



Animal and
Plant Health
Inspection
Service

Veterinary
Services

National Animal Health
Monitoring System

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Fort Collins, CO 80526

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Poultry 2010 Company Questionnaire

Goals:

1. To describe overall poultry industry structure including movements from one segment of the industry to the next.
2. To describe general company biosecurity policies.

Definitions:

Farm: A premises with one or more poultry house(s) under common management, including company-owned and contract farms.

Flock: A group of birds housed together in one house and managed as a unit.

Primary breeder flock: A breeding flock that produces chicks/poults that will become breeding birds (grandparent and higher).

Multiplier (parent) flock: A breeding flock that produces chicks/poults that will become broilers, table egg layers, and market turkeys.

Breeder company: A company that owns only breeder flocks, and does not own any production flocks.

Type of company [Check one only.]

- ₁ Breeder [Go to section I.]
- ₂ Broiler [Go to section II.]
- ₃ Turkey [Go to section III.]
- ₄ Table egg layer [Go to section IV.]

Section I: Breeder

1. Type of breeder company: [Check one only.]

- ₁ Broiler breeders
- ₂ Layer breeders
- ₃ Turkey breeders

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Important: For the following questions, include only farms that have hens and are located in the United States. Farms that have hens as well as pullets and/or males are OK. EXCLUDE farms that have ONLY cocks/toms and farms that have ONLY pullets.

2. How many of your company's breeder farms are:
[Include only farms with hens; no pullet-only or cock/tom-only farms.]
- a. Primary breeder *[If none, enter 0.]*..... _____ farms
 - b. Multiplier/parent *[If none, enter 0.]*..... _____ farms
 - c. Total *[Add Items 2a–2b.]*..... _____ farms

A. Primary Breeder Farms

The next questions refer only to **primary breeder** farms (Item 2a). If no primary breeder farms, **SKIP** to Item 15.

3. How many of your company's **primary breeder** farms are:
- a. Company-owned? _____ farms
 - b. Contract? _____ farms
 - c. Total *[Add Items 3a–3b, should equal Item 2a.]*..... _____ farms
4. How many of these **primary breeder** farms have the following bird types?
- a. Pedigree (Elite/Foundation) only _____ farms
 - b. Great-grandparent only _____ farms
 - c. Elite and other breeders _____ farms
 - d. Great-grandparent and grandparent _____ farms
 - e. Other (specify: _____) _____ farms
 - f. Total *[Add Items 4a–4e, should equal Item 2a.]*..... _____ farms
5. How many of your company's **primary breeder** farms raise pullets on-farm? _____ farms
6. How many of your company's **primary breeder** farms received any birds during the previous 12 months from:
[If a single farm received birds from more than one category, count it in all categories that apply.]
- a. Within the farm's State? _____ farms
 - b. Outside the farm's State but within the United States? _____ farms
 - c. Outside the United States? _____ farms

[If Item 6c = 0, SKIP to Item 8.]

7. How many of these (Item 6c) **primary breeder** farms received birds from:
[If a single farm received birds from more than one category, count it in all categories that apply.]
- a. Canada? _____ farms
 - b. Mexico? _____ farms
 - c. Central America/South America/Caribbean? _____ farms
 - d. Europe? _____ farms
 - e. Asia? _____ farms
 - f. Other country? (specify: _____) _____ farms

8. How many of your company's **primary breeder** farms shipped any **eggs** during the previous 12 months:
[If a single farm shipped eggs to more than one category, count it in all categories that apply.]
- a. Within the farm's State? _____ farms
 - b. Outside the farm's State but within the United States? _____ farms
 - c. Outside the United States? _____ farms

[If Item 8c = 0, SKIP to Item 10.]

9. How many of these (Item 8c) **primary breeder** farms shipped eggs to:
[If a single farm shipped eggs to more than one category, count it in all categories that apply.]
- a. Canada? _____ farms
 - b. Mexico? _____ farms
 - c. Central America/South America/Caribbean? _____ farms
 - d. Europe? _____ farms
 - e. Asia? _____ farms
 - f. Other country? (specify: _____) _____ farms

10. What is the average length of time (in weeks) from placement to removal for your company's **primary breeder** flocks? _____ weeks

The next two questions ask about feed production and delivery.

11. During the previous 12 months, did any of the **feed mills** that produce feed for your company's primary breeder farms:
- a. Produce feed for other companies? ₁ Yes ₂ Don't know ₃ No
 - b. Produce feed for more than one species of poultry? ₁ Yes ₂ Don't know ₃ No
 - c. Produce feed for other species besides poultry? ₁ Yes ₂ Don't know ₃ No

12. During the previous 12 months, did any of the **vehicles** that deliver feed to your company's primary breeder farms:
- a. Deliver feed to farms in different stages of production (within your company or to other companies) (e.g., same vehicle delivers to laying farms and to pullet farms)? ₁ Yes ₂ Don't know ₃ No
 - b. Deliver feed to other companies? ₁ Yes ₂ Don't know ₃ No
 - c. Deliver feed for more than one species of poultry? ₁ Yes ₂ Don't know ₃ No
 - d. Deliver feed for other species besides poultry? ₁ Yes ₂ Don't know ₃ No

The next two questions are for turkey primary breeders only.

13. How many of your company's turkey **primary breeder** farms have toms on the same farm as hens? _____ farms
14. How many tom-only turkey **primary breeder** farms does your company have (either company-owned or contract)? _____ farms

B. Multiplier (Parent) Farms

The next questions refer only to **multiplier (parent)** farms (Item 2b).
If **NO** multiplier (parent) farms, **SKIP** to Item 24.

15. How many of your company's **multiplier (parent)** farms are:
[Include only farms with hens; no pullet-only or cock/tom-only farms.]
- a. Company owned? _____ farms
 - b. Contract? _____ farms
 - c. Total *[Add Items 15a–15b, should equal Item 2b.]* _____ farms
16. How many of these **multiplier (parent)** farms raise pullets on-farm? _____ farms
17. How many of your company's **multiplier (parent)** farms received any birds during the previous 12 months from:
[If a single farm received birds from more than one category, count it in all categories that apply.]
- a. Within the farm's State? _____ farms
 - b. Outside the farm's State but within the United States? _____ farms
 - c. Outside the United States? _____ farms

[If Item 17c = 0, SKIP to Item 19.]

18. How many of these (Item 17c) **multiplier (parent)** farms received birds from:
[If a single farm received birds from more than one category, count it in all categories that apply.]
- a. Canada? _____ farms
 - b. Mexico? _____ farms
 - c. Central America/South America/Caribbean? _____ farms
 - d. Europe? _____ farms
 - e. Asia? _____ farms
 - f. Other country? (specify: _____) _____ farms

19. How many of your company's **multiplier (parent)** farms shipped any **eggs** during the previous 12 months:
[If a single farm shipped eggs to more than one category, count it in all categories that apply.]
- a. Within the farm's State? _____ farms
 - b. Outside the farm's State but within the United States? _____ farms
 - c. Outside the United States? _____ farms

[If Item 19c = 0, SKIP to Item 21.]

20. How many of these (Item 19c) **multiplier (parent)** farms shipped eggs to:
[If a single farm shipped eggs to more than one category, count it in all categories that apply.]
- a. Canada? _____ farms
 - b. Mexico? _____ farms
 - c. Central America/South America/Caribbean? _____ farms
 - d. Europe? _____ farms
 - e. Asia? _____ farms
 - f. Other country? (specify: _____) _____ farms

21. What is the average length of time (in weeks) from placement to removal for your company's **multiplier (parent)** flocks? _____ weeks

The next two questions ask about feed production and delivery.

22. During the previous 12 months, did any of the **feed mills** that produce feed for your company's multiplier (parent) farms:
- a. Produce feed for other companies? ₁ Yes ₂ Don't know ₃ No
 - b. Produce feed for more than one species of poultry? ₁ Yes ₂ Don't know ₃ No
 - c. Produce feed for other species besides poultry? ₁ Yes ₂ Don't know ₃ No

23. During the previous 12 months, did any of the **vehicles** that deliver feed to your company's multiplier (parent) farms:
- a. Deliver feed to farms in different stages of production (e.g., same vehicle delivers to laying farms and to pullet farms)? ₁ Yes ₂ Don't know ₃ No
 - b. Deliver feed to other companies? ₁ Yes ₂ Don't know ₃ No
 - c. Deliver feed for more than one species of poultry? ₁ Yes ₂ Don't know ₃ No
 - d. Deliver feed for other species besides poultry? ₁ Yes ₂ Don't know ₃ No

The next two questions are for turkey multipliers only.

24. How many of your company's turkey **multiplier (parent)** farms have toms on the same farm as hens? _____ farms
25. How many tom-only turkey **multiplier (parent)** farms does your company have (either company-owned or contract)? _____ farms

C. Hatcheries

26. How many hatcheries are owned by your company?..... _____ hatcheries

[If Item 26 = 0, SKIP to End.]

27. How many of these company-owned hatcheries hatched any eggs from other companies or independent producers during the previous 12 months? _____ hatcheries
28. How many of your company-owned hatcheries received any eggs during the previous 12 months from:
[If a single hatchery received eggs from more than one category, count it in all categories that apply.]
- a. Within the hatchery's State? _____ hatcheries
 - b. Outside the hatchery's State but within the United States? _____ hatcheries
 - c. Outside the United States? _____ hatcheries

[If Item 28c = 0, SKIP to Item 30.]

29. How many of these (Item 28c) company-owned hatcheries received eggs from:
[If a single hatchery received eggs from more than one category, count it in all categories that apply.]
- a. Canada? _____ hatcheries
 - b. Mexico? _____ hatcheries
 - c. Central America/South America/Caribbean? _____ hatcheries
 - d. Europe? _____ hatcheries
 - e. Asia? _____ hatcheries
 - f. Other country? (specify: _____) _____ hatcheries

30. During the previous 12 months, how many of your company-owned hatcheries supplied chicks/poults to:
- a. Farms owned by or contracting with your company **only**? _____ hatcheries
 - b. Farms belonging to other companies or independent producers **only**? _____ hatcheries
 - c. Farms owned by or contracting with your company and other companies?.. _____ hatcheries
 - d. Total [*Add Items 30a–30c; should equal Item 26.*] _____ hatcheries

31. How many of your company-owned **hatcheries** shipped any chicks/poults during the previous 12 months:
[If a single hatchery shipped birds to more than one category, count it in all categories that apply.]
- a. Within the hatchery’s State? _____ hatcheries
 - b. Outside the hatchery’s State but within the United States?..... _____ hatcheries
 - c. Outside the United States? _____ hatcheries

[If Item 31 = 0, SKIP to End.]

32. How many of these (Item 31c) company-owned hatcheries shipped birds to:
[If a single hatchery shipped birds to more than one category, count it in all categories that apply.]
- a. Canada?..... _____ hatcheries
 - b. Mexico? _____ hatcheries
 - c. Central America/South America/Caribbean? _____ hatcheries
 - d. Europe?..... _____ hatcheries
 - e. Asia? _____ hatcheries
 - f. Other country? (specify: _____) _____ hatcheries

Conclusion

This completes the company questionnaire. Thank you for your participation.

Please complete a separate Breeder Farm Questionnaire for each Primary Breeder farm or Multiplier (Parent) farm selected to participate in the Breeder Farm phase of the study.

Section II: Broiler Company

A. Broiler Production Farms

The following questions refer to your broiler production farms.

1. How many of your company's broiler farms are:
 - a. Company-owned? _____ farms
 - b. Contract? _____ farms
 - c. Total production farms *[Add Items 1a–1b.]* _____ farms
2. How many of your company's broiler farms have at least one house designated organic (certified, USDA National Organic Program)? _____ farms

For the next questions, categorize your broiler production farms based on the hatchery and parent farms that supplied the broiler chicks.

3. During the previous 12 months, how many of your company's **broiler** farms received chicks from the following types of multiplier (parent) farms?
[If a farm received chicks from more than one category, count it in all categories that apply.]
 - a. Multiplier (parent) birds are owned by a primary breeder company _____ farms
 - b. Multiplier (parent) birds are owned by your company _____ farms
 - c. Multiplier (parent) birds are owned by an independent operation or another integrator _____ farms
 - d. Other (specify: _____) _____ farms
4. During the previous 12 months, how many of your company's broiler farms received broiler chicks from a multiplier (parent) farm located:
[If a farm received chicks from more than one category, count it in all categories that apply.]
 - a. Within the farm's State? _____ farms
 - b. Outside the farm's State but within the United States? _____ farms
 - c. Outside the United States? _____ farms

[If Item 4c = 0, SKIP to Item 6.]

5. How many of these (Item 4c) broiler farms received birds from a multiplier (parent) farm located in:
[If a single farm received birds from more than one category, count it in all categories that apply.]
 - a. Canada? _____ farms
 - b. Mexico? _____ farms
 - c. Central America/South America/Caribbean? _____ farms
 - d. Europe? _____ farms
 - e. Asia? _____ farms
 - f. Other country? (specify: _____) _____ farms

6. During the previous 12 months, how many of your company's **broiler** farms received chicks from hatcheries that are:
[If a farm received chicks from more than one category, count it in all categories that apply.]
- a. Owned by a primary breeder company? _____ farms
 - b. Owned by your company? _____ farms
 - c. Independently owned (or owned by another integrator)? _____ farms
 - d. Other? (specify: _____) _____ farms
7. Which of the following best describes the vehicle **most often** used to bring broiler chicks onto your company's broiler farms during the previous 12 months?
[Check one only.]
- ₁ Vehicle is dedicated to a single farm
 - ₂ Vehicle is dedicated to your company only
 - ₃ Vehicle is also used on other companies' farms or independent farms
 - ₄ Other (specify: _____)
8. What is the average age (in weeks) when broilers are marketed or slaughtered? ... _____ weeks
9. How many of your company's broiler farms market any birds via a live bird market? _____ farms
10. During the previous 12 months, how many of your company's broiler farms shipped any birds to a slaughter facility located:
[If a single farm shipped birds to more than one category, count it in all categories that apply.]
- a. Within the farm's State? _____ farms
 - b. Outside the farm's State but within the United States? _____ farms
 - c. Outside the United States? _____ farms

[If Item 10c = 0, SKIP to Item 12.]

11. How many of these (Item 10c) broiler farms shipped birds to a slaughter facility in:
[If a single farm shipped birds to more than one category, count it in all categories that apply.]
- a. Canada? _____ farms
 - b. Mexico? _____ farms
 - c. Central America/South America/Caribbean? _____ farms
 - d. Europe? _____ farms
 - e. Asia? _____ farms
 - f. Other country? (specify: _____) _____ farms

12. Which of the following best describes the vehicle **most often** used to transport broilers to slaughter or market during the previous 12 months?
[Check one only.]

- ₁ Vehicle is dedicated to a single farm
- ₂ Vehicle is dedicated to your company only
- ₃ Vehicle is also used on other company's farms or independent farms
- ₅ Other (specify: _____)

The next questions ask about clostridial dermatitis and infectious bursal Disease (IBD) vaccination on broiler production farms.

13. How many of your company's broiler farms have had severe, moderate, slight, or no problem with clostridial dermatitis (gangrenous dermatitis) during the previous 12 months?

- a. Severe (nearly every flock, very high mortality) _____ farms
- b. Moderate _____ farms
- c. Slight (occasional, low mortality)..... _____ farms
- d. None..... _____ farms
- e. Total [Add Items 13a-13d; should equal Item 1c.] _____ farms

14. Are broilers normally vaccinated for IBD? ₁ Yes ₃ No

[If Item 14 = No, SKIP to Item 17.]

15. What type of IBD vaccine is used for broilers?

- a. Killed virus (Inactivated) ₁ Yes ₃ No
- b. Live virus ₁ Yes ₃ No
- c. Modified live virus..... ₁ Yes ₃ No
- d. Recombinant ₁ Yes ₃ No
- e. Other (specify: _____) ₁ Yes ₃ No

16. What delivery system is used for IBD vaccination of broilers?

- a. Spray ₁ Yes ₃ No
- b. Drinking water ₁ Yes ₃ No
- c. Individual bird injection..... ₁ Yes ₃ No
- d. *In ovo* injection ₁ Yes ₃ No
- e. Other (specify: _____) ₁ Yes ₃ No

The next two questions ask about feed production and delivery.

17. During the previous 12 months, did any of the **feed mills** that produce feed for this company's broiler farms:
- a. Produce feed for other companies? ₁ Yes ₂ Don't know ₃ No
 - b. Produce feed for more than one species of poultry? ₁ Yes ₂ Don't know ₃ No
 - c. Produce feed for other species besides poultry? ₁ Yes ₂ Don't know ₃ No
18. During the previous 12 months, did any of the **vehicles** that deliver feed to this company's broiler farms:
- a. Deliver feed to farms in different stages of production (e.g., same vehicle delivers to parent farms and to broiler farms)? ₁ Yes ₂ Don't know ₃ No
 - b. Deliver feed to other companies? ₁ Yes ₂ Don't know ₃ No
 - c. Deliver feed for more than one species of poultry? ₁ Yes ₂ Don't know ₃ No
 - d. Deliver feed for other species besides poultry? ₁ Yes ₂ Don't know ₃ No

B. Multiplier (Parent) Farms

19. Does your company have any multiplier (parent) farms (either company-owned or under contract)? ₁ Yes ₃ No

[If Item 19 = No, SKIP to Item 27.]

The following questions refer to your multiplier (parent) farms.

Important: For the following questions, include only farms that have hens and are located in the United States. Farms that have hens as well as pullets and/or males are OK. EXCLUDE farms that have ONLY cocks and farms that have ONLY pullets.

20. How many of your company's **multiplier (parent)** farms are:
[Include only farms with hens; no pullet or cock/tom-only farms.]
- a. Company-owned? _____ multiplier (parent) farms
 - b. Contract? _____ multiplier (parent) farms
 - c. Total **multiplier (parent)** farms *[Add Items 20a + 20b.]* _____ multiplier (parent) farms
21. How many of your company's multiplier (parent) farms raise pullets on farm? _____ farms
22. During the previous 12 months, how many of your company's **multiplier (parent)** farms received any birds from:
[If a single farm received birds from more than one category, count it in all categories that apply.]
- a. Within the farm's State? _____ farms
 - b. Outside the farm's State but within the United States? _____ farms
 - c. Outside the United States? _____ farms

[If Item 22c = 0, SKIP to Item 24.]

23. How many of these (Item 22c) **multiplier (parent)** farms received birds from:
[If a single farm received birds from more than one category, count it in all categories that apply.]
- a. Canada? _____ farms
 - b. Mexico? _____ farms
 - c. Central America/South America/Caribbean? _____ farms
 - d. Europe? _____ farms
 - e. Asia? _____ farms
 - f. Other country? (specify: _____) _____ farms

24. How many of your company's **multiplier (parent)** farms shipped any **eggs** during the previous 12 months:
[If a single farm shipped eggs to more than one category, count it in all categories that apply.]
- a. Within the farm's State? _____ farms
 - b. Outside the farm's State but within the United States? _____ farms
 - c. Outside the United States? _____ farms

[If Item 24c = 0, SKIP to Item 26.]

25. How many of these (Item 24c) **multiplier (parent)** farms shipped eggs to:
[If a single farm shipped eggs to more than one category, count it in all categories that apply.]
- a. Canada? _____ farms
 - b. Mexico? _____ farms
 - c. Central America/South America/Caribbean? _____ farms
 - d. Europe? _____ farms
 - e. Asia? _____ farms
 - f. Other country? (specify: _____) _____ farms

26. What is the average length of time (in weeks) from placement to removal for your company's multiplier (parent) flocks? _____ weeks

C. Hatcheries

The following questions refer to the hatcheries that supply your broiler chicks.

27. How many hatcheries supplied chicks to your company's broiler farms during the previous 12 months? _____ hatcheries
28. How many of these hatcheries are owned by your company? _____ hatcheries

[If Item 28 = 0, SKIP to Item 35.]

29. How many of these company-owned hatcheries hatched any eggs from other companies or independent producers during the previous 12 months? _____ hatcheries

30. How many of your company-owned **hatcheries** received any eggs during the previous 12 months from:
[If a single hatchery received eggs from more than one category, count it in all categories that apply.]
- a. Within the hatchery's State? _____ hatcheries
 - b. Outside the hatchery's State but within the United States?..... _____ hatcheries
 - c. Outside the United States? _____ hatcheries

[If Item 30c = 0, SKIP to Item 32.]

31. How many of these (Item 30c) company-owned **hatcheries** received eggs from:
[If a single hatchery received eggs from more than one category, count it in all categories that apply.]
- a. Canada?..... _____ hatcheries
 - b. Mexico?..... _____ hatcheries
 - c. Central America/South America/Caribbean?..... _____ hatcheries
 - d. Europe?..... _____ hatcheries
 - e. Asia? _____ hatcheries
 - f. Other country? (specify: _____) _____ hatcheries

32. During the previous 12 months, how many of your company-owned hatcheries supplied chicks to:
- a. Farms owned by or contracting with your company **only**?..... _____ hatcheries
 - b. Farms belonging to other companies or independent producers **only**?..... _____ hatcheries
 - c. Farms owned by or contracting with your company and other companies?.. _____ hatcheries
 - d. Total *[Add Items 32a–32c, should equal Item 28.]* _____ hatcheries

33. How many of your company-owned **hatcheries** shipped any chicks during the previous 12 months:
[If a single hatchery shipped birds to more than one category, count it in all categories that apply.]
- a. Within the hatchery's State? _____ hatcheries
 - b. Outside the hatchery's State but within the United States?..... _____ hatcheries
 - c. Outside the United States? _____ hatcheries

[If Item 33c = 0, SKIP to Item 35.]

34. How many of these (Item 33c) company-owned hatcheries shipped chicks to:
[If a single hatchery shipped birds to more than one category, count it in all categories that apply.]
- a. Canada? _____ hatcheries
 - b. Mexico? _____ hatcheries
 - c. Central America/South America/Caribbean? _____ hatcheries
 - d. Europe? _____ hatcheries
 - e. Asia? _____ hatcheries
 - f. Other country? (specify: _____) _____ hatcheries

D. Slaughter Facilities

35. How many slaughter facilities did your company ship birds to for slaughter? _____ sltr facilities
36. How many of these slaughter facilities are owned by your company? _____ sltr facilities

[If Item 36 = 0, SKIP to End.]

37. How many of these company-owned slaughter facilities:
- a. Slaughter birds for other companies? _____ sltr facilities
 - b. Slaughter other species of poultry? _____ sltr facilities
 - c. Slaughter other species besides poultry? _____ sltr facilities

Conclusion

This completes the company questionnaire. Thank you for your participation.

Please complete a separate Breeder Farm Questionnaire for each Multiplier (Parent) farm selected to participate in the Breeder Farm phase of the study.

Section III: Turkey Company

1. How many complexes does your company have?
[If only one complex, enter 1 and SKIP to Item 3.] _____ complexes

If each of your complexes has its own dedicated slaughter facility(s), hatchery(s), and multiplier (parent) farm(s), you may choose to fill in one questionnaire for each complex. Otherwise, please fill in one questionnaire for your entire company.

2. Have you chosen to fill in this questionnaire for your company or for one complex?
[Check one only.]

₁ Entire company

₂ One complex

A. Grower Farms

The following questions refer to your turkey grower farms. Include only farms where turkeys are grown to market age. Do not include brooder-only farms.

3. How many of your company's/complex's turkey grower farms are:
- a. Company-owned? _____ farms
 - b. Contract? _____ farms
 - c. Total turkey grower farms *[Add Items 3a–3b.]* _____ farms
4. How many of your company's/complex's turkey grower farms have at least one house designated organic (certified, USDA National Organic Program)? _____ farms
5. How many of your company's/complex's turkey grower farms have:
- a. Hens only? _____ farms
 - b. Toms only? _____ farms
 - c. Both hens and toms? _____ farms
 - d. Total *[Add Items 5a–5c; should equal Item 3c.]* _____ farms
6. How many of your company's/complex's turkey grower farms:
- a. Brood birds on the same farm? _____ farms
 - b. Receive birds from a brooder farm? _____ farms

For the next questions, categorize your turkey grower farms based on the hatchery and multiplier (parent) farms that supplied the poults.

7. During the previous 12 months, how many of your company's/complex's turkey grower farms received poults that originated from the following types of multiplier (parent) farms?
[If a farm received poults from more than one category, count it in all categories that apply.]
- a. Multiplier (parent) birds are owned by a primary breeder company _____ farms
 - b. Multiplier (parent) birds are owned by your company _____ farms
 - c. Multiplier (parent) birds are owned by an independent operation or another integrator _____ farms
 - d. Other (specify: _____) _____ farms
8. During the previous 12 months, how many of your company's/complex's turkey grower farms received poults that originated from a multiplier (parent) farm located:
[If a single farm received birds from more than one category, count it in all categories that apply.]
- a. Within the farm's State? _____ farms
 - b. Outside the farm's State but within the United States? _____ farms
 - c. Outside the United States? _____ farms

[If Item 8c = 0, SKIP to Item 10.]

9. How many of these (Item 8c) turkey grower farms received birds from a multiplier (parent) farm located in:
[If a single farm received birds from more than one category, count it in all categories that apply.]
- a. Canada? _____ farms
 - b. Mexico? _____ farms
 - c. Central America/South America/Caribbean? _____ farms
 - d. Europe? _____ farms
 - e. Asia? _____ farms
 - f. Other country? (specify: _____) _____ farms
10. During the previous 12 months, how many of your company's/complex's turkey grower farms received poults that originated from hatcheries that are:
[If a farm received poults from more than one category, count it in all categories that apply.]
- a. Owned by a primary breeder company? _____ farms
 - b. Owned by your company? _____ farms
 - c. Independently owned (or owned by another integrator)? _____ farms
 - d.. Other? (specify: _____) _____ farms

11. Which of the following best describes the vehicle **most often** used to bring turkey poultos onto this company's/complex's grower farms during the previous 12 months?

[Check one only.]

- ₁ Vehicle is dedicated to a single farm
- ₂ Vehicle is dedicated to your company only
- ₃ Vehicle is also used on other companies' farms or independent farms
- ₄ Other (specify: _____)

12. What is the average age (in weeks) when turkeys are marketed or slaughtered?

- a. Hens _____ weeks
- b. Toms _____ weeks

13. How many of your company's/complex's turkey grower farms market any birds via a live bird market? _____ farms

14. During the previous 12 months, how many of your company's/complex's turkey grower farms shipped any birds to a slaughter facility located:
[If a single farm shipped birds to more than one category, count it in all categories that apply.]

- a. Within the farm's State? _____ farms
- b. Outside the farm's State but within the United States? _____ farms
- c. Outside the United States? _____ farms

[If Item 14c = 0, SKIP to Item 16.]

15. How many of these (Item 14c) turkey grower farms shipped birds to a slaughter facility in:

[If a single farm shipped birds to more than one category, count it in all categories that apply.]

- a. Canada? _____ farms
- b. Mexico? _____ farms
- c. Central America/South America/Caribbean? _____ farms
- d. Europe? _____ farms
- e. Asia? _____ farms
- f. Other country? (specify: _____) _____ farms

16. Which of the following best describes the vehicle **most often** used to transport birds to slaughter or market during the previous 12 months?

[Check one only.]

- ₁ Vehicle is dedicated to a single farm
- ₂ Vehicle is dedicated to your company only
- ₃ Vehicle is also used on other companies' farms or independent farms
- ₅ Other (specify: _____)

- c. Deliver feed for more than one species of poultry? ₁ Yes ₂ Don't know ₃ No
- d. Deliver feed for other species besides poultry? ₁ Yes ₂ Don't know ₃ No

B. Multiplier (Parent) Farms

- 20 Does your company/complex have any multiplier (parent) farms (either company-owned or under contract)? ₁ Yes ₃ No

[If Item 20 = NO, SKIP to Item 30.]

The following questions refer to your multiplier (parent) farms. If this questionnaire is for one complex, please answer only for multiplier farms that belong to that complex.

Important: For the following questions, include only farms that have hens and are located in the United States. Farms that have hens as well as breeder hen candidates and/or toms are OK. EXCLUDE farms that have ONLY toms and farms that have ONLY breeder hen candidates.

21. How many of your company's/complex's **multiplier (parent)** farms are:
[Include only farms with hens; no breeder hen candidate only/tom-only farms.]
- a. Company-owned? _____ farms
 - b. Contract? _____ farms
 - c. Total multiplier (parent) farms *[Add Items 21a–21b.]* _____ farms
22. How many of your company's/complex's **multiplier (parent)** farms raise breeder hen candidates on-farm? _____ farms
23. During the previous 12 months, how many of your company's/complex's **multiplier (parent)** farms received any birds from:
[If a single farm received birds from more than one category, count it in all categories that apply.]
- a. Within the farm's State? _____ farms
 - b. Outside the farm's State but within the United States? _____ farms
 - c. Outside the United States? _____ farms

[If Item 23c = 0, SKIP to Item 25.]

24. How many of these (Item 23c) **multiplier (parent)** farms received birds from:
[If a single farm received birds from more than one category, count it in all categories that apply.]
- a. Canada? _____ farms
 - b. Mexico? _____ farms
 - c. Central America/South America/Caribbean? _____ farms
 - d. Europe? _____ farms
 - e. Asia? _____ farms
 - f. Other country? (specify: _____) _____ farms

25. How many of your company's/complex's **multiplier (parent)** farms shipped any **eggs** during the previous 12 months:
[If a single farm shipped eggs to more than one category, count it in all categories that apply.]
- a. Within the farm's State? _____ farms
 - b. Outside the farm's State but within the United States? _____ farms
 - c. Outside the United States? _____ farms

[If Item 25c = 0, SKIP to Item 27.]

26. How many of these (Item 25c) **multiplier (parent)** farms shipped eggs to:
[If a single farm shipped eggs to more than one category, count it in all categories that apply.]
- a. Canada? _____ farms
 - b. Mexico? _____ farms
 - c. Central America/South America/Caribbean? _____ farms
 - d. Europe? _____ farms
 - e. Asia? _____ farms
 - f. Other country? (specify: _____) _____ farms
27. What is the average length of time (in weeks) from placement to removal for your company's/complex's **multiplier (parent)** flocks? _____ weeks
28. How many of your company's/complex's **multiplier (parent)** farms have toms on the same farm as hens? _____ farms
29. How many tom-only **multiplier (parent)** farms does your company/complex have (either company-owned or contract)? _____ farms

C. Hatcheries

The following questions refer to the hatcheries that supply your poults. If you are filling in this questionnaire for one complex, please answer the following questions for only the hatcheries that serve your complex.

30. How many hatcheries supplied poults to your company's/complex's turkey grower farms during the previous 12 months? _____ hatcheries
31. How many of these hatcheries are owned by your company? _____ hatcheries

[If Item 31 = 0, SKIP to Item 38.]

32. How many of these company-owned hatcheries hatched any eggs from other companies or independent producers during the previous 12 months? _____ hatcheries

33. How many of your company-owned **hatcheries** received any eggs during the previous 12 months from:
[If a single hatchery received eggs from more than one category, count it in all categories that apply.]
- a. Within the hatchery's State? _____ hatcheries
 - b. Outside the hatchery's State but within the United States?..... _____ hatcheries
 - c. Outside the United States? _____ hatcheries

[If Item 33c = 0, SKIP to Item 35.]

34. How many of these (Item 33c) company-owned hatcheries received eggs from:
[If a single hatchery received eggs from more than one category, count it in all categories that apply.]
- a. Canada?..... _____ hatcheries
 - b. Mexico?..... _____ hatcheries
 - c. Central America/South America/Caribbean? _____ hatcheries
 - d. Europe?..... _____ hatcheries
 - e. Asia? _____ hatcheries
 - f. Other country? (specify: _____) _____ hatcheries

35. During the previous 12 months, how many of these company-owned hatcheries supplied poults to:
- a. Farms owned by or contracting with your company **only**?..... _____ hatcheries
 - b. Farms belonging to other companies or independent producers **only**?..... _____ hatcheries
 - c. Farms owned by or contracting with your company and other companies?.. _____ hatcheries
 - d. Total *[Add Items 35a–35c; should equal Item 31.]* _____ hatcheries

36. How many of your company-owned **hatcheries** shipped any poults during the previous 12 months to:
[If a single hatchery shipped birds to more than one category, count it in all categories that apply.]
- a. Within the hatchery's State? _____ hatcheries
 - b. Outside the hatchery's State but within the United States?..... _____ hatcheries
 - c. Outside the United States? _____ hatcheries

[If Item 36c = 0, SKIP to Item 38.]

37. How many of these (Item 36c) company-owned **hatcheries** shipped birds to:
[If a single hatchery shipped birds to more than one category, count it in all categories that apply.]

- a. Canada? _____ hatcheries
- b. Mexico? _____ hatcheries
- c. Central America/South America/Caribbean? _____ hatcheries
- d. Europe? _____ hatcheries
- e. Asia? _____ hatcheries
- f. Other country? (specify: _____) _____ hatcheries

D. Slaughter Facilities

If you are filling in this questionnaire for one complex, please answer the following questions for only the slaughter facilities that serve your complex.

- 38. How many slaughter facilities did your company ship birds to for slaughter? _____ sltr facilities
- 39. How many of these slaughter facilities are company-owned? _____ sltr facilities

[If Item 39 = 0, SKIP to End.]

40. How many of these company-owned slaughter facilities:

- a. Slaughter birds for other companies? _____ sltr facilities
- b. Slaughter other species of poultry? _____ sltr facilities
- c. Slaughter other species besides poultry? _____ sltr facilities

Conclusion

This completes the company questionnaire. Thank you for your participation.
Please complete a separate Clostridial Dermatitis Questionnaire for each case and control farm selected to participate in the Clostridial Dermatitis phase of the study.

Section IV: Table Egg Production

A. Production Farms

The following questions refer to your table egg production farms.

1. How many of your company's table egg production farms are:
 - a. Company-owned? _____ farms
 - b. Contract? _____ farms
 - c. Total production farms *[Add Items 1a–1b.]* _____ farms

2. How many of your company's table egg production farms have at least one house designated organic (certified, USDA National Organic Program)? _____ farms

3. On how many of your company's table egg production farms are birds:
 - a. All caged? _____ farms
 - b. All cage-free? _____ farms
 - c. Mixed (some caged and some cage-free)? _____ farms
 - d. Total production farms *[Add Items 3a–3c; should equal Item 1c.]* _____ farms

The next two questions ask about practices on your caged-hen farms, cage-free farms, and mixed farms (some hens caged and some cage-free).

4. How many of your company's table egg production farms have the following age groupings?

	Caged	Cage-free	Mixed
a. Different age birds in same house	_____	_____	_____ farms
b. Different age birds in different houses	_____	_____	_____ farms
c. Whole farm one age	_____	_____	_____ farms
d. Total <i>[Add Items 4a–4c.]</i>	_____	_____	_____ farms
	<i>[Should = 3a]</i>	<i>[Should = 3b]</i>	<i>[Should = 3c]</i>

5. On how many of your company's table egg production farms are eggs gathered?

	Caged	Cage-free	Mixed
a. By belt only	_____	_____	_____ farms
b. By hand only	_____	_____	_____ farms
c. Both belt and hand	_____	_____	_____ farms
d. Total <i>[Add Items 5a–5c.]</i>	_____	_____	_____ farms
	<i>[Should = 3a]</i>	<i>[Should = 3b]</i>	<i>[Should = 3c]</i>

6. How many of your company's table egg production farms **primarily** produce:
 - a. Eggs for breaking? _____ farms
 - b. Shell eggs (whole eggs for packing, not for breaking)? _____ farms
 - c. Total *[Add Items 6a–6b; should equal Item 1c.]* _____ farms

Important: Questions 7 to 10 refer to processing of shell eggs. Answer only for those farms that primarily produce shell eggs.

7. How many of your farms have on-farm shell egg processing? _____ farms

[If Item 7 = 0, SKIP to Item 9.]

8. Of these farms with on-farm shell egg processing, how many also process eggs for other farms (including other farms from your company and/or farms from other companies)?..... _____ farms

9. Which of the following best describes the vehicle used **most often** to remove processed (packed) eggs from your company's farms during the previous 12 months?

[If more than one category below applies, choose the category that describes the majority of vehicles used.]

- ₁ Vehicle is dedicated to a single farm
- ₂ Vehicle is dedicated to your company only
- ₃ Vehicle is also used on other company's farms or independent farms
- ₄ Do not know because vehicle is owned by an independent company
- ₅ Other (specify: _____)

10. How many of your farms send eggs off-farm for shell egg processing (including farms that send eggs to a company-owned processing plant)?..... _____ farms

[If Item 10 = 0, SKIP to Item 16.]

11. Which of the following best describes the vehicle used **most often** to remove unprocessed eggs from your company's farms during the previous 12 months?

[If more than one category below applies, choose the category that describes the majority of vehicles used.]

- ₁ Vehicle is dedicated to a single farm
- ₂ Vehicle is dedicated to your company only
- ₃ Vehicle is also used on other company's farms or independent farms
- ₄ Do not know because vehicle is owned by an independent company
- ₅ Other (specify: _____)

12. For farms with off-farm processing, which best describes how flats are **usually** handled?

[Check one only.]

- ₁ Flats are disposable
- ₂ Flats are returned to the same farm
- ₃ Flats may go to other farms, your company only
- ₄ Flats may go to other farms, other companies
- ₅ No flats

[If Item 12 = 1 or 5, SKIP to Item 14.]

13. Are flats **usually** cleaned and disinfected before returning to a farm? ₁ Yes ₃ No

14 For farms with off-farm processing, which best describes how racks/pallets are **usually** handled?

[Check one only.]

- ₁ Racks/pallets are returned to the same farm
- ₂ Racks/pallets may go to other farms, your company only
- ₃ Racks/pallets may go to other farms, other companies
- ₄ No racks/pallets

[If Item 14 = 4, SKIP to Item 16.]

15. Are racks/pallets **usually** cleaned and disinfected before returning to a farm?... ₁ Yes ₃ No

16. During the previous 12 months, how many of your company's **table egg production farms** received pullets that originated from the following types of multiplier (parent) farms?

[If a farm received pullets from more than one category, count it in all categories that apply.]

- a. Multiplier (parent) birds are owned by a primary breeder company _____ farms
- b. Multiplier (parent) birds are owned by your company _____ farms
- c. Multiplier (parent) birds are owned by an independent operation _____ farms
- d. Other (specify: _____) _____ farms

17. During the previous 12 months, how many of your company's **table egg production farms** received pullets that originated from the following types of hatcheries?

- a. Hatchery owned by a primary breeder company _____ farms
- b. Hatchery owned by your company _____ farms
- c. Independent hatchery (or hatchery owned by another company) _____ farms
- d. Other (specify: _____) _____ farms

18. How many of your company's table egg production farms have the following pullet sources?

- a. Pullets raised on egg production farm _____ farms
- b. Pullets raised on separate farm, same company _____ farms
- c. Pullets raised on separate farm, different company _____ farms
- d. Total *[Add Items 18a–18c should = Item 1c.]* _____ farms

If all farms raise pullets on farm, SKIP to Item 21.

19. How many of your company's table egg production farms received any pullets during the previous 12 months from pullet farms located:
[If a single farm received birds from more than one category, count it in all categories that apply.]
- a. Within the farm's State? _____ farms
 - b. Outside the farm's State but within the United States? _____ farms
 - c. Outside the United States? _____ farms

[If Item 19c = 0, SKIP to Item 21.]

20. How many of these (Item 19c) table egg production farms received pullets from:
[If a single farm received birds from more than one category, count it in all categories that apply.]
- a. Canada? _____ farms
 - b. Mexico? _____ farms
 - c. Central America/South America/Caribbean? _____ farms
 - d. Europe? _____ farms
 - e. Asia? _____ farms
 - f. Other country? (specify: _____) _____ farms

21. Which of the following best describes the vehicle **most often** used to bring pullets onto your company's table egg production farms during the previous 12 months?
[Check one only.]
- ₁ Vehicle is dedicated to a single farm
 - ₂ Vehicle is dedicated to your company only
 - ₃ Vehicle is also used on other company's farms or independent farms
 - ₄ Other (specify: _____)

The next questions ask about vaccinations.

22. How many times are layers **usually** vaccinated while in lay (against any disease)? _____ times

Now we'd like to focus on vaccination for infectious bursal disease (IBD).

23. Are layers normally vaccinated for IBD:
- a. *In ovo*? ₁ Yes ₃ No
 - b. As pullets? ₁ Yes ₃ No
 - c. In lay? ₁ Yes ₃ No

[If no IBD vaccination, SKIP to Item 26.]

24. What type of IBD vaccine is used?

- a. Killed virus (Inactivated) ₁ Yes ₃ No
- b. Live virus ₁ Yes ₃ No
- c. Modified live virus..... ₁ Yes ₃ No
- d. Recombinant ₁ Yes ₃ No
- e. Other (specify: _____) ₁ Yes ₃ No

25. What delivery system is used for IBD vaccination?

- a. Spray ₁ Yes ₃ No
- b. Drinking water ₁ Yes ₃ No
- c. Individual bird injection..... ₁ Yes ₃ No
- d. *In ovo* injection ₁ Yes ₃ No
- e. Other (specify: _____) ₁ Yes ₃ No

The next two questions ask about feed production and delivery.

26. During the previous 12 months, did any of the **feed mills** that produce feed for this company:

- a. Produce feed for other companies? ₁ Yes ₂ Don't know ₃ No
- b. Produce feed for more than one species of poultry? ₁ Yes ₂ Don't know ₃ No
- c. Produce feed for other species besides poultry?..... ₁ Yes ₂ Don't know ₃ No

27. During the previous 12 months, did any of the **vehicles** that deliver feed to this company's farms:

- a. Deliver feed to farms in different stages of production (e.g., same vehicle delivers to parent farms and to table egg production farms)? ₁ Yes ₂ Don't know ₃ No
- b. Deliver feed to other companies? ₁ Yes ₂ Don't know ₃ No
- c. Deliver feed for more than one species of poultry? ₁ Yes ₂ Don't know ₃ No
- d. Deliver feed for other species besides poultry? ₁ Yes ₂ Don't know ₃ No

28 How many of your company's table egg production farms molted their last completed flock? _____ farms

29. What is the average length of time (in weeks) from placing birds in the laying house until they are removed, for molted and nonmolted flocks?

 Molted weeks **Nonmolted**

30. How many of your company's table egg production farms **primarily** dispose of spent hens in the following ways:
- a. Processing? _____ farms
 - b. Rendering?..... _____ farms
 - c. Composting on-farm?..... _____ farms
 - d. Burial on-farm?..... _____ farms
 - e. Live bird market?..... _____ farms
 - f. Other? (specify: _____) _____ farms
 - g. Total [Add Items 30a–30f; should equal Item 1c.] _____ farms

31. Which of the following best describes the vehicle **most often** used to remove spent hens from your company's farms (e.g., transport birds to slaughter or market)?
[Check one only.]

- ₁ Vehicle is dedicated to a single farm
- ₂ Vehicle is dedicated to your company only
- ₃ Vehicle is also used on other company's farms or independent farms
- ₄ Spent hens not removed (disposal on-farm only)
- ₅ Other (specify: _____)

B. Multiplier (Parent) Farms

32. Does your company have any multiplier (parent) farms (either company-owned or under contract)? ₁ Yes ₃ No

[If Item 32 = NO, SKIP to Item 40.]

The following questions refer to your multiplier (parent) farms.

Important: For the following questions, only include farms that have hens and are located in the United States. Farms that have hens as well as pullets and/or males are OK. EXCLUDE farms that have ONLY cocks and farms that have ONLY pullets.

33. How many of your company's **multiplier (parent)** farms are:
[Include only farms with hens, no pullet/cock-only farms.]
- a. Company-owned? _____ farms
 - b. Contract?..... _____ farms
 - c. Total [Add Items 33a–33b.]..... _____ farms
34. How many of your company's **multiplier (parent)** farms raise pullets on farm? _____ farms

35. During the previous 12 months, how many of your company's **multiplier (parent)** farms received any birds from:
[If a single farm received birds from more than one category, count it in all categories that apply.]
- a. Within the farm's State? _____ farms
 - b. Outside the farm's State but within the United States? _____ farms
 - c. Outside the United States? _____ farms

[If Item 35c = 0, SKIP to Item 37.]

36. How many of these (Item 35c) **multiplier (parent)** farms received birds from:
[If a single farm received birds from more than one category, count it in all categories that apply.]
- a. Canada? _____ farms
 - b. Mexico? _____ farms
 - c. Central America/South America/Caribbean? _____ farms
 - d. Europe? _____ farms
 - e. Asia? _____ farms
 - f. Other country? (specify: _____) _____ farms

37. How many of your company's **multiplier (parent)** farms shipped any **eggs** during the previous 12 months:
[If a single farm shipped eggs to more than one category, count it in all categories that apply.]
- a. Within the farm's State? _____ farms
 - b. Outside the farm's State but within the United States? _____ farms
 - c. Outside the United States? _____ farms

[If Item 37c = 0, SKIP to Item 39.]

38. How many of these (Item 37c) **multiplier (parent)** farms shipped eggs to:
[If a single farm shipped eggs to more than one category, count it in all categories that apply.]
- a. Canada? _____ farms
 - b. Mexico? _____ farms
 - c. Central America/South America/Caribbean? _____ farms
 - d. Europe? _____ farms
 - e. Asia? _____ farms
 - f. Other country? (specify: _____) _____ farms

39. What is the average length of time (in weeks) from placement to removal for your company's multiplier (parent) flocks? _____ weeks

C. Hatcheries

The following questions refer to the hatcheries that supply the chicks that are eventually placed as pullets on your table egg production farms.

- 40. How many hatcheries hatched chicks that were eventually placed as pullets on your company's table egg production farms during the previous 12 months? _____ hatcheries
- 41. How many of these hatcheries are owned by your company?..... _____ hatcheries

[If Item 41 = 0, SKIP to Item 48.]

- 42. How many of these company-owned hatcheries hatched any eggs from other companies or independent producers during the previous 12 months? _____ hatcheries
- 43 How many of your company-owned **hatcheries** received any eggs during the previous 12 months from:
[If a single hatchery received eggs from more than one category, count it in all categories that apply.]
 - a. Within the hatchery's State? _____ hatcheries
 - b. Outside the hatchery's State but within the United States?..... _____ hatcheries
 - c. Outside the United States? _____ hatcheries

[If Item 43c = 0, SKIP to Item 45.]

- 44. How many of these (Item 43c) company-owned hatcheries received eggs from:
[If a single hatchery received eggs from more than one category, count it in all categories that apply.]
 - a. Canada?..... _____ hatcheries
 - b. Mexico?..... _____ hatcheries
 - c. Central America/South America/Caribbean? _____ hatcheries
 - d. Europe?..... _____ hatcheries
 - e. Asia? _____ hatcheries
 - f. Other country? (specify: _____) _____ hatcheries
- 45. During the previous 12 months, how many of your company-owned hatcheries supplied chicks to:
 - a. Farms owned by or contracting with your company **only**?..... _____ hatcheries
 - b. Farms belonging to other companies or independent producers **only**?..... _____ hatcheries
 - c. Farms owned by or contracting with your company and other companies?.. _____ hatcheries
 - d. Total *[Add Items 45a–45c; should equal Item 41.]* _____ hatcheries

46. How many of your company-owned **hatcheries** shipped any chicks during the previous 12 months:
[If a single hatchery shipped birds to more than one category, count it in all categories that apply.]

- a. Within the hatchery's State? _____ hatcheries
- b. Outside the hatchery's State but within the United States? _____ hatcheries
- c. Outside the United States? _____ hatcheries

[If Item 46c = 0, SKIP to End.]

47. How many of these (Item 46c) company-owned hatcheries shipped birds to:
[If a single hatchery shipped birds to more than one category, count it in all categories that apply.]

- a. Canada? _____ hatcheries
- b. Mexico? _____ hatcheries
- c. Central America/South America/Caribbean? _____ hatcheries
- d. Europe? _____ hatcheries
- e. Asia? _____ hatcheries
- f. Other country? (specify: _____) _____ hatcheries

Conclusion

This completes the company questionnaire. Thank you for your participation.

Please complete a separate Breeder Farm Questionnaire for each Multiplier (parent) farm selected to participate in the Breeder Farm phase of the study.