**OMB Approved**
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**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 VS Visit

| State FIPS: _____ | Operation #: _____ | Site #: _____ | Interviewer: _____ | Date: ___/___/___ |
|---|---|---|---|---|
| 2 digits | 4 digits | 2 digits | Initials | mm/dd/yy |

**Arrival time at site: _____** **Start time of questionnaire: _____**

## Confidentiality Pledge

| | |
|---|---|
| Do you accept the APHIS confidentiality pledge and are you willing to participate in Phase II of the NAHMS Swine 2021 Large Enterprise study? The details of the pledge are summarized below, and the full pledge can be found in the Appendix.<br><br>APHIS pledges to keep the information you provide as part of this study confidential and will only use it for statistical purposes. The information you provide will be protected according to the Confidential Information Protection provisions of Title V, Subtitle A, Public Law 107-347 (CIPSEA) and other applicable Federal laws and will not be disclosed in identifiable form.<br><br>The information collected as part of the fecal pathogen and oral fluids biologics testing is not covered by CIPSEA but is protected as confidential business information. APHIS will not disclose this information except when required by law, will not have any Personally Identifiable Information on any biologic forms or sample materials so samples cannot be traced to you or your operation, and will only report aggregated summary statistics using the biologics information, never individual operation/site information. | v900 ☐1 Yes ☐3 No |

## Section 1—Today's Inventory

**INTERVIEWER'S INSTRUCTION:** It is important that you and the Producer complete this questionnaire for the **same sites** for which NASS completed the Large Enterprise Survey (LES). **Before** your visit, check to make sure that you have the right site.

1. Of the total pigs on hand **today**, how many are: (Enter **Zero** if None)

| | | | Head |
|---|---|---|---|
| a. | Sows, unmated replacement gilts and bred gilts in the breeding herd? | | v100 |
| b. | Unmated replacement gilts for breeding <u>not yet in the breeding herd</u>, such as those in a Gilt Development unit? | + | v101 |
| c. | Nursing pigs? | + | v102 |
| d. | Boars and young males for breeding, including teaser boars? | + | v103 |
| e. | Cull sows, gilts and boars? | + | v104 |
| f. | Weaned hogs under 60 pounds? | + | v105 |
| g. | Market hogs 60 pounds and over, **excluding cull sows, gilts and boars**? | + | v106 |
| h. | Then the total number of pigs on hand **today** is: | = | v107 |

**Note: If the Interviewee has electronic or paper records that would assist this process, ask him/her to bring them out now.**

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

# Section 2—Sows and Breeding-age Gilts

1. Between **December 1, 2020** and **May 31, 2021**:

   a. Did any sows or gilts farrow? ..... v200 ☐1 Yes ☐3 No

   b. Were any sows or gilts bred? ..... v201 ☐1 Yes ☐3 No

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

**Note: All questions in this section except Item 7 refer to the time period between December 1, 2020 and May 31, 2021**

2. Were the following disease problems present in breeding females? *(DK = Don't know)*

| | | | | | |
|---|---|---|---|---|---|
| a. | APP (*Actinobacillus pleuropneumoniae*) | v202 | ☐1 Yes | ☐3 No | ☐4 DK |
| b. | Erysipelas | v203 | ☐1 Yes | ☐3 No | ☐4 DK |
| c. | Gastric ulcers | v204 | ☐1 Yes | ☐3 No | ☐4 DK |
| d. | Glasser's disease (*Haemophilus parasuis*) | v205 | ☐1 Yes | ☐3 No | ☐4 DK |
| e. | Ileitis/ Proliferative enteritis (*Lawsonia intracellularis*) | v206 | ☐1 Yes | ☐3 No | ☐4 DK |
| f. | Influenza | v207 | ☐1 Yes | ☐3 No | ☐4 DK |
| g. | Leptospirosis | v208 | ☐1 Yes | ☐3 No | ☐4 DK |
| h. | Lice | v209 | ☐1 Yes | ☐3 No | ☐4 DK |
| i. | Mange | v210 | ☐1 Yes | ☐3 No | ☐4 DK |
| j. | *Mycoplasma* pneumonia | v211 | ☐1 Yes | ☐3 No | ☐4 DK |
| k. | Parvovirus | v212 | ☐1 Yes | ☐3 No | ☐4 DK |
| l. | Porcine circovirus 2 (PCVAD, formerly known as PMWS) | v213 | ☐1 Yes | ☐3 No | ☐4 DK |
| m. | Porcine deltacoronavirus (PDCoV) | v214 | ☐1 Yes | ☐3 No | ☐4 DK |
| n. | Porcine epidemic diarrhea (PED) | v215 | ☐1 Yes | ☐3 No | ☐4 DK |
| o. | PRRS (porcine reproductive and respiratory syndrome) | v216 | ☐1 Yes | ☐3 No | ☐4 DK |
| p. | Roundworms | v217 | ☐1 Yes | ☐3 No | ☐4 DK |
| q. | *Salmonella* | v218 | ☐1 Yes | ☐3 No | ☐4 DK |
| r. | Seneca Valley Virus (SVV or SVA) | v219 | ☐1 Yes | ☐3 No | ☐4 DK |
| s. | Swine dysentery | v220 | ☐1 Yes | ☐3 No | ☐4 DK |
| t. | TGE (transmissible gastroenteritis) | v221 | ☐1 Yes | ☐3 No | ☐4 DK |
| u. | Other disease problems (Specify:_____) v222oth... | v222 | ☐1 Yes | ☐3 No | ☐4 DK |

3. *(Show vaccine list to respondent.)* Were breeding females on this site vaccinated (including prior to their arrival on this site) against the following diseases?

| | | | | | |
|---|---|---|---|---|---|
| a. | APP (*Actinobacillus pleuropneumoniae*) | v223 | ☐1 Yes | ☐3 No | ☐4 DK |
| b. | *Actinobacillus suis* (autogenous) | v224 | ☐1 Yes | ☐3 No | ☐4 DK |
| c. | Atrophic rhinitis (*Bordatella/Pasteurella*) | v225 | ☐1 Yes | ☐3 No | ☐4 DK |
| d. | *Clostridium difficile* (autogenous) | v226 | ☐1 Yes | ☐3 No | ☐4 DK |
| e. | *Clostridium perfringens* Type A | v227 | ☐1 Yes | ☐3 No | ☐4 DK |
| f. | *Clostridium perfringens* Types C or D | v228 | ☐1 Yes | ☐3 No | ☐4 DK |
| g. | Erysipelas | v229 | ☐1 Yes | ☐3 No | ☐4 DK |
| h. | E. coli (K88, K99, 987P, F41) | v230 | ☐1 Yes | ☐3 No | ☐4 DK |
| i. | Glasser's disease (*Haemophilus parasuis*) | v231 | ☐1 Yes | ☐3 No | ☐4 DK |
| j. | Ileitis/Proliferative enteritis (*Lawsonia intracellularis*) | v232 | ☐1 Yes | ☐3 No | ☐4 DK |
| k. | Influenza | v233 | ☐1 Yes | ☐3 No | ☐4 DK |
| l. | Leptospirosis | v234 | ☐1 Yes | ☐3 No | ☐4 DK |
| m. | *Mycoplasma hyopneumoniae* | v235 | ☐1 Yes | ☐3 No | ☐4 DK |
| n. | Parvovirus | v236 | ☐1 Yes | ☐3 No | ☐4 DK |
| o. | Porcine circovirus 2 | v237 | ☐1 Yes | ☐3 No | ☐4 DK |
| p. | PRRS | v238 | ☐1 Yes | ☐3 No | ☐4 DK |
| q. | Porcine epidemic diarrhea | v239 | ☐1 Yes | ☐3 No | ☐4 DK |
| r. | Rotavirus | v240 | ☐1 Yes | ☐3 No | ☐4 DK |

3. *(continued)*

s. *Salmonella* ..... v241 ☐1 Yes ☐3 No ☐4 DK

t. *Streptococcus suis* ..... v242 ☐1 Yes ☐3 No ☐4 DK

u. TGE (transmissible gastroenteritis) ..... v243 ☐1 Yes ☐3 No ☐4 DK

v. Other vaccinations (Specify: _____) v244oth . v244 ☐1 Yes ☐3 No ☐4 DK

**[If Item 3p (PRRS vaccination) = No or Don't Know, SKIP to Item 6.]**

4. Were breeding females usually vaccinated against PRRS during the following time periods?

a. Prior to entering the breeding herd (i.e., as young pigs) ..... v245 ☐1 Yes ☐3 No ☐4 DK

b. As gilts at time of entering the **breeding** herd ..... v246 ☐1 Yes ☐3 No ☐4 DK

c. During gestation up to 4 weeks *before* farrowing ..... v247 ☐1 Yes ☐3 No ☐4 DK

d. During the **last** 4 weeks of gestation ..... v248 ☐1 Yes ☐3 No ☐4 DK

e. From farrowing to weaning ..... v249 ☐1 Yes ☐3 No ☐4 DK

f. After weaning through breeding/mating ..... v250 ☐1 Yes ☐3 No ☐4 DK

g. At regular intervals, regardless of reproductive stage ..... v251 ☐1 Yes ☐3 No ☐4 DK

h. In response to a PRRS outbreak (i.e., whole herd exposure via vaccination) .. v252 ☐1 Yes ☐3 No ☐4 DK

**[If all Items 4b-4h = No or Don't Know, SKIP to Item 6.]**

5. Were the following types of PRRS vaccines used in **breeding females**?

a. Commercial modified live PRRS vaccine *(Show vaccine list to respondent.)* .. v253 ☐1 Yes ☐3 No ☐4 DK

b. Autogenous PRRS vaccine (killed) ..... v254 ☐1 Yes ☐3 No ☐4 DK

6. Were **any** of the following measures taken **specifically** to control, eliminate or keep out PRRS in breeding females on this site? *(Check **all** that apply. Check **No** if measure is taken but **not** specifically to control/eliminate PRRS.)*

a. Expose replacement gilts via infected animals ..... v255 ☐1 Yes ☐3 No ☐4 DK

b. Expose replacement gilts via feedback of tissues from infected animals ..... v256 ☐1 Yes ☐3 No ☐4 DK

c. Expose replacement gilts via live virus inoculation (LVI) using serum from infected animals ..... v257 ☐1 Yes ☐3 No ☐4 DK

d. Expose breeding herd via live virus inoculation (LVI) using serum

v258 ☐1 Yes ☐3 No ☐4 DK

e. Segregate gilts from breeding herd (parity segregation) so that they enter the sow herd after weaning their first litter ..... v259 ☐1 Yes ☐3 No ☐4 DK

f. Depopulate whole herd ..... v260 ☐1 Yes ☐3 No ☐4 DK

g. Temporarily cease introduction of replacement gilts (roll-over; herd closure) . v261 ☐1 Yes ☐3 No ☐4 DK

**If Yes:**

i. For how many weeks were introductions interrupted? ..... v262 _____ weeks

ii. Was an off-site breeding project used? ..... v263 ☐1 Yes ☐3 No ☐4 DK

h. Introduce PRRS-negative replacement gilts ..... v264 ☐1 Yes ☐3 No ☐4 DK

i. Introduce PRRS-positive replacement gilts (exposed, recovered, immune and non-shedding) ..... v265 ☐1 Yes ☐3 No ☐4 DK

j. Use semen only from boars that are PRRS negative and monitored ..... v266 ☐1 Yes ☐3 No ☐4 DK

k. Use air filtration system ..... v267 ☐1 Yes ☐3 No ☐4 DK

l. Other measures **not** including vaccination (Specify: _____) v268oth v268 ☐1 Yes ☐3 No ☐4 DK

| Item 7-Codes for PRRS Herd Status Category | |
|---|---|
| 1 – Unknown or unsure | 4 – Positive stable undergoing elimination |
| 2 – Positive unstable | 5 – Provisional negative |
| 3 – Positive stable | 6 – Negative |

7. What is the PRRS status of the breeding herd? *(Use the **PRRS Status Decision Chart sheet** to identify the PRRS status of the breeding herd and then enter corresponding status code from list above.)* v269 _____ **code**

**[If Item 3k (Influenza vaccination) = No or Don't Know, SKIP to Item 10.]**

8. Were breeding females usually vaccinated against influenza during the following time periods?

| | | | | | |
|---|---|---|---|---|---|
| a. | Prior to entering the breeding herd (i.e., as young pigs) | v270 | ☐1 Yes | ☐3 No | ☐4 DK |
| b. | As gilts at time of entering the **breeding** herd | v271 | ☐1 Yes | ☐3 No | ☐4 DK |
| c. | During gestation up to 4 weeks **before** farrowing | v272 | ☐1 Yes | ☐3 No | ☐4 DK |
| d. | During the **last** 4 weeks of gestation | v273 | ☐1 Yes | ☐3 No | ☐4 DK |
| e. | From farrowing to weaning | v274 | ☐1 Yes | ☐3 No | ☐4 DK |
| f. | After weaning through breeding/mating | v275 | ☐1 Yes | ☐3 No | ☐4 DK |
| g. | At regular intervals, regardless of reproductive stage | v276 | ☐1 Yes | ☐3 No | ☐4 DK |

**[If all Items 8b-8g = No or Don't Know, SKIP to Item 10.]**

9. Were the following types of influenza vaccines used in **breeding females**?

| | | | | | |
|---|---|---|---|---|---|
| a. | Commercial influenza vaccine (killed) *(Show vaccine list to respondent.)* | v277 | ☐1 Yes | ☐3 No | ☐4 DK |
| b. | Autogenous influenza vaccine (killed) | v278 | ☐1 Yes | ☐3 No | ☐4 DK |
| c. | Modified Live influenza vaccine *(Show vaccine list to respondent.)* | v279 | ☐1 Yes | ☐3 No | ☐4 DK |

10. Were any breeding females given antibiotics to **treat** disease conditions between **December 1, 2020** and **May 31, 2021**? (*Answer NA if no disease in breeding females.*)

v280 ☐1 Yes ☐2 NA ☐3 No

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11. Were the following disease problems present in **preweaned** (nursing) pigs?

| | | | | | |
|---|---|---|---|---|---|
| a. | *Clostridium* | v281 | ☐1 Yes | ☐3 No | ☐4 DK |
| b. | Coccidiosis | v282 | ☐1 Yes | ☐3 No | ☐4 DK |
| c. | *E. coli* (colibacillosis) | v283 | ☐1 Yes | ☐3 No | ☐4 DK |
| d. | Greasy pig disease (*Staph. hyicus*) | v284 | ☐1 Yes | ☐3 No | ☐4 DK |
| e. | Influenza | v285 | ☐1 Yes | ☐3 No | ☐4 DK |
| f. | Navel infections (perhaps with swollen joints) | v286 | ☐1 Yes | ☐3 No | ☐4 DK |
| g. | Porcine deltacoronavirus (PDCoV) | v287 | ☐1 Yes | ☐3 No | ☐4 DK |
| h. | Porcine epidemic diarrhea (PED) | v288 | ☐1 Yes | ☐3 No | ☐4 DK |
| i. | PRRS | v289 | ☐1 Yes | ☐3 No | ☐4 DK |
| j. | Rotavirus | v290 | ☐1 Yes | ☐3 No | ☐4 DK |
| k. | *Salmonella* | v291 | ☐1 Yes | ☐3 No | ☐4 DK |
| l. | Seneca Valley Virus (SVV or SVA) | v292 | ☐1 Yes | ☐3 No | ☐4 DK |
| m. | *Strep. suis* (meningitis, polyserositis, arthritis) | v293 | ☐1 Yes | ☐3 No | ☐4 DK |
| n. | TGE (transmissible gastroenteritis) | v294 | ☐1 Yes | ☐3 No | ☐4 DK |
| o. | Undifferentiated pneumonia | v295 | ☐1 Yes | ☐3 No | ☐4 DK |
| p. | Other disease problems in preweaned pigs (Specify: _____) | v296oth v296 | ☐1 Yes | ☐3 No | ☐4 DK |

# Section 3—Nursery Aged Pigs

**Note: Nursery Aged pigs are the age between weaning and approximately 60 pounds, or until switched to a Grower/Finisher type diet or switched to being managed as Grower/Finishers or moved to a specific Grower/Finisher facility to raise to market weight.**

1. Between **December 1, 2020** and **May 31, 2021**, did this site raise weaned pigs? ..... v300 ☐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)? ..... v301 ☐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 ..... v302 ☐1

   b. A Wean-to-Finish facility ..... v303 ☐1

**Note: All questions in this section refer to the time period between December 1, 2020 and May 31, 2021 UNLESS otherwise specified (Items 7-14 and Item 19).**

4. Were the following disease problems present in **nursery aged** pigs? *(DK = Don't know)*

| | | | | | |
|---|---|---|---|---|---|
| a. | APP (Actinobacillus pleuropneumoniae) ..... | v304 | ☐1 Yes | ☐3 No | ☐4 DK |
| b. | *E.coli* diarrhea ..... | v305 | 1 Yes | 3 No | 4 DK |
| c. | Edema disease (*E.coli* enterotoxemia) ..... | v306 | ☐1 Yes | ☐3 No | ☐4 DK |
| d. | Glasser's disease (*Haemophilus parasuis*) ..... | v307 | 1 Yes | 3 No | 4 DK |
| e. | Greasy pig disease (*Staph.hyicus*) ..... | v308 | ☐1 Yes | ☐3 No | ☐4 DK |
| f. | Influenza ..... | v309 | 1 Yes | 3 No | 4 DK |
| g. | Lice ..... | v310 | ☐1 Yes | ☐3 No | ☐4 DK |
| h. | Mange ..... | v311 | 1 Yes | 3 No | 4 DK |
| i. | *Mycoplasma* pneumonia ..... | v312 | ☐1 Yes | ☐3 No | ☐4 DK |
| j. | Porcine circovirus 2 (PCVAD, formerly known as PMWS) ..... | v313 | 1 Yes | 3 No | 4 DK |
| k. | Porcine deltacoronavirus (PDCoV) ..... | v314 | ☐1 Yes | ☐3 No | ☐4 DK |
| l. | Porcine dermatitis and nephropathy syndrome (PDNS) ..... | v315 | 1 Yes | 3 No | 4 DK |
| m. | Porcine epidemic diarrhea (PED) ..... | v316 | ☐1 Yes | ☐3 No | ☐4 DK |
| n. | PRRS (porcine reproductive and respiratory syndrome) ..... | v317 | ☐1 Yes | ☐3 No | ☐4 DK |
| o. | Roundworms ..... | v318 | ☐1 Yes | ☐3 No | ☐4 DK |
| p. | *Salmonella* ..... | v319 | 1 Yes | 3 No | 4 DK |
| q. | Seneca Valley Virus (SVV or SVA) ..... | v320 | ☐1 Yes | ☐3 No | ☐4 DK |
| r. | *Strep. suis* (Strep. meningitis) ..... | v321 | 1 Yes | 3 No | 4 DK |
| s. | Swine dysentery ..... | v322 | ☐1 Yes | ☐3 No | ☐4 DK |
| t. | TGE (transmissible gastroenteritis) ..... | v323 | 1 Yes | 3 No | 4 DK |
| u. | Other disease problems (Specify:_____) ..... v324oth | v324 | ☐1 Yes | ☐3 No | ☐4 DK |

5. *(Show vaccine list to respondent.)* Were **nursery aged** pigs on this site vaccinated against the following diseases?

| | | | | | |
|---|---|---|---|---|---|
| a. | APP (*Actinobacillus pleuropneumoniae*) ..... | v325 | ☐1 Yes | ☐3 No | ☐4 DK |
| b. | *Actinobacillus suis* (autogenous) ..... | v326 | 1 Yes | 3 No | 4 DK |
| c. | Atrophic rhinitis (*Bordatella/Pasteurella*) ..... | v327 | ☐1 Yes | ☐3 No | ☐4 DK |
| d. | *Clostridium difficile* (autogenous) ..... | v328 | 1 Yes | 3 No | 4 DK |
| e. | *Clostridium perfringens* Type A ..... | v329 | ☐1 Yes | ☐3 No | ☐4 DK |
| f. | *Clostridium perfringens* Types C or D ..... | v330 | 1 Yes | 3 No | 4 DK |
| g. | Erysipelas ..... | v331 | ☐1 Yes | ☐3 No | ☐4 DK |

5. *(continued)*

| | | | | |
|---|---|---|---|---|
| h. | *E. coli* (K88, K99, 987P, F41) | v332 ☐1 Yes | ☐3 No | ☐4 DK |
| i. | Glasser's disease (*Haemophilus parasuis*) | v333 ☐1 Yes | ☐3 No | ☐4 DK |
| j. | Ileitis (*Lawsonia intracellularis*) | v334 ☐1 Yes | ☐3 No | ☐4 DK |
| k. | Influenza | v335 ☐1 Yes | ☐3 No | ☐4 DK |
| l. | Leptospirosis | v336 ☐1 Yes | ☐3 No | ☐4 DK |
| m. | *Mycoplasma hyopneumoniae* | v337 ☐1 Yes | ☐3 No | ☐4 DK |
| n. | Porcine circovirus 2 | v338 ☐1 Yes | ☐3 No | ☐4 DK |
| o. | PRRS | v339 ☐1 Yes | ☐3 No | ☐4 DK |
| p. | Porcine epidemic diarrhea | v340 ☐1 Yes | ☐3 No | ☐4 DK |
| q. | Rotavirus | v341 ☐1 Yes | ☐3 No | ☐4 DK |
| r. | *Salmonella* | v342 ☐1 Yes | ☐3 No | ☐4 DK |
| s. | *Streptococcus suis* | v343 ☐1 Yes | ☐3 No | ☐4 DK |
| t. | TGE (transmissible gastroenteritis) | v344 ☐1 Yes | ☐3 No | ☐4 DK |
| u. | Other vaccinations (Specify: _____) v345oth..... | v345 ☐1 Yes | ☐3 No | ☐4 DK |

**[If Item 5k = No or Don't Know, SKIP to Item 7.]**

6. Were the following types of influenza vaccines used in **nursery aged** pigs?

| | | | | |
|---|---|---|---|---|
| a. | Commercial influenza vaccine (killed) *(Show vaccine list to respondent.)* | v346 ☐1 Yes | ☐3 No | ☐4 DK |
| b. | Autogenous influenza vaccine (killed) | v347 ☐1 Yes | ☐3 No | ☐4 DK |
| c. | Modified Live influenza vaccine *(Show vaccine list to respondent.)* | v348 ☐1 Yes | ☐3 No | ☐4 DK |

| **Item 7-Action Codes** | |
|---|---|
| 1 – Have not had clinical respiratory disease in nursery aged pigs during last 12 months | 4 – Treated all pigs in same pen with clinically ill pigs with antibiotics |
| 2 – Did not treat any pigs with antibiotics | 5 – Treated all pigs in same pen and pens adjacent to clinically ill pigs with antibiotics |
| 3 – Treated only clinically ill pigs with antibiotics | 6 – Treated all pigs in entire room with clinically ill pigs with antibiotics (all pigs with shared airspace) |

7. For the **most recent** occurrence of a respiratory disease outbreak in **nursery aged** pigs, which option from the code list above best describes the action taken? *(Enter **one** code only from list above. Antibiotics can be given in water/feed or by injection.)* ..... v349 _____ code

8. During the last **6** months, approximately how many **weaned pigs** were fed and managed as **nursery aged** pigs? ..... v350_____ head

9. During the last 6 months, were any medications given by **injection** to **nursery aged** pigs?
.....v351 ☐1 Yes ☐3 No ☐4 DK

**[If Item 9 = No or Don't Know, SKIP to Item 11.]**

| Item 10-Primary Reason Codes | |
|---|---|
| 1 – Disease prevention or control | 4 – Polyserositis/meningitis treatment |
| 2 – Respiratory disease treatment | 5 – Parasite treatment/deworming |
| 3 – Enteric (intestinal or GI) disease treatment | 6 – Other treatment<br>(Specify: _____) v351aoth<br>(Specify: _____) v351both |

10. *(Show medication list to respondent.)* For any medications given by **injection** in the last 6 months to **nursery aged** pigs, enter the **primary** reason given *(enter one code only from list above)* and the **approximate number of nursery aged** pigs that received injected medication in the 6 month period.

| | Active ingredient | Trade name (example) | | Primary reason code | Number of nursery aged pigs treated |
|---|---|---|---|---|---|
| a. | Ampicillin | Polyflex | v352/a | | |
| b. | Amoxicillin | Amoxi-Inject | v353/a | | |
| c. | Ceftiofur | Excenel; Naxcel; Excede | v354/a | | |
| d. | Enrofloxacin | Baytril 100, Enroflox® 100 | v355/a | | |
| e. | Erythromycin | Erythro | v356/a | | |
| f. | Florfenicol | Nuflor | v357/a | | |
| g. | Gentamicin | Garacin | v358/a | | |
| h. | Lincomycin | Lincocin | v359/a | | |
| i. | Oxytetracycline | LA200; Oxtyet; Biomycin | v360/a | | |
| j. | Penicillin benzathine | BP48, long-acting Pen | v361/a | | |
| k. | Procaine Penicillin G | Pen-G | v362/a | | |
| l. | Tulathromycin | Draxxin | v363/a | | |
| m. | Tylosin | Tylan | v364/a | | |
| n. | Dexamethasone | Glucortin-20 | v365/a | | |
| o. | Doramectin | Dectomax | v366/a | | |
| p. | Flunixin meglumine | Banamine S | v367/a | | |
| q. | Isoflupredone | Predef 2x | v368/a | | |
| r. | Ivermectin | Ivomec | v369/a | | |
| s. | Levamisole | Tramisol; Levasole | v370/a | | |
| t. | Vitamin A, D, E | | v371/a | | |
| u. | Other medications (Specify: _____) v372oth | | v372/a | | |

11. During the last 6 months, were any medications given by **water** to **nursery aged** pigs?

..... v373 ☐1 Yes ☐3 No ☐4 DK

**[If Item 11 = No or Don't Know, SKIP to Item 13.]**

| Item 12-Primary Reason Codes | |
|---|---|
| 1 – Disease prevention or control | 4 – Polyserositis/meningitis treatment |
| 2 – Respiratory disease treatment | |
| 3 – Enteric (intestinal or GI) disease treatment | 5 – Other treatment<br>(Specify: _____) v373aoth<br>(Specify: _____) v373both |

12. *(Show medication list to respondent.)* For any medications given by **water** in the last 6 months to **nursery aged** pigs, enter the **primary** reason given *(enter one code only from list above)*, **total** number of **days** medication was given in the water and the **approximate percent of Item 8 pigs** medicated by water in the 6 month period.

| | Active ingredient | Trade name (example) | | Primary reason code | Total days in water per treated group | Percent of Item 8 pigs |
|---|---|---|---|---|---|---|
| a. | Amoxicillin | | v374/a/b | | | |
| b. | Bacitracin Methylene Disalicylate | BMD® soluble, Solutracin | v375/a/b | | | |
| c. | Bacitracin zinc | Baciferm® soluble | v376/a/b | | | |
| d. | Chlortetracycline | Aureomycin soluble powder | v377/a/b | | | |
| e. | Chlortetracyline/ sulphamethazine | Chloronex® Sulmet® soluble powder | v378/a/b | | | |
| f. | Florfenicol | Florvio™ 2.3% concentration solution | v379/a/b | | | |
| g. | Gentamicin | Garacin® oral solution | v380/a/b | | | |
| h. | Lincomycin | LinxMed® soluble powder | v381/a/b | | | |
| i. | Lincomycin/Spectinomycin | L-S 50 Water soluble® powder | v382/a/b | | | |
| j. | Neomycin | Neosol, Neomix® soluble powder | v383/a/b | | | |
| k. | Oxytetracycline | Terramycin® soluble, Tetroxy® | v384/a/b | | | |
| l. | Penicillin G Potassium | PenAqua Sol G®, Solu-Pen | v385/a/b | | | |
| m. | Spectinomycin | Spectam®, Spectogard Scour-Chek™ | v386/a/b | | | |
| n. | Sulfachlorpyridazine | Vetisulid®, Prinzone oral suspension | v387/a/b | | | |
| o. | Sulfadimethoxine | Albon® oral suspension, Agribon soluble powder | v388/a/b | | | |
| p. | Sulfamethazine | Sulmet®, Purina® sulfa | v389/a/b | | | |
| q. | Sulfaquinoxaline | S.Q. 20% Solution, Sul-Q-Nox | v390/a/b | | | |
| r. | Tetracycline | Tet-Sol® 324, Duramycin-10 | v391/a/b | | | |
| s. | Tiamulin | Denagard® liquid concentrate | v392/a/b | | | |
| t. | Tilmicosin | Pulmotil® AC | v393/a/b | | | |
| u. | Trimethoprim/Sulfadiazine | TMP/Sulfa, Tribrissen | v394/a/b | | | |
| v. | Tylosin | Tylan® soluble, Tylovet® soluble | v395/a/b | | | |
| w. | Tylvalosin | Aivlosin® | v396/a/b | | | |
| x. | Salicylic Acid | Aspirin | v397/a/b | | | |
| y. | Other medications (Specify: _____) v398oth | | v398/a/b | | | |

13. During the last 6 months, were any medications given by **feed** to **nursery aged** pigs?

.....v399 ☐1 Yes ☐3 No ☐4 DK

**[If Item 13 = No or Don't Know, SKIP to Item 15.]**

| Item 14-Primary Reason Codes | |
|---|---|
| 1 – Growth promotion | 5 – Parasite treatment/deworming |
| 2 – Disease prevention or control | |
| 3 – Respiratory disease treatment | 6 – Other treatment (Specify:_____) v399aoth (Specify:_____) v399both |
| 4 – Enteric (intestinal or GI) disease treatment | |

14. *(Show medication list to respondent.)* For any medications given by **feed** during the last 6 months to **nursery aged** pigs, enter the **primary** reason given *(enter one code only from list above)*, **average starting age** (in weeks since birth) of pigs when medications began, **total** number of **days** medication was given in the feed and **approximate percent of Item 8 pigs** medicated by feed in the 6 month period.

| | Active ingredient | Trade name (example) | | Primary reason code | Average starting age (weeks) | Total days in feed per treated group | Percent of Item 8 pigs |
|---|---|---|---|---|---|---|---|
| a. | Avilamycin | Kavault® | v3000/a/b/c | | | | |
| b. | Bacitracin Methylene Disalicylate | BMD® | v3001/a/b/c | | | | |
| c. | BMD/Chlortetracycline | BMD®/Aureomycin® | v3002/a/b/c | | | | |
| d. | Bacitracin Zinc | Albac®, Baciferm® | v3003/a/b/c | | | | |
| e. | Bambermycin | Flavomycin® | v3004/a/b/c | | | | |
| f. | Carbadox | Mecadox® | v3005/a/b/c | | | | |
| g. | Carbadox/Oxytetracycline | Terramycin® | v3006/a/b/c | | | | |
| h. | Chlortetracycline | Aureomycin® | v3007/a/b/c | | | | |
| i. | Chlortetracycline/Sulfamethazine | Aureomix® S, Pennchlor S | v3008/a/b/c | | | | |
| j. | Chlortetracycline/Tiamulin | Denagard® Plus CTC® | v3009/a/b/c | | | | |
| k. | Florfenicol | Nuflor® | v3010/a/b/c | | | | |
| l. | Lincomycin | Lincomix® | v3011/a/b/c | | | | |
| m. | Narasin | Skycis® | v3012/a/b/c | | | | |
| n. | Neomycin/Terramycin | Neo-Oxy 100/100® | v3013/a/b/c | | | | |
| o. | Oxytetracycline | Terramycin®, OXTC® | v3014/a/b/c | | | | |
| p. | Tiamulin | Denagard® | v3015/a/b/c | | | | |
| q. | Tilmicosin | Pulmotil® 90 | v3016/a/b/c | | | | |
| r. | Tylosin | Tylan®, Tylovet® | v3017/a/b/c | | | | |
| s. | Tylosin/Sulfamethazine | Tylan® Sulfa-G | v3018/a/b/c | | | | |
| t. | Tylvalosin | Aivlosin® 17% | v3019/a/b/c | | | | |
| u. | Virginiamycin | Stafac® | v3020/a/b/c | | | | |
| v. | Fenbendazole | Safeguard | v3021/a/b/c | | | | |
| w. | Ivermectin | Ivomec | v3022a/b/c | | | | |
| x. | Pyrantel tartrate | Banmith | v3023a/b/c | | | | |
| y. | Zinc oxide | | v3024/a/b/c | | | | |
| z. | Other medications (Specify: _____) v3025oth | | v3025/a/b/c | | | | |

15. Were the following ingredients in any of the **nursery aged** pig diets and if **YES** were they imported into this country?

| | Ingredient | | Used? | Imported? |
|---|---|---|---|---|
| a. | Tallow (animal fat from cattle or sheep)…… | v3026/a | ☐1 Yes ☐3 No ☐4 DK | ☐1 Yes ☐3 No ☐4 DK |
| b. | Lard or choice white grease (pork fat)…….. | v3027/a | ☐1 Yes ☐3 No ☐4 DK | ☐1 Yes ☐3 No ☐4 DK |
| c. | Other animal fat (Specify: _____) | v3028/a/oth | ☐1 Yes ☐3 No ☐4 DK | ☐1 Yes ☐3 No ☐4 DK |
| d. | Soybean oil…… | v3029/a | ☐1 Yes ☐3 No ☐4 DK | ☐1 Yes ☐3 No ☐4 DK |
| e. | Corn oil…… | v3030/a | ☐1 Yes ☐3 No ☐4 DK | ☐1 Yes ☐3 No ☐4 DK |
| f. | Other vegetable fat (Specify: _____) | v3031/a/oth | ☐1 Yes ☐3 No ☐4 DK | ☐1 Yes ☐3 No ☐4 DK |
| g. | Molasses…… | v3032/a | ☐1 Yes ☐3 No ☐4 DK | ☐1 Yes ☐3 No ☐4 DK |
| h. | Spray dried plasma……..…… | v3033/a | ☐1 Yes ☐3 No ☐4 DK | ☐1 Yes ☐3 No ☐4 DK |
| i. | Blood meal, serum albumin, or other blood products……..... | v3034/a | ☐1 Yes ☐3 No ☐4 DK | ☐1 Yes ☐3 No ☐4 DK |
| j. | Mucosal products such as dried porcine soluble or PEP products……..……..… | v3035/a | ☐1 Yes ☐3 No ☐4 DK | ☐1 Yes ☐3 No ☐4 DK |
| k. | Fish meal…… | v3036/a | ☐1 Yes ☐3 No ☐4 DK | ☐1 Yes ☐3 No ☐4 DK |
| l. | Feather meal……..……..… | v3037/a | ☐1 Yes ☐3 No ☐4 DK | ☐1 Yes ☐3 No ☐4 DK |
| m. | Meat meal or meat-and-bone meal…… | v3038/a | ☐1 Yes ☐3 No ☐4 DK | ☐1 Yes ☐3 No ☐4 DK |
| n. | Soybean meal or other vegetable protein source…… | v3039/a | ☐1 Yes ☐3 No ☐4 DK | ☐1 Yes ☐3 No ☐4 DK |
| o. | Other protein sources (Specify: _____) | v3040/a/oth | ☐1 Yes ☐3 No ☐4 DK | ☐1 Yes ☐3 No ☐4 DK |
| p. | Bakery/food manufacture byproducts (not table waste) ……..… | v3041/a | ☐1 Yes ☐3 No ☐4 DK | ☐1 Yes ☐3 No ☐4 DK |
| q. | Vitamin Mineral Mix…….. | v3042/a | ☐1 Yes ☐3 No ☐4 DK | ☐1 Yes ☐3 No ☐4 DK |
| r. | Distiller's dried grain and solubles (DDGS)..... | v3043/a | ☐1 Yes ☐3 No ☐4 DK | ☐1 Yes ☐3 No ☐4 DK |

i. If **Yes**, what is the average percentage of DDGS in the diet?.....v3044 _____%

16. How many different rations were routinely fed to **nursery aged** pigs? ..... v3045 _____ rations

17. How many of the different rations fed routinely to **nursery aged** pigs were: (Enter **Zero** if **None** in a category)
    a. Meal/mash? .....v3046 _____ rations
    b. Pellet?.....v3047 _____ rations
    c. Liquid? ..... v3048 _____ rations
    d. Other? (Specify: _____) v3049oth.....v3049 _____ rations
    e. Total rations (*should equal answer to Item 16*) .....v3050 _____ rations

18. On average, what was the total amount of feed (on an as-fed basis) a pig consumed as a **nursery aged** pig? ..... v3051 _____ lb/pig

19. During the last **6** months, how many shipments of **nursery aged** pigs left this site to go to the following destinations? For each shipment indicate the distance and state characteristics.

| | Destination | | Number of shipments | Distance to closest destination (miles) | Distance to farthest destination (miles) | Number of shipments that crossed State lines | If shipped out of State, destination State(s) (2 letter code) |
|---|---|---|---|---|---|---|---|
| a. | Grower/finisher site | v3052/a/b/c/d | | | | | |
| b. | Slaughter plant | v3053/a/b/c/d | | | | | |
| c. | Auction/livestock market | v3054/a/b/c/d | | | | | |
| d. | Other (Specify: _____) v3055oth | v3055/a/b/c/d | | | | | |

# Section 4—Grower/finisher Aged Pigs

**Note: Grower/Finisher Aged pigs can weigh approximately 60 lbs. and market weight. Nursery aged pigs become Grower/Finisher Aged when switched to a Grower/Finisher type diet or when managed as Grower/Finishers or when moved to a specific Grower/Finisher facility to raise to market weight.**

1. Between **December 1, 2020** and **May 31, 2021**, did this site raise **grower/finisher aged** pigs?
   ..... v400 ☐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 the **grower/finisher aged** pigs? (**Check one box below only (2a** or **2b)**)

   a. A Grower/Finisher facility ..... v401 ☐1

   b. A Wean-to-Finish facility ..... v402 ☐1

**Note: All questions in this section refer to the time period between December 1, 2020 and May 31, 2021 UNLESS otherwise specified (Items 6-13 and Item 18).**

3. Were the following disease problems present in **grower/finisher aged** pigs? *(DK = Don't know)*

| | | | | | |
|---|---|---|---|---|---|
| a. | APP (*Actinobacillus pleuropneumoniae*) | v403 | ☐1 Yes | ☐3 No | ☐4 DK |
| b. | Atrophic rhinitis | v404 | 1 Yes | 3 No | 4 DK |
| c. | Erysipelas | v405 | ☐1 Yes | ☐3 No | ☐4 DK |
| d. | Gastric ulcers | v406 | 1 Yes | 3 No | 4 DK |
| e. | Glasser's disease (*Haemophilus parasuis*) | v407 | ☐1 Yes | ☐3 No | ☐4 DK |
| f. | Hemorrhagic bowel syndrome | v408 | 1 Yes | 3 No | 4 DK |
| g. | Ileitis (*Lawsonia intracellularis*) | v409 | ☐1 Yes | ☐3 No | ☐4 DK |
| h. | Influenza | v410 | 1 Yes | 3 No | 4 DK |
| i. | Lice | v411 | ☐1 Yes | ☐3 No | ☐4 DK |
| j. | Mange | v412 | 1 Yes | 3 No | 4 DK |
| k. | *Mycoplasma* pneumonia | v413 | ☐1 Yes | ☐3 No | ☐4 DK |
| l. | Porcine circovirus 2 (PCVAD, formerly known as PMWS) | v414 | 1 Yes | 3 No | 4 DK |
| m. | Porcine deltacoronavirus (PDCoV) | v415 | ☐1 Yes | ☐3 No | ☐4 DK |
| n. | Porcine dermatitis and nephropathy syndrome (PDNS) | v416 | 1 Yes | 3 No | 4 DK |
| o. | Porcine epidemic diarrhea (PED) | v417 | ☐1 Yes | ☐3 No | ☐4 DK |
| p. | PRRS (porcine reproductive and respiratory syndrome) | v418 | 1 Yes | 3 No | 4 DK |
| q. | Roundworms | v419 | ☐1 Yes | ☐3 No | ☐4 DK |
| r. | *Salmonella* | v420 | 1 Yes | 3 No | 4 DK |
| s. | Seneca Valley Virus (SVV or SVA) | v421 | ☐1 Yes | ☐3 No | ☐4 DK |
| t. | Swine dysentery | v422 | 1 Yes | 3 No | 4 DK |
| u. | Other disease problems (Specify:_____) v423oth | v423 | ☐1 Yes | ☐3 No | ☐4 DK |

4. *(Show vaccine list to respondent.)* Were **grower/finisher aged** pigs on this site vaccinated against the following diseases?

| | | | | | |
|---|---|---|---|---|---|
| a. | APP (*Actinobacillus pleuropneumoniae*) | v424 | ☐1 Yes | ☐3 No | ☐4 DK |
| b. | *Actinobacillus suis* (autogenous) | v425 | 1 Yes | 3 No | 4 DK |
| c. | Atrophic rhinitis (*Bordatella/Pasteurella*) | v426 | ☐1 Yes | ☐3 No | ☐4 DK |
| d. | *Clostridium difficile* (autogenous) | v427 | 1 Yes | 3 No | 4 DK |
| e. | *Clostridium perfringens* Type A | v428 | ☐1 Yes | ☐3 No | ☐4 DK |
| f. | *Clostridium perfringens* Types C or D | v429 | 1 Yes | 3 No | 4 DK |
| g. | Erysipelas | v430 | ☐1 Yes | ☐3 No | ☐4 DK |
| h. | *E. coli* (K88, K99, 987P, F41) | v431 | 1 Yes | 3 No | 4 DK |
| i. | Glasser's disease (*Haemophilus parasuis*) | v432 | ☐1 Yes | ☐3 No | ☐4 DK |
| j. | Ileitis (*Lawsonia intracellularis*) | v433 | 1 Yes | 3 No | 4 DK |

4. *(continued)*

| | | | | |
|---|---|---|---|---|
| k. Influenza | v434 ☐1 Yes | ☐3 No | ☐4 DK |
| l. Leptospirosis | v435 ☐1 Yes | ☐3 No | ☐4 DK |
| m. *Mycoplasma hyopneumoniae* | v436 ☐1 Yes | ☐3 No | ☐4 DK |
| n. Porcine circovirus 2 | v437 ☐1 Yes | ☐3 No | ☐4 DK |
| o. PRRS | v438 ☐1 Yes | ☐3 No | ☐4 DK |
| p. Porcine epidemic diarrhea | v439 ☐1 Yes | ☐3 No | ☐4 DK |
| q. *Salmonella* | v440 ☐1 Yes | ☐3 No | ☐4 DK |
| r. TGE (transmissible gastroenteritis) | v441 ☐1 Yes | ☐3 No | ☐4 DK |
| s. Other vaccinations (Specify: _____) v442oth .. | v442 ☐1 Yes | ☐3 No | ☐4 DK |

**[If Item 4k = No or Don't Know, SKIP to Item 6.]**

5. Were the following types of influenza vaccines used in **grower/finisher aged** pigs?

| | | | |
|---|---|---|---|
| a. Commercial influenza vaccine (killed) *(Show vaccine list to respondent.)* | v443 ☐1 Yes | ☐3 No | ☐4 DK |
| b. Autogenous influenza vaccine (killed) | v444 ☐1 Yes | ☐3 No | ☐4 DK |
| c. Modified Live influenza vaccine *(Show vaccine list to respondent.)* | v445 ☐1 Yes | ☐3 No | ☐4 DK |

| **Item 6-Action Codes** | |
|---|---|
| 1 – Have not had clinical respiratory disease in grower/finisher aged pigs during last 12 months | 4 – Treated all pigs in same pen with clinically ill pigs with antibiotics |
| 2 – Did not treat any pigs with antibiotics | 5 – Treated all pigs in same pen and pens adjacent to clinically ill pigs with antibiotics |
| 3 – Treated only clinically ill pigs with antibiotics | 6 – Treated all pigs in entire room with clinically ill pigs with antibiotics (all pigs with shared airspace) |

6. For the **most recent** occurrence of a respiratory disease outbreak in **grower/finisher aged** pigs which option from the code list above best describes the action taken? *(Enter one code only from list above. Antibiotics can be given in water/feed or by injection.)* ..... v446 _____ code

7. During the last **6** months, approximately how many **weaned pigs** were fed and managed as **grower/finisher aged** pigs? ..... V447_____ head

8. During the last 6 months, were any medications given by **injection** to **grower/finisher aged** pigs?

..... v448 ☐1 Yes ☐3 No ☐4 DK

**[If Item 8 = No or Don't Know, SKIP to Item 10.]**

| Item 9-Primary Reason Codes | |
|---|---|
| 1 – Disease prevention or control | 4 – Polyserositis/meningitis treatment |
| 2 – Respiratory disease treatment | 5 – Parasite treatment/deworming |
| 3 – Enteric (intestinal or GI) disease treatment | 6 – Other treatment<br>(Specify:_____) v448aoth<br>(Specify:_____) v448both |

9. *(Show medication list to respondent.)* For any medications given by **injection** in the last 6 months to **grower/finisher aged** pigs, enter the **primary** reason given *(enter one code only from list above)* and the **approximate number of grower/finisher aged** pigs that received injected medication in the 6 month period.

| | **Active ingredient** | **Trade name (example)** | | **Primary reason code** | **Number of grower/finisher aged pigs treated** |
|---|---|---|---|---|---|
| a. | Ampicillin | Polyflex | v449/a | | |
| b. | Amoxicillin | Amoxi-Inject | v450/a | | |
| c. | Ceftiofur | Excenel; Naxcel; Excede | v451/a | | |
| d. | Enrofloxacin | Baytril 100, Enroflox® 100 | v452/a | | |
| e. | Erythromycin | Erythro | v453/a | | |
| f. | Florfenicol | Nuflor | v454/a | | |
| g. | Gentamicin | Garacin | v455/a | | |
| h. | Lincomycin | Lincocin | v456/a | | |
| i. | Oxytetracycline | LA200; Oxtyet; Biomycin | v457/a | | |
| j. | Penicillin benzathine | BP48, long-acting Pen | v458/a | | |
| k. | Procaine Penicillin G | Pen-G | v459/a | | |
| l. | Tulathromycin | Draxxin | v460/a | | |
| m. | Tylosin | Tylan | v461/a | | |
| n. | Dexamethasone | Glucortin-20 | v462/a | | |
| o. | Doramectin | Dectomax | v463/a | | |
| p. | Flunixin meglumine | Banamine S | v464/a | | |
| q. | Isoflupredone | Predef 2x | v465/a | | |
| r. | Ivermectin | Ivomec | v466/a | | |
| s. | Levamisole | Tramisol; Levasole | v467/a | | |
| t. | Vitamin A, D, E | | v468/a | | |
| u. | Other medications (Specify: _____) v469oth | | v469/a | | |

10. During the last 6 months, were any medications given by **water** to **grower/finisher aged** pigs?

..... v470 ☐1 Yes ☐3 No ☐4 DK

**[If Item 10 = No or Don't Know, SKIP to Item 12.]**

| Item 11-Primary Reason Codes | |
|---|---|
| 1 – Disease prevention or control | 4 – Polyserositis/meningitis treatment |
| 2 – Respiratory disease treatment | |
| 3 – Enteric (intestinal or GI) disease treatment | 5 – Other treatment<br>(Specify: _____) v470aoth<br>(Specify: _____) v470both |

11. *(Show medication list to respondent.)* For any medications given by **water** in the last 6 months to **grower/ finisher aged** pigs, enter the **primary** reason given *(enter one code only from list above)*, **total** number of **days** medication was given in the water and the **approximate percent of Item 7 pigs** medicated by water in the 6 month period.

| | Active ingredient | Trade name (example) | | Primary reason code | Total days in water per treated group | Percent of Item 7 pigs |
|---|---|---|---|---|---|---|
| a. | Amoxicillin | | v471/a/b | | | |
| b. | Bacitracin Methylene Disalicylate | BMD® soluble, Solutracin | v472/a/b | | | |
| c. | Bacitracin zinc | Baciferm® soluble | v473/a/b | | | |
| d. | Chlortetracycline | Aureomycin soluble powder | v474/a/b | | | |
| e. | Chlortetracyline/ sulphamethazine | Chloronex® Sulmet® soluble powder | v475/a/b | | | |
| f. | Florfenicol | Florvio™ 2.3% concentration solution | v476/a/b | | | |
| g. | Gentamicin | Garacin® oral solution | v477/a/b | | | |
| h. | Lincomycin | LinxMed® soluble powder | v478/a/b | | | |
| i. | Lincomycin/Spectinomycin | L-S 50 Water soluble® powder | v479/a/b | | | |
| j. | Neomycin | Neosol, Neomix® soluble powder | v480/a/b | | | |
| k. | Oxytetracycline | Terramycin® soluble, Tetroxy® | v481/a/b | | | |
| l. | Penicillin G Potassium | PenAqua Sol G®, Solu-Pen | v482/a/b | | | |
| m. | Spectinomycin | Spectam®, Spectogard Scour-Chek™ | v483/a/b | | | |
| n. | Sulfachlorpyridazine | Vetisulid®, Prinzone oral suspension | v484/a/b | | | |
| o. | Sulfadimethoxine | Albon® oral suspension, Agribon soluble powder, | v485/a/b | | | |
| p. | Sulfamethazine | Sulmet®, Purina® sulfa | v486/a/b | | | |
| q. | Sulfaquinoxaline | S.Q. 20% Solution, Sul-Q-Nox | v487/a/b | | | |
| r. | Tetracycline | Tet-Sol® 324, Duramycin-10 | v488/a/b | | | |
| s. | Tiamulin | Denagard® liquid concentrate | v489/a/b | | | |
| t. | Tilmicosin | Pulmotil® AC | v490/a/b | | | |
| u. | Trimethoprim/Sulfadiazine | TMP/Sulfa, Tribrissen | v491/a/b | | | |
| v. | Tylosin | Tylan® soluble, Tylovet® soluble | v492/a/b | | | |
| w. | Tylvalosin | Aivlosin® | v493/a/b | | | |
| x. | Salicylic Acid | Aspirin | v494/a/b | | | |
| y. | Other medications (Specify: _____) v495oth | | v495/a/b | | | |

12. During the last 6 months, were any medications given by **feed** to **grower/finisher aged** pigs?

..... v496 ☐1 Yes ☐3 No ☐4 DK

**[If Item 12 = No or Don't Know, SKIP to Item 14.]**

| Item 13-Primary Reason Codes | |
|---|---|
| 1 – Growth promotion | 5 – Parasite treatment/deworming |
| 2 – Disease prevention or control | |
| 3 – Respiratory disease treatment | 6 – Other treatment (Specify: _____) v496aoth (Specify: _____) v496both |
| 4 – Enteric (intestinal or GI) disease treatment | |

13. *(Show medication list to respondent.)* For any medications given by **feed** during the last 6 months to **grower/finisher aged** pigs, enter the **primary** reason given *(enter one code only from list above)*, **average starting age** (in weeks since birth) of pigs when medications began, **total** number of **days** medication was given in the water **approximate percent of Item 7 pigs** medicated by feed in the 6 month period.

| | Active ingredient | Trade name (example) | | Primary reason code | Average starting age (weeks) | Total days in feed per treated group | Percent of Item 7 pigs |
|---|---|---|---|---|---|---|---|
| a. | Avilamycin | Kavault® | v497/a/b/c | | | | |
| b. | Bacitracin Methylene Disalicylate | BMD® | v498/a/b/c | | | | |
| c. | BMD/Chlortetracycline | BMD®/Aureomycin® | v499/a/b/c | | | | |
| d. | Bacitracin Zinc | Albac®, Baciferm® | v4000/a/b/c | | | | |
| e. | Bambermycin | Flavomycin® | v4001/a/b/c | | | | |
| f. | Carbadox | Mecadox® | v4002/a/b/c | | | | |
| g. | Carbadox/Oxytetracycline | Terramycin® | v4003/a/b/c | | | | |
| h. | Chlortetracycline | Aureomycin® | v4004/a/b/c | | | | |
| i. | Chlortetracycline/Sulfamethazine | Aureomix® S, Pennchlor S | v4005/a/b/c | | | | |
| j. | Chlortetracycline/Tiamulin | Denagard® Plus CTC® | v4006/a/b/c | | | | |
| k. | Florfenicol | Nuflor® | v4007/a/b/c | | | | |
| l. | Lincomycin | Lincomix® | v4008/a/b/c | | | | |
| m. | Narasin | Skycis® | v4009/a/b/c | | | | |
| n. | Neomycin/Terramycin | Neo-Oxy 100/100® | v4010/a/b/c | | | | |
| o. | Oxytetracycline | Terramycin®, OXTC® | v4011/a/b/c | | | | |
| p. | Tiamulin | Denagard® | v4012/a/b/c | | | | |
| q. | Tilmicosin | Pulmotil® 90 | v4013/a/b/c | | | | |
| r. | Tylosin | Tylan®, Tylovet® | v4014/a/b/c | | | | |
| s. | Tylosin/Sulfamethazine | Tylan® Sulfa-G | v4015/a/b/c | | | | |
| t. | Tylvalosin | Aivlosin® 17% | v4016/a/b/c | | | | |
| u. | Virginiamycin | Stafac® | v4017/a/b/c | | | | |
| v. | Fenbendazole | Safeguard | v4018/a/b/c | | | | |
| w. | Ivermectin | Ivomec | v4019/a/b/c | | | | |
| x. | Pyrantel tartrate | Banmith | v4020/a/b/c | | | | |
| y. | Ractopamine | Paylean | v4021/a/b/c | | | | |
| z. | Zinc oxide | | v4022/a/b/c | | | | |
| aa. | Other medications (Specify: _____) v4023oth | | v4023/a/b/c | | | | |

14. Were the following ingredients in any of the **grower/finisher age** pig diets and if **YES** were they imported into this country?

| | Ingredient | | Used? | Imported? |
|---|---|---|---|---|
| a. | Tallow (animal fat from cattle or sheep)…… | v4024/a | ☐1 Yes ☐3 No ☐4 DK | ☐1 Yes ☐3 No ☐4 DK |
| b. | Lard or choice white grease (pork fat)…….. | v4025/a | ☐1 Yes ☐3 No ☐4 DK | ☐1 Yes ☐3 No ☐4 DK |
| c. | Other animal fat (Specify: _____) | v4026/a/oth | ☐1 Yes ☐3 No ☐4 DK | ☐1 Yes ☐3 No ☐4 DK |
| d. | Soybean oil…… | v4027/a | ☐1 Yes ☐3 No ☐4 DK | ☐1 Yes ☐3 No ☐4 DK |
| e. | Corn oil…… | v4028/a | ☐1 Yes ☐3 No ☐4 DK | ☐1 Yes ☐3 No ☐4 DK |
| f. | Other vegetable fat (Specify: _____) | v4029/a/oth | ☐1 Yes ☐3 No ☐4 DK | ☐1 Yes ☐3 No ☐4 DK |
| g. | Molasses…… | v4030/a | ☐1 Yes ☐3 No ☐4 DK | ☐1 Yes ☐3 No ☐4 DK |
| h. | Spray dried plasma……..…… | v4031/a | ☐1 Yes ☐3 No ☐4 DK | ☐1 Yes ☐3 No ☐4 DK |
| i. | Blood meal, serum albumin, or other blood products……..... | v4032/a | ☐1 Yes ☐3 No ☐4 DK | ☐1 Yes ☐3 No ☐4 DK |
| j. | Mucosal products such as dried porcine soluble or PEP products……..…..…… | v4033/a | ☐1 Yes ☐3 No ☐4 DK | ☐1 Yes ☐3 No ☐4 DK |
| k. | Fish meal…… | v4034/a | ☐1 Yes ☐3 No ☐4 DK | ☐1 Yes ☐3 No ☐4 DK |
| l. | Feather meal……..…… | v4035/a | ☐1 Yes ☐3 No ☐4 DK | ☐1 Yes ☐3 No ☐4 DK |
| m. | Meat meal or meat-and-bone meal…… | v4036/a | ☐1 Yes ☐3 No ☐4 DK | ☐1 Yes ☐3 No ☐4 DK |
| n. | Soybean meal or other vegetable protein source…….. | v4037/a | ☐1 Yes ☐3 No ☐4 DK | ☐1 Yes ☐3 No ☐4 DK |
| o. | Other protein sources (Specify: _____) | v4038/a/oth | ☐1 Yes ☐3 No ☐4 DK | ☐1 Yes ☐3 No ☐4 DK |
| p. | Bakery/food manufacture byproducts (not table waste) ……..… | v4039a | ☐1 Yes ☐3 No ☐4 DK | ☐1 Yes ☐3 No ☐4 DK |
| q. | Vitamin Mineral Mix…….. | v4040/a | ☐1 Yes ☐3 No ☐4 DK | ☐1 Yes ☐3 No ☐4 DK |
| r. | Distiller's dried grain and solubles (DDGS)….. | v4041/a | ☐1 Yes ☐3 No ☐4 DK | ☐1 Yes ☐3 No ☐4 DK |

i. If **Yes**, what is the average percentage of DDGS in the diet?.....v4042 _____%

15. How many different rations were routinely fed to **grower/finisher aged** pigs? ..... v4043 _____ rations

16. How many of the different rations fed routinely to **grower/finisher aged** pigs were: (Enter **Zero** if **None** in a category)
    a. Meal/mash? .....v4044 _____ rations
    b. Pellet?.....v4045 _____ rations
    c. Liquid?.....v4046 _____ rations
    d. Other? (Specify: _____) v4047oth..... v4047 _____ rations
    e. Total rations (*should equal answer to Item 15*) ..... v4048 _____ rations

17. On average, what was the total amount of feed (on an as-fed basis) a pig consumed as a **grower/finisher aged** pig?.....v4049 _____ lb/pig

18. During the last **6** months, how many shipments of **grower/finisher aged** pigs left this site to go to the following destinations? For each shipment indicate the distance and state characteristics.

| | Destination | | Number of shipments | Distance to closest destination (miles) | Distance to farthest destination (miles) | Number of shipments that crossed State lines | If shipped out of State, destination State(s) (2 letter code) |
|---|---|---|---|---|---|---|---|
| a. | Slaughter as market hogs | v4050/a/b/c/d | | | | | |
| b. | Slaughter as culled pigs | v4051/a/b/c/d | | | | | |
| c. | Breeding herd at another site | v4052/a/b/c/d | | | | | |
| d. | Auction/livestock market | v4053/a/b/c/d | | | | | |
| e. | Other (Specify: _____) v4054oth | v4054/a/b/c/d | | | | | |

# Section 5—Site Demographics

1. In all the hog rearing facilities on this site today, what type of pigs live in each facility, how many pens are in that building and what is the approximate number of pigs in the building? (Check **all** that apply for each facility before filling in numbers.)

**Note: Each facility or singular structure may have different age groups within it. For example, if a site has 3 buildings, there may be sows, gilts and preweaned pigs in one facility, developing gilts in another and nursery/growers in the last. In this case only fill in the first three rows - Facility 1, 2 and 3.**

| Facility Number | | Types of Pigs | | | | | Number of Pens in Facility | Approximate Number of Pigs in Facility |
|---|---|---|---|---|---|---|---|---|
| | | Sows and gilts | Developing gilts | Preweaned pigs | Nursery aged pigs | Grower/ finisher aged pigs | | |
| 1 | v500/a/b/c/ d/e/f | ☐ 1 | ☐ 1 | ☐ 1 | ☐ 1 | ☐ 1 | | |
| 2 | v501/a/b/c/ d/e/f | ☐ 1 | ☐ 1 | ☐ 1 | ☐ 1 | ☐ 1 | | |
| 3 | v502/a/b/c/ d/e/f | ☐ 1 | ☐ 1 | ☐ 1 | ☐ 1 | ☐ 1 | | |
| 4 | v503/a/b/c/ d/e/f | ☐ 1 | ☐ 1 | ☐ 1 | ☐ 1 | ☐ 1 | | |
| 5 | v504/a/b/c/ d/e/f | ☐ 1 | ☐ 1 | ☐ 1 | ☐ 1 | ☐ 1 | | |
| 6 | v505/a/b/c/ d/e/f | ☐ 1 | ☐ 1 | ☐ 1 | ☐ 1 | ☐ 1 | | |
| 7 | v506/a/b/c/ d/e/f | ☐ 1 | ☐ 1 | ☐ 1 | ☐ 1 | ☐ 1 | | |
| 8 | v507/a/b/c/ d/e/f | ☐ 1 | ☐ 1 | ☐ 1 | ☐ 1 | ☐ 1 | | |
| 9 | v508/a/b/c/ d/e/f | ☐ 1 | ☐ 1 | ☐ 1 | ☐ 1 | ☐ 1 | | |
| 10 | v509/a/b/c/ d/e/f | ☐ 1 | ☐ 1 | ☐ 1 | ☐ 1 | ☐ 1 | | |

# Section 6—Office Use Only

| State FIPS: _____ | Operation #: _____ | Site #: _____ | Interviewer: _____ | Date: ____/____/____ |
|---|---|---|---|---|
| 2 digits | 4 digits | 2 digits | Initials | mm/dd/yy |

1. Total time for interview including time to discuss the program and complete the questionnaire. If more than one data collector present, enter the combined time. VITIME _____ min

2. Total travel time round-trip. If more than one data collector present, enter the combined travel time. VTTIME _____ min

3. Data collector(s) (Enter the number for each category.)
   _____ Federal VMO _____ Federal AHT VVMO/VAHT
   _____ State personnel _____ Other (Specify in margin) VST/VOTH

4. Enter response code 99 if questionnaire is completed or enter one code (00–07) that best describes the reason why the site contact is not participating VRCO _____ code

   99 = Survey completed
   00 = Inaccessible after 5 contact attempts
   01 = Poor time of year to contact or no time available to participate
   02 = Doesn't want anyone on operation
   03 = Bad experience with government veterinarian(s)
   04 = Doesn't want to do another survey or divulge information
   05 = Told NASS they didn't want to be contacted by VS
   06 = Ineligible (no longer in operation)
   07 = Other (explain in the comments section below)

5. Will oral fluid samples be taken? VORL ☐1 Yes ☐3 No

The Data Collector or a mutually agreed upon designate would collect 8 oral fluids collections from up to 8 pens containing 20 weeks and older Finisher pigs, to be tested for Senecavirus A (Seneca Valley Virus). The Producer would receive results about 2 months after collection. The remaining oral fluids (if any) would be stored in an oral fluids bank for future academic research into diseases of concern to the swine industry (e.g., coronavirus presence).

6. Will fecal samples be taken? VFEC ☐1 Yes ☐3 No

The NAHMS Agent or a mutually agreed upon designate would collect 30 fecal samples from up to 10 pens containing 20 weeks and older Finisher pigs and tested for Salmonella, Campylobacter, generic E. coli, and Enterococcus. The Producer will receive final results about 4 months after collection. These isolates obtained after testing will be stored for future academic research into areas of concern to the swine industry (e.g., genotypic markers of antimicrobial resistance).

7. Which of the following best describes interviewee's position with this site? VPOS ____ code
   1 = Independent producer/owner of operation
   2 = Farm manager/herdsman
   3 = Company Veterinarian
   4 = Private or Other Veterinarian
   5 = Other-include combination of respondents if applicable (Specify:_____) VPOSoth

8. Producer data quality VPDQ ☐1 Good ☐2 OK ☐3 Poor

9. Comments regarding this questionnaire or operation:

VMO or AHT Signature: _____

**TO BE COMPLETED BY COORDINATOR:**

10. Field data quality VFDQ ☐1 Good ☐2 OK ☐3 Poor

# Appendix—Confidentiality Pledge

**Background**

USDA's Animal and Plant Health Inspection Service (APHIS) is collecting information on swine health and stewardship through the National Animal Monitoring System (NAHMS). This information will be used to describe current swine health and stewardship practices, help policymakers and industry make informed decisions, assist researchers and private enterprise in identifying and focusing on vital issues related to swine management, and facilitate education of future producers and veterinarians. Participation is voluntary and you may decline to participate. Your participation is vital and will help APHIS develop swine health and management national estimates. We ask that you provide accurate information regarding your facility's swine health and management; however, you retain the right to refuse to answer any or all questions.

**Confidentiality**

APHIS pledges to keep the information you provide as part of this study confidential and will only use it for statistical purpose. According to the Confidential Information Protection provisions of Title V, Subtitle A, Public Law 107-347 (CIPSEA) and other applicable Federal laws, your responses will be kept confidential and will not be disclosed in identifiable form. For more information on how we protect your information please visit: https://www.aphis.usda.gov/animal_health/nahms/general/downloads/NAHMS_CIPSEA.pdf.

Your information's security is vitally important to APHIS. Only authorized APHIS employees or those acting on APHIS's behalf (NAHMS agents) will have access to your individual record data. By law to be an authorized APHIS employee or NAHMS agent, individuals must complete confidentiality training and a confidentiality form which stipulates the requirements for keeping data confidential and the penalties individuals are subject to if identifiable information is released. These, and that the individual is subject to a jail term of up to 5 years, a fine of up to $250,000, or both if he or she discloses ANY identifiable information about you or your establishment.

Every person working for or in cooperation with APHIS on this study has signed. Further, data are protected from cybersecurity threats. Under the Cybersecurity Enhancement Act of 2015, your data will be protected by US Department of Homeland Security (DHS) cybersecurity monitoring. In the event of a cybersecurity incident, and pursuant to any required legal processes, information from these sources may be used to help identify and mitigate the incident.

APHIS may publish, or authorize others to publish, the aggregate (summary) findings acquired from NAHMS for the benefit of the swine industry, allied private industries, and other interested groups, but will ensure that the identity of the producer is withheld. APHIS may not publish, or authorize others to publish, individual responses.

The NAHMS Agent will review this informed consent with you prior to asking for any information in this phase of the study. You are not required to participate in the study. APHIS will use the information you provide for statistical purposes only.

Please note that information on a producer's animals revealed from sources unrelated to this study, such as testing and inspection for movement or sale of animals or tracebacks on testing done at slaughter, may cause unrelated regulatory action. Additionally, if a NAHMS Agent conducting this interview on the Producer's premises observes an animal with signs suspicious of a dangerous, infectious, or exotic disease foreign to the United States (e.g., foot-and-mouth disease), he or she is required to report this disease to State authorities, in which case further investigation and possible action may occur which would potentially result in making your participation in a NAHMS study no longer protected. In the unlikely event of this occurrence, APHIS will continue to protect any of the information provided as part of this study. Again information collected by APHIS for a NAHMS study may only be used for statistical purposes.

You can obtain these reports and further information from this study by accessing the NAHMS Web site at: https://www.aphis.usda.gov/nahms

**Study Biologics – APHIS will safeguard as Confidential Business Information**
APHIS is providing fecal pathogen and oral fluids biologic testing to producers who complete the phase II questionnaire. This biologics portion of the study is not covered by CIPSEA and the confidentiality pledge does not apply. Even though the confidentiality pledge does not apply to the biologics portion of the study, APHIS recognizes that the materials you provide and the information generated from these are not regularly provide or shared with others and are considered by you to be private, confidential business information  APHIS will not disclose this information except when required by law. APHIS will not have any Personally Identifiable Information on any biologic forms or sample materials so samples cannot be traced to you or your operation. Individual testing result reports will only have your operations study ID and APHIS staff will mail these results directly to you. Finally, APHIS will not publish your operational level study biologics data, and only publish or authorize others to publish aggregated data from the biologics portion of this study.

**Biologic Sampling – Fecal Pathogens**
Producer consents and authorizes the NAHMS Agent or a mutually agreed upon designate to collect 30 fecal samples from up to 10 pens containing 20 weeks and older Finisher pigs. All samples will be tested for *Salmonella*. A subset of these samples will be tested for *Campylobacter*, generic *E coli* and *Enterococcus*. The Producer will receive results as a positive/negative and serotype or speciation and an antimicrobial sensitivity profile, usually within 4 months of collection. These isolates obtained after testing will be stored for future academic research into areas of concern to the swine industry (e.g., genotypic markers of antimicrobial resistance).

**Biologic Sampling – Oral Fluids**
Producer consents and authorizes the Data Collector or a mutually agreed upon designate to collect 8 oral fluids collections from up to 8 pens containing 20 weeks and older Finisher pigs. Samples will be tested for Senecavirus A (Seneca Valley Virus). Results will be provided to NAHMS and the Producer within 4 months of collection via logging in with the correct information at the testing lab website (to be provided at a later date). The remaining oral fluids left over after testing (if any) will be stored in an oral fluids bank for future academic research into diseases of concern to the swine industry (e.g., coronavirus presence).