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DAIRY CATTLE EMERGING HEALTH EVENT: EPIDEMIOLOGICAL QUESTIONNAIRE

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

Your participation is vital and will help APHIS understand the occurrence and extent of HPAI detections in cattle. APHIS will safeguard study data as Confidential Business Information (CBI), as defined in the U.S. Code of Federal Regulations (CFR) 19 CFR 201.6, and we will utilize exemption 4 for any Freedom of Information Act (FOIA) (5 U.S. Code 552) requests for survey information associated with this study. Response is voluntary and you may discontinue participation at any time.

Instructions

We are asking you to fill out this survey to provide information on daily farm activities, facility and premises practices, deliveries to the premises, and sick cattle. The purpose of this survey is to better understand the emerging health syndrome in dairy cattle first announced by USDA, March 25, 2024, and to explore potential risk factors for infections in cattle. Any reports from this study will combine the data from all participants. The results of this survey will be summarized to develop hypotheses and to identify specific topics for future follow-up studies.

To support rapid data extraction and analysis, please use and save the fillable form electronically when possible. The form can be downloaded and used on any device with Adobe Acrobat.

In the questionnaire, we frequently ask questions about a **30-day reference period**. Questions regarding the “**30-day reference period**” refer to the **30 days prior to the date that clinical signs were first observed** on the premises. You might find it helpful to have a calendar and your records handy.

a. Today's date (mm/dd/yyyy): _____ date1

b. Date first clinical signs observed (mm/dd/yyyy): _____ date2

c. Date 30-days **before** first clinical signs observed (mm/dd/yyyy): _____ date3

All questions that ask about the “30-day reference period” refer to the dates between b. and c. above.

Section A – Premises Information

National Premises Identification Number: _____premid

Name of premises: _____premlname

Address of premises:

Street: _____premlstreet

City: _____premlcity Zip Code: _____premlzip State: __premlstate

County of premises: _____premlcnty

Corporate affiliation/cooperative membership: _____premlcorp

Premises owner contact name: _____ownname

Primary phone: _____ownph Email: _____owneml

Premises manager name: _____mgrname

Primary phone: _____mgrph Email: _____mgrml

Premises veterinarian name: _____vetname

Primary phone: _____vetph Email: _____veteml

Interviewee contact name: _____weename

Primary phone: _____weeph Email: _____weeeml

Interviewer contact name: _____wername

Primary phone: _____werph Email: _____werem

Click "File Name Generator" and Copy the field below it, then click "Save As" button, and paste as file name.

File Name Generator

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Section B – Case Information

1. For all cattle that have ever exhibited clinical signs of this syndrome, what clinical sign(s) were observed? *[Check **all** that apply.]* d0001

Lactation related clinical signs:

- ☐a Decreased milk production
☐b Abnormal milk (e.g., consistency, color)
☐c Dry off early

Digestive related clinical signs:

- ☐d Decreased feed consumption
☐e Decreased rumen motility
☐f Diarrhea/Loose manure
☐g Tacky, dry manure
☐h Constipation

Respiratory related clinical signs:

- ☐i Increased respiratory rate
☐j Labored breathing
☐k Nasal discharge
☐l Blood from nose
☐m Pneumonia

Other clinical signs:

- ☐n Neurological signs
☐o Blisters or ulcers
☐p Abortions
☐q Lameness
☐r Fever (103 °F or greater)
☐s Dehydration
☐t Other (specify: _____ d0001oth)

2. For lactating cows with this syndrome that have produced abnormal milk, were any of the following characteristics observed? *[Check **all** that apply.]* d0002

- ☐a Yellow discoloration
☐b Grey discoloration
☐c Clear
☐d Apparent blood in milk

- ☐e Thickened
☐f Flakes
☐g Clots
☐h Other (specify: _____ d0002oth)

3. On average, for cattle on this premises that have shown clinical signs of this syndrome:
- a. How many days did they show clinical signs (excluding milk drop)?..... d0003 _____ # days
- b. How many days did they experience milk drop? d0004 _____ # days
4. When was the first time a veterinarian collected samples from cattle on this premises to diagnose the cause of clinical signs due to this syndrome? d0005 _____ mm/dd/yy

5. Please complete the following table for the class and number of cattle on this operation **today**.

“Recovered” is defined as returning to the milking string even if there is not a full return to the previous level of milk production; or, if non-lactating, are no longer receiving supportive care or appear healthy. *(Enter number of animals in whole numbers)*

Cattle class	How many animals of this class are on the premises? <i>(If 0, go to next class; if >0, continue this class)</i>	Have any animals of this class exhibited clinical signs to date? <i>(If No, go to next class; if Yes, continue this class)</i>	How many animals of this class have exhibited clinical signs to date?	How many animals of this class have recovered from this syndrome?	How many animals of this class have been culled due to this syndrome?	How many animals of this class have died due to this syndrome?
a. Preweaned dairy or beef calves	<input type="text"/> d0006	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0016	<input type="text"/> d0025	<input type="text"/> d0035	<input type="text"/> d0045	<input type="text"/> d0055
b. Weaned but not bred dairy heifers	<input type="text"/> d0007	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0017	<input type="text"/> d0026	<input type="text"/> d0036	<input type="text"/> d0046	<input type="text"/> d0056
c. Bred dairy heifers	<input type="text"/> d0008	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0018	<input type="text"/> d0027	<input type="text"/> d0037	<input type="text"/> d0047	<input type="text"/> d0057
d. 1 st lactation dairy cows	<input type="text"/> d0009	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0019	<input type="text"/> d0028	<input type="text"/> d0038	<input type="text"/> d0048	<input type="text"/> d0058
e. 2 nd lactation dairy cows	<input type="text"/> d0010	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0020	<input type="text"/> d0029	<input type="text"/> d0039	<input type="text"/> d0049	<input type="text"/> d0059
f. 3 rd or greater lactation dairy cows	<input type="text"/> d0011	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0021	<input type="text"/> d0030	<input type="text"/> d0040	<input type="text"/> d0050	<input type="text"/> d0060
g. Dry dairy cows	<input type="text"/> d0012	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0022	<input type="text"/> d0031	<input type="text"/> d0041	<input type="text"/> d0051	<input type="text"/> d0061
h. Beef cows, bulls, steers, and heifers	<input type="text"/> d0013	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0023	<input type="text"/> d0032	<input type="text"/> d0042	<input type="text"/> d0052	<input type="text"/> d0062
i. Dairy bulls	<input type="text"/> d0014	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0024	<input type="text"/> d0033	<input type="text"/> d0043	<input type="text"/> d0053	<input type="text"/> d0063
j. Total (a. – i.)	0 <input type="text"/> d0015		0 <input type="text"/> d0034	0 <input type="text"/> d0044	0 <input type="text"/> d0054	0 <input type="text"/> d0064

6. During the reference period, were any dairy heifers from this premises being raised off-site with retained ownership? d0065 ☐₁ Yes ☐₃ No

a. If Yes, which of the following best describes the off-site rearing facility? *[Check only one.]* d0066

Dairy heifers are sent to:

☐₁ A **single rearing facility** and **do not have any contact** with cattle from other operations.

☐₂ **Multiple rearing facilities** and **do not have any contact** with cattle from other operations.

☐₃ A **single rearing facility** and **have contact** with cattle from other operations.

☐₄ **Multiple rearing facilities** and **have contact** with cattle from other operations.

☐₅ Other (specify: _____) d0066oth)

7. How many pens are on this premises? d0067 _____ # pens

8. Have clinical signs been observed in multiple pens? d0068 ☐₁ Yes ☐₂ No

[If Yes, continue. If No, go to Section C.]

a. How many pens have animals that have exhibited clinical signs to date? . d0069 _____ # pens

b. For each affected pen, what was the first day clinical signs were observed in the pen, the pen number, the cattle class of the pen, and the average days in milk for cattle in the pen?

(If more space is needed, please use the continuation table at the end of the questionnaire. If possible, please attach labeled site map. Enter average days in whole numbers)

Date clinical signs were first observed in the pen (mm/dd/yy)	Pen number	Cattle class	Pen average days in milk
_____ d0070a	_____ d0070b	_____ d0070c	_____ d0070d
_____ d0071a	_____ d0071b	_____ d0071c	_____ d0071d
_____ d0072a	_____ d0072b	_____ d0072c	_____ d0072d
_____ d0073a	_____ d0073b	_____ d0073c	_____ d0073d
_____ d0074a	_____ d0074b	_____ d0074c	_____ d0074d
_____ d0075a	_____ d0075b	_____ d0075c	_____ d0075d

Click to go to Continuation Table

c. Have animals showing clinical signs been observed in: *[Check **all** that apply.]* d0076

☐a Adjacent pens?

☐b Non-adjacent pens?

☐c Other (specify: _____) d0076oth)

d. For pens with lactating cows, has the order that pens have first shown clinical signs followed the same order that those pens visit the milking parlor? d0077 ☐1 Yes ☐2 No ☐3 Don't Know

e. If Yes, please describe:

_____ d0078oth

Section C – Herd Description

1. During the **30-day reference period**, which one of the following practices best describes this dairy operation? *[Check only **one**.]* d0100

☐1 Conventional (majority of forage consumed is not harvested by cows)

☐2 Grazing (majority of forage consumed is harvested by cows during the growing season)

☐3 Combination of conventional and grazing

☐4 Other (specify: _____) d0100oth)

2. Of the dairy cows on this operation today, approximately what percent are:

a. Holstein? d0101 _____ %

b. Jersey? d0102 _____ %

c. Other, including mixed dairy breeds? (specify: _____) d0103oth) d0103 _____ %

Total (should equal 100%) 0 _____ %

3. Is this premises producing **raw** milk or **raw/unpasteurized** milk cheese products for human consumption or for a cow share program? d0104 ☐1 Yes ☐2 No

4. Is this premises certified organic? d0105 ☐1 Yes ☐2 No

5. During the **30-day reference period**, what was the primary housing type used for each of the following types of cattle while on this operation?

[Insert the appropriate housing type code from the table below.]

Housing type codes	
1 Individual outside hutch/pen	5 Freestall with or without access to open/dry lot
2 Individual inside hutch/pen – heated or nonheated calf barn	6 Open/dry lot/multiple animals outside area with or without barn or shed (excludes pasture)
3 Tie stall or stanchion	7 Multiple animals inside area/barn
4 Pasture	8 Other (specify in Other column according to cattle type)

Other (specify) _____

- a. Preweaned dairy heifers.d0107/d0107oth _____
- b. Weaned, but not bred, dairy heifers.....d0108/d0108oth _____
- c. Bred dairy heifersd0109/d0109oth _____
- d. Lactating cows.d0110/d0110oth _____
- e. Dry cows.d0111/d0111oth _____

6. During the **30-day reference period**, were the following animal types present on this operation?
If Yes, have any of these animal types been sick or died? Were any of the following animal types present on an adjacent operation(s) where fence-line contact with this operation's cattle was possible?

Animal type	On this operation? (If Yes, answer <u>Sick</u> column; if No, go to <u>Adjacent Operation</u> column)	Have any animals of this type been <u>sick</u> or died?	On an <u>adjacent</u> <u>operation</u> where fence- line contact with this operation's cattle was possible?
a. Dairy cattle			<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No <input type="checkbox"/> ₄ Don't know d0132
b. Beef cattle	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0112	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0122	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No <input type="checkbox"/> ₄ Don't know d0133
c. Chickens or other poultry	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0113	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0123	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No <input type="checkbox"/> ₄ Don't know d0134
d. Horses, donkeys, mules, or similar	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0114	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0124	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No <input type="checkbox"/> ₄ Don't know d0135
e. Pigs (domestic)	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0115	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0125	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No <input type="checkbox"/> ₄ Don't know d0136
f. Pigs (feral)	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0116	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0126	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No <input type="checkbox"/> ₄ Don't know d0137
g. Sheep	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0117	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0127	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No <input type="checkbox"/> ₄ Don't know d0138
h. Goats	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0118	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0128	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No <input type="checkbox"/> ₄ Don't know d0139
i. Dogs (domestic or feral)	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0119	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0129	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No <input type="checkbox"/> ₄ Don't know d0140
j. Cats (domestic or feral)	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0120	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0130	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No <input type="checkbox"/> ₄ Don't know d0141
k. Other (specify: _____) d0121oth	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0121	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0131	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No <input type="checkbox"/> ₄ Don't know d0142

7. Are there any commercial poultry operations located within 5 miles of this operation's cattle herd?
..... d0143 ☐₁ Yes ☐₃ No ☐₄ Don't Know

8. During the **30-day reference period**, where were this operation's dead cattle disposed?

[Check only **one**.] d0144

☐₁ On-site

☐₂ Off-site

☐₃ Both

☐₄ Not applicable – no deaths

Section D – Milking Procedures

1. What type of milking facilities are used on this operation? [Check **all that apply**.] d0201

☐_a Parlor

☐_b Tie stall or stanchion barn

☐_c Robotic/voluntary milking systems

☐_d Other (specify: _____ d0201oth)

2. During the **30-day reference period**, how many times per day were the majority of cows milked?

[Check only **one**.] d0202

☐₁ Once a day

☐₂ Twice a day

☐₃ Three times a day

☐₄ More than three times a day

3. Are all cows milked the same number of times per day? d0203 ☐₁ Yes ☐₃ No

a. If No, does the frequency of milking seem to be associated with clinical signs? (i.e., has there been a difference in the number of cows with clinical signs based on the number of times they were milked per day?) d0204 ☐₁ Yes ☐₃ No ☐₄ Don't know

(1). If Yes to Question 3.a., please explain: _____ d0205oth

4. During the **30-day reference period**, were the teats sprayed with water or another solution, excluding pre-teat dip, prior to milking? d0206 ☐₁ Yes ☐₃ No

5. During the **30-day reference period**, was forestripping performed prior to milking?

..... d0207 ☐₁ Yes ☐₃ No

6. During the **30-day reference period**, were teats pre-dipped prior to milking? d0208 ☐₁ Yes ☐₃ No

[If Yes, continue. If No, go to Question 7.]

a. Please specify product used: _____d0209oth

b. What method was used to apply pre-dip? [Check only **one**.] d0210

☐1 Teat dipping cup

☐2 Teat sprayer

☐3 Automatic brush with scrubber and dryer

☐4 Other (specify: _____) d0210oth)

7. During the **30-day reference period**, how were the teats dried prior to milking? [Check **all** that apply.]

d0211

☐a Paper towel used on one cow only

☐b Paper towel used on more than one cow

☐c Cloth towel used on one cow only

☐d Cloth towel used on more than one cow

☐e Not applicable – teats were not dried

8. During the **30-day reference period**, were teats post-dipped after milking?..... d0212 ☐1 Yes ☐3 No

a. If Yes, please specify product used: _____ d0213oth

9. During the **30-day reference period**, did this operation use a backflush system in milking units?

..... d0214 ☐1 Yes ☐3 No

a. If Yes, was the backflush system:

(1). Used for every milking? d0215 ☐1 Yes ☐3 No

(2). Automatic or manual?..... d0216 ☐1 Automatic ☐2 Manual

(3). Does the backflush system include a disinfectant?..... d0217 ☐1 Yes ☐3 No

10. During the **30-day reference period**, did parlor workers wear disposable gloves while milking cows?

..... d0218 ☐1 Always ☐2 Sometimes ☐3 Never

a. If Always or Sometimes, on average how many cows were contacted while wearing a single pair of gloves? [Check only **one**.] d0219 ☐1 Only 1 ☐2 2–10 ☐3 11–50 ☐4 51–100 ☐5 101+

[If this operation has a parlor, continue. If not, go to Question 13.]

11. During the **30-day reference period**, was the parlor cleaned after each milking shift?

..... d0220 ☐1 Always ☐2 Sometimes ☐3 Never

a. If Always or Sometimes, which of the following best describes the cleaning procedures? [Check only **one**.] d0221

☐1 Wash parlor with water or steam only

☐2 Chemically disinfect only

☐3 Wash with water and chemically disinfect

☐4 Other (specify: _____) d0221oth)

12. Does this operation use a CIP (clean in place) system? d0222 ☐ Yes ☐ No

a. If Yes, how many times a day is cleaning conducted? [Check only **one**.] d0223

☐₁ 1

☐₂ 2

☐₃ 3

☐₄ 4 or more

13. Have any of the milking or parlor practices changed since the syndrome was first observed on this premises? d0224 ☐₁ Yes ☐₃ No

a. If Yes, please explain: d0225oth

14. During the **30-day reference period**, did milk trucks pick up partial semi-truck loads from this dairy? d0226 ☐₁ Yes ☐₃ No ☐ Don't Know

15. During the **30-day reference period**, approximately how much waste milk was produced daily on this premises? d0227 _____ (gallons/day)

16. During the **30-day reference period**, which of the following practices were used to dispose of waste milk on this premises? For each practice used, was the waste milk pasteurized/heat treated, chemical treated, or not treated prior to the disposal practice?

Practice to dispose of waste milk: (If checked, answer Treatment column) [Check all that apply.] d0228	Treatment prior to the disposal practice? [Check all that apply.]
<input type="checkbox"/> _a Fed to calves on this dairy	<input type="checkbox"/> _a Pasteurized/ heat treated <input type="checkbox"/> _b Chemical treatment <input type="checkbox"/> _c No treatment d0229
<input type="checkbox"/> _b Fed to calves at another premises	<input type="checkbox"/> _a Pasteurized/ heat treated <input type="checkbox"/> _b Chemical treatment <input type="checkbox"/> _c No treatment d0230
<input type="checkbox"/> _c Fed to swine (on or off-site)	<input type="checkbox"/> _a Pasteurized/ heat treated <input type="checkbox"/> _b Chemical treatment <input type="checkbox"/> _c No treatment d0231
<input type="checkbox"/> _d Fed to cats/dogs on the dairy	<input type="checkbox"/> _a Pasteurized/ heat treated <input type="checkbox"/> _b Chemical treatment <input type="checkbox"/> _c No treatment d0232
<input type="checkbox"/> _e Disposed in lagoon	<input type="checkbox"/> _a Pasteurized/ heat treated <input type="checkbox"/> _b Chemical treatment <input type="checkbox"/> _c No treatment d0233
<input type="checkbox"/> _f Other (specify: _____) d0228oth	<input type="checkbox"/> _a Pasteurized/heat treated <input type="checkbox"/> _b Chemical treatment <input type="checkbox"/> _c No treatment d0234

17. Have the waste milk disposal and/or waste milk treatment practices changed since the syndrome was first observed on this premises? d0235 ☐₁ Yes ☐₃ No

a. If Yes, how have practices changed: _____ d0236oth

Section E – Animal Movements

1. Were animals of the following cattle classes **added** to this premises during the **30-day reference period**?

Cattle class	Added to the premises during the 30-day reference period?
a. Preweaned dairy or beef calves	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0301
b. Weaned but not bred dairy heifers	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0302
c. Bred dairy heifers	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0303
d. Fresh dairy heifers	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0304
e. Lactating dairy cows	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0305
f. Dry dairy cows	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0306
g. Beef cows, bulls, steers, heifers	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0307
h. Dairy bulls	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0308

2. Please describe all movements of cattle **onto** this premises beginning with the start of the 30-day reference period.

(Answer all columns for each movement. If more space is needed, please use the continuation table at the end of the questionnaire.)

Date of movement (mm/dd/yy)	Cattle class/type	Number of head	Origin (premises/farm name, city, state)
_____ d0309a	_____ d0309b	_____ d0309c	_____ d0309d
_____ d0310a	_____ d0310b	_____ d0310c	_____ d0310d

<hr/> d0311a	<hr/> d0311b	<hr/> d0311c	<hr/> d0311d
<hr/> d0312a	<hr/> d0312b	<hr/> d0312c	<hr/> d0312d
<hr/> d0313a	<hr/> d0313b	<hr/> d0313c	<hr/> d0313d

[Click to go to Continuation Table](#)

3. Were animals of the following cattle classes **removed** from the premises during the **30-day reference period** or **since clinical signs were first observed**? [Answer **both** columns.]

Cattle class	Removed from the premises during the 30-day reference period?	Removed from the premises since clinical signs were first observed?
a. Preweaned dairy or beef calves	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0314	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0322
b. Weaned but not bred dairy heifers	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0315	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0323
c. Bred dairy heifers	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0316	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0324
d. Fresh dairy heifers	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0317	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0325
e. Lactating dairy cows	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0318	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0326
f. Dry dairy cows	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0319	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0327
g. Beef cows, bulls, steers, heifers	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0320	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0328
h. Dairy bulls	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0321	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0329

4. Please describe all movements of cattle **off** this premises beginning with the start of the 30-day reference period.

(Answer all columns for each movement. If more space is needed, please use the continuation table at the end of the questionnaire.)

Date of movement (mm/dd/yy)	Cattle class/type	Number of head	Destination (premises/farm name, city, state)
_____d0330a	_____d0330b	_____d0330c	_____d0330d
_____d0331a	_____d0331b	_____d0331c	_____d0331d
_____d0332a	_____d0332b	_____d0332c	_____d0332d
_____d0333a	_____d0333b	_____d0333c	_____d0333d
_____d0334a	_____d0334b	_____d0334c	_____d0334d

[Click to go to Continuation Table](#)

5. During the **30-day reference period**, how often were the following types of cattle isolated (kept physically separated) before being comingled with this operation's cattle?

(Check NA if not applicable, i.e., did not have cattle return and/or join during the time frame.)

a. Cattle returning to the operation? d0335 ☐1 Always ☐2 Sometimes ☐3 Never ☐4 NA

b. New cattle joining the operation (permanently or temporarily)?

..... d0336 ☐1 Always ☐2 Sometimes ☐3 Never ☐4 NA

[If Questions 5. a. and b. BOTH are Never or NA, go to Question 7.]

6. How many days were these types of cattle typically isolated?

(Check NA if not applicable, i.e., did not have cattle return and/or join during the time frame.)

a. Cattle returning to the operation? d0337 _____ # days ☐4 NA

b. New cattle joining the operation (permanently or temporarily)?

.....d0338 _____ # days ☐4 NA

7. During the **30-day reference period**, did any cattle leave this operation for any purpose (e.g., veterinary clinic, show, sale, petting zoo, or similar) and then return to this operation?

..... d0339 ☐1 Yes ☐2 No

Section F – Operation Management

1. During the **30-day reference period**, which of the following describes your standard colostrum feeding practices for calves? *[Check only one.]* d0401
 - ☐₁ Unpasteurized cow colostrum from a single dam
 - ☐₂ Pasteurized cow colostrum from a single dam
 - ☐₃ Unpasteurized pooled cow colostrum
 - ☐₄ Pasteurized pooled cow colostrum
 - ☐₅ Commercial colostrum replacer
 - ☐₆ Calves are not fed colostrum
 2. Which of the following liquid diets are calves fed prior to weaning? *[Check all that apply.]* d0402
 - ☐_a Medicated/Nonmedicated milk replacer
 - ☐_b Unpasteurized milk
 - ☐_c Pasteurized milk
 - ☐_d Acidified milk
 - ☐_e Other (specify: _____) d0402oth)
 3. What are the water sources for cattle?
 - a. Off-site fresh water (e.g., municipal, community, commercial) d0403 ☐₁ Yes ☐₂ No
 - b. Well d0404 ☐₁ Yes ☐₂ No
 - c. Surface water (e.g., pond, canal)..... d0405 ☐₁ Yes ☐₂ No
 - d. Other (specify: _____) d0406oth) d0406 ☐₁ Yes ☐₂ No
 4. Are water treatments (e.g., chlorination) used in the drinking water for the cattle on this operation? d0407 ☐₁ Yes ☐₂ No
 - a. If Yes, are these treatments conducted: d0408 ☐₁ Continuously? ☐₂ Intermittently?
 5. During the **30-day reference period**, which best describes how frequently the water delivery systems (e.g., water tank or trough, waterer) were drained and cleaned? *[Check only one.]* d0409
 - ☐₁ Daily ☐₂ Weekly ☐₃ 2-3 times per month ☐₄ Never
- For the next two questions, "Always" is 100% of the time, "Most of the time" is 51–99% of the time, "Sometimes" is 1–50% of the time, and "Never" is 0% of the time.*
6. During the **30-day reference period**, how often were wild birds observed in/around sources from which the cows drink? *[Check only one.]* d0410
 - ☐₁ Always ☐₂ Most of the time ☐₃ Sometimes ☐₄ Never
 7. Where are feed rations fed at this dairy being mixed? *[Check only one.]*
 - d0411 ☐₁ At this dairy ☐₂ At a location off-site ☐₃ Both
 8. Do feed components include:

a. Feather/other poultry meald0412 ☐_1 Yes ☐_3 No ☐_4 Don't Know

b. Poultry litter/manure..... d0413 ☐1 Yes ☐3 No ☐4 Don't Know

c. Other poultry byproducts..... d0414 ☐1 Yes ☐3 No ☐4 Don't Know

(1). If Yes, specify: d0415oth

9. During the **30-day reference period**, how frequently were wild birds, wild animals, and rodents able to access cattle feed or feed ingredients (e.g., feed spillage, open bag, cover left open, feedline, commodity bays)? *For the next two questions, "Always" is 100% of the time, "Most of the time" is 51–99% of the time, "Sometimes" is 1–50% of the time, and "Never" is 0% of the time.*

Animal type	Always	Most of the time	Sometimes	Never
a. Large birds (e.g., waterfowl such as ducks and geese, raptors such as hawks) d0416	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
b. Small birds (e.g., finches, sparrows, starlings, pigeons, blackbirds, grackles, cowbirds) d0417	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
c. Wild animals (e.g., raccoons, opossums, coyotes, feral swine, deer, rabbits, foxes) d0418	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
d. Rodents (e.g., rats, mice, squirrels, gophers) d0419	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4

10. During the **30-day reference period**, did this operation ever transport cattle in trucks and/or trailers shared with other livestock operations? d0420 ☐1 Yes ☐3 No

[If No, go to Question 13.]

11. Were shared trucks or trailers cleaned prior to use? d0421 ☐1 Yes ☐3 No

12. Which of the following best describes the cleaning procedures? *[Check only one.]* d0422

☐1 Wash vehicle with water or steam only

☐2 Chemically disinfect only

☐3 Wash vehicle and chemically disinfect

☐4 Other (specify: d0422oth)

13. During the **30-day reference period**, did this operation ever use the same equipment to handle manure and feed? d0423 ☐1 Yes ☐3 No

[If No, go to Question 17.]

14. Were separate buckets used to handle manure and feed? d0424 ☐1 Yes ☐3 No

15. Was equipment (excluding separate buckets) cleaned between use for manure and use for feed?

..... d0425 ☐ Yes ☐ No

16. If Yes to Question 15, which of the following best describes the cleaning procedures? *[Check only one.]* d0426

- ☐₁ Wash equipment with water or steam only
- ☐₂ Chemically disinfect only
- ☐₃ Wash equipment and chemically disinfect
- ☐₄ Other (specify: _____ d0426oth)

17. What kind(s) of bedding are used on this dairy? *[Check all that apply.]* d0427

- ☐_a Wood shavings and/or sawdust
- ☐_b Straw and/or hay
- ☐_c Sand
- ☐_d Rice hulls
- ☐_e Paper
- ☐_f Compost and/or dried manure
- ☐_g Rubber mats/mattress
- ☐_h Other (specify: _____ d0427oth)

18. Prior to use, is fresh bedding accessible to:

- a. Wild birds d0428 ☐₁ Yes ☐₂ No
- b. Wild animals (e.g., raccoons, opossum, coyotes, foxes)..... d0429 ☐₁ Yes ☐₂ No
- c. Domestic animals (e.g., dogs, cats)..... d0430 ☐₁ Yes ☐₂ No

19. What type of water is used to flush the alleys? *[Check all that apply.]* d0431

- ☐_a Lagoon or recycled flush water
- ☐_b Surface pond water
- ☐_c Municipal water
- ☐_d Well water
- ☐_e None
- ☐_f Other (specify: _____ d0431oth)

20. During the **30-day reference period** or **since clinical signs were first observed**, was manure on this operation: *[Answer both columns.]*

	30-day reference period	Since clinical signs were first observed
a. Stored on premises?	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0432	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0436
b. Composted for bedding?	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0433	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0437

c. Applied to land managed by this premises?	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0434	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0438
d. Removed, sold, or given away?	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0435	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0439

21. During the **30-day reference period**, was manure or used bedding from other premises brought onto this operation? d0440 ☐₁ Yes ☐₃ No ☐₄ Don't Know

Questions 22–26 refer to persons such as the producer, employees, farm help, crews, or similar.

22. What is the total number of employees working on this operation that have access to or directly work with the cattle (including family, both paid and unpaid)? d0441 _____ #

23. During the **30-day reference period**, did any workers on this operation visit another dairy premises? d0442 ☐₁ Yes ☐₃ No ☐₄ Don't know

24. During the **30-day reference period**, did any workers on this operation visit livestock shows or 4-H events? d0443 ☐₁ Yes ☐₃ No ☐₄ Don't know

25. Are any workers or members of their households employed by any of the following:

	Other dairy operations?	Swine farms?	Poultry farms?	Other livestock operations?
a. Workers	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No <input type="checkbox"/> ₄ Don't know d0444	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No <input type="checkbox"/> ₄ Don't know d0446	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No <input type="checkbox"/> ₄ Don't know d0448	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No <input type="checkbox"/> ₄ Don't know d0450
b. Members of household	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No <input type="checkbox"/> ₄ Don't know d0445	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No <input type="checkbox"/> ₄ Don't know d0447	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No <input type="checkbox"/> ₄ Don't know d0449	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No <input type="checkbox"/> ₄ Don't know d0451

26. Do any employees own their own livestock and/or poultry, including small backyard herds/flocks? d0452 ☐₁ Yes ☐₃ No ☐₄ Don't know

27. During the **30-day reference period**, did any of the following types of people visit this operation?
If Yes, how many times did they visit and did they have physical contact with the cattle?

Visitor type	Did they visit the operation? (If Yes, answer next two columns)	If Yes,	
		How many times did they visit?	Did this visitor have physical contact with cattle?
a. Veterinarian	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0453	_____ d0453a	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0453b
b. Nutritionist or feed consultant	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0454	_____ d0454a	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0454b
c. Breeding technician	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0455	_____ d0455a	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0455b

d. Feed or feed ingredient delivery personnel	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0456	_____ d0456a	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0456b
e. Milk hauler	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0457	_____ d0457a	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0457b
f. Contract hauler driver or vehicle (e.g., cattle, manure)	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0458	_____ d0458a	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0458b
g. Renderer	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0459	_____ d0459a	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0459b
h. Hoof trimmer	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0460	_____ d0460a	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0460b
i. Other (specify: _____) d0461oth	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0461	_____ d0461a	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0461b
j. Other (specify: _____) d0462oth	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0462	_____ d0462a	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No d0462b

28. During the **30-day reference period**, was a washroom with running water and soap available in the milking barn? d0463 ☐₁ Always ☐₂ Sometimes ☐₃ Never

Section G – Environmental Factors & Wild Birds

1. Are the following water body types visible or within 350 yards (about three football fields) of this operation?
- a. Pond or lake d0501 ☐₁ Yes ☐₃ No
 - b. Stream or river d0502 ☐₁ Yes ☐₃ No
 - c. Wetland or swamp d0503 ☐₁ Yes ☐₃ No
 - d. Wastewater lagoon d0504 ☐₁ Yes ☐₃ No
 - e. Standing water during the **30-day reference period** d0505 ☐₁ Yes ☐₃ No
 - f. Water ditch or canal d0506 ☐₁ Yes ☐₃ No
 - g. Other (specify: _____) d0507 ☐₁ Yes ☐₃ No

[If Question 1.a. through g. are all No, go to Question 3.]

2. For those water bodies, including drainage ditches and lagoons within 350 yards of the operation, approximately how many wild waterfowl or shorebirds (e.g., ducks, geese, wading birds, gulls) were seen on the water during the **30-day reference period**? *[Check only one.]* d0508
- ☐₁ None ☐₂ Tens ☐₃ Hundreds ☐₄ Thousands ☐₅ Don't know
3. What is the approximate distance (in yards) to the closest field where crops or hay are harvested? *[Check only one.]* d0509
- ☐₁ 50 yards or less ☐₂ 51–100 yards ☐₃ 101–350 yards ☐₄ 351 yards or more

4. For this closest field, approximately how many wild waterfowl or shorebirds (e.g., ducks, geese, wading birds, gulls) were seen during the **30-day reference period**? [Check only **one**.] d0510

☐₁ None ☐₂ Tens ☐₃ Hundreds ☐₄ Thousands ☐₅ Don't know

5. During the **30-day reference period**, how frequently were the following types of wild birds **seen on the operation and within 100 yards of the cattle**?

For this question, "Often" is 51–100% of the time, "Sometimes" is 1–50% of the time, and "Never" is 0% of the time.

Bird type	Often	Sometimes	Never
a. Waterfowl (e.g., ducks, geese) d0511	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
b. Gulls d0512	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
c. Other water birds (e.g., egrets, cormorants) d0513	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
d. Pigeons and doves d0514	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
e. Blackbirds, crows, cowbirds, grackles d0515	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
f. Small perching birds (e.g., sparrows, starlings, swallows) d0516	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
g. Wild turkeys, pheasants, quail d0517	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
h. Raptors (e.g., eagles, hawks, owls, vultures) d0518	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
i. Other d0519 (specify: _____) d0519oth	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃

6. During the **30-day reference period**, did you or other farm workers observe any **sick or dead wild birds** on the premises? d0520 ☐₁ Yes ☐₃ No

[If No, go to Question 7.]

a. Specify the type(s) of sick or dead birds: _____ d0521oth

b. Were any sick or dead birds tested for HPAI? d0522 ☐₁ Yes ☐₃ No ☐₄ Don't Know

(1) If Yes to Question 6.b., were any positive? d0523 ☐₁ Yes ☐₃ No ☐₄ Don't Know

7. During the **30-day reference period**, how often were the following wild animals, or evidence of their presence, seen on the premises?

For this question, "Often" is 51–100% of the time, "Sometimes" is 1–50% of the time, and "Never" is 0% of the time.

a. Wild mammals (e.g., raccoons, opossum, coyotes, foxes)

..... d0524 ☐ 1 Always ☐ 2 Sometimes ☐ 3 Never

b. Rodents (e.g., rats, mice, squirrels, gophers)..... d0525 ☐ 1 Always ☐ 2 Sometimes ☐ 3 Never

8. Does this premises have a written wildlife management plan that includes methods to minimize wildlife or wild bird entry and reduce wildlife attractants such as standing water?

..... d0526 ☐ 1 Yes ☐ 2 No

Comments Section

Please use this section for anything else you would like to add. For example, how do you think HPAI was/is spreading on your operation or in the geographic area? Is there something about your operation or your experience with this syndrome that you would like to share? d0601

Please attach any additional information you think would be valuable to this investigation, such as laboratory results prior to syndrome diagnosis, a site map with impacted pens labeled, full ration ingredient list, milk production records, hospital records, or the number of cows impacted per day.

Section B, Question 8.b. Continuation Table

Date clinical signs were first observed in the pen (mm/dd/yy)	Pen number	Cattle class	Pen average days in milk
_____d0080a	_____d0080b	_____d0080c	_____d0080d
_____d0081a	_____d0081b	_____d0081c	_____d0081d
_____d0082a	_____d0082b	_____d0082c	_____d0082d
_____d0083a	_____d0083b	_____d0083c	_____d0083d
_____d0084a	_____d0084b	_____d0084c	_____d0084d

[Click to return to Section B](#)

Section E, Question 2. Continuation Table

Date of movement (mm/dd/yy)	Cattle class/type	Number of head	Origin (premises/farm name, city, state)
_____d0350a	_____d0350b	_____d0350c	_____d0350d
_____d0351a	_____d0351b	_____d0351c	_____d0351d
_____d0352a	_____d0352b	_____d0352c	_____d0352d
_____d0353a	_____d0353b	_____d0353c	_____d0353d
_____d0354a	_____d0354b	_____d0354c	_____d0354d

<hr/>	<hr/>	<hr/>	<hr/>
d0355a	d0355b	d0355c	d0355d

[Click to return to Section E](#)

Section E, Question 4. Continuation Table

Date of movement (mm/dd/yy)	Cattle class/type	Number of head	Destination (premises/farm name, city, state)
<hr/>	<hr/>	<hr/>	<hr/>
d0360a	d0360b	d0360c	d0360d
<hr/>	<hr/>	<hr/>	<hr/>
d0361a	d0361b	d0361c	d0361d
<hr/>	<hr/>	<hr/>	<hr/>
d0362a	d0362b	d0362c	d0362d
<hr/>	<hr/>	<hr/>	<hr/>
d0363a	d0363b	d0363c	d0363d
<hr/>	<hr/>	<hr/>	<hr/>
d0364a	d0364b	d0364c	d0364d
<hr/>	<hr/>	<hr/>	<hr/>
d0365a	d0365b	d0365c	d0365d

[Click to return to Section E](#)

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