

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

COMMERCIAL TURKEY CASE CONTROL SURVEY

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OMB Approved
0579-XXXX
EXP: XX/2023

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Date (mm/dd/yy): _____ date

Section A – Case or Control

1. Is this a case or control farm? **[During the interview, verify the farm name and address printed on the label are correct for this farm.]** t101
 - O₁ Case farm **[Go to Item 2.]**
 - O₃ Control farm **[Go to Item 3.]**

2. If this is a **case** farm,
- a. The following is the 14-day reference period for this farm:

t102/t102a _____ – _____ mm/dd/yy – mm/dd/yy

In this questionnaire, we will ask many questions about a 14-day reference period. The “reference period” for your farm is the 14 days between [Insert the dates listed in Item 2a above]. This is the 14 days before the detection of HPAI on this farm.

- b. How many turkeys were on this farm on the last day of the reference period? t103 _____ # turkeys
- c. During the 2022 HPAI outbreak, how many of the barns on this farm were confirmed or were suspected to be infected with HPAI?.....t104 _____ # barns

[Go to Section B.]

3. If this is a **control** farm,
- a. The tentative 14-day reference period for this farm is:

t105/t105a _____ – _____ mm/dd/yy – mm/dd/yy

- b. Did you have turkeys for the entire 14-day period between the dates in Item 3a above? t106

O₁ Yes

O₃ No

If Yes, the “14-day reference period” for your farm is [Insert the dates listed in Item 3a above]. We will refer to this as the “reference period” throughout the questionnaire. [Proceed to Item 3c.]

If No, help the producer identify the closest 14-day period to the reference period from Item 3a during which they had turkeys on the farm and enter that period into the fields below. This period must be during 2022.

Enter the selected 14-day period here:

t107 Start date _____ mm/dd/yy

(Finish date = start date + 14 days)

t108 Finish date _____ mm/dd/yy

All questions regarding the “reference period” refer to the 14 days selected above. We will refer to this as the “reference period” throughout the questionnaire.

[If the farm did not have turkeys during 2022, go to Section L.]

- c. How many turkeys were on this farm on the last day of the reference period? t109 _____ # turkeys

Section B – Premises Description

1. What stage(s) of turkey production is on this farm?
 - a. Brooder.....t201 O₁ Yes O₃ No
 - b. Growert202 O₁ Yes O₃ No
 - c. Breeder.....t203 O₁ Yes O₃ No
 - d. Other (specify: _____) t204oth.....t204 O₁ Yes O₃ No

2. What is the sex of the market type on this farm? *[Check all that apply.]*
 - O₁ Hens t205
 - O₁ Toms t206
 - O₁ Breeder hens t207
 - O₁ Breeder toms t208

3. Is this farm multiple age or single age? *[Check one only.]* t209
 - O₁ Multiple age
 - O₂ Single age

4. What other type(s) of poultry is present on this farm?
 - a. Broilert210 O₁ Yes O₃ No
 - b. Layert211 O₁ Yes O₃ No
 - c. Domestic ducks or geese (exclude wild birds).....t212 O₁ Yes O₃ No
 - d. Other (specify: _____) t213oth.....t213 O₁ Yes O₃ No

5. Is this farm certified organic?.....t214 O₁ Yes O₃ No

6. Is this facility enrolled in NPIP?.....t215 O₁ Yes O₃ No
 - a. If yes, is this facility enrolled in an NPIP Avian Influenza Program?.....t216 O₁ Yes O₃ No

7. Is this a: *[Check one only.]* t217
 - O₁ Company farm?
 - O₂ Contract farm?
 - O₃ Independent farm?
 - O₄ Other? (specify: _____) t217oth

8. How many barns are on this farm?.....t218 _____ # barns
 - a. In the last year, how many of these barns housed birds?.....t219 _____ # barns

For the remainder of the questionnaire, some questions will ask about practices for the entire farm, and other questions will ask about practices for a “selected barn.”

INSTRUCTIONS for selecting a barn:

Case farm: Select the **first** barn on this premises that was confirmed to be HPAI positive. If more than one barn was confirmed to be HPAI positive on the same date, choose one barn. **Answer questions for the 14 days prior to the onset of clinical signs or increased mortality (the reference period).**

[Section A, Item 2a]

Control farm: Randomly select one barn to be the “**selected barn.**” Choose one that had birds during the 14-day reference period [Section A, Item 3]. Use this barn to answer all questions about the “**selected barn.**”

9. What is the barn ID or name for the **selected barn**?.....t220 _____
10. During the 14-day reference period, did any birds on the farm or **selected barn** have access to the outdoors?
- a. Any birds on the farm.....t221 Yes No
- b. **Selected barn**.....t222 Yes No
11. Were any livestock, excluding poultry, on the farm, or located within 350 yards of the farm, fed hay or grain in the pasture or in outdoor feed troughs during the 14-day reference period?
(350 yards is about the length of three football fields.).....t223 Yes No Don't Know
12. What is the water source for poultry?
- a. Off-site fresh water (for example, municipal, federal, cooperative, community, commercial).....t224 Yes No
- b. Well.....t225 Yes No
- c. Surface water (for example, pond).....t226 Yes No
- d. Other (specify: _____) t228otht227 Yes No
13. Are water treatments such as chlorination used in the drinking water for the poultry on this farm?
t228 Yes No
- a. If Yes, are these treatments given:t229 Continuously? Intermittently?
14. Are windbreaks present on this farm?

Windbreak type	Present?	If Yes, distance to closest poultry barn	
a. Evergreen or juniper	<input type="radio"/> Yes <input type="radio"/> No	_____ yards	t230/t233
b. Deciduous tree	<input type="radio"/> Yes <input type="radio"/> No	_____ yards	t231/t234

c. Structural (for example, hill, natural break)	O ₁ Yes O ₃ No	_____ yards

t232/t235

15. Are the following water body type(s) visible or within 350 yards (about three football fields) of this farm?

- a. Pond.....t236 O₁ Yes O₃ No
- b. Lake.....t237 O₁ Yes O₃ No
- c. Stream.....t238 O₁ Yes O₃ No
- d. River.....t239 O₁ Yes O₃ No
- e. Wetland or swamp.....t240 O₁ Yes O₃ No
- f. Wastewater lagoon.....t241 O₁ Yes O₃ No
- g. Standing water during the 14-day reference period.....t242 O₁ Yes O₃ No
- h. Drainage ditch or canal.....t243 O₁ Yes O₃ No
- i. Other (specify: _____) t245oth.....t244 O₁ Yes O₃ No

[If Question 15 a through i are all equal to No, skip to Question 17.]

16. For those water bodies, including drainage ditches and lagoons within 350 yards on the farm, approximately how many wild waterfowl or shorebirds (for example, ducks, geese, wading birds, gulls) were seen on the water during the 14-day reference period? *[Check one only.]* t245

- O₁ None O₂ Tens O₃ Hundreds O₄ Thousands O₅ Don't know

17. What is the distance (in yards) of the closest body of water (for example, pond, lake, stream, river, wetland) to this farm?.....t246 _____yards

18. In the 14-day reference period, approximately how many wild waterfowl or shorebirds (for example, ducks, geese, wading birds, gulls) might have been seen on this body of water at one time? *[Check one only.]* t247

- O₁ None O₂ Tens O₃ Hundreds O₄ Thousands O₅ Don't know

19. What is the approximate distance (in yards) to the closest field where crops or hay are harvested?

t248 _____yards

20. What crop was last grown in this field? *[Check one only.]* t249

- O₁ Corn
- O₂ Soybeans
- O₃ Alfalfa or grass intended for livestock feed

O₄ Other (specify: _____) t250oth

O₅ Don't know

21. Was this field tilled in:

a. Fall 2021?t250 O₁ Yes O₃ No O₄ Don't know

b. Spring 2022?t251 O₁ Yes O₃ No O₄ Don't know

22. Was this field actively worked (for example, tilled, disked, hay harvested, trees cut, row crops

harvested) during the 14-day reference period?.....t252 O₁ Yes O₃ No O₄ Don't know

23. For this closest field, approximately how many wild waterfowl or shorebirds (for example, ducks, geese, wading birds, gulls) were seen during the 14-day reference period? [Check one only.] t253

O₁ None O₂ Tens O₃ Hundreds O₄ Thousands O₅ Don't know

Section C – Wild Birds

1. During the 14-day reference period, how frequently were the following types of wild birds seen on the farm and within 100 yards of the outside of the barns?

Bird type	Often	Sometimes	Never	
a. Waterfowl (for example, ducks, geese)	O ₁	O ₂	O ₃	t301
b. Gulls	O ₁	O ₂	O ₃	t302
c. Small perching birds (for example, sparrows, starlings, swallows)	O ₁	O ₂	O ₃	t303
d. Blackbirds and crows	O ₁	O ₂	O ₃	t304
e. Other water birds (for example, egrets, cormorants)	O ₁	O ₂	O ₃	t305
f. Wild turkeys, pheasants, quail	O ₁	O ₂	O ₃	t306
g. Raptors (for example, eagles, hawks, owls, vultures)	O ₁	O ₂	O ₃	t307
h. Pigeons and doves	O ₁	O ₂	O ₃	t308
i. Other (specify: _____) t309oth	O ₁	O ₂	O ₃	t309

2. During the 14-day reference period, how frequently were the following types of wild birds seen inside the **selected barn**?

Bird type	Often	Sometimes	Never	
a. Large birds (for example, pigeons, crows)	O ₁	O ₂	O ₃	t310
b. Small birds (for example, finches, sparrows, starlings)	O ₁	O ₂	O ₃	t311
c. Other (specify: _____) t312oth	O ₁	O ₂	O ₃	t312

3. During the 14-day reference period, did you or other farm workers observe any of the following types of **sick or dead** wild birds **inside** the barns or **outside** of the barns?

Sick/dead bird type	Inside the barns	Outside the barns	
a. Large birds (for example, pigeons, crows)	O ₁ Yes O ₃ No	O ₁ Yes O ₃ No	t313/t316
b. Small birds (for example, finches, sparrows, starlings)	O ₁ Yes O ₃ No	O ₁ Yes O ₃ No	t314/t317
c. Other (specify: _____) t315oth	O ₁ Yes O ₃ No	O ₁ Yes O ₃ No	t315/t318

4. If Yes to Questions 3a, 3b, or 3c, what was done with the sick or dead wild birds?

- a. Left for predators.....t319 O₁ Yes O₃ No
- b. Disposal by same method used for daily turkey mortality on farm.....t320 O₁ Yes O₃ No
- c. Taken to rehab center, animal control or veterinarian.....t321 O₁ Yes O₃ No
- d. Something else (specify: _____) t322oth.....t322 O₁ Yes O₃ No

Section D – Farm Biosecurity

1. What best describes the road surface on this farm that vehicles coming onto the operation drive on?

[Check one only.] t401

O₁ Hard top/asphalt

O₂ Gravel

O₃ Dirt

O₄ Other (specify: _____) t401oth

2. In general, do the following types of vehicles:

Codes for question 2
1 = come to the perimeter of the farm only

2 = enter the farm but not near the barns
3 = come near the barns
4 = do not come at all

Enter the codes that apply.

- a. Garbage or dumpster pick up.....t402 _____ code
 - b. Propane delivery.....t403 _____ code
 - c. Feed delivery.....t404 _____ code
 - d. Feed ingredient delivery.....t405 _____ code
 - e. Renderer.....t406 _____ code
 - f. Company personnel (for example, catch/vaccination crew, barn workers, service person, veterinarian).....t407 _____ code
 - g. Other business visitors (for example, meter reader, repairman).....t408 _____ code
3. In general, how many vehicles (including employee vehicles) come to the following locations on a weekly basis?
- a. Perimeter of the farm only.....t409 _____ vehicles per week
 - b. Enter the farm but not near the barns.....t410 _____ vehicles per week
 - c. Come near the barns.....t411 _____ vehicles per week
4. Excluding driveways on farm, what is the distance (in yards or miles) from this farm to the nearest public gravel or dirt road?.....t412y _____ yards OR t412m _____ miles
5. How frequently is vegetation mowed and/or bush hogged on the premises?
(Answer for when vegetation is present, for example, spring and summer).....t413 _____ times/month
6. Was there a wash station or spray area being used for vehicles during the 14-day reference period?
t414 O₁ Yes O₃ No

[If Question 6 = No, SKIP to Question 8.]

7. During the 14-day reference period, was the vehicle wash station or spray area:
- a. Located on the farm?.....t415 O₁ Yes O₃ No
 - b. Were the vehicle tires washed?.....t416 O₁ Yes O₃ No
 - c. Was the vehicle exterior washed?.....t417 O₁ Yes O₃ No
 - d. Was the vehicle interior cleaned (for example, floor mats).....t418 O₁ Yes O₃ No
 - e. Were the following vehicles washed?
 - i. Worker vehicles.....t419 O₁ Yes O₃ No O₄ NA
 - ii. Feed trucks.....t420 O₁ Yes O₃ No O₄ NA
 - iii. Vehicles delivering or removing birds.....t421 O₁ Yes O₃ No O₄ NA

- iv. Other vehicles (specify: _____) t422oth.....t422 **O₁ Yes O₃ No O₄ NA**
- f. What disinfectant was used?.....t423 _____
- g. What was the distance from the vehicle wash station to the **selected barn** in yards?
t424 _____yards
8. Did workers and visitors always, sometimes, or never park in a restricted area away from the poultry barns during the 14-day reference period?
- a. Workers.....t425 **O₁ Always O₂ Sometimes O₃ Never**
- b. Visitors.....t426 **O₁ Always O₂ Sometimes O₃ Never**
9. During the 14-day reference period, were wild mammals, such as raccoons, opossums, skunks, coyotes, or foxes, or evidence of their presence, seen in or around poultry barns?
t427 **O₁ Yes O₃ No**
10. During the 14-day reference period, which of the following pest and wild bird control measures were used on this farm?
- a. Rat and mouse bait stations.....t428 **O₁ Yes O₃ No**
i. If Yes, how frequently are they checked per month?.....t429 _____times/month
- b. Beetle control (for example, sprays, baits, boric acid).....t430 **O₁ Yes O₃ No**
- c. Fly control (for example, baits, larvicide, space sprays/fogger, biological predators)
.....t431 **O₁ Yes O₃ No**
- d. Netting on barns to prevent wild bird access.....t432 **O₁ Yes O₃ No**
11. How often were rodents observed in the **selected barn** during the 14-day reference period? [*Check one only.*] t433
O₁ Frequently (for example, daily)
O₂ Occasionally (for example, weekly)
O₃ Never
12. What was the intensity of beetles observed in the **selected barn** during the 14-day reference period? [*Check one only.*] t434
O₁ High
O₂ Medium
O₃ Low
O₄ None
13. What was the intensity of flies observed in the **selected barn** during the 14-day reference period? [*Check one only.*] t435

- O₁ High
- O₂ Medium
- O₃ Low
- O₄ None

14. Does the **selected barn** have a hard-surface entry pad (for example, concrete, asphalt)?

t436 O₁ Yes O₃ No

If Yes,

a. Is the entry pad cleaned?.....t437 O₁ Yes O₃ No

i. If Yes, specify frequency t438/t438a _____times/ O₁ week O₂ month OR O₃ year

b. Is disinfectant used?.....t439 O₁ Yes O₃ No

15. During the 14-day reference period, how frequently were wild birds, wild animals, and rodents able to access poultry feed or feed ingredients (for example, feed spillage, open bag, cover left open)?

For this question, “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.

Type	Always	Most of the time	Sometimes	Never	
a. Wild birds	O ₁	O ₂	O ₃	O ₄	t440
b. Wild animals (such as raccoons, opossums, skunks, coyotes, or foxes)	O ₁	O ₂	O ₃	O ₄	t441
c. Rodents	O ₁	O ₂	O ₃	O ₄	t442

16. Does this farm have a written wildlife management plan that includes methods to minimize wildlife or wild bird entry and reduce wildlife attractants such as standing water? t443 O₁ Yes O₃ No

17. In the 2 years before the 14-day reference period, were any biosecurity audits or assessments (company or third party) conducted on this farm? t444 O₁ Yes O₃ No O₄ Don't know

18. Considering the following biosecurity topics, how challenging would you say these are for producers to achieve? [Check one box per row.]

	Not at all challenging	Slightly challenging	Somewhat challenging	Quite challenging	Extremely challenging	
a. Keeping feed safe from rodents	O ₁	O ₂	O ₃	O ₄	O ₅	t445

b. Keeping feed safe from wildlife	O ₁	O ₂	O ₃	O ₄	O ₅
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t446

Section E – Biosecurity Investments

1. Over the past year, has this farm had the following ongoing biosecurity expenses?

If Yes, what was the typical monthly cost of each?

Biosecurity type	Ongoing expenses?	If Yes, what is the typical monthly cost?	
a. Wash station or spray area being used for vehicles	O ₁ Yes O ₃ No	\$ _____	t501/t507
b. Foot baths	O ₁ Yes O ₃ No	\$ _____	t502/t508
c. Pest and bait stations	O ₁ Yes O ₃ No	\$ _____	t503/t509
d. Wash stations for employees (for example, sinks, showers)	O ₁ Yes O ₃ No	\$ _____	t504/t510
e. PPE for employees and visitors (for example, gloves, coveralls, boot covers)	O ₁ Yes O ₃ No	\$ _____	t505/t511
f. Other (specify: _____) t506oth	O ₁ Yes O ₃ No	\$ _____	t506/t512
Total monthly cost		\$ _____	t513

2. Since 2015, has this farm built or made **permanent** improvements or renovations on the following farm structures that impact the farm’s biosecurity?

- a. A service room that personnel must enter through that separates “outside area” from “inside area” (for example, Danish entry).....t514 O₁ Yes O₃ No
- b. Wash stations for employees (for example, sinks, showers).....t515 O₁ Yes O₃ No
- c. Permanent improvements or renovations to limit wild bird access to barns t516 O₁ Yes O₃ No
- d. Barn ventilation system.....t517 O₁ Yes O₃ No
- e. Other barn improvements or renovations.....t518 O₁ Yes O₃ No
- f. Feed bins.....t519 O₁ Yes O₃ No

- g. Permanent vehicle wash stations (for example, automated truck wash)....t520 O₁ Yes O₃ No
- h. Other (specify: _____) t521oth.....t521 O₁ Yes O₃ No
- i. If Yes to any in 2a through 2h, what was the approximate total cost of **all** of these improvements?_ t522 \$ _____
3. Over the next two years, does this farm have plans to build or make **permanent** improvements or renovations on farm structures such as barns, feed bins, or other structures that impact the farm's biosecurity?.....t523 O₁ Yes O₃ No
4. Since 2015, has this farm built or installed any of the following **temporary** structures or infrastructure that impact the farm's biosecurity?
- a. Gates.....t524 O₁ Yes O₃ No
- b. Parking area.....t525 O₁ Yes O₃ No
- c. Temporary wild bird mitigationt526 O₁ Yes O₃ No
- d. Landscape fabric on air intake inlets or curtains.....t527 O₁ Yes O₃ No
- e. Temporary vehicle wash stations (for example, hand sprayer).....t528 O₁ Yes O₃ No
- f. Other (specify: _____) t529oth.....t529 O₁ Yes O₃ No
- g. If Yes to any in 4a through 4f, what was the approximate total cost of **all** of these improvements?_ t530 \$ _____
5. Over the next two years, does this farm have plans to build or install any **temporary** structures that impact the farm's biosecurity?.....t531 O₁ Yes O₃ No
6. How much did the 2014-2015 HPAI outbreak influence your decisions about biosecurity investments for this farm?.....t532 O₁ Not at all O₂ Slightly O₃ Somewhat O₄ Quite a bit O₅ Extremely

Section F – Farm Help / Workers

Questions in this section refer to persons such as the producer, employees, farm help, crews, etc.

1. What is the total number of employees working on this farm that have access to or directly work with poultry (including family, both paid and unpaid)?.....t601 _____ #
2. Did this farm use occasional or emergency workers such as family members or part-time help to fill in for any employees during the 14-day reference period?.....t602 O₁ Yes O₃ No
3. During the 14-day reference period, how frequently were the following measures used by workers entering the **selected barn**?

For this question, “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. N/A=not applicable.

Measure	Always	Most of the time	Sometimes	Never	N/A-Not available	
a. An established clean/dirty line	O ₁	O ₂	O ₃	O ₄	O ₅	t603
b. A service room that personnel must enter through that separates “outside area” from “inside area”	O ₁	O ₂	O ₃	O ₄	O ₅	t604
c. Shower	O ₁	O ₂	O ₃	O ₄	O ₅	t605
d. Wash hands or use hand sanitizer before entering the barn	O ₁	O ₂	O ₃	O ₄	O ₅	t606
e. Wear disposable gloves	O ₁	O ₂	O ₃	O ₄	O ₅	t607
f. Different personnel for different barns	O ₁	O ₂	O ₃	O ₄	O ₅	t608
g. Locks on the barn doors	O ₁	O ₂	O ₃	O ₄	O ₅	t609
h. Wear disposable coveralls	O ₁	O ₂	O ₃	O ₄	O ₅	t610
i. Change of clothing/coveralls (washable)	O ₁	O ₂	O ₃	O ₄	O ₅	t611
j. Change of shoes or use of shoe covers	O ₁	O ₂	O ₃	O ₄	O ₅	t612
k. Scrub footwear (bucket and brush)	O ₁	O ₂	O ₃	O ₄	O ₅	t613
l. Foot bath (liquid)	O ₁	O ₂	O ₃	O ₄	O ₅	t614
m. Foot bath (dry, such as powdered or particulate)	O ₁	O ₂	O ₃	O ₄	O ₅	t615

[If both Question 3 l and m = not available, SKIP to Question 5.]

4. What was the frequency that liquid or dry footbath solutions were changed for the **selected barn** during the 14-day reference period? t616/t616a _____ times/ O₁ week O₂ month OR O₃ year

a. What disinfectant was used in the footbaths?.....t617 _____

5. During a typical month, do any workers on this farm visit another poultry farm?

t618 O₁ Yes O₃ No O₄ Don't know

6. Are any workers or members of their household employed by other poultry operations, other company farms, rendering plants, or processing plants?

a. Workers.....t619 Yes No Don't know

b. Members of household.....t620 Yes No Don't know

7. Do any employees own their own poultry, including small backyard flocks?

t621 Yes No Don't know

8. Are employees required to stay off farm after exposure to other poultry?.....t622 Yes No

a. If Yes, for how long (hours)?.....t623 _____ hours

9. In a typical week, how much time is spent by **all** employees on biosecurity activities on the farm?

t624 _____ hours

10. Considering the following personnel-related topics, how challenging would you say these are for producers to achieve? [Check one box per row.]

	Not at all challenging	Slightly challenging	Somewhat challenging	Quite challenging	Extremely challenging	
a. Hiring new personnel	O ₁	O ₂	O ₃	O ₄	O ₅	t625
b. Retaining trained personnel	O ₁	O ₂	O ₃	O ₄	O ₅	t626
c. Communicating the importance of biosecurity to personnel	O ₁	O ₂	O ₃	O ₄	O ₅	t627
d. Enforcing daily biosecurity measures	O ₁	O ₂	O ₃	O ₄	O ₅	t628
e. Other personnel-related challenges (Specify: t629oth _____)	O ₁	O ₂	O ₃	O ₄	O ₅	t629

Section G – Farm Visitors

1. How often is a visitor log used to record visitor traffic onto the farm?

t701 O₁ Always O₂ Sometimes O₃ Never

2. Did any of the following types of people visit the farm during the 14-day reference period?

If Yes, how many times did they visit during the 14-day reference period and did they enter the selected barn?

Visitor type	Did they visit the farm?	If Yes,		
		How many times did they visit?	Did this visitor enter the selected barn?	
a. Federal/State veterinary or animal health worker	O ₁ Yes O ₃ No	____ # visits	O ₁ Yes O ₃ No	t702/t725/t748
b. Extension agent or university veterinarian	O ₁ Yes O ₃ No	____ # visits	O ₁ Yes O ₃ No	t703/t726/t749
c. Private or company veterinarian	O ₁ Yes O ₃ No	____ # visits	O ₁ Yes O ₃ No	t704/t727/t750
d. Company service person	O ₁ Yes O ₃ No	____ # visits	O ₁ Yes O ₃ No	t705/t728/t751
e. Nutritionist or feed company consultant	O ₁ Yes O ₃ No	____ # visits	O ₁ Yes O ₃ No	t706/t729/t752
f. Bird delivery personnel (for example, poult placement, brood to grow move)	O ₁ Yes O ₃ No	____ # visits	O ₁ Yes O ₃ No	t707/t730/t753
g. Vaccination crew	O ₁ Yes O ₃ No	____ # visits	O ₁ Yes O ₃ No	t708/t731/t754
h. Catch crew (bird removal)	O ₁ Yes O ₃ No	____ # visits	O ₁ Yes O ₃ No	t709/t732/t755
i. Artificial insemination crew (for breeder farms)	O ₁ Yes O ₃ No	____ # visits	O ₁ Yes O ₃ No	t710/t733/t756
j. Feed ingredient delivery person	O ₁ Yes O ₃ No	____ # visits	O ₁ Yes O ₃ No	t711/t734/t757
k. Feed delivery personnel	O ₁ Yes O ₃ No	____ # visits	O ₁ Yes O ₃ No	t712/t735/t758
l. Egg truck personnel (for breeder farms)	O ₁ Yes O ₃ No	____ # visits	O ₁ Yes O ₃ No	t713/t736/t759
m. Fresh litter delivery services	O ₁ Yes O ₃ No	____ # visits	O ₁ Yes O ₃ No	t714/t737/t760
n. Litter removal services (for example, litter broker, litter	O ₁ Yes O ₃ No	____ # visits	O ₁ Yes O ₃ No	t715/t738/t761

disposal)				
o. Customer (private individual)	O ₁ Yes O ₃ No	___ # visits	O ₁ Yes O ₃ No	t716/t739/t762
p. Wholesaler, buyer, or dealer	O ₁ Yes O ₃ No	___ # visits	O ₁ Yes O ₃ No	t717/t740/t763
q. Renderer	O ₁ Yes O ₃ No	___ # visits	O ₁ Yes O ₃ No	t718/t741/t764
r. Dead bird pickup other than by renderer	O ₁ Yes O ₃ No	___ # visits	O ₁ Yes O ₃ No	t719/t742/t765
s. Rodent control crew	O ₁ Yes O ₃ No	___ # visits	O ₁ Yes O ₃ No	t720/t743/t766
t. Occasional worker (for example, family member, part-time help over holiday)	O ₁ Yes O ₃ No	___ # visits	O ₁ Yes O ₃ No	t721/t744/t767
u. Construction workers, repair or maintenance personnel	O ₁ Yes O ₃ No	___ # visits	O ₁ Yes O ₃ No	t722/t745/t768
v. Other business visitors (including other producers, meter readers, package delivery (UPS), propane, or similar)	O ₁ Yes O ₃ No	___ # visits	O ₁ Yes O ₃ No	t723/t746/t769
w. Other nonbusiness visitors (including neighbors, family members, friends, and school field trips)	O ₁ Yes O ₃ No	___ # visits	O ₁ Yes O ₃ No	t724/t747/t770

3. For those visitors who entered the **selected barn** during the 14-day reference period, did you require the following? [Check one per row.]

	Yes, verified at farm	Yes, visitor responsibility	No	
a. Change of outer clothing/farm specific clothing/coveralls	O ₁	O ₂	O ₃	t771
b. Foot covers or change of footwear	O ₁	O ₂	O ₃	t772
c. Mask	O ₁	O ₂	O ₃	t773
d. Hand sanitizing or handwashing	O ₁	O ₂	O ₃	t774
e. Gloves	O ₁	O ₂	O ₃	t775
f. Not visit multiple farms in the same day	O ₁	O ₂	O ₃	t776

g. Other (specify: _____) t777oth	O ₁	O ₂	O ₃	t777
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4. How often is a restroom facility (including portable) available to crews that visit the farm?

t778 O₁ Always (24 hours/day) O₂ Sometimes O₃ Never

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Section H – Farm Vehicles and Equipment

1. Were the following vehicles shared with another farm during the 14-day reference period?
If Yes, how often were they cleaned and disinfected prior to returning to this farm?

Vehicle type	Shared with another farm in the 14-day reference period?	If Yes, how often was it cleaned and disinfected prior to returning to this farm?	
a. Company trucks or trailers (for example, pickup truck, trailer with supplies, supervisor truck, or similar)	O ₁ Yes O ₃ No	O ₁ Always O ₂ Sometimes O ₃ Never	t801/t810
b. Feed trucks	O ₁ Yes O ₃ No	O ₁ Always O ₂ Sometimes O ₃ Never	t802/t811
c. Feed ingredient truck	O ₁ Yes O ₃ No	O ₁ Always O ₂ Sometimes O ₃ Never	t803/t812
d. Bird delivery vehicles (for example, placing birds)	O ₁ Yes O ₃ No	O ₁ Always O ₂ Sometimes O ₃ Never	t804/t813
e. Bird removal vehicles (for example, moved to slaughter, moved to grow)	O ₁ Yes O ₃ No	O ₁ Always O ₂ Sometimes O ₃ Never	t805/t814
f. Egg removal vehicles (for breeder farms)	O ₁ Yes O ₃ No	O ₁ Always O ₂ Sometimes O ₃ Never	t806/t815
g. Manure/litter hauling	O ₁ Yes O ₃ No	O ₁ Always O ₂ Sometimes O ₃ Never	t807/t816
h. ATV/4-wheeler	O ₁ Yes O ₃ No	O ₁ Always O ₂ Sometimes O ₃ Never	t808/t817
i. Other (specify: _____) t809oth	O ₁ Yes O ₃ No	O ₁ Always O ₂ Sometimes	t809/t818

		O ₃ Never
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2. Were the following pieces of equipment shared with another farm during the 14-day reference period?
If Yes, how often were they cleaned and disinfected prior to returning to this farm?

Equipment type	Shared with another farm in the 14-day reference period?	If Yes, how often was it cleaned and disinfected prior to returning to this farm?	
a. Gates/panels	O ₁ Yes O ₃ No	O ₁ Always O ₂ Sometimes O ₃ Never	t819/t830
b. Lawn mowers	O ₁ Yes O ₃ No	O ₁ Always O ₂ Sometimes O ₃ Never	t820/t831
c. Live haul loaders	O ₁ Yes O ₃ No	O ₁ Always O ₂ Sometimes O ₃ Never	t821/t832
d. Catch pens	O ₁ Yes O ₃ No	O ₁ Always O ₂ Sometimes O ₃ Never	t822/t833
e. Scales for weighing birds	O ₁ Yes O ₃ No	O ₁ Always O ₂ Sometimes O ₃ Never	t823/t834
f. Vaccination equipment	O ₁ Yes O ₃ No	O ₁ Always O ₂ Sometimes O ₃ Never	t824/t835
g. Pressure sprayers/washers/foamers	O ₁ Yes O ₃ No	O ₁ Always O ₂ Sometimes O ₃ Never	t825/t836
h. Skid-steer loaders	O ₁ Yes O ₃ No	O ₁ Always O ₂ Sometimes O ₃ Never	t826/t837
i. Litter/manure handling	O ₁ Yes O ₃ No	O ₁ Always O ₂ Sometimes O ₃ Never	t827/t838

j. Tillers/de-caking equipment	O ₁ Yes O ₃ No	O ₁ Always O ₂ Sometimes O ₃ Never	t828/t839
k. Other (specify: _____) t829oth	O ₁ Yes O ₃ No	O ₁ Always O ₂ Sometimes O ₃ Never	t829/t840

3. Considering the following equipment-related topics, how challenging would you say these are for producers to achieve? [Check one box per row.]

	Not at all challenging	Slightly challenging	Somewhat challenging	Quite challenging	Extremely challenging	
a. Keeping shared vehicles cleaned and disinfected	O ₁	O ₂	O ₃	O ₄	O ₅	t841
b. Keeping shared small equipment (such as catch pens or litter tillers) cleaned and disinfected	O ₁	O ₂	O ₃	O ₄	O ₅	t842
c. Other equipment or vehicle-related challenges (Specify: t843oth _____)	O ₁	O ₂	O ₃	O ₄	O ₅	t843

Section I – Litter Handling

1. Was fresh litter/bedding brought onto the farm during the 14-day reference period?

t901 O₁ Yes O₃ No

a. If Yes, who brought the fresh litter onto the farm? [Check one only.] t902

O₁ Company personnel

O₂ Litter provider

O₃ Other (specify: _____) t902oth

2. Is the fresh litter heat treated prior to delivery? t903 O₁ Yes O₃ No O₄ Don't know
3. Prior to use, is fresh litter stored on the farm:
- a. Outside.....t904 O₁ Yes O₃ No
- i. If Yes, is it covered?.....t905 O₁ Yes O₃ No
- b. In a shedt906 O₁ Yes O₃ No
- i. If Yes, is the shed closed?.....t907 O₁ Yes O₃ No

[If both Questions 3 a and b = No, SKIP to Question 6.]

4. What is the distance (in yards) from the on-site fresh litter storage area to the **selected barn**?
.....t908 _____ yards
5. Prior to use, is fresh litter accessible to:
- a. Wild birds.....t909 O₁ Yes O₃ No
- b. Wild animals (for example, raccoons, opossum, coyotes, foxes).....t910 O₁ Yes O₃ No
- c. Domestic animals (for example, dogs, cats).....t911 O₁ Yes O₃ No
6. What was the date that used litter was last removed from any barn on this farm prior to the end of the 14-day reference period?.....t912 _____ mm/dd/yy
7. How was used litter disposed of prior to or during the 14-day reference period?
- a. Composted on-farm.....t913 O₁ Yes O₃ No
- i. If Yes, what is the distance (in yards) to the **selected barn**?.....t914 _____ yards
- b. Stored on-farm.....t915 O₁ Yes O₃ No
- c. Applied to land on this farm.....t916 O₁ Yes O₃ No
- i. If Yes, what was the date litter was applied to land?.....t917 _____ mm/dd/yy
- d. Taken off-site.....t918 O₁ Yes O₃ No
8. Was manure or used litter from other farms brought onto this farm or adjacent farms prior to or during the reference period? t919 O₁ Yes O₃ No O₄ Don't know
9. How many times was fresh litter added to the **selected barn** during the reference period?
t920 _____ times

These next three questions ask about the litter management practices for the selected barn around the time of the 14-day reference period.

10. Was litter "tilled" after it was placed in the **selected barn**?.....t921 O₁ Yes O₃ No
11. Was there a partial clean out of the **selected barn**?.....t922 O₁ Yes O₃ No

12. When was the last full clean out of the **selected barn**? [Check one only.] t923

- O₁ Prior to this flock
- O₂ Two flocks ago
- O₃ Three or more flocks ago

Section J – Dead Bird Disposal

1. What is the approximate normal daily mortality on this farm?.....t1001 _____ #/day
2. During the 14-day reference period, what were the method(s) of dead bird (daily mortality) disposal on this farm?
 - a. Composting.....t1002 O₁ Yes O₃ No
 - b. Burial.....t1003 O₁ Yes O₃ No
 - c. Incineration.....t1004 O₁ Yes O₃ No
 - d. Rendering.....t1005 O₁ Yes O₃ No
 - e. Landfill.....t1006 O₁ Yes O₃ No
 - f. Other (specify: _____) t1007oth.....t1007 O₁ Yes O₃ No
3. If Question 2a (composting) or Question 2b (burial) is Yes, how frequently are carcasses covered with:
 - a. Soil?.....t1008 O₁ Daily O₂ Every 2 or more days O₃ Never
 - b. Manure?.....t1009 O₁ Daily O₂ Every 2 or more days O₃ Never
4. If Question 2d (rendering) is Yes,
 - a. Is the carcass bin kept covered?.....t1010 O₁ Yes O₃ No
 - b. Are carcasses: [Check one only.] t1011
 - O₁ Taken by the producer or worker to the renderer?
 - O₂ Picked up by the renderer from the farm?
 - c. How many times were carcasses moved to the renderer during the 14-day reference period?

t1012 _____ # times
5. Does this farm have an alternative mortality disposal plan if the typical method is disrupted and carcasses cannot be moved off farm?.....t1013 O₁ Yes O₃ No
6. Were any wild birds or wild mammals observed around the dead bird collection area (such as burial, compost pile, rendering bin, or similar) during the 14-day reference period?
 - a. Wild birds.....t1014 O₁ Yes O₃ No

- b. Wild mammals.....t1015 O₁ Yes O₃ No
7. During the 14-day reference period, did this farm use a shared collection point for dead bird disposal?
[Check one only.] t1016 O₁ Yes – located on this farm O₂ Yes – located off this farm O₃ No
8. How far is the **selected barn** (in yards) from the dead bird disposal/holding area including carcass bin for rendering?.....t1017 _____yards

Section K – Selected Barn Characteristics

Answer this entire section for the selected barn that was chosen in Section B. Answer questions for the 14-day reference period.

1. Which best describes the ground surface immediately surrounding (within 1 yard) this barn (excluding vehicle approach and loading area)? [Check one only.] t1101
- O₁ Gravel or hard surface
- O₂ Dirt
- O₃ Short grass
- O₄ Tall grass or brush
2. Were the following type(s) of poultry present in this barn during the 14-day reference period?
- a. Brooder.....t1102 O₁ Yes O₃ No
- b. Grower toms.....t1103 O₁ Yes O₃ No
- c. Grower hens.....t1104 O₁ Yes O₃ No
- d. Breeders.....t1105 O₁ Yes O₃ No
- e. Other (specify: _____) t1106oth.....t1106 O₁ Yes O₃ No
3. For the flock that was present during the 14-day reference period, how many birds were placed in this barn?.....t1107 _____ # birds
4. What was the date of placement in this barn?.....t1108 _____ mm/dd/yy
5. How old were birds when placed in this barn?..t1109d _____ days OR t1109w _____ weeks
6. Were different stages of production (for example, brooders and growers) present in this barn at the same time during the 14-day reference period?.....t1110 O₁ Yes O₃ No
7. Was there a partial load-out of this barn during the reference period?.....t1111 O₁ Yes O₃ No
8. Was there another health concern in this flock during the reference period?.....t1112 O₁ Yes O₃ No
- a. If Yes, specify condition: t1113 _____

9. Was this flock being treated for a condition or health concern during the reference period?
 t1114 O₁ Yes O₃ No
- a. If Yes, specify treatment: t1115 _____
10. How old is this barn structure?.....t1116 _____ years
11. How long has it been since the last remodel of the barn structure?.....t1117 _____ years
 t1117a O₁ NA – Never remodeled
12. How well has the barn structure been maintained? [Check one only.] t1118
 O₁ Well – For example, walls, curtains, and mud boards do not have holes, no visible daylight, the barn is tight and well insulated
 O₂ Moderate – For example, barn could have rust or small holes, mud boards may be damaged, curtains may be torn or not in good repair, curtains may not close all the way, insulation may not be in good repair, the poly may be hanging from the ceiling
 O₃ Poor – For example, holes in walls and mud boards are apparent, tin is rusted, may have leaks in roof, there might be some holes large enough for wild birds to enter, multiple areas with daylight visible, insulation may be hanging from the ceiling
13. Is this barn bird proof?.....t1119 O₁ Yes O₃ No
14. During the 14-day reference period, did you notice any water seepage into the barn (for example, water entering the barn from snowmelt or rainwater)?.....t1120 O₁ Yes O₃ No O₄ Don't know
15. What type of ventilation was used for this barn during the 14-day reference period? [Check one only.]
 t1121
 O₁ Curtain ventilated
 O₂ Environmental control/tunnel ventilation
 O₃ Side doors (such as tip outs)
 O₄ Other (specify: _____) t1121oth
16. During the 14-day reference period,
 a. What percentage of time were the curtains open? t1122/t1133 _____ % time o₄ Don't know
 b. How many days were the curtains open or partially open? t1123 /t1134 _____ # days o₄ Don't know
17. Was intake air filtered during the 14-day reference period?.....t1124 O₁ Yes O₃ No
 a. If Yes, specify type of filter: t1125 _____
18. During the 14-day reference period, was landscape fabric in place on either air intake inlets or along curtains on the barn?
 a. On air intake inlets.....t1126 O₁ Yes O₃ No

b. Along curtains.....t1127 O₁ Yes O₃ No

[If both Question 18a and 18b = No, SKIP to Question 21.]

19. During the 14-day reference period, was any of this landscape fabric installed or replaced on either air intake inlets or along curtains?.....t1128 O₁ Yes O₃ No

20. During the 14-day reference period, was any of this landscape fabric sprayed with disinfectant on either air intake inlets or along curtains?.....t1129 O₁ Yes O₃ No

a. If Yes, how often was it sprayed:t1130/t1130a _____ times / O₁ day OR O₂ week

21. How frequently were the following used in this barn during the 14-day reference period? *[Check one per row.]*

	Used regularly	Not used regularly	Not available	
a. Cool cell pads	O ₁	O ₂	O ₃	t1131
b. Misterns	O ₁	O ₂	O ₃	t1132

Section L – Office Use Only

- Interview response code. *[Check only one.]* t1201
 - O₁ Survey completed
 - O₂ Refused
 - O₃ Out of business
 - O₄ No turkeys present during 2022
 - O₅ Inaccessible
 - O₆ Other (specify: _____) t1201oth

Comment Section

Please use this section for anything else that you would like to add. For example, how do you think HPAI was/is spreading within your geographic area? t1301