES: Consented (Section 7, Question 1 = Yes)
- 5 Complete LES: Refused consent (Section 7, Question 1 = No)
- 6 Out of scope
- 7 Office Hold
- 8 Inaccessible

Code

2000

If Item 3 = 3 or 5, continue Item 4; Otherwise SKIP to Ending Time

4. ENTER REFUSAL RESPONSE 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

5. ENDING TIME (MILITARY).....

2002
: :
: :
: :

6. DATE OF INTERVIEW.....

2003
MM DD YY
/ /
/ /

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OR

Space for Notes and Comments

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OR

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OR

Space for Notes and Comments

Appendix – Consent to Contact for Section 7, Item 1

The USDA’s Animal and Plant Health Inspection Service’s (APHIS) National Animal Health Monitoring System (NAHMS) is conducting a study of U.S. swine operations. **NAHMS studies are voluntary and nonregulatory.** This study will take an in-depth look at U.S. swine operations and provide new and valuable information regarding animal health and management practices in the U.S. swine industry. To initiate the study, a sample was selected from the confidential list of operations maintained by USDA’s National Agricultural Statistics Service (NASS). Your operation was selected for participation and will represent a number of unselected swine operations.

By consenting, you are agreeing to allow USDA–NASS staff to provide the following information to the State NAHMS Coordinator, who is employed by USDA–APHIS: your name, address, phone number, email address, total inventory, and operation type (market/breeding/other). Confidentiality of your data is crucially important to us. No name or contact information will be associated with individual data, and no data will be reported in a way that could reveal the identity of a participant. Data are presented only in aggregated summaries.

The NAHMS Coordinator will share this information with a Federal or State veterinary medical officer (VMO), who will contact you to administer a Phase II questionnaire. You will also have the opportunity to obtain free testing for your hogs, including testing for: fecal (*Salmonella*, *E. coli*, *Enterococcus*, *Campylobacter*) and oral (Seneca Valley Virus) pathogens. Only the Federal or State VMOs collecting the data know the identity of study participants.

When you are contacted by a Federal or State VMO and asked to participate in the study, you are free to accept or decline participation at that time. A copy of the questionnaire that will be administered when you’re visited by the Federal or State VMO can be found at: www.aphis.usda.gov/nahms. **If you have been selected but have not been contacted or if you have questions regarding the study, please call: (866) 907-8190.**

Please indicate your willingness to consent in Section 7, Item 1.

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

S/E Name