



Animal and
Plant Health
Inspection
Service

Veterinary
Services

Dairy 2007 VS Initial Visit (February 26 – April 30, 2007)



National Animal Health
Monitoring System

2150 Centre Ave Bldg B
Fort Collins, CO 80526

Form Approved
OMB Number 0579-0205
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4/30/2010

State FIPS:	Operation #:	Interviewer:	Date:
2 digits	4 digits	Initials	(mm/dd/yy)

Section A—Inventory

1. How many dairy cattle of the following types are housed on this operation **today**?
 - a. Lactating cowsV001 _____
 - b. Dry cowsV002 _____
 - c. Bred heifersV003 _____

2. How many dairy heifer calves were weaned (removed from a liquid ration) while on this operation in the last 12 months?V004 _____

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0579-0205. The time required to complete this information collection is estimated to average 1.25 hours per response, including the time to review instructions, search existing data resources, gather the data needed, and complete and review the information collected.

**NAHMS-189
JAN 2007**

Section B—Biosecurity

3. Which of the following categories best describes how familiar you are with the listed diseases?

	Fairly knowledge- able	Know some basics	Recognized the name, not much else	Haven't heard of it before
a. Foot-and-mouth disease V005	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
b. Heartwater..... V006	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
c. Bovine spongiform encephalopathy (BSE or mad cow disease) V007	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
d. Screwworm V008	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
e. Johne's disease (paratuberculosis) V009	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
f. Bluetongue V010	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
g. Vesicular stomatitis V011	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
h. Anthrax V012	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
i. <i>Mycoplasma</i> mastitis..... V013	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
j. Hemorrhagic bowel syndrome (HBS) (Jejunal hemorrhage syndrome) V014	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
k. Bovine viral diarrhea (BVD) V015	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄
l. <i>Leptospira hardjo bovis</i> V016	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃	<input type="checkbox"/> ₄

4. If an outbreak of foot-and-mouth disease (or other foreign animal disease) occurred in the U.S., how likely would you be to use the following sources to get **information** about the disease?

	Very likely	Somewhat likely	Not likely
a. Other dairy producersV017	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
b. Private veterinarianV018	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
c. Extension agentV019	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
d. Dairy organization or cooperativeV020	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
e. Magazines.....V021	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
f. InternetV022	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
g. State Veterinarian's officeV023	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
h. U.S. Department of AgricultureV024	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
i. Television/newspapers.....V025	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃
j. Other (specify: _____)V026OTH.....V026	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂	<input type="checkbox"/> ₃

5. If you had an animal you suspected of having foot-and-mouth disease (or other foreign animal disease) on your operation, would you contact the following resources?

- a. Extension agent/university V027 ₁ Yes ₃ No
- b. State Veterinarian's office V028 ₁ Yes ₃ No**
- c. U.S. Department of Agriculture V029 ₁ Yes ₃ No
- d. Private veterinarian V030 ₁ Yes ₃ No**
- e. Feed company or milk cooperative representative V031 ₁ Yes ₃ No
- f. Other (specify: _____) V032OTH..... V032 ₁ Yes ₃ No**

6. For each of the following signs associated with a potential herd disease problem, at what percentage would you contact a veterinarian for assistance? (Enter N/A if you would never contact a veterinarian for assistance.)

- a. Percentage decline in total daily milk production V033 _____
- b. Percentage of milk cows exhibiting fever within a short time period V034 _____
- c. Percentage of milk cows dying within a short time period V035 _____
- d. Percentage of milk cows aborting within a short time period..... V036 _____
- e. Percentage other (specify: _____) V037OTH..... V037 _____

7. On average, how many paid and unpaid people, including owners and family members, does this operation employ that are assigned duties directly related to operation of the dairy? (Exclude people that work exclusively with crop activities.)

- | | Number |
|-------------------------------|---------------|
| a. Full-time V038 | _____ |
| b. Part-time..... V039 | _____ |

8. Are you using any of the following biosecurity practices?

- a. Guidelines to determine which visitors are allowed in animal areas.....V040 ₁ Yes ₂ No visitors allowed ₃ No
- b. Guidelines regarding foreign travel by employees..... V041 ₁ Yes ₂ No employees ₃ No**
- c. Written standard operating procedures (SOPs) (other than milking procedures)? V042 ₁ Yes ₃ No
- d. Training for employees in performing these practices? .. V043 ₁ Yes ₂ No employees ₃ No**

9. During an **average week**, how many visits were made by people who have contact with livestock on your operation, including employees, veterinarians, neighbors, nutritionists, milk haulers, etc., and potentially have contact on the same day with livestock from other operations? V044 _____ visits/week

NOTE: If this operation sends heifers off site and cattle are not commingled with cattle from other operations, then consider "no incoming cattle" for this animal class. If heifers are commingled off site, consider incoming cattle and answer appropriately.

10. In the last 12 months, were you aware of the source and geographic origin of all, some, or none of the cattle coming onto this operation?.....V045 ₁ All ₂ Some ₃ No incoming cattle ₄ None

11. Have you used any of the following practices in the last 12 months?

- a. Footbaths for visitors entering animal areas V046 ₁ Yes ₂ No visitors ₃ No
- b. Disposable or clean boots for visitors entering animal areas..... V047 ₁ Yes ₂ No visitors ₃ No
- c. Insect control (such as sprays, foggers, treated ear tags, products administered to animals [topical/oral], etc.)..... V048 ₁ Yes ₃ No
- d. Rodent control (such as cats, traps, chemical/bait, etc.) V049 ₁ Yes ₃ No
- e. Bird control (such as traps, noise, chemical/bait, etc.) V050 ₁ Yes ₃ No
- f. Limit cattle contact with other livestock, elk, and deer V051 ₁ Yes ₃ No
- g. Control access to cattle feed by other livestock and wildlife, such as elk, deer, and raccoons..... V052 ₁ Yes ₃ No
- h. Closed herd (all replacements are from this operation, no contact with cattle from other operations)..... V053 ₁ Yes ₃ No
- i. Restrictions on vehicles entering animal area V054 ₁ Yes ₃ No
- j. Restrictions on employee livestock ownership outside this operation..... V055 ₁ Yes ₂ No employees ₃ No

12. In the last 12 months, how often did this operation use the same equipment to handle both manure and cattle feed? V056 ₁ Routinely ₂ When necessary ₃ Never

If Routinely or When necessary, which best describes cleaning procedures usually done with equipment after handling manure and prior to handling feed?
(Check one only.)

- ₁ Wash equipment with water or steam only
- ₂ Chemically disinfect only
- ₃ Wash equipment and chemically disinfect
- ₄ Other (specify: _____) V057OTH
- ₅ No procedures done V057

13. In the last 12 months, did this operation share **any** heavy equipment with other livestock operations (i.e., tractors, feeding equipment, manure spreaders, trailers)? V058 ₁ Yes ₃ No

If Item 13 = NO, SKIP to Item 16.

14. In the last 12 months, how many times did this operation share equipment with other operations? V059 _____

15. Which of the following best describes this operation's cleaning procedures usually done with shared equipment prior to use on your operation?
(Check one only.)

- ₁ Wash equipment with water or steam only
- ₂ Chemically disinfect only
- ₃ Wash equipment and chemically disinfect
- ₄ Other (specify: _____) V060OTH
- ₅ No procedures done V060

State/Operation #: _____

16. Does this operation participate in any of the following kinds of Johne's disease control or certification programs?
- a. A unique program developed specifically for this operation V061 ₁ Yes ₃ No
 - b. A State-sponsored program V062 ₁ Yes ₃ No**
 - c. Other (specify: _____) V063OTH V063 ₁ Yes ₃ No
17. Do cows on this operation usually calve in:
- a. Multiple animal area/pen? V064 ₁ Yes ₃ No
 - b. Individual animal area/pen cleaned between each calving? V065 ₁ Yes ₃ No**
 - c. Individual animal area/pen cleaned after two or more calvings? V066 ₁ Yes ₃ No
 - d. Other (specify: _____) V067OTH V067 ₁ Yes ₃ No**
18. How many hours are cows in the usual calving area/pen:
- a. Prior to calving? (Enter 0 if moved immediately; answer to nearest quarter hour if less than 1 hour.) V068/068H _____ days **OR** _____ hours
 - b. After calving? (Enter 0 if removed immediately; answer to nearest quarter hour if less than 1 hour.) V069 _____ hours**
19. Do any of the following cows enter the usual calving area/pen?
- a. Sick cows V070 ₁ Yes ₃ No
 - b. Lamé cows V071 ₁ Yes ₃ No**
 - c. Johne's test-positive cows V072 ₁ Yes ₂ Don't test ₃ No
 - d. Other (specify: _____) V073OTH V073 ₁ Yes ₃ No**
20. What percentage of calves are born in the usual calving area/pen? V074 _____ %
21. Is colostrum from Johne's test-positive cows fed to calves? V075 ₁ Yes ₂ Don't test ₃ No

Section C—Source of Replacements

22. How many dairy cow replacements entered the milking herd in the last 12 months? V076 _____
23. A shipment refers to movement of one or a group of animals at one time, regardless of how many trailers or trucks were used.
- Of the dairy cow replacements that entered the milking herd in the last 12 months from the following sources, how many were obtained and how many shipments were required to move the animals to your operation?
- | | Head | Shipments |
|---|-------|-----------|
| a. Born on this operation and raised on the operation? V077 | _____ | N/A |
| b. Born on this operation and raised by off-site heifer grower? V078/084 | _____ | _____ |
| c. Purchased directly from other dairies V079/085 | _____ | _____ |
| d. Purchased from a dealer V080/086 | _____ | _____ |
| e. Purchased from auction markets V081/087 | _____ | _____ |
| f. Purchased from other source (specify: _____) V082OTH V082/088 | _____ | _____ |
| Total (should equal Item 22) V083 | _____ | _____ |

Section D—Disease Confirmation

24. Were any of the following diseases confirmed via laboratory testing of cattle on this operation in the last 12 months, and if “Yes,” which diagnostic samples were used to confirm the disease(s)?
If “Other” is marked, write specifics in margin.

Disease	Animals with Confirmed Disease (Y/N)	Diagnostic Samples							
		Aborted Fetus	Blood	Ear Notch	Feces	Milk	Tissues at Necropsy	Urine	Other
Example Disease	Y	X			X		X		
Bovine Leukosis Virus (BLV)	V089		V099				V112		V119
Bovine Viral Diarrhea (BVD)	V090	V095	V100	V105	V106	V109	V113		V120
Johne’s disease (<i>Mycobacterium paratuberculosis</i>)*	V091		V101		V107	V110	V114		V121
Leptospirosis	V092	V096	V102				V115	V118	V122
Neospora	V093	V097	V103				V116		V123
Salmonella	V094	V098	V104		V108	V111	V117		V124

**If Johne’s disease has been confirmed prior to the last 12 months on this operation, ask if they had cows with clinical signs of Johne’s disease (chronic diarrhea and weight loss that does not respond to treatment despite a normal appetite). If they had animals with clinical signs in the last 12 months, record “Yes” for Confirmed Disease and mark “Other” under Diagnostic Samples and note clinical signs in the margin.*

25. How many abortions occurred in the last 12 months? V125 _____

26. How many of the following types of samples were submitted to determine the cause of abortion? (*Samples could be collected and submitted by a veterinarian or submitted directly to a lab by the producer.*)

- a. Placenta V126 _____
- b. Entire fetus V127 _____**
- c. Serum of dam V128 _____
- d. Other (specify: _____) V129OTH V129 _____**

27. For any aborted fetuses that were not submitted for diagnosis, which of the following **best** describes the reason for not doing so? (*Check one only.*)

- ₁ Cost
- ₂ Lack of information obtained from previous abortion submissions
- ₃ Inconvenience (e.g., getting fetus to the laboratory)
- ₄ Abortion not perceived as a problem on this operation
- ₅ Other (specify: _____) V130OTH V130 _____

28. If abortion diagnostics were performed at **no cost**, what percentage of aborted fetuses would you submit to a veterinary diagnostic lab for diagnosis? V131 _____%

Section E—General Management

NOTE: In Items 29 and 30, “outside area” refers to areas without permanent roof structures.

29. Which of the following best describes the primary **outside** area that **lactating** cows routinely have access to during the summer and winter seasons? (Enter one code only for each season. If no outside access, enter 4.)

- (1) Pasture
- (2) Concrete alleyway or pen
- (3) Dry lot
- (4) None
- (5) Other (specify: _____) V132OTH V132/133 _____ code
Summer **Winter**

30. Which of the following best describes the primary **outside** area that **dry** cows routinely have access to during summer and winter seasons? (Enter one code only for each season. If no outside access, enter 4.)

- (1) Pasture
- (2) Concrete alleyway or pen
- (3) Dry lot
- (4) None
- (5) Other (specify _____) V134OTH V134/135 _____ code
Summer **Winter**

31. Which of the following is the predominant flooring type **lactating** cows **stand or walk on** when not being milked, excluding concrete feed pad? (Check one only.)

- ₁ Concrete—groove/textured
- ₂ Concrete—slat
- ₃ Concrete—smooth
- ₄ Rubber mats over concrete
- ₅ Pasture
- ₆ Dirt
- ₇ Other (specify: _____) V136OTH V136

If Item 31 = 5, 6, or 7, SKIP to Item 33.

32. Did any of the following cow areas have rubber belting or similar flooring that reduced the time cows spent standing directly on concrete?

- a. Immediately in front of feed bunk V137 ₁ Yes ₃ No
- b. Walkway to parlor V138 ₁ Yes ₃ No
- c. Holding pen..... V139 ₁ Yes ₃ No
- d. Other (specify: _____) V140OTH V140 ₁ Yes ₃ No

33. How would you best characterize the surface moisture of the ground or flooring **lactating** cows **stand** on most of the time in summer and winter seasons?

(Enter one code only for each season.)

- (1) Usually dry
- (2) Wet about half the time
- (3) Almost always wet, but no standing water
- (4) Usually standing water or slurryV141/142 _____ code _____ code
Summer **Winter**

34. If covered freestall barns are used to house **lactating** cows, which type of barn setup houses the **majority** of those cows?

(Check one only.)

- ₁ 2-row
- ₂ 3-row
- ₃ 4-row
- ₄ 6-row
- ₅ Other (specify: _____)V143OTH
- ₆ Not housed in a covered freestall barn V143

35. During the summer months, were the following heat abatement methods provided to **lactating** and **dry** cows?

- | | <u>Lactating</u> | <u>Dry</u> |
|---|--|--|
| a. Shade (other than inside building)..... V144/149 | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No |
| b. Sprinklers or misters V145/150 | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No |
| c. Fans V146/151 | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No |
| d. Tunnel ventilation V147/152 | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No |
| e. Other (specify: _____)V148OTH V148/153 | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No |

36. During the last 90 days, did you use any of the following bedding types for **lactating** and **dry** cows?

- | | <u>Lactating</u> | <u>Dry</u> |
|---|--|--|
| (1) Straw and/or hay..... V154/165 | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No |
| (2) Sand V155/166 | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No |
| (3) Sawdust/wood products..... V156/167 | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No |
| (4) Composted/dried manure V157/168 | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No |
| (5) Rubber mats V158/169 | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No |
| (6) Rubber tires V159/170 | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No |
| (7) Shredded newspaper..... V160/171 | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No |
| (8) Mattresses V161/172 | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No |
| (9) Corn cobs and stalks V162/173 | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No |
| (10) Waterbeds V163/174 | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No |
| (11) Other (specify: _____)V164OTH V164/175 | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No |

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37. Enter the number of the bedding type (1-11) from Item 36 above that was used **primarily** during the last 90 days for both **lactating** and **dry** cows?

(Enter N/A if no bedding used.).....V176/177

_____ code
Lactating

_____ code
Dry

38. During the last 90 days, did this operation feed **lactating** and **dry** cows:

	<u>Lactating</u>	<u>Dry</u>
a. Alfalfa hay/haylage? V178/196	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No
b. Corn silage?..... V179/197	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No
c. Clover as forage or pasture? V180/198	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No
d. Whole cottonseed? V181/199	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No
e. Cottonseed meal or hulls? V182/200	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No
f. Whole soybeans or soybean meal? V183/201	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No
g. Bakery byproducts? V184/202	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No
h. Brewery byproducts? V185/203	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No
i. Corn? V186/204	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No
j. Barley?..... V187/205	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No
k. Wheat? (not silage) V188/206	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No
l. Oats? (not silage) V189/207	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No
m. Green chop? V190/208	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No
n. Feather/poultry meal?..... V191/209	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No
o. Fish meal? V192/210	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No
p. Fat/tallow? V193/211	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No
q. Porcine meat and bone meal?..... V194/212	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No
r. Blood meal?..... V195/213	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No

39. For the majority of **lactating** cows, which best describes the feed line?
(Check one only.)

₁ Tie stall

₂ Stanchion

₃ Post and rail

₄ Head locks

₅ Elevated feed bunk in pen

₆ Other (specify: _____)V214OTH

V214

- How many times per year
are water sources drained
and cleaned?**
40. In the last 12 months, did any cows ever drink from:
- a. A single cup/bowl waterer used by one cow only? ... V215/220 ₁ Yes ₃ No _____
 - b. A single cup/bowl waterer used by multiple cows? .. V216/221 ₁ Yes ₃ No _____**
 - c. A water tank or trough (covered or uncovered)? V217/222 ₁ Yes ₃ No _____
 - d. A lake, pond, stream, river, etc.? V218 ₁ Yes ₃ No **N/A****
 - e. Another source? (specify: _____) V219OTH V219/223 ₁ Yes ₃ No _____
41. Is the water that cows drink usually chlorinated? V224 ₁ Yes ₂ Don't know ₃ No
42. Which of the following **best** describes how **lactating** cows are fed?
(Check one only.)
- ₁ Feed **all** lactating cows the same ration
 - ₂ Feed individuals or groups based on production/stage of lactation
 - ₃ Feed individuals or groups based on lactation number
 - ₄ Feed individuals or groups based on criteria other than production/
stage of lactation or lactation number V225
43. Does this operation feed anionic salts (e.g., BioChlor, SoyChlor, ammonium chloride, etc.), to prevent milk fever, to:
- a. Close-up cows (cows that are close to calving)? V226 ₁ Yes ₃ No
 - b. Springing heifers? V227 ₁ Yes ₃ No**
44. Does this operation separate close-up cows from other dry cows? V228 ₁ Yes ₃ No
45. Which of the following **best** describes this operation's use of milk urea nitrogen (MUN) testing to determine ration composition?
(Check one only.)
- ₁ Use routinely
 - ₂ Use only if have a problem
 - ₃ Never use V229
46. Permanent removals are defined as cows removed from the herd for reasons other than death. These include cows sent to other dairies, auction markets, or slaughter plants.
- How many cows were permanently removed in the last 12 months? V230 _____
47. During an average month, how many shipments of cows does this operation make to transport permanently removed cows to:
- a. Another dairy? V231 _____
 - b. Market, auction, or stockyard? V232 _____
 - c. Packer or slaughter plant? V233 _____
 - d. Other? (specify: _____) V234OTH V234 _____

48. During the last 12 months, what percentage or how many of these permanently removed cows were:

	<u>%</u>	OR	<u># removed</u>
a. Less than 50 days in milk? (early lactation)..... V235/239	_____		_____
b. 50 to 199 days in milk? (mid lactation)..... V236/240	_____		_____
c. 200 days or more in milk? (late lactation) V237/241	_____		_____
d. Dry cows V238/242	_____		_____
Total (should equal 100% or Item 46) V243	100%		_____

49. During the last 12 months, what percentage or how many of these permanently removed cows were:

	<u>%</u>	OR	<u># removed</u>
a. First lactation?..... V244/247	_____		_____
b. 2 to 4 lactations? V245/248	_____		_____
c. 5 lactations or more?..... V246/249	_____		_____
Total (should equal 100% or Item 46) V250	100%		_____

Section F—Milk Quality and Milking Procedures

50. Which of the following best describes the average bulk tank somatic cell count for milk shipped during the last 12 months?
(Check one only.)

- ₁ Less than 100,000 cells/ml
- ₂ 100,000 to 199,000 cells/ml
- ₃ 200,000 to 299,000 cells/ml
- ₄ 300,000 to 399,000 cells/ml
- ₅ 400,000 to 499,000 cells/ml
- ₆ 500,000 to 599,000 cells/ml
- ₇ 600,000 cells/ml or greater

V251

51. Who milks the majority of cows on this operation?
(Check one only.)

- ₁ Owner/operator
- ₂ Family member(s) of owner
- ₃ Hired worker(s) (non-family member)

V252

52. How frequently are milkers trained?
(Check one only.)

- ₁ No milker training
- ₂ Trained as new employees only
- ₃ 1 to 2 times per year for all milkers
- ₄ 3 to 4 times per year for all milkers
- ₅ More than 4 times per year for all milkers
- ₆ Other (specify: _____) V253OTH

V253

If Item 52 = 1 (No milker training), SKIP to Item 54.

53. Which of the following training methods are used on this operation for training milkers?

- a. Video training V254 ₁ Yes ₃ No
- b. Discussion/lecture V255 ₁ Yes ₃ No
- c. On-the-job training V256 ₁ Yes ₃ No
- d. Other training (specify: _____) V257OTH V257 ₁ Yes ₃ No

54. How many times per day are the majority of **fresh** cows milked?
(Check one only.)

- ₁ Once a day
- ₂ Twice a day
- ₃ Three times a day
- ₄ More than three times a day

V258

55. How many times per day are the majority of cows, other than **fresh cows**, milked?
(Check one only.)

- ₁ Once a day
- ₂ Twice a day
- ₃ Three times a day
- ₄ More than three times a day

V259

56. Which of the following best describes how frequently forestripping occurs on this operation?
(Check one only.)

- ₁ Forestrip all cows
- ₂ Forestrip some cows (i.e., with mastitis or fresh cows)
- ₃ Do not forestrip any cows

V260

If Item 56 = 3, SKIP to Item 58.

57. When is forestripping performed?
(Check one only.)

- ₁ Prior to teat disinfection
- ₂ After teat disinfection but prior to drying teats
- ₃ After disinfection and/or drying

V261

58. Check the specific procedure(s) that you typically use during your premilking teat preparation routine.
 (If you do not use a procedure, leave it blank.)
 Only choose one specific procedure in each general method category.
 If more than one procedure is checked, indicate the order in the overall routine.

PREMILKING TEAT PREPARATION ROUTINE			
General Method	Specific Procedure	Check all that apply	Order in routine
Wash pen	Wash animals in pen prior to entering parlor	V262	V283
Water hose	With disinfectant	V263	V284
	Without disinfectant	V264	V285
Dry wipe	Single-use cloth towel	V265	V286
	Multiple-use cloth towel	V266	V287
	Single-use paper towel	V267	V288
	Multiple use paper towel	V268	V289
Wet wipe	Commercial teat wipes, single use	V269	V290
	Commercial teat wipes, multiple use	V270	V291
	Towel using labeled disinfectant, single use	V271	V292
	Towel using labeled disinfectant, multiple use	V272	V293
	Towel using nonlabeled/homemade disinfectant, single use	V273	V294
	Towel using nonlabeled/homemade disinfectant, multiple use	V274	V295
Predip	Multiple use sponge with disinfectant	V275	V296
	Applied with sprayer using labeled disinfectant	V276	V297
	Applied with sprayer using nonlabeled/homemade disinfectant	V277	V298
	Applied with predip cup using labeled disinfectant	V278	V299
	Applied with predip cup using nonlabeled/homemade disinfectant	V279	V300
	Applied as foam using labeled disinfectant	V280	V301
Other	Applied as foam using nonlabeled/homemade disinfectant	V281	V302
	Other (specify: _____)	V282OTH	V303

59. Which of the following best describes how teats are dried prior to milking in both summer and winter seasons?
 (Enter one code only for each season.)

- (1) Not applicable—teats not wet prior to milking
- (2) Air dry
- (3) Single-use cloth towel
- (4) Single-use paper towel
- (5) Multiple-use cloth towel
- (6) Multiple-use paper towel
- (7) Other (specify: _____) V304OTH.....V304/305 _____ code _____ code

Summer Winter

68. In the last 12 months, how many cows—all, some, or none—have been vaccinated for:

- a. Coliform mastitis?..... V319 ₁ All ₂ Some ₃ None
Vaccines include Master Guard® J5; J5 Shield™; J-5 bacterin™; J-5 E. coli bacterin; J-vac®
- b. **Salmonella?** V320 ₁ All ₂ Some ₃ None
Vaccines include LeukoTox® MTD; SDT-Guard; Pro-Bac®; Bo-Bac 2x; Pulmo-guard™ PH-M/SDT; Cattle-val salmo; Salmonella Dublin-Typhimurium Bacterin Endovac-Bovi®; Poly-sal™ B; Salmo shield® T; Salmo shield® TD
- c. Siderophore receptors and porins (SRPs) vaccines? V321 ₁ All ₂ Some ₃ None
Vaccines include Salmonella Newport Bacterial Extract SRP
- d. **Mycoplasma?** V322 ₁ All ₂ Some ₃ None
Vaccines include Pulmo-guard PH-M/SDT; Myco-Bac B; Mycomune
- e. *Staphylococcus aureus*? V323 ₁ All ₂ Some ₃ None
Vaccines include Lysigin®; Samato-Staph®;
- f. **Any disease using autogenous vaccines?** V324 ₁ All ₂ Some ₃ None

If Item 68f = NONE, SKIP to Item 70.

69. Were autogenous vaccines administered for the following mastitis pathogens?

- a. *Mycoplasma* V325 ₁ Yes ₃ No
- b. ***Staph. aureus*** V326 ₁ Yes ₃ No
- c. *E. coli* V327 ₁ Yes ₃ No
- d. ***Strep. spp.*** V328 ₁ Yes ₃ No
- e. Other (specify: _____) V329OTH..... V329 ₁ Yes ₃ No

70. Were any of the following milk cultures performed during the last 12 months?

- a. Individual cows V330 ₁ Yes ₃ No
- b. **Bulk-tank milk** V331 ₁ Yes ₃ No
- c. String samples V332 ₁ Yes ₃ No

If Items 70a-c are all NO, SKIP to Item 74.

71. In the last 12 months, were any of the milk cultures performed by:

- a. Farm personnel, done on farm?..... V333 ₁ Yes ₃ No
- b. **A State or university diagnostic laboratory?** V334 ₁ Yes ₃ No
- c. A commercial lab..... V335 ₁ Yes ₃ No
- d. **A private veterinary lab (veterinary clinic)** V336 ₁ Yes ₃ No

If Item 70a = NO (no individual cow milk cultures performed), SKIP to Item 73.

72. In the last 12 months, which cows were typically selected for milk culturing?

- a. Fresh cows..... V337 ₁ Yes ₃ No
- b. All clinical cases..... V338 ₁ Yes ₃ No**
- c. Chronic clinical cases..... V339 ₁ Yes ₃ No
- d. Clinical cases that did not respond to treatment..... V340 ₁ Yes ₃ No**
- e. High somatic cell count cows V341 ₁ Yes ₃ No
- f. Other (specify: _____) V342OTH..... V342 ₁ Yes ₃ No**

73. Which of the following organisms were identified from milk cultured in the last 12 months?

- a. *Strep. agalactiae* V343 ₁ Yes ₃ No
- b. *Staph. aureus*..... V344 ₁ Yes ₃ No**
- c. *Mycoplasma* V345 ₁ Yes ₃ No
- d. *E. coli* / *Klebsiella* / other gram negative..... V346 ₁ Yes ₃ No**
- e. Coagulase neg staph (*Staph. spp.*) non-*aureus* V347 ₁ Yes ₃ No
- f. Environmental strep (*Strep. spp.*) non-*agalactiae* V348 ₁ Yes ₃ No**

74. Does this operation perform on-farm antibiotic residue testing of milk? V349 ₁ Yes ₃ No

If Item 74 = NO, skip to Item 77.

75. Which test is most commonly used on this operation to screen for antibiotic residues in milk?
(Check one only.)

- ₁ Snap® kit (beta lactam or tetracycline)
- ₂ Delvotest®
- ₃ CITE Probe®
- ₄ Charm Farm
- ₅ Penzyme® Milk Test
- ₆ Other (specify: _____) V350OTH V350

76. Are milk samples evaluated for antibiotic residues from:

- a. Fresh cows?..... V351 ₁ Yes ₃ No
- b. Individual cows recently treated for mastitis? V352 ₁ Yes ₃ No**
- c. Bulk tank prior to processor pickup?..... V353 ₁ Yes ₃ No
- d. Other? (specify: _____) V354OTH..... V354 ₁ Yes ₃ No**

77. Does this operation use an external teat sealant (e.g., Stronghold™) at the time of dry off?
[Check one only.]

- ₁ On all cows at drying off
- ₂ Cows with chronic mastitis
- ₃ Use on all cows at drying off but only during winter or adverse weather
- ₄ No external teat sealant used on this operation
- ₅ Other (specify: _____) V355OTH V355

78. Does this operation use an internal teat sealant (Orbeseal™) at the time of drying off?
 [Check one only.]

- ₁ On all cows at drying off
- ₂ Cows with chronic mastitis
- ₃ Use on all cows at drying off but only during winter or adverse weather
- ₄ No internal teat sealant used on this operation
- ₅ Other (specify: _____) V356OTH

V356

79. During the last 12 months, approximately what percentage of cows were treated with **dry cow** intramammary antibiotics at drying off? V357 _____ %

If Item 79 = 0, SKIP to Item 81.

80. Of those cows treated during the last 12 months with **dry cow** intramammary antibiotics, what percentage were given the following antibiotics?
 (See attached VS Initial Visit Reference Card.)

- a. Ceftiofur hydrochloride (*Spectramast DC*) V358 _____ %
- b. Cephapirin (benzathine) (*Cefa-Dri®/Tomorrow*) V359 _____ %**
- c. Cloxacillin (benzathine)
 (*Boviclox; Dry-Clox®; Dry-Clox® Intramammary Infusion; Orbenin-DC®*) V360 _____ %
- d. Erythromycin (*Gallimycin®-Dry*) V361 _____ %**
- e. Novobiocin (*Biodry®*) V362 _____ %
- f. Penicillin G (procaine) (*Hanford's/US Vet Go Dry*) V363 _____ %**
- g. Penicillin G (procaine)/Dihydrostreptomycin
 (*Quartermaster® Dry Cow Treatment*) V364 _____ %
- h. Penicillin G (procaine)/ Novobiocin (*Albadry® Plus Suspension*) V365 _____ %**
- i. Other (specify: _____) V366OTH V366 _____ %
- Total (should equal 100%) 100%**

Section G—Antibiotic Use

81. In the last 12 months, did this operation use antibiotics for **disease prevention or growth promotion** in **rations** for weaned dairy heifers that have not yet calved?
(Check one only.)

- ₁ Weaned dairy heifers not housed on this operation
- ₂ Yes; antibiotics in heifer ration
- ₃ Don't know if antibiotics were in heifer rations
- ₄ No; antibiotics were not in heifer rations

V367

If YES, which of the following antibiotics were used?
(See attached VS Initial Visit Reference Card.)

- a. Bacitracin methylene disalicylate V368 ₁ Yes ₃ No
- b. Bambermycins V369 ₁ Yes ₃ No
- c. Chlortetracycline compounds V370 ₁ Yes ₃ No
- d. Neomycin sulfate V371 ₁ Yes ₃ No
- e. Ionophores (e.g., Rumensin®, Bovatec®, Deccox®)..... V372 ₁ Yes ₃ No
- f. Neomycin-oxytetracycline..... V373 ₁ Yes ₃ No
- g. Oxytetracycline compounds V374 ₁ Yes ₃ No
- h. Sulfamethazine V375 ₁ Yes ₃ No
- i. Tylosin phosphate V376 ₁ Yes ₃ No
- j. Virginiamycin V377 ₁ Yes ₃ No
- k. Other antibiotics (specify: _____)V378OTH V378 ₁ Yes ₃ No

82. Complete the table below on antibiotics used in the last 12 months to treat **diseases** or **disorders** in unweaned heifers, heifers weaned but not yet calved, and all cows. (This does NOT apply to dry cow treatments and to preventive treatments.) (See attached VS Initial Visit Reference Card.)

If antibiotic is not listed, please write in name and active ingredient.

	Disease or disorder	Number of affected animals in the last 12 months	Number of affected animals treated with ANTIBIOTICS	Primary ANTIBIOTIC used (Enter 1 code from attached list.)
Unweaned Heifers	Respiratory	V379	V392	V405
	Diarrhea or other digestive	V380	V393	V406
	Navel infection	V381	V394	V407
	Other (specify) V382OTH	V382	V395	V408
Heifers weaned but not yet calved	Respiratory	V383	V396	V409
	Diarrhea or other digestive	V384	V397	V410
	Other (specify) V385OTH	V385	V398	V411
All cows	Respiratory	V386	V399	V412
	Diarrhea or other digestive	V387	V400	V413
	Reproductive	V388	V401	V414
	Mastitis	V389	V402	V415
	Lameness	V390	V403	V416
	Other (specify) V391OTH	V391	V404	V417

83. Of lactating cows treated for mastitis in the last 12 months with intramammary antibiotics, were treatments based on:

- a. Veterinary recommendation? V418 ₁ Yes ₃ No
- b. Historical effectiveness? V419 ₁ Yes ₃ No
- c. Historical culture and antimicrobial sensitivity results? V420 ₁ Yes ₃ No
- d. Individual cow culture results prior to therapy? V421 ₁ Yes ₃ No
- e. Other? (specify: _____) V422OTH V422 ₁ Yes ₃ No

NOTE: If the Producer is currently enrolled in DHIA, please ask for a copy of the DHIA summary sheet. Either mark out or cut off the Producer's identification and replace it with the NAHMS ID number. Submit the sheet with the questionnaire. Data from the DHIA summary sheet will be used to collect additional information that isn't gathered during the interview. Providing the DHIA summary reduces the amount of interview time required to obtain the additional information.

Office Use Only

State FIPS: _____ 2-digits	Operation #: _____ 4-digits	Interviewer: _____ Initials	Date: ____/____/____ (mm/dd/yy)
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1. Total time for interview (include time to discuss the program and complete the questionnaire). If more than one data collector present, enter the combined time..... _____ min VITIME

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

3. Data collector(s): *(Enter the number for each category.)*
 ____ Federal VMO ____ Federal AHT ____ State personnel ____ Other (specify) VVMO/VAHT/VST/VOTH

4. Enter response code 99 if questionnaire is completed or enter one code of 0-7 that best describes the reason why the owner is not participating..... _____ code VRCO

 99 = Survey completed
 00 = Producer not contacted by VMO
 01 = Poor time of year or no time
 02 = Does not want anyone on operation
 03 = Bad experience with government veterinarians
 04 = Does not want to do another survey or divulge information
 05 = Told NASS they did not want to be contacted
 06 = Ineligible (no dairy cows)
 07 = Other reason (explain below)

5. Producer data quality..... ₁ Good to Excellent ₂ OK ₃ Poor VPDQ

6. Did the Producer use written or computerized records to assist in answering this survey? ₁ Yes ₃ No VREC

7. Did the Producer provide a copy of the DHIA summary sheet?.... ₁ Yes ₂ Not on DHIA ₃ No VDHA

8. Which of the following best describes the respondent's position with this operation? _____ code VPOS
 1 = Owner
 2 = Manager
 3 = Family member (other than owner or manager)
 4 = Other hired employee
 5 = Other (specify: _____) VPOSOTH

Comments regarding this questionnaire or operation:

VMO or AHT Signature: _____

TO BE COMPLETED BY THE COORDINATOR:

- Field data quality ₁ Good to Excellent ₂ OK ₃ Poor VFDQ