Dear Veterinary Practitioner,

Thank you for agreeing to participate in the epidemiological investigation into the cause of the porcine epidemic diarrhea virus (PEDv) incursion into the U.S. swine herd. This investigation is designed to look for risk factors for PEDv infection in swine herds. This investigation will utilize a case-control study design where risk factors of infected herds (case herds) are compared to risk factors in non-infected herds (control herds). We are asking for your assistance in this study by completing the questionnaire as thoroughly as possible so that we have the best chance to identify the cause of PEDv incursion into infected herds. This questionnaire is not intended to look at transmission within or between herds; subsequent studies may have to be conducted to address that objective.

We are surveying herds that would be considered to have been primary cases of PEDv. Please complete a questionnaire for the FIRST site/herd diagnosed with PEDv of each production type (sow farm, nursery, wean-to finish, etc.) that you work with. If you are able to complete more than one questionnaire per production type, please fill out questionnaires on any other herds that broke at approximately the same time as your first herd, or the first herd within each production system you work with. Additionally, for each case questionnaire that you complete, please select a site/herd of the same production type that has NOT had clinical signs to serve as a control herd, and complete a questionnaire for that site/herd as well. Your case and control herds should be of similar size and in a similar geographical location.

If you are filling out a questionnaire for a nursery, wean-to-finish or finisher site/herd, please try to select sites where the timing of the infection at the site/herd indicate that it was a primary infection and NOT transmitted from the sow farm to this site. Ideally, we would prefer that these herds are not downstream from a known PEDv-infected sow farm, but we will gather and analyze that data if the disease break was at approximately the same time as the sow farm.

The questionnaire was designed by the USDA's Center for Epidemiology and Animal Health (CEAH) in cooperation with American Association of Swine Veterinarians, National Pork Board and National Pork Producers Council to help identify risk factors for infection. Questions about a variety of inputs are being asked in an attempt to identify risk factors common to infected herds. Some factors, such as herd size, may be confounders and need to be considered in the analysis of the data. If there are questions that you cannot answer, please indicate that on the form and complete the questions that you can answer. It is important to provide as much information as you can, since the more information we can collect, the greater the likelihood of identifying the cause.

When you complete and return your questionnaires, AASV staff will enter the data, which will be stored on the AASV server. The producers' names, addresses and premises IDs will be held in confidence. USDA's CEAH will be allowed access only to the non-identifying variables through a dashboard system run by the National Center for Foreign Animal and Zoonotic Disease Defense at Texas A&M University. CEAH and FAZD epidemiologists will collaborate to analyze the variables to look for significant

risk factors and outbreak characteristics. AASV, CEAH and FAZD, working together, are able to provide protection from Freedom of Information Act (FOIA) requests. We know that you are busy providing veterinary care for your PEDv-positive herds, but we are asking that this information be returned as quickly as possible, preferably within 48 hours. If you cannot complete the survey within that time frame, we will accept the information whenever you can get it to us. However, the sooner we get the information, the sooner we can analyze the data and start looking for the causes of PEDv infection.

Thank you for your participation,

Thomas of Buskgeen

Thomas J. Burkgren, DVM, MBA Executive Director American Association of Swine Veterinarians







# **PEDv Investigation 2013**

## Instructions

This form is used to collect herd, illness, and exposure information on swine herds associated with PEDv infection.

The form should be completed through a personal interview with the individual who has the greatest degree of knowledge of the information asked in each section (e.g., owner or herdsman). Ask each question as it is written and answer all questions. If a question is not applicable, write NA. If a respondent does not know the answer, write DK.

Please return completed surveys as instructed at the end of the form.

## Section 1 – Administrative

1. Date of the interview (mm/dd/yy)	date
2. Name of person completing survey	name
3. ID (assigned by AASV)	ID
4. Name of herd veterinarian (if different from question 2)	vet
5. Owner's name0105	owner
6. Address of site: street, city, county, State	
	address
7. Premises ID number (optional)	prem
8. Has this site been laboratory confirmed with PEDv infection?	YES (case)
NO; no clinical signs have be	en observed (control)

## Section 2 – Herd Information

a. Sows and gilts for breeding?	1.	Of the total hogs and pigs at this site on April 22 of this year, how many were:			
c. Pigs between 21-65 days of age?		a. Sows and gilts for breeding?	_		_ head
d. Pigs between 65-120 days of age?		b. Pigs between 1-21 days of age?	_		_ head
<ul> <li>e. Finisher hogs over 120 days of age?</li></ul>		c. Pigs between 21-65 days of age?	_		_ head
<ul> <li>f. Other types of pigs?</li></ul>		d. Pigs between 65-120 days of age?0204	_		_ head
g. Then the total number of hogs and pigs on April 22 at this site was:		e. Finisher hogs over 120 days of age?	_		_ head
<ul> <li>2. Other than this herd, how many sites with swine are within 3 miles of this operation? 0208 ops</li> <li>3. Before entering the hog and pig facilities on this site, are employees required to: <ul> <li>a. Take a shower?</li></ul></li></ul>		f. Other types of pigs?	_		_ head
<ul> <li>3. Before entering the hog and pig facilities on this site, are employees required to:</li> <li>a. Take a shower?</li></ul>		g. Then the <b>total</b> number of hogs and pigs on April 22 at this site was:	_		_ total
a. Take a shower? $\Box_1 \text{ Yes } \Box_3 \text{ No } \Box_2 \text{ NA}$ b. Change to clean boots and coveralls?	2.	Other than this herd, how many sites with swine are within <b>3 miles</b> of this operation? 0208	_		ops
b. Change to clean boots and coveralls?	3.	Before entering the hog and pig facilities on this site, are <b>employees</b> required to:			
-		a. Take a shower?0209	$\square_1$ Yes	$\square_3 \operatorname{No}$	$\square_2 NA$
c. Use the Danish Entry or "Bench" system?		b. Change to clean boots and coveralls?	$\square_1$ Yes	$\square_3 \operatorname{No}$	$\square_2 NA$
		c. Use the Danish Entry or "Bench" system?	$\square_1$ Yes	$\square_3$ No	$\square_2 NA$

4.		
	a. Take a shower?0213	$\Box_1$ Yes $\Box_3$ No $\Box_2$ NA
	b. Change to clean boots and coveralls?	$\square_1$ Yes $\square_3$ No $\square_2$ NA
	c. Use the Danish Entry or "Bench" system?	$\Box_1$ Yes $\Box_3$ No $\Box_2$ NA
	d. Wait 24 hours or more after visiting any other hog site?	$\square_1$ Yes $\square_3$ No $\square_2$ NA
5.	In the last 90 days, how many <b>nonemployees</b> entered the hog and pig facilities on th	is site? 0217
	a. Have these nonemployees had contact with swine on other farm	$\square_1$ Yes $\square_3$ No $\square_2$ NA
6.	Are trucks and trailers from animal haulers or commercial livestock transporters allowed to enter the hog and pig areas on this site? (Livestock include cattle, poultry, and sheep—not just swine.)	□₁ Yes □₃ No
[lf	question 6 = No, SKIP to question 9.]	
7.	Before livestock trucks and trailers are brought onto this site to <b>pick up</b> hogs or pigs, is it required that:	
	a. The animal area inside of the truck be cleaned?	$\Box_1$ Yes $\Box_3$ No $\Box_4$ DK
	If Yes, please specify with what (e.g., clean water, recycled water, etc.):	
		0221
	b. The animal area inside of the truck be disinfected?0222	$\Box_1$ Yes $\Box_3$ No $\Box_4$ DK
	If Yes, please specify with what product:	0223
	c. The outside of the truck be cleaned?0224	$\Box_1$ Yes $\Box_3$ No $\Box_4$ DK
	If Yes, please specify with what (e.g., clean water, recycled water, etc.):	
	d. The outside of the truck be disinfected?	□₁ Yes □₃No □₄DK
	If Yes, please specify with what product:	
	e. Other cleaning and disinfecting protocols are performed?0228	$\Box_1$ Yes $\Box_3$ No $\Box_4$ DK
	If Yes, please specify:	0229
8.	Before livestock trucks and trailers are brought onto this site to <b>deliver</b> hogs or pigs, is it required that:	
	a. The animal area inside of the truck be cleaned before loading the pigs?0230	$\Box_1$ Yes $\Box_3$ No $\Box_4$ DK
	If Yes, please specify with what (e.g,. clean water, recycled water, etc.:	0231
	b. The animal area inside of the truck be disinfected before loading the pigs?0232	$\Box_1 \text{ Yes } \Box_3 \text{ No } \Box_4 \text{ DK}$
	If Yes, please specify with what product:	
	c. The outside of the truck be cleaned before loading the pigs?0234	$\Box_1$ Yes $\Box_3$ No $\Box_4$ DK
	If Yes, please specify with what (e.g., clean water, recycled water, etc.):	
	d. The outside of the truck be disinfected before loading the pigs?	$\square_1 \text{ Yes } \square_3 \text{ No } \square_4 \text{ DK}$
	If Yes, please specify with what product:	
	e. Other cleaning and disinfecting protocols are performed (e.g. "baking")?0238	$\Box_1 \text{ Yes } \Box_3 \text{ No } \Box_4 \text{ DK}$
	If Yes, please specify:	0239

9.	During the <b>last 90 days</b> , has anyone from this site who works with pigs, including your veterinarian or their partners, been in a foreign country? ( <i>Include employees who may no longer be on this operation.</i> )	$\Box_1$ Yes $\Box_3$ No	D∠DK
	If Yes, what countries were visited, and when?		
10.	During the last 90 days, has anyone from a foreign country visited this site?0242	$\square_1$ Yes $\square_3$ No	D □₄ DK
	If Yes, what countries were they from, and on what dates did they visit?		0243
11.	During the <b>last 90 days</b> , were any pigs, semen, or embryos obtained from a source in a foreign country?	$\Box_1$ Yes $\Box_3$ No	D □₄ DK
	If Yes, please specify what and from which country		0245
12.	What is the source of semen for this herd?		0246
13.	What semen extender is used? (Please include manufacturer, trade name, and lot n	umber/expiration	date.)
			0247
14.	How is semen delivered to the site? (e.g., commercial courier, private vehicle, direct	to farm, etc.):	
			0248
15.	Have there been any unusual occurrences, or security breaches, on this site in the last 90 days? (e.g., locked doors found unlocked, unknown cars or people seen on the premises, etc.)	□₁ Yes □₃No	D □₄ DK
	If Yes, please describe, including the date of the occurrence:		
	· · ·		0250

## Section 3 – Breeding Herd

1.	For the period January 1-March 30, 2013, what was the average preweaning mor	tality? 0301 pct
2.	During the <b>last 90 days</b> , how many replacement gilts, boars, or other breeding animals were introduced into the breeding herd on this site?	number
3.	What percentage of the (question 2) animals were from	
	a. This site?	pct
	b. Another site belonging to this operation?	pct
	c. Another site not belonging to this operation?	pct
		Total [should equal 100%]
4.	What <b>percentage</b> of the (question 2) animals were from:	
	a. This county?	pct
	b. This State?	pct
	Specify county within this State?	
	c. Another State? (specify:) 0309oth0309	pct
	Specify county within the other State?	

Total [should equal 100%]

5. During the last 90 days were any of the following acclimatization procedures used for newly arriving breeding stock:

a. Feedback of feces from other swine?	$\Box_1$ Yes $\Box_3$ No
b. Feedback of mummies, placentas, or stillborn pigs?	$\square_1$ Yes $\square_3$ No
c. Exposure to cull gilts and sows?	$\square_1$ Yes $\square_3$ No
d. Exposure to sick pigs?	$\square_1$ Yes $\square_3$ No

6. Were breeding females on this site during the last 6 months vaccinated at any time (including prior to their arrival on this site) against the following diseases?

	Vaccine manufacturer & trade name, lot/serial number if available
a. APP ( <i>Actinobacillus pleuropneumoniae</i> )	0315a
b. Actinobacillus suis (autogenous)	0316a
c. Atrophic rhinitis ( <i>Bordetella/Pasteurella</i> )	0317a
d. Clostridium difficile (autogenous)	0318a
e. Clostridium perfringens Type A	0319a
f. Clostridium perfringens Types C and D	0320a
g. Erysipelas	0321a
h. <i>E. coli</i> (K88, K99, 987P, F41)	0322a
i. Glasser's disease ( <i>Haemophilus parasuis</i> )	0323a
j. Ileitis/proliferative enteritis ( <i>Lawsonia intracellularis</i> )	0324a
k. Influenza	0325a
I. Leptospirosis	0326a
m. <i>Mycoplasma hyopneumoniae</i>	0327a
n. Parvovirus	0328a
o. Porcine circovirus 2 0329 🛛 1 Yes 🖓 3 No	0329a
p. PRRS	0330a
q. Rotavirus	0331a
r. Salmonella	0332a
s. <i>Streptococcus suis</i>	0333a
t. TGE (transmissible gastroenteritis)	0334a
u. Other vaccinations (specify:) 03350th 0335 🗆 1 Yes 🗔 3 No	0335a
During <b>the last 6 months</b> were the following types of TGE vaccines used in <b>sucklin</b> a. Commercial attenuated vaccine (MLV)	ng piglets? $\Box_1 \text{ Yes } \Box_3 \text{ No } \Box_4 \text{ DK}$

 $\square_1$  Yes  $\square_3$  No  $\square_4$  DK

Please specify manufacturer, trade name and lot/serial number if available:

7.

8. During the last 6 months what other vaccines were used in suckling piglets? Please specify products including manufacturer, trade name and lot/serial number if available:

0339

## Section 4 – Weaned market pigs (Nursery, GrowFin, Wean-to-Finish)

1.	For the period January 1–March 30, 2013, what was the average mortality in weaned market pigs (nursery, grower, or finisher pigs) in the following production units? (Write NA if the production unit is not on this site.)	
	a. Nursery unit	pct
	b. Grower/finisher unit	pct
	c. Wean-to-finish unit	pct
2.	During the last 90 days, how many pigs were introduced into this site?	number
3.	What <b>percentage</b> of the (question 2) pigs were from:	
	a. This site?	pct
	b. Another site belonging to this operation?	pct
	c. Another site not belonging to this operation?	pct
4.	What <b>percentage</b> of the (question 2) pigs were from:	Total [should equal 100%]
	a. This county?0408	pct
	b. This State?0409	pct
	Specify county of this State?	
	c. Another State? (specify:) 04110th0411	pct
	Specify county of the other State?0412	
		Total [should equal 100%]
5.	Were pigs introduced on this site sourced from a sow farm that has been confirmed positive for PEDv?	□₁ Yes □₃No □₄DK

6. Were weaned market pigs on this site during the **last 6 months** vaccinated at any time (including prior to their arrival on this site) against the following diseases?

	Vaccine manufacturer &
	trade name, lot/serial
	number if available
a. APP (Actinobacillus pleuropneumoniae)	0414a
b. <i>Actinobacillus suis</i> (autogenous)	0415a
c. Atrophic rhinitis ( <i>Bordetella/Pasteurella</i> )₀₄16 □1 Yes □3 No	0416a
d. Clostridium difficile (autogenous)	0417a
e. Clostridium perfringens Type A	0418a
f. <i>Clostridium perfringens</i> Types C and D	0419a
g. Erysipelas	0420a
h. <i>E. coli</i> (K88, K99, 987P, F41)0421 □1 Yes □3 No	0421a
i. Glasser's disease ( <i>Haemophilus parasuis</i> )	0422a
j. Ileitis/proliferative enteritis ( <i>Lawsonia intracellularis</i> ) ₀₄₂₃ □₁ Yes □₃ No	0423a
k. Influenza	0424a
I. Leptospirosis	0425a
m. <i>Mycoplasma hyopneumoniae</i>	0426a
n. Parvovirus₀₄₂₂ □₁ Yes □₃ No	0427a
o. Porcine circovirus 2	0428a
p. PRRS0429□1 Yes □3 No	0429a
q. Rotavirus	0430a
r. Salmonella0431 □1 Yes □3 No	0431a
s. Streptococcus suis	0432a
t. TGE (transmissible gastroenteritis)0433 □1 Yes □3 No	0433a
u. Other vaccinations (specify:) 04340th 0434 🛛 1 Yes 🖂 No	0434a_

## Section 5 – Feed source

Questions 1 to 7 ask about sow feed which include final rations fed to gestating or lactating sows. Skip Questions 1 to 7 if this is a nursery, wean-to-finish, or finisher site.

1. During the **last 90 days**, how many of the different rations fed to sows were:

	Meal/mash?	rations
	Pellet?	rations
	Other?	rations
	Total number of rations fed to sows?	total rations
2.	Was the sow feed used in the last 90 days:	0505
	1 – Purchased as a complete feed?	
	2 – Mixed by the farm on site?	
	3 – Mixed by the farm/company but off site?	
	4 – Custom-mixed off farm?	code (1, 2, 3, or 4)

#### [If question 2 = 2, 3, or 4, SKIP to question 4.]

\_\_\_\_ code (1, 2, or 3)

0512

3. For complete sow feed purchased in the last 90 days, provide the name of the feed company that mixed the feed, the feed manufacturer that supplied the feed (if different) and the date of the last feed shipment received from that feed company.

	Name of feed company	Name of feed manufacturer	Date last shipment was received from this feed company
1	0506	0508	0510
2	0507	0509	0511

#### [If question 3 is answered [question 2 = 1], SKIP to question 9.]

- 4. For the sow feed used in the last 90 days, was the grain:
  - 1 Mixed with a supplement (e.g., typical inclusion rate of 300-500 lb/ton)?
  - 2 Mixed with an amino acid source and a base mix (typical inclusion rate of 35-100 lb/ton)?
  - 3 Mixed with an amino acid source, salt, calcium, phosphorus and a **premix** (e.g., typical inclusion rate of 1.5–7.5 lb/ton)?
- 5. List the name of all feed mills that provided feed with supplement, base mix, or premix and the date of the last feed shipment received from that feed mill; the inclusion rate; and the source of supplement, base mix, or premix (from list 1).

	Name of feed mill	Date last shipment was received from this feed mill	Inclusion rate of the supplement, base mix, or premix (lbs per ton of feed)	Source of supplement, base mix or premix (enter code from list 1 below)	Trade name of supplement, base mix, or premix
1	0513	0518	0523	0528	0533
2	0514	0519	0524	0529	0534
3	0515	0520	0525	0530	0535
4	0516	0521	0526	0531	0536
5	0517	0522	0527	0532	0537

List	1	
-		

Source of supplement, base mix, or premix	Code
ADM	1
Akey	2
BASF	3
Cargill	4
DSM	5
Hubbard	6
JBS-United	7
Nutra Blend	8
Purina-Land O'Lakes	9
Other (specify:) 0537oth	10

## [If question 4 = 1 or 2, SKIP to question 8.]

- 6. Does the premix for the most recent sow diet consist of:
  - 1 Vitamins and trace minerals in separate premixes?
  - 2 Vitamin and trace mineral premix in the same premix?

\_\_\_\_\_ code (1 or 2)

7.	Does the premix for the most recent sow diet consist of:	0539
	1 – A commercial premix?	
	2 – A custom premix?	code (1 or 2)
8.	Is there an additional source of amino acids not listed above?	$\Box_1$ Yes $\Box_3$ No $\Box_4$ DK
	If Yes, please list manufacturer, product and lot number (if available):	
		0541

#### Questions 9 to 16 ask about nursery feed. (Please complete only if this questionnaire is for a site with nursery pigs.) If this is a wean-to-finish site please complete both nursery AND finisher feed questions.

9.	During the last 90 days, how many of the different rations fed to nursery pigs were	:
	Meal/mash?	rations
	Pellet?	rations
	Other?	rations
	Total number of rations fed to nursery pigs	rations
10.	Was the nursery feed used in the last 90 days:	0546
	1 – Purchased as a complete feed?	
	2 – Mixed by the farm on site?	
	3 – Mixed by the farm/company but off site?	
	4 – Custom-mixed off farm?	code (1, 2, 3, or 4)

## [If question 10 = 2, 3, or 4, SKIP to question 12.]

11. For complete nursery feed purchased in the last 90 days, provide the name of the feed company that mixed the feed, the feed manufacturer that supplied the feed (if different) and the date of the last feed shipment received from that feed company.

	Name of feed company	Name of feed manufacturer and trade name of feed	Date last shipment was received from this feed company
1	0547	0549	0551
2	0548	0550	0552

#### [If question 11 is anwered [question 10 = 1], SKIP to Section 6. If this is a wean-to-finish site, SKIP to question 18.]

12. For the nursery feed used in the last 90 days, was the grain:

1 - Mixed with a supplement (e.g., typical inclusion rate of 300-500 lb/ton)?

- 2 Mixed with an amino acid source and a base mix (typical inclusion rate of 35–100 lb/ton)?
- 3 Mixed with an amino acid source, salt, calcium, phosphorus and a premix (e.g., typical inclusion rate of 1.5-7.5 lb/ton)? \_\_\_\_\_ code (1, 2, or 3)

13. List the name of all feed mills that provided feed with supplement, base mix or premix and the date of the last feed shipment received from that feed mill; the inclusion rate; and the source of supplement, base mix or premix (from list 1).

	Name of feed mill	Date last shipment was received from this feed mill	Inclusion rate of the supplement, base mix, or premix (Ibs per ton of feed)	Source of supplement, base mix or premix (enter code from list 1 below)	Trade name of supplement, base mix, or premix
1	0554	0559	0564	0569	0574
2	0555	0560	0565	0570	0575
3	0556	0561	0566	0571	0576
4	0557	0562	0567	0572	0577
5	0558	0563	0568	0573	0578

List 1

Source of supplement, base mix,	or premix	Code	
ADM		1	
Akey		2	
BASF		3	
Cargill		4	
DSM		5	
Hubbard		6	
JBS-United		7	
Nutra Blend		8	
Purina-Land O'Lakes		9	
Other (specify:	) 0578oth	10	

## [If question 12 = 1 or 2, SKIP to question 16.]

14. Does the premix for the most recent nursery diet consist of:	0579
1 – Vitamins and trace minerals in separate premixes?	
2 – Vitamin and trace mineral premix in the same premix?	code (1 or 2)
15. Does the premix for the most recent nursery diet consist of:	0580
1 – A commercial premix?	
2 – A custom premix?	code (1 or 2)

16. What additional animal protein sources (e.g., fish meal, whey products, etc.) are included in the nursery feed?

	Name of feed mill	Date last shipment was received from this feed mill	Protein source	Trade name if applicable	Lot number if available
1	0581	0586	0591	0596	0601
2	0582	0587	0592	0597	0602
3	0583	0588	0593	0598	0603
4	0584	0589	0594	0599	0604
5	0585	0590	0595	0600	0605

17. Is there an additional source of amino acids not listed above?	$\Box_1$ Yes $\Box_3$ No $\Box_4$ DK
If Yes, please list manufacturer, product and lot number (if available):	
	0607
Questions 18 to 25 ask about finisher feed. (Please complete only if this questionnaire is for a site with grow/finish pigs.)	
18. During the last 90 days, how many of the different rations fed to finishers were:	
Meal/mash?	rations
Pellet?	rations
Other?	rations
Total number of rations fed to finishers?	rations
19. Was the finisher feed used in the last 90 days:	0612
1 – Purchased as a complete feed?	
2 – Mixed by the farm on site?	
3 – Mixed by the farm/company but off site?	
4 – Custom-mixed off farm?	code (1, 2, 3, or 4)

## [If question 19 = 2, 3, or 4, SKIP to question 21.]

20. For complete finisher feed purchased in the last 90 days, provide the name of the feed company that mixed the feed, the feed manufacturer that supplied the feed (if different) and the date of the last feed shipment received from that feed company.

		Name of feed company	Name of feed manufacturer and trade name of feed	Date last shipment was received from this feed company
1	1	0613	0615	0617
2	2	0614	0616	0618

## [If question 20 is answered [question 19 = 1], SKIP to section 6.]

21. For the finisher feed used in the last 90 days, was the grain:

- 1 Mixed with a supplement (e.g., typical inclusion rate of 300–500 lb/ton)?
- 2 Mixed with an amino acid source and a base mix (typical inclusion rate of 35-100 lb/ton)?
- 3 Mixed with an amino acid source, salt, calcium, phosphorus and a **premix** (e.g., typical inclusion rate of 1.5–7.5 lb/ton)? \_\_\_\_\_ code (1, 2, or 3)

22. List the name of all feed mills that provided feed with supplement, base mix or premix and the date of the last feed shipment received from that feed mill; the inclusion rate; and the source of supplement, base mix or premix (from list 1).

	Name of feed mill	Date last shipment was received from this feed mill	Inclusion rate of the supplement, base mix, or premix (lbs per ton of feed)	Source of supplement, base mix or premix (enter code from list 1 below)	Trade name of supplement, base mix, or premix
1	0620	0625	0630	0635	0640
2	0621	0626	0631	0636	0641
3	0622	0627	0632	0637	0642
4	0623	0628	0633	0638	0643
5	0624	0629	0634	0639	0644

List 1

Source of supplement, base mix, or premix	Code	
ADM	1	
Akey	2	
BASF	3	
Cargill	4	
DSM	5	
Hubbard	6	
JBS-United	7	
Nutra Blend	8	
Purina-Land O'Lakes	9	
Other (specify:) 0644oth	10	

## [If question 21 = 1 or 2, SKIP to question 25.]

23. Does the premix for the most recent finisher diet consist of:	0645
1 – Vitamins and trace minerals in separate premixes?	
2 – Vitamin and trace mineral premix in the same premix?	code (1 or 2)
24. Does the premix for the most recent finisher diet consist of:	0646
1 – A commercial premix?	
2 – A custom premix?	code (1 or 2)
25. Is there an additional source of amino acids not listed above?	$\Box_1$ Yes $\Box_3$ No $\Box_4$ DK
If Yes, please list manufacturer, product and lot number (if available):	
	0648

## IF POSSIBLE, PLEASE ATTACH SCANNED COPIES OF ALL FEED TAGS TO THE QUESTIONNAIRE.

## Section 6 – PEDv Illness (complete only for case herds)

1.	nce April 22, have any of the following clinical signs been present in pigs on this site?				
	a. Watery diarrhea (no blood or mucus)	$\Box_1$ Yes $\Box_3$ No $\Box_4$ DK			
	b. Vomiting	$\Box_1$ Yes $\Box_3$ No $\Box_4$ DK			
	c. Anorexia	$\Box_1$ Yes $\Box_3$ No $\Box_4$ DK			
	d. Depression	$\Box_1$ Yes $\Box_3$ No $\Box_4$ DK			
[lf a	all responses in question 1 = No or Don't Know, skip to Section 7.]				
2.	What was the date the clinical signs first appeared in pigs on this farm?0705	date of onset			
3.	Have all the swine remaining on this site recovered?	$\Box_1$ Yes $\Box_3$ No			
	If Yes, what was the date the PEDv illness stopped in this herd?	date			
4.	Since the (question 2) date of onset, how many of the following types of pigs showed	signs of PEDv illness?			
	a. Sows and gilts for breeding?	head			
	b. Pigs between 1–21 days of age (suckling pigs)?	head			
	c. Starter pigs between 21–65 days of age?	head			
	d. Grower pigs between 65–120 days of age?	head			
	e. Finisher hogs over 120 days of age?	head			
	f. Other types of pigs?	head			
5.	Since the (question 2) date of onset, how many of the following types of pigs died w	ith PEDv illness?			
	a. Sows and gilts for breeding?	head			
	b. Pigs between 1–21 days of age (suckling pigs)?	head			
	c. Starter pigs between 21–65 days of age?	head			
	d. Grower pigs between 65–120 days of age?	head			
	e. Finisher hogs over 120 days of age?0718	head			
	f. Other types of pigs?	head			
6.	Since the (question 2) <b>date of onset</b> , how many pigs with PEDv-like illness	hood			
	were sampled for laboratory testing?	head			
[lf (	question 6 = 0, SKIP to section 7.]				
7. \	Which of the following specimens were submitted to the veterinary diagnostic laborator	ry?			
	a. Fresh feces?0721	$\Box_1$ Yes $\Box_3$ No			
	b. Fecal swabs?0722	$\Box_1$ Yes $\Box_3$ No			
	c. Intestinal contents?	$\Box_1$ Yes $\Box_3$ No			
	d. lleum?	$\Box_1$ Yes $\Box_3$ No			
	e. Jejunum?	$\Box_1$ Yes $\Box_3$ No			
	f. Colon and cecum?	$\Box_1$ Yes $\Box_3$ No			
	g. Blood/serum?0727	$\Box_1$ Yes $\Box_3$ No			
	h. Whole piglets	$\Box_1$ Yes $\Box_3$ No			
	i. Other?	$\Box_1$ Yes $\Box_3$ No			

8.	To which veterinary diagnostic laboratory were the specimens submitted?			
	a. Iowa State University?	$\square_1$ Yes $\square_3$ No		
	b. University of Minnesota?	$\Box_1$ Yes $\Box_3$ No		
	c. Another veterinary diagnostic laboratory? (specify:)07320th 0732	$\square_1$ Yes $\square_3$ No		
9.	What date were the specimens submitted?0733	date		

## Section 7

1. How was this survey conducted? (Check one only.)		0801
$\square_1$ In person		
$\square_2$ By telephone		
$\square_3$ By mail or email		
2. Can the veterinary diagnostic laboratory be contacted to obtain results or information about virus isolates?	0802	□₁Yes □₃No
3. If necessary, can feed or other input samples be collected from this site?		$\Box_1$ Yes $\Box_3$ No

**Comments** (Please add any comments regarding this site or operation that you believe may be of interest to this survey, such as any changes in vaccine protocols, feed suppliers or other changes.)

Signature:

By signing I am granting permission to AASV to access PEDv isolate data for this site from the diagnostic laboratory

Date: \_\_\_\_\_

DATA COLLECTOR: Retain a copy of this form for your records.

Send the original to:

Fax to: (515) 465–3832

Or scan and email to: AASV@aasv.org