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GENERAL DAIRY MANAGEMENT QUESTIONNAIRE January 2014



Animal and Plant Health
Inspection Service
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Fort Collins, CO 80526-8117

Office use only

0001

0002

BEGINNING TIME [MILITARY].....

INTRODUCTION

[Rephrase in your own words.]

We would like to ask you some questions about your dairy operation. To understand important issues in the dairy industry, we need to obtain information about the health status of your dairy cattle, any health problems they may have had, as well as about productivity and management.

The information you provide will be used for statistical purposes only. In accordance with the Confidential Information Protection provisions of Title V, Subtitle A, Public Law 107-347 and other applicable Federal laws, your responses will be kept confidential and will not be disclosed in identifiable form to anyone other than employees or agents. By law, every employee and agent has taken an oath and is subject to a jail term, a fine, or both if he or she willfully discloses ANY identifiable information about you or your operation. Response is **voluntary**.

You may find it easier to answer some of the questions if you have your records available.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not 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 60 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

SECTION 1 - INVENTORY, RECORD KEEPING & PRODUCTIVITY

1. **Enumerator Note:** Were any dairy cows (IC352) reported on the **Cattle** or **Milk Report**?

101

Yes – Continue **No** – Go to Section 10 **Not matched with the Cattle or Milk Report** - Continue

Instructions: If the respondent completed the **Cattle** or **Milk Report**:

- **Transfer** Items 2, 3, 5, 10a, and 10c
- **Ask** Items 4, 6, 7, 8, 9, and 10b

OR

If the respondent did not complete the **Cattle** or **Milk Report**:

- **Ask** Items 2 – 10

2. How many dairy cows, whether dry or in milk, were on hand January 1, 2014? Head
102
[If Item 2 = Zero, go to Section 10; otherwise continue]

3. How many dairy cows were milked on this operation on January 1, 2014? 103

4. So the number of dry cows on hand January 1, 2014 was?
[Subtract Item 3 from Item 2 and verify dry cow total] 104

5. How much milk was produced on this operation on January 1, 2014? Gallons 105 OR Pounds 106

6. How many bulls were on hand January 1, 2014 and used for breeding dairy cattle in 2013? Head
107

7. Of these (Item 6) bulls, how many were:

a. Beef bulls? 108

b. Dairy bulls? 109

8. How many of the heifers for dairy cow replacement on hand on January 1, 2014 (physically on this operation; excluding heifers being raised off-site) were:

a. Preweaned? (heifers still on a milk or milk replacer diet). Head
110

b. Weaned but not pregnant? (commonly referred to as open heifers). + 111

c. Pregnant? (commonly referred to as bred heifers). + 112

d. Total heifers for dairy cow replacement? = 113

9. So the total female inventory on hand January 1, 2014 was? **[Add Items 2 + 8d and verify the total.]** 114

10. During 2013, what was the average price per head in your locality for:

a. Dairy replacement heifers weighing 500 pounds or more? Dollars
per Head
115
\$

b. Springing dairy heifers? 116
\$

c. Milk cows for dairy herd replacement? 117
\$

SECTION 1 - INVENTORY, RECORD KEEPING & PRODUCTIVITY

11. Of the total (Item 8d) **dairy replacement heifers** on hand January 1, what percent were:

- a. Born and raised on this operation?
- b. Born on this operation but raised off this operation?
- c. Born off this operation?

TOTAL

+
+
=

Percent	
118	%
119	%
120	%
100%	

12. Of the dairy calves born on this operation during 2013, how many were:

- a. Born and still alive at 48 hours?
- b. Stillborn (born dead or died within 48 hours of birth)?
- c. Total calves born?

+
=

Head
121
122
123

13. Of the (Item 12a) calves born alive, how many were **dairy heifer calves**?

Head
124

14. Of the (Item 2) dairy cows on this operation January 1, 2014, what percent were:

- a. Holstein?
- b. Jersey?
- c. Ayrshire?
- d. Brown Swiss?
- e. Guernsey?
- f. Milking Shorthorn?
- g. Other, including mixed dairy breeds? (Specify: ¹⁰⁰⁰ _____)

TOTAL

+
+
+
+
+
+
+

Percent	
125	%
126	%
127	%
128	%
129	%
130	%
131	%
100%	

15. Of the (Item 2) dairy cows on this operation January 1, 2014, what percent were registered with a breed association (purebred)?

Percent	
132	%

16. In order to track the adult cow inventory changes during 2013, how many:

- a. Lactating and dry cows were present on **January 1, 2013**?
- b. First lactation heifers that were born on this operation were added to the milking herd during 2013? (**Include** heifers raised off-site)
- c. Purchased/leased additions were added to the milking herd during 2013?
- d. Adult cows were permanently removed from the herd during 2013? (**Exclude** cows that died)
- e. Adult cows died during 2013?
- f. Total lactating and dry cows were present on **January 1, 2014**? (Add Items 16a, 16b, 16c, subtract 16d and 16e and then verify the total. Should equal Item 2)

+
+
-
-
=

Head
133
134
135
136
137
138

SECTION 1 - INVENTORY, RECORD KEEPING & PRODUCTIVITY

Head

- | |
|-----|
| 139 |
| 140 |
17. How many cows did this operation milk 5 years ago?.....
18. How many cows does this operation anticipate milking 5 years from now?.....
19. During 2013, did this operation participate in any of the following quality assurance programs to improve product quality through assessments and monitoring?
- a. State sponsored program (e.g., California Dairy Quality Assurance). 141 1 Yes 3 No
- b. Milk cooperative/processor sponsored program (e.g., DFA – Gold Standards, Organic Valley). 142 1 Yes 3 No
- c. National industry sponsored program (e.g., NMPF – FARM Program). 143 1 Yes 3 No
- d. Other program (Specify: ¹⁰⁰¹ _____) 144 1 Yes 3 No
20. Of the (Item 2) dairy cows on hand January 1, what percent had the following types of individual cow identification?

Individual Identification Type (Unofficial or Official ID)	Percent Dairy Cows (Does not have to sum to 100%)	Which one of the identification methods is primarily used for management and record-keeping purposes? (Check one)
Unofficial ID		
a. Bangle eartags	145 %	157 1 <input type="checkbox"/>
b. Leg bands (visual only)	146 %	158 1 <input type="checkbox"/>
c. Collars (visual only)	147 %	159 1 <input type="checkbox"/>
d. Brand (individual animal)	148 %	160 1 <input type="checkbox"/>
e. Animal's Name	149 %	161 1 <input type="checkbox"/>
f. Electronic ID Devices (neck transponder, activity pedometers, injected microchips, RFID bolus, etc.)	150 %	162 1 <input type="checkbox"/>
g. Other unofficial ID (Specify: ¹⁰⁰² _____)	151 %	163 1 <input type="checkbox"/>
Official ID		
h. Brucellosis (Bang's) orange metal vaccination eartag	152 %	164 1 <input type="checkbox"/>
i. Silver (brite) metal eartag (with National Uniform Eartagging System Number (NUES))	153 %	165 1 <input type="checkbox"/>
j. AIN visual only eartag with "840" prefix	154 %	166 1 <input type="checkbox"/>
k. Visual only eartag with "USA" prefix*	155 %	167 1 <input type="checkbox"/>
l. AIN RFID (electronic) eartag with "840" prefix (button or panel tags)	156 %	168 1 <input type="checkbox"/>
m. 900 series RFID (electronic) eartag*	896 %	898 1 <input type="checkbox"/>
n. Other official ID (e.g. Plastic NUES eartag, Canadian eartag, etc.) (Specify: ¹⁰⁰³ _____)	897 %	899 1 <input type="checkbox"/>

*Eartags with "USA" and "900 series" prefix are official eartags during a transition period if applied to the animal before March 11, 2015.

SECTION 1 - INVENTORY, RECORD KEEPING & PRODUCTIVITY

21. During 2013, did this operation participate in the Dairy Herd Information Association (DHIA)? 169 Yes No
22. During 2013, which of the following types of record-keeping systems did this operation use to track individual dairy animals?
- a. Handwritten records, such as a ledger or notebook. 170 Yes No
 - b. Off-farm computer record system. 171 Yes No
 - c. On-farm computer record system. 172 Yes No
 - d. No record keeping system. 173 Yes No
 - e. Other systems (Specify: ¹⁰⁰⁴ _____) 174 Yes No

[If Item 22b or 22c = Yes, continue; otherwise go to Item 26]

23. Which one of the following was the primary record system used? (Check one)

- ¹⁷⁵
- 1 Dairy Comp 305
 - 2 PC Dart
 - 3 DHI Plus
 - 4 Dairy Plan
 - 5 Dairy Quest
 - 6 Other (Specify: ¹⁰⁰⁵ _____)

24. Were official IDs (brucellosis tags, AIN tags, etc.) entered into the computer system for individual animals during 2013? 176 Yes No

Percent

25. What percent of computer data entry on your operation was done electronically during 2013 (not manually entered into computer software programs)? 177 %

26. Which of the following devices are used on your operation?

- a. Handheld computers. 178 Yes No
- b. Smartphone. 179 Yes No
- c. Wands for reading RFID tags. 180 Yes No

27. Did this operation re-use **unofficial** ID numbers during 2013 from animals that were sold or died? 181 Yes No

28. Were record-keeping systems used for individual dairy animals during 2013 to track or monitor the following?

- a. Milk production. 182 Yes No
- b. Animal health (e.g., mastitis, lameness events, vaccinations, etc.). 183 Yes No
- c. Antibiotic withdrawal times. 184 Yes No
- d. Breeding history and genetic improvements. 185 Yes No
- e. Cull cow sales. 186 Yes No
- f. Other (Specify: ¹⁰⁰⁶ _____) 187 Yes No

SECTION 1 - INVENTORY, RECORD KEEPING & PRODUCTIVITY

29. During 2013, did this operation access the internet for dairy information? ¹⁸⁸ 1 Yes 3 No

For the purposes of this study, herd identification refers to an ID that is the same for all animals in the herd. The ID designates the animal as belonging to this operation. Examples of herd identification include ear tags with the farm name, and brands.

30. What percent of dairy cattle on this operation had herd identification?.....

Percent	
189	%

[If Item 30 = zero, go to Item 32; otherwise continue]

31. Which of the following herd identification method(s) did this operation use during 2013?
- a. Hot iron brand. ¹⁹⁰ 1 Yes 3 No
 - b. Cold iron (freeze) brand. ¹⁹¹ 1 Yes 3 No
 - c. Tattoo. ¹⁹² 1 Yes 3 No
 - d. Bangle tag. ¹⁹³ 1 Yes 3 No
 - e. RFID tag. ¹⁹⁴ 1 Yes 3 No
 - f. Other (Specify: ¹⁰⁰⁷ _____) ¹⁹⁵ 1 Yes 3 No

32. How familiar are you with the USDA Animal Disease Traceability Rule? (Check one)

- ¹⁹⁶
- 1 Have not heard of it
 - 2 Recognize the name, but not much else
 - 3 Know some basics
 - 4 Fairly knowledgeable

33. As part of the Animal Disease Traceability Program, has your State animal health agency assigned this operation a unique:

- a. Premises ID Number (PIN)?..... ¹⁹⁷ 1 Yes 3 No 2 Don't Know
- b. Location Identification Number (LID)?..... ⁹⁰⁶ 1 Yes 3 No 2 Don't Know

34. During 2013, what percent of the (Item 2) dairy cows received bST (bovine somatotropin, trade name Posilac®) in their most recent lactation?.....

Percent
198

35. What is the current rolling herd average (RHA) for milk production?.....

Pounds per Cow
199

36. During 2013, how many times per day were the majority of cows milked? (Check one)

- ²⁰⁰
- 1 Once a day
 - 2 Twice a day
 - 3 Three times a day
 - 4 More than three times a day

SECTION 1 - INVENTORY, RECORD KEEPING & PRODUCTIVITY

37. During 2013, did this operation use computer technology for:

- 201
a. Recording daily milk weights for individual cows? 1 Yes 3 No
- 202
b. Managing reproductive records? 1 Yes 3 No
- 203
c. Continuing education, on-line courses? 1 Yes 3 No
- 205
d. Communicating with vendors? 1 Yes 3 No
- 206
e. Online purchasing of nonpersonal items and equipment for the dairy operation? 1 Yes 3 No

CWT

38. During 2013, how much milk was produced by this operation? (Report in hundredweight).

Days

39. During 2013, what was the average number of days that dairy cows were dry?

Months

40. During 2013, what was the average calving interval (in months) for dairy cows?
(Calving interval is the time from one calving to the next calving for an individual cow.)

Months

41. During 2013, what was the average age (in months) of dairy heifers at time of first calving?

42. Did this operation have or produce any **certified organic** dairy livestock or milk in 2013?

- 211
1 Yes – Go to Section 2 3 No - Continue

43. Which one of the following practices best describes this dairy operation during 2013? (Check one)

- 212
1 Conventional (majority of forage consumed is not harvested by cows)
- 2 Grazing (majority of forage consumed is harvested by cows during the growing season)
- 3 Combination of conventional and grazing
- 4 Other (Specify: ¹⁰⁰⁸ _____)

SECTION 2 - BIOSECURITY, MOVEMENT & REARING PRACTICES

1. Were any cattle added to this operation during 2013? (**Include** purchased, leased, or borrowed cattle. **Exclude** calves raised off-site and returned to this operation.)

213

Yes - Continue No – Go to Item 9

2. Please complete the table below for the type of cattle added to this operation during 2013. Exclude calves raised off-site. If the cattle class wasn't purchased, leased or borrowed, check 'No' and go to the next row.

Quarantine refers to the physical separation of an animal or group of animals from other cattle on the operation.

1	2	3	4	5	6	7
Cattle Class	Were any (column 1) added to this operation during 2013?	How many (column 1) were added to this operation during 2013?	Of the (column 3, column 1), how many were quarantined?	How many days were they quarantined?	What was the average cost per head on the last purchase?	How many of the (column 1) originated from another State?
a. Preweaned dairy or beef calves	214 <input type="checkbox"/> Yes <input type="checkbox"/> No	222	231	240	248 \$	255 <input type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None
b. Weaned but not pregnant dairy heifers	215 <input type="checkbox"/> Yes <input type="checkbox"/> No	223	232	241	249 \$	256 <input type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None
c. Pregnant dairy heifers	216 <input type="checkbox"/> Yes <input type="checkbox"/> No	224	233	242	250 \$	257 <input type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None
d. Fresh dairy heifers	217 <input type="checkbox"/> Yes <input type="checkbox"/> No	225	234	243	251 \$	258 <input type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None
e. Lactating dairy cows	218 <input type="checkbox"/> Yes <input type="checkbox"/> No	226	235	244	252 \$	259 <input type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None
f. Dry dairy cows	219 <input type="checkbox"/> Yes <input type="checkbox"/> No	227	236	245	253 \$	260 <input type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None
g. Beef cows, bulls, steers and heifers	220 <input type="checkbox"/> Yes <input type="checkbox"/> No	228	237	246		261 <input type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None
h. Dairy bulls	221 <input type="checkbox"/> Yes <input type="checkbox"/> No	229	238	247	254 \$	262 <input type="checkbox"/> All <input type="checkbox"/> Some <input type="checkbox"/> None
i. Total		230	239			

SECTION 2 - BIOSECURITY, MOVEMENT & REARING PRACTICES

3. For the total (Item 2, row i, column 3) cattle added to this operation in 2013, please complete the following table.
(Exclude calves raised off-site that returned to this operation.)

A shipment is one group of animals moved at once, regardless of the number of vehicles required to move them.

1 Source	2 What percent of the total cattle added to this operation in 2013 came from (column 1)?	3 How many total shipments from (column 1) arrived on this operation in 2013?	4 What was the average, minimum, and maximum number of miles that animals were transported from (column 1)?			7 Did any shipments cross State lines?
			4 Average distance code	5 Minimum distance code	6 Maximum distance code	
a. Another dairy operation	263 %	269	276	282	288	294 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
b. Heifer-rearing operation (Not natural additions)	264 %	270	277	283	289	295 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
c. Market/auction	265 %	271	278	284	290	296 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
d. Livestock dealer	266 %	272	279	285	291	297 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
e. Beef cow-calf operation	267 %	273	280	286	292	298 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
f. Other ¹⁰⁰⁹ (Specify: _____)	268 %	274	281	287	293	299 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
g. Total	100%	275				

4. During 2013, before adding **cattle** (either dairy or beef) to the operation, did this operation **normally require or perform individual animal testing** for any diseases (e.g., BVD, Tuberculosis, Johne's disease, etc.)?

³⁰⁰

1 Yes - Continue 3 No - Go to Item 6

SECTION 2 - BIOSECURITY, MOVEMENT & REARING PRACTICES

5. Were any of the cattle added to this operation during 2013 tested for the following diseases:
- a. Bovine viral diarrhea – persistently infected animals (BVD-PI)? 301 Yes No
 - b. Johne’s disease (*Mycobacterium avium* subspecies *paratuberculosis*)? 302 Yes No
 - c. Brucellosis? 303 Yes No
 - d. Tuberculosis? 304 Yes No
 - e. Contagious mastitis pathogens? 305
(i.e., Staph. aureus, Strep agalactiae, Mycoplasma). Yes No NA – no lactating
cattle purchased
 - f. Bovine leukosis virus (BLV)? 306 Yes No
 - g. Bluetongue? 307 Yes No
 - h. Other? (Specify: ¹⁰¹⁰ _____) 308 Yes No
6. During 2013, before adding cattle (either beef or dairy) to the operation, did this operation **normally require or administer** vaccination for any disease (e.g., Brucellosis, BVD, IBR, etc.)?
902 Yes – Continue No – Go to Item 8
7. Were any cattle added to the operation during 2013, **administered the following** vaccines?
- a. Brucellosis. ³⁰⁹ Yes No NA – purchased bulls or heifers too young or old to vaccinate
 - b. BVD (bovine viral diarrhea). 310 Yes No
 - c. IBR (infectious bovine rhinotracheitis). 311 Yes No
 - d. Lepto (leptospirosis). 312 Yes No
 - e. Salmonella. 313 Yes No
 - f. Neospora. 314 Yes No
8. During 2013, before adding cattle (either beef or dairy) to the operation, did this operation normally require:
- a. Herd-of-origin BVD status? 315 Yes No
 - b. Herd-of-origin Johne’s disease (*Mycobacterium paratuberculosis*) status? 316 Yes No
 - c. Herd-of-origin bulk-tank milk somatic cell count? 317 Yes No
 - d. Herd-of-origin bulk-tank milk culture to evaluate contagious mastitis pathogens? 318 Yes No
 - e. Other? (Specify: ¹⁰¹² _____) 319 Yes No
9. During 2013, did any cattle (either beef or dairy) leave this operation for any purpose (show, sale, petting zoo, etc.) and then return to this operation? (**Exclude** calves raised off- site.) 320 Yes No

SECTION 2 - BIOSECURITY, MOVEMENT & REARING PRACTICES

10. During 2013, were any of the following animals on this operation at any time, or on adjacent operations where fence-line contact with dairy cattle was possible?

Animal Type	On this operation during 2013?	On an adjacent operation during 2013 where fence-line contact was possible?
a. Dairy cattle		334 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
b. Beef cattle	321 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	335 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
c. Mexican-origin cattle (e.g., steers and rodeo stock)	322 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	336 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
d. Chickens or other poultry	323 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	337 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
e. Horses, donkeys, mules, etc.	324 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	338 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
f. Pigs (domestic)	325 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	339 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
g. Sheep	326 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	340 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
h. Goats	327 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	341 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
i. Dogs (domestic or feral)	328 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	342 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
j. Cats (domestic or feral)	329 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	343 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
k. Captive deer or elk	330 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	344 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
l. Llamas, alpacas	331 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	345 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
m. Bison	332 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	346 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
n. Other (Specify: ¹⁰¹³ _____)	333 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	347 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No

11. During 2013, how often were the following wild animals or signs of wild animals (scat, tracks, etc.) observed on this operation?

Animal type	Never	Less than once a month	Monthly or more often
a. Deer	348 1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
b. Coyotes, foxes	349 1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
c. Raccoons	350 1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
d. Opossums	351 1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
e. Skunks	352 1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
f. Feral pigs	353 1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>
g. Other wild animals (Specify: ¹⁰¹⁴ _____)	354 1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>

[If Item 11a = Never, go to Item 13; otherwise continue]

SECTION 2 - BIOSECURITY, MOVEMENT & REARING PRACTICES

12. How often were deer observed in the **cattle-housing areas, pastures, or lots** during 2013?

355

- 1 Never
- 2 Less than once a month
- 3 Monthly
- 4 Weekly or daily

For this study, a heifer-raising operation is defined as an operation that raised dairy heifer calves for at least one operation other than its own during 2013. These operations are commonly known as custom raisers or calf ranches and are managed/operated by someone other than the owner of a dairy operation. These are also referred to as “off-site rearing facilities”. Calf rearing facilities at a different location that belong to this operation, and managed by this operation, are not considered heifer rearing facilities or off-site rearing facilities.

13. During 2013, were any dairy calves (bulls, steers, or heifers) raised off-site with retained ownership?

356

- 1 Yes – Continue
- 3 No – Go to Item 15

14. How many of the following types of dairy calves were raised off-site with retained ownership during 2013?

		Head
a.	Bull and steer calves.	357
b.	Heifer calves.	+ 358
c.	Total calves.	= 359

15. During 2013, were any dairy calves (bulls, steers, or heifers) sold?

360

- 1 Yes – Continue
- 3 No – Go to Section 3 only if Item 13 and Item 15 both are No; otherwise go to Item 17

16. How many of the following types of dairy calves were sold during 2013?

		Head
a.	Bull and steer calves.	361
b.	Heifer calves.	+ 362
c.	Total calves.	= 363

SECTION 2 - BIOSECURITY, MOVEMENT & REARING PRACTICES

17. For the total dairy calves sold or raised off-site, please complete the following table. If no calves went to the following destination or arrangement, check 'No' and go to the next row. For columns 4 and 6, crossing State lines only refers to the location of the immediate raiser/buyer.

1 Destination or Arrangement	2 Was this destination or arrangement used for any calves during 2013?	3 What percent of bull and steer calves went to this destination or arrangement in 2013?	4 Did any of these shipments of bull/steer calves cross State lines?	5 What percent of heifer calves went to this destination or arrangement in 2013?	6 Did any of these shipments of heifer calves cross State lines?
a. Raised off-site with retained ownership?	364 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	371 %	377 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	383 %	390 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
b. Sold and then brought back to this operation?	365 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No			384 %	391 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
c. Sold to a calf ranch or heifer raiser and not brought back to this operation?	366 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	372 %	378 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	385 %	392 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
d. Sold through auction?	367 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	373 %	379 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	386 %	393 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
e. Sold through a dealer?	368 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	374 %	380 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	387 %	394 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
f. Sold directly to another dairy?	369 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	375 %	381 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	388 %	395 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
g. Other (Specify: ¹⁰¹⁵ _____)	370 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	376 %	382 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	389 %	396 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
Total		100%		100%	

397

18. Do bull or steer calves ever return to this operation from the rearing facility? 1 Yes 3 No 4 NA

[If Item 17, rows a and b, column 5 are both zero, go to Section 3; otherwise continue]

All of the following questions in this section only refer to heifers that were raised off-site with retained ownership.

19. At what age, in days or weeks, did the majority of dairy heifers leave this operation?

Days

398

OR

Weeks

399

SECTION 2 - BIOSECURITY, MOVEMENT & REARING PRACTICES

20. At the time the dairy heifers left this operation, were the majority: (Check one)

400

- 1 Preweaned?
- 2 Weaned but not pregnant, regardless of breeding age?
- 3 Pregnant?

[If Item 20 = 'Preweaned', continue; otherwise go to Item 23]

21. During 2013, did this operation supply waste milk to the off-site heifer rearing operation(s)?

401

- 1 Yes 3 No

22. During 2013, did the off-site rearing facility pasteurize all milk fed to this operation's heifer calves?

402

- 1 Yes 3 No 2 Don't Know 4 NA – rearing facility does not feed milk

23. Which of the following best describes the off-site rearing facility? (Check one)

403

- 1 Dairy heifers are sent to a **single rearing facility** and **do not have any contact** with cattle from other operations.
- 2 Dairy heifers are sent to **multiple rearing facilities** and **do not have any contact** with cattle from other operations.
- 3 Dairy heifers are sent to a **single rearing facility** and **have contact** with cattle from other operations.
- 4 Dairy heifers are sent to **multiple rearing facilities** and **have contact** with cattle from other operations.
- 5 Other (Specify: ¹⁰¹⁶ _____)

24. On average, how many miles were the dairy heifers transported to the off-site rearing facility(ies)?

Miles

404

25. During 2013, how many times per week, per month, or per year were dairy heifers first transported **off of this operation?**

Times per Week

405

OR

Times per Month

406

OR

Times per Year

409

26. During 2013, how often were heifer transport vehicles washed/rinsed before transporting heifers:

Washing/rinsing codes	
1 = After every shipment	4 = As needed – no standard procedure
2 = After 2 or 3 shipments	5 = Other (Specify: ¹⁰¹⁷ _____)
3 = After more than 3 shipments	6 = Unknown

Code

410
411

Was disinfectant used?

a. Off of this operation?

412

- 1 Yes 3 No

b. Back to this operation?

413

- 1 Yes 3 No

SECTION 2 - BIOSECURITY, MOVEMENT & REARING PRACTICES

27. During 2013, how many times per week, per month, or per year did dairy heifers return to this operation from the rearing facility?

Times per Week		Times per Month		Times per Year
414	OR	415	OR	416

28. What was the average age (in months) of dairy heifers when they returned to this operation after being raised off-site?

Months
417

29. At the time dairy heifers returned to this operation after being raised off-site, were the majority: (Check one)

418

- 1 Weaned but not pregnant?
- 2 Pregnant?
- 3 Recently fresh?
- 4 Other? (Specify: ¹⁰¹⁸ _____)

SECTION 3 - COLOSTRUM & PREWEANED CALF MANAGEMENT

1. During 2013, what percent of calvings occurred in the following areas:

- a. Multiple-animal area/pen (group calving)?
- b. Individual-animal area/pen cleaned between each calving?
- c. Individual-animal area/pen cleaned after two or more calvings?
- d. Other? (Specify: ¹⁰¹⁹ _____)

Percent

419	%
420	%
421	%
422	%

+
+
+

TOTAL = 100%

For the purposes of this study, calving areas are specific areas where cows are moved to calve. Calving in a stanchion or tie stall does not constitute a calving area. Calving in pens with far-off dry cows also does not constitute a usual calving area.

423

2. Did this operation use a calving area during 2013? Yes – Continue No – Go to Item 5

3. How many hours or days are cows in the usual calving area/pen:

	Hours		Days
a. Prior to calving? (Enter 0 if moved during calving; answer to nearest quarter hour if less than 1 hour.)	424	OR	425
b. After calving? (Enter 0 if removed immediately; answer to nearest quarter hour if less than 1 hour.)	426		

SECTION 3 - COLOSTRUM & PREWEANED CALF MANAGEMENT

4. During 2013, did any of the following cows enter the usual calving area/pen?

- 427
- a. Sick cows. Yes No
- 428
- b. Lamé cows. Yes No
- 429
- c. Johne's test-positive cows. Yes No Don't test

5. During 2013, what percent of newborn dairy heifer calves received colostrum by:

		Percent
a. Hand-feeding only (no suckling the cow)?		430 %
b. Both hand feeding and suckling the cow?	+	431 %
c. Suckling the cow only (not hand fed)?	+	432 %
TOTAL	=	100%

[If Item 5c = 100%, go to Item 10; otherwise continue]

6. For hand-fed calves, how did newborn dairy heifer calves normally get their first feeding of colostrum?

- 433
- Bottle
- Esophageal feeder
- Bucket

7. During 2013, did this operation use any of the following methods to estimate immunoglobulin (IgG) levels in, or quality of, colostrum?

- 434
- a. Colostrometer. Yes No
- 435
- b. Visual appearance. Yes No
- 436
- c. Brix refractometer (digital measuring device). Yes No
- 437
- d. Volume of first milking colostrum (pounds) Yes No
- 438
- e. Other (Specify: ¹⁰²¹ _____) Yes No

8. During 2013, how many hours following birth did the majority of newborn dairy heifer calves get their first feeding of colostrum?

Hours

439

9. How many quarts of first-milking colostrum was normally fed by hand to dairy heifer calves:

		Quarts
a. At the first feeding? (if allowed to nurse prior to hand feeding, enter 0).		442
b. In all subsequent feedings in the first 24 hours?	+	443
c. Total in the first 24 hours?	=	444

SECTION 3 - COLOSTRUM & PREWEANED CALF MANAGEMENT

10. During 2013, in general, how many minutes or hours following birth were heifer calves permanently separated from their dams?

Minutes	OR	Hours
440		441

11. During 2013, what percent of heifer calves on this operation consumed colostrum from the following sources? (If calves only suckled the dam, report in Item 11a)

		Percent
a. Individual cow colostrum (unpasteurized) (whether suckled or hand fed).		445 %
b. Individual cow colostrum (pasteurized).	+	446 %
c. Pooled (mixed from multiple cows) cow colostrum (unpasteurized).	+	447 %
d. Pooled cow colostrum (pasteurized).	+	448 %
e. Commercial colostrum replacer.	+	449 %
f. Other (Specify: ¹⁰²² _____)	+	450 %
TOTAL [will be greater than 100% if calves received more than one source of colostrum]	=	≥100%

12. During 2013, did this operation store excess colostrum?
451

Yes - Continue No - Go to Item 14

13. What was the primary method used to store colostrum? (Check one)
452

Stored without refrigeration
 Stored in a refrigerator
 Stored in a freezer
 Other (Specify: ¹⁰²³ _____)

14. During 2013, did this operation routinely monitor serum proteins as a measure of passive transfer status of newborn dairy heifer calves? 453

Yes No

15. During 2013, were dairy heifer calves routinely tested for BVD?
454

Yes – Continue No – Go to Item 17

16. Which of the following samples from dairy heifer calves were tested for BVD?

a. Individual ear notch.	455	<input type="checkbox"/> Yes	<input type="checkbox"/> No
b. Pooled ear notch.	456	<input type="checkbox"/> Yes	<input type="checkbox"/> No
c. Individual blood sample.	457	<input type="checkbox"/> Yes	<input type="checkbox"/> No
d. Pooled blood samples.	458	<input type="checkbox"/> Yes	<input type="checkbox"/> No
e. Other (Specify: ¹⁰²⁴ _____)	459	<input type="checkbox"/> Yes	<input type="checkbox"/> No

SECTION 3 - COLOSTRUM & PREWEANED CALF MANAGEMENT

17. During 2013, were any preweaned heifers housed or reared on this operation?

460

Yes – Continue No - Go to Section 4

18. During 2013, what percent of preweaned dairy heifer calves received the following liquid diets prior to weaning?

- a. Nonmedicated milk replacer.
- b. Medicated milk replacer.
- c. Unpasteurized saleable or non-saleable waste milk.
- d. Pasteurized saleable or non-saleable waste milk.
- e. Acidified saleable or non-saleable waste milk.
- f. Other (Specify: ¹⁰²⁵ _____)

Percent

461	%
462	%
463	%
464	%
465	%
466	%

+
+
+
+
+
+
=

TOTAL [will be greater than 100% if calves received more than one diet]

≥100%

[If Item 18a and 18b both equal zero, go to Item 22; otherwise continue]

19. What percent of protein and fat (e.g., 20% protein, 20% fat) was in the commercial milk replacer fed to the majority of dairy heifers in 2013?.....

Percent of Protein

Percent of Fat

467
%

AND

468
%

OR

Percent Total Solids

20. What was the percent of total solids in the combination of milk and milk replacer fed to the majority of calves in 2013?.....

469
. ____%

21. During 2013, what percent of preweaned dairy calves received the following medications in milk replacers?

- a. CTC (Chlortetracycline).
- b. OTC (Oxytetracycline).
- c. NT, Neo-Terramycin®, Neo-Oxy (Neomycin and Oxytetracycline).
- d. Deccox® (Decoquinatate).
- e. Bovatec® (Lasalocid).
- f. Rumensin® (Monensin).
- g. Other (Specify: ¹⁰²⁶ _____)

Percent

470	%
471	%
472	%
473	%
474	%
475	%
476	%

SECTION 3 - COLOSTRUM & PREWEANED CALF MANAGEMENT

22. During 2013, how many times per day was milk or milk replacer routinely fed to heifer calves? (Check one)

- 477
- 1 Once
 - 2 Twice
 - 3 Three times
 - 4 Free choice
 - 5 Other (Specify: ¹⁰²⁷ _____)

23. During 2013, how many quarts of milk or milk replacer were routinely fed to each calf at each feeding? (If free choice feeding, please provide an average amount consumed per calf per day in the group.)

Quarts

478

479

24. During 2013, did this operation modify the amount of milk or milk replacer fed depending on the age or size of calf?

- 1 Yes 3 No

25. What percent of calves were fed milk or milk replacer using the following equipment?

- a. Bottle.
- b. Bucket.
- c. Trough or mob feeder (e.g., milk bar).
- d. In-line milk feeding system (free choice).
- e. Other (Specify: ¹⁰²⁸ _____)

Percent

480	%	
+	481	%
+	907	%
+	482	%
+	483	%

TOTAL [will be greater than 100% if calves are fed with multiple methods.]

= **≥100%**

26. Which one of the following methods best describes how the milk feeding equipment was managed during 2013? (Check one)

484

- 1 Rinsed with water **after each feeding**
- 2 Rinsed with water once a day
- 3 Rinsed and disinfected **after each feeding**
- 4 Rinsed and disinfected once a day
- 5 Rinsed and disinfected less often than once a day
- 6 Rinsed and disinfected after the dairy heifers were weaned and moved
- 7 Other (Specify: ¹⁰²⁹ _____)

27. During 2013, what was the average age (in days) of dairy heifers when they were first offered:

Days

- a. Water?
- b. Starter grain or other concentrates?
- c. Hay or other roughages?

485
486
487

SECTION 3 - COLOSTRUM & PREWEANED CALF MANAGEMENT

28. What was the average age (in days or weeks) when dairy heifers were weaned during 2013?

Days
Weeks

488
OR
489

29. During 2013, which one of the following was the primary factor used to determine the time of weaning for dairy heifer calves? (Check one)

490

- 1 Consumed at least 2 pounds of starter for 3 consecutive days
- 2 Reached the target weaning age
- 3 Reached the target weaning weight
- 4 Needed the space for other preweaned calves
- 5 Other (Specify: ¹⁰³⁰ _____)

SECTION 4 - FEEDING & PREVENTIVE PRACTICES

1. During 2013, did this operation give **any** of the following types of feed to lactating or dry cows? If yes, was any of the feed purchased from an outside source?

Feed Type	Fed during 2013?	Purchased from an outside source?
a. Alfalfa hay/haylage.	491 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	515 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
b. Corn silage.	492 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	516 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
c. Other silages.	493 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	517 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
d. Clover as forage or pasture.	494 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	518 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
e. Cottonseed – whole, meal, or hulls.	495 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	519 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
f. Soybeans - whole, meal, or hulls	496 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	520 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
g. Bakery byproducts.	497 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	
h. Wet brewers/distillers grains.	498 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	
i. Dry brewers/distillers grains.	499 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	
j. Corn – whole, meal, cracked, flaked.	500 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	521 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
k. Barley.	501 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	522 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
l. Canola.	502 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	523 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No

SECTION 4 - FEEDING & PREVENTIVE PRACTICES

Feed Type	Fed during 2013?	Purchased from an outside source?
m. Wheat, excluding silage.	503 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	524 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
n. Oats, excluding silage.	504 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	525 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
o. Greenchop.	505 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	526 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
p. Straw.	506 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	527 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
q. Sorghum.	507 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	528 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
r. Beet pulp.	508 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	529 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
s. Feather/poultry meal.	509 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	
t. Fish meal.	510 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	
u. Fat/tallow.	511 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	
v. Porcine meat and bone meal.	512 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	
w. Blood meal.	513 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	
x. Other (Specify: ¹⁰³¹ _____)	514 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	

2. For purchased feeds, did this operation forward contract any feeds in 2013?

530

1 Yes 3 No 4 NA – didn't purchase any feed

3. During 2013, which of the following best describes the feed line used for the majority of **lactating** cows? (Check one)

531

- 1 Head locks/fence line stanchion
- 2 Tie stall
- 3 Stanchion
- 4 Post and rail
- 5 Elevated feed bunk in pen
- 6 Other (Specify: ¹⁰³² _____)

SECTION 4 - FEEDING & PREVENTIVE PRACTICES

4. Which of the following describes how the majority of lactating cows were fed during 2013? (Check one)

532

- 1 All lactating cows fed the same ration
- 2 Individual cows or groups of cows fed based on production/stage of lactation
- 3 Individual cows or groups of cows fed based on lactation number, such as first lactation cows fed separately
- 4 Other (Specify: ¹⁰³³ _____)

5. During 2013, who was primarily responsible for balancing rations fed to dairy cows? (Check one)

533

- 1 Employee (not a veterinarian)
- 2 Independent nutritionist
- 3 Feed company nutritionist
- 4 Veterinarian
- 5 Operator/owner
- 6 Other (Specify: ¹⁰³⁴ _____)

6. During 2013, did this operation use forage test results to balance feed rations?..... ⁵³⁴ 1 Yes 3 No

7. During 2013, did this operation feed a total mixed ration (TMR)?..... ⁵³⁵ 1 Yes 3 No

8. Did this operation use a feed management inventory program during 2013?

536

- 1 Yes – Continue
- 3 No – Go to Item 10

9. During 2013, which of the following feed management programs was primarily used on this operation? (Check one)

537

- 1 EZfeed®
- 2 Feed Supervisor®
- 3 Feed Watch®
- 4 TMR Tracker™
- 5 dg precision FEEDING™ System
- 6 Other (Specify: ¹⁰³⁵ _____)

SECTION 4 - FEEDING & PREVENTIVE PRACTICES

10. Which of the following best describes this operation's use of milk urea nitrogen (MUN) testing to determine ration composition during 2013?

538

- 1 Used routinely
- 2 Used only if there was a problem
- 3 Never used

11. During 2013, which of the following best describes how often leftover feed (weigh backs) from older cattle was fed back to younger heifers?

539

- 1 Daily or weekly
- 2 About once a month
- 3 Less than once a month
- 4 Never

12. During 2013, did any dairy cows ever drink from the following sources? If yes, how many times per year were the sources drained and cleaned?

- a. A cup/bowl waterer. 540 1 Yes 3 No
- b. A water tank or trough (covered or uncovered). 541 1 Yes 3 No
- c. A lake, pond, stream, river, etc.. 542 1 Yes 3 No
- d. Another source (Specify: ¹⁰³⁶ _____) 543 1 Yes 3 No

Times per Year	
544	
545	
546	

13. During 2013, what percent of dairy cattle received water from the following water sources?

- a. Ground water (well).
- b. Surface water (ponds, lakes, streams).
- c. Municipal water supply (treated water).

Percent	
547	%
+	548 %
+	549 %

TOTAL [will be greater than 100% if more than one water source] = **≥100%**

14. During 2013, did this operation perform any water quality testing (e.g., for bacteria, minerals, etc.) of cattle drinking water?

550

- 1 Yes - Continue
- 3 No - Go to Item 16

551

15. Did the results of the water testing lead to changes to improve water quality? 1 Yes 3 No

SECTION 4 - FEEDING & PREVENTIVE PRACTICES

16. Please list the **brand names** of all vaccines administered during 2013 by class of cattle. (See vaccine list provided and be as specific as possible)

Preweaned dairy heifers	Weaned dairy heifers	Pregnant dairy heifers	Dairy cows
Were preweaned dairy heifers on the operation during 2013? 552 <input type="checkbox"/> Yes <input type="checkbox"/> No (If No, go to next column)	Were weaned dairy heifers on the operation during 2013? 554 <input type="checkbox"/> Yes <input type="checkbox"/> No (If No, go to next column)	Were pregnant dairy heifers on the operation during 2013? 556 <input type="checkbox"/> Yes <input type="checkbox"/> No (If No, go to next column)	
Were vaccines administered? 553 <input type="checkbox"/> Yes <input type="checkbox"/> No (If No, go to next column)	Were vaccines administered? 555 <input type="checkbox"/> Yes <input type="checkbox"/> No (If No, go to next column)	Were vaccines administered? 557 <input type="checkbox"/> Yes <input type="checkbox"/> No (If No, go to next column)	Were vaccines administered? 558 <input type="checkbox"/> Yes <input type="checkbox"/> No (If No, go to next question)
1037	1044	1051	1058
1038	1045	1052	1059
1039	1046	1053	1060
1040	1047	1054	1061
1041	1048	1055	1062
1042	1049	1056	1063
1043	1050	1057	1064

559

17. During 2013, were any dairy cows vaccinated against rabies? Yes No

560

18. Are all dairy cows vaccinated against BVD annually? Yes No

SECTION 4 - FEEDING & PREVENTIVE PRACTICES

19. During 2013, did this operation normally use the following preventive (not treatment) practices for dairy heifers or dairy cows?

Preventive practice	Dairy Heifers	Dairy Cows (lactating & dry)
	Were dairy heifers on the operation during 2013? 561 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No (If No, go to next column)	
a. Dewormers	562 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	570 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
b. Rumensin [®] , Bovatec [®] in feed (Ionophores)	563 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	571 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
c. Vitamin A-D-E (injectable or feed additive)	564 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	572 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
d. Selenium (injectable or feed additive)	565 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	573 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
e. Probiotics	566 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	574 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
f. Anionic salts	567 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	575 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
g. Calcium (injectable, drench, or bolus)		576 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
h. Propylene glycol (drench or in TMR)		577 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No

SECTION 5 - HOUSING

1. What was the primary housing type used during 2013 for each of the following types of cattle while on this operation?

Housing type codes	
1 = Individual outside hutch/pen	7 = Freestall with access to open/dry lot
2 = Individual inside hutch/pen – warm (heated) calf barn	8 = Open/dry lot/multiple animal outside area without barn or shed (with or without shade structures)
3 = Individual inside hutch/pen – cold (nonheated) calf barn	9 = Open/dry lot with open shed/loafing shed
4 = Tie stall or stanchion	10 = Multiple animal inside area/barn
5 = Pasture	11 = Not housed on this operation
6 = Freestall with no access to open/dry lot	

	Code
a. Preweaned dairy heifers.	578
b. Weaned dairy heifers.	579
c. Pregnant dairy heifers.	580
d. Lactating cows.	581
e. Dry cows.	582

[If Item 1a = 1, continue; otherwise go to Item 3]

2. During 2013, were preweaned heifers provided extra bedding and/or a wind break during the winter? 583
 1 Yes 3 No

3. During 2013, was maternity housing separate from housing used for lactating dairy cows? . . . 584
 1 Yes 3 No

4. During 2013, were close-up cows housed separately from other dry cows? 585
 1 Yes 3 No

5. During 2013, what was the primary milking facility used on this operation? (Check one)

- 586
 1 Parlor
 2 Tie stall or stanchion barn
 3 Other (Specify: ¹⁰⁶⁶ _____)

[If Item 5 = 1 (Parlor), continue; otherwise go to Item 7]

SECTION 5 - HOUSING

6. Which of the following best describes the primary milking parlor on this operation? (Check one)

587

- 1 Side opening (tandem)
- 2 Herringbone (fishbone)
- 3 Parallel (side by side)
- 4 Parabone (herringbone/parallel hybrid)
- 5 Swing
- 6 Rotary (carousel)
- 7 Flat barn
- 8 Other (Specify: ¹⁰⁶⁷ _____)

7. During 2013, were the following classes of cattle allowed on pasture owned or operated by this operation?

588

a. Weaned dairy heifers 1 Yes 3 No 2 No weaned heifers on operation in 2013

589

b. Pregnant dairy heifers 1 Yes 3 No 2 No pregnant heifers on operation in 2013

590

c. Lactating cows 1 Yes 3 No

591

d. Dry cows 1 Yes 3 No 2 No dry cows on operation in 2013

For the next two questions, "outside area" refers to areas without permanent roof structures but can have permanent shade structure

8. Which of the following best describes the primary **outside** area that **lactating** cows routinely had access to during the summer and winter in 2013? (Enter only one code for each season.)

Outside area codes (Items 8 & 9)	
1 = Pasture	4 = No outside access
2 = Concrete alleyway or pen	5 = Other (Specify: ¹⁰⁶⁸ _____)
3 = Open/Dry lot or barnyard	6 = No dry cows on operation in 2013

Code

a. Summer.....

592
593

b. Winter.....

9. Which of the codes above best describes the primary **outside** area that **dry** cows routinely had access to during the summer and winter in 2013? (Enter one code only for each season.)

Code

a. Summer.....

594
595

b. Winter.....

SECTION 5 - HOUSING

10. Which of the following is the predominant flooring type that lactating cows stand or walk on when not being milked, excluding concrete adjacent to the feed bunk? (Do not report base or bed material for freestalls or tie stalls. Check one)

596

- 1 Concrete – grooved/textured
- 2 Concrete – slatted
- 3 Concrete - smooth
- 4 Rubber mats over concrete
- 5 Pasture
- 6 Dirt
- 7 Other (Specify: ¹⁰⁶⁹ _____)

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

- a. Adjacent to feed bunk. 597 1 Yes 3 No
- b. Freestall alleyways. 598 1 Yes 3 No
- c. Walkway to parlor. 599 1 Yes 3 No
- d. Holding pen. 600 1 Yes 3 No
- e. Other (Specify: ¹⁰⁷⁰ _____) 601 1 Yes 3 No

12. Which of the following best describes the surface moisture of the ground or flooring that lactating cows stood on most of the time in the summer and winter in 2013?

Surface moisture codes	
1 = Usually dry	3 = Almost always wet, but no standing water
2 = Wet about half the time	4 = Usually standing water or slurry

- a. Summer.
- b. Winter.

Code
602
603

SECTION 5 - HOUSING

13. Were the following cow cooling methods provided to **lactating** or **dry** cows during the summer of 2013?

Cow cooling methods	Lactating cows	Dry cows
		Were dry cows on the operation during 2013? 908 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No (If No, go to next question)
a. Covered structure/building (e.g., barn, shed)	604 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	610 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
b. Shade (other than covered structure/building)	605 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	611 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
c. Sprinklers or misters	606 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	612 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
d. Fans	607 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	613 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
e. Tunnel ventilation	608 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	614 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
f. Other (Specify: Lactating ¹⁰⁷¹ _____ Dry ¹⁰⁷² _____)	609 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	615 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No

14. Were the following bedding types used for **lactating** or **dry** cows during 2013?

Bedding types	Lactating cows	What was the primary bedding for Lactating cows during 2013? (Check one)	Dry cows [Were dry cows on the operation during 2013?] 640 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No (If No, go to next question)	What was the primary bedding for Dry cows during 2013? (Check one)
	a. Straw and/or hay	616 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	628 1 <input type="checkbox"/>	641 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
b. Sand	617 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	629 1 <input type="checkbox"/>	642 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	654 1 <input type="checkbox"/>
c. Sawdust/wood products	618 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	630 1 <input type="checkbox"/>	643 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	655 1 <input type="checkbox"/>
d. Composted manure	619 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	631 1 <input type="checkbox"/>	644 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	656 1 <input type="checkbox"/>
e. Dried manure	620 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	632 1 <input type="checkbox"/>	645 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	657 1 <input type="checkbox"/>
f. Rubber mats	621 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	633 1 <input type="checkbox"/>	646 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	658 1 <input type="checkbox"/>
g. Shredded newspaper	622 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	634 1 <input type="checkbox"/>	647 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	659 1 <input type="checkbox"/>
h. Mattresses	623 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	635 1 <input type="checkbox"/>	648 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	660 1 <input type="checkbox"/>
i. Corn cobs and stalks	624 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	636 1 <input type="checkbox"/>	649 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	661 1 <input type="checkbox"/>
j. Waterbeds	625 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	637 1 <input type="checkbox"/>	650 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	662 1 <input type="checkbox"/>
k. None – housed only on dirt/pasture	626 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	638 1 <input type="checkbox"/>	651 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	663 1 <input type="checkbox"/>
l. Other (Specify Lactating: ¹⁰⁷³ _____ Dry: ¹⁰⁷⁴ _____)	627 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	639 1 <input type="checkbox"/>	652 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	664 1 <input type="checkbox"/>

SECTION 6 - ADVERSE DRUG REACTIONS

1. During 2013, did any dairy cows experience an adverse drug reaction (including reactions such as hives, collapsing, abortion, lumps or swelling in the injection area, etc.) to any injection of a(n):

- a. Vaccine? 665 1 Yes 3 No
- b. Antibiotic? 666 1 Yes 3 No
- c. Vitamin? 667 1 Yes 3 No
- d. Other? (Specify: ¹⁰⁷⁵ _____) 668 1 Yes 3 No

[If any part of Item 1 = Yes, continue; otherwise go to Section 7]

2. Of the cows that experienced adverse reactions in Item 1, did any display the following clinical signs?

- a. Collapse. 669 1 Yes 3 No
- b. Hives. 670 1 Yes 3 No
- c. Abortion. 671 1 Yes 3 No
- d. Lump or swelling in the location of injection. 672 1 Yes 3 No
- e. Decrease in milk production. 673 1 Yes 3 No
- f. Product didn't work as expected (lack of efficacy). 674 1 Yes 3 No
- g. Fever. 675 1 Yes 3 No
- h. Lethargy. 676 1 Yes 3 No
- i. Respiratory distress. 677 1 Yes 3 No
- j. Infertility. 678 1 Yes 3 No
- k. Other (Specify: ¹⁰⁷⁶ _____) 679 1 Yes 3 No

3. Did this operation report any of the adverse reactions to:

- a. A veterinarian? 680 1 Yes 3 No
- b. The drug manufacturer? 681 1 Yes 3 No
- c. USDA's Center for Veterinary Biologics? 682 1 Yes 3 No
- d. FDA's Center for Veterinary Medicine? 683 1 Yes 3 No
- e. Other? (Specify: ¹⁰⁷⁷ _____) 684 1 Yes 3 No

4. Were any of the cows with adverse reactions examined by a veterinarian? 685 1 Yes 3 No

SECTION 7 - USE OF VETERINARIANS

1. During 2013, did this operation work with or consult a veterinarian?

686

- 1 Yes – Go to Item 3 3 No – Continue

2. Which of the following is the primary reason for not using a veterinarian?

687

- 1 Veterinarian was available but not knowledgeable about dairy cattle
 2 Veterinarian was not available in the local area
 3 Too expensive
 4 Not needed on this operation
 5 Other? (Specify: ¹⁰⁷⁸ _____)

[Go to Item 6]

3. During 2013, how often was the veterinarian on this operation?

688

- 1 Daily
 2 Weekly
 3 Monthly
 4 Less than monthly

4. How would you rate this operation’s veterinarian in the following areas?

Veterinarian	Poor	Adequate	Good	Very Good	Excellent
a. Availability	689 1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
b. Knowledge of dairy cattle	690 1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>
c. Performing procedures/tasks	691 1 <input type="checkbox"/>	2 <input type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>

5. Did this operation’s veterinarian provide services and/or design protocols for the following during 2013?

Services and/or Protocols	Provided Services?	Which are the three most important services that this operation’s veterinarian provided to this operation?	Designed Protocols?
a. Nutrition (ration balancing, bunk management, etc.)	692 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	715 1 <input type="checkbox"/>	738 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
b. Management of cows at calving	693 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	716 1 <input type="checkbox"/>	739 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
c. Newborn calf care and colostrum management	694 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	717 1 <input type="checkbox"/>	740 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
d. Reproductive management (breeding protocols, pregnancy exams)	695 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	718 1 <input type="checkbox"/>	741 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
e. Lameness management (hoof trimming, lameness evaluation)	696 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	719 1 <input type="checkbox"/>	742 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
f. Transition cow management (blood testing)	697 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	720 1 <input type="checkbox"/>	743 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No

SECTION 7 – USE OF VETERINARIANS

Services and/or Protocols	Provided Services?	Which are the three most important services that this operation's veterinarian provided to this operation?	Designed Protocols?
g. Biosecurity for new herd additions (testing, vaccination, etc.)	698 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	721 1 <input type="checkbox"/>	744 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
h. Disease monitoring	699 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	722 1 <input type="checkbox"/>	745 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
i. Disease diagnosis and/or treatment (Sick cow examinations)	700 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	723 1 <input type="checkbox"/>	746 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
j. Perform routine LDA surgeries	701 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No 4 <input type="checkbox"/> No DA's	724 1 <input type="checkbox"/>	
k. Drug sales	702 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	725 1 <input type="checkbox"/>	
l. Milking management (milking procedures, mastitis detection, equipment testing)	703 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	726 1 <input type="checkbox"/>	747 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
m. Animal handling and welfare (pain management, euthanasia, handling nonambulatory cattle, lameness)	704 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	727 1 <input type="checkbox"/>	748 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
n. Facility design (stalls, flooring, ventilation, lighting, heat abatement, cooling, pens)	705 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	728 1 <input type="checkbox"/>	
o. Milk and meat drug residue avoidance (managing withdrawal times, testing)	706 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	729 1 <input type="checkbox"/>	749 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
p. Employee training	707 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	730 1 <input type="checkbox"/>	750 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
q. Dehorning	708 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	731 1 <input type="checkbox"/>	751 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
r. Vaccinations	709 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	732 1 <input type="checkbox"/>	752 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
s. Necropsy of cattle	710 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	733 1 <input type="checkbox"/>	753 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
t. Emergency services (e.g. calving difficulty)	711 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	734 1 <input type="checkbox"/>	754 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
u. Records evaluation and consultation	712 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	735 1 <input type="checkbox"/>	755 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
v. Input on culling decisions	713 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	736 1 <input type="checkbox"/>	756 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No
w. Other (Specify: ¹⁰⁷⁹ _____)	714 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	737 1 <input type="checkbox"/>	757 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No

SECTION 7 – USE OF VETERINARIANS

6. Where did this operation purchase the majority of this **prescription** and **nonprescription** (over the counter) veterinary drugs used during 2013?

Veterinary drug source codes	
1 = Directly from this operation's regular herd veterinarian	5 = Directly from a farm/ranch or feed store
2 = Drugs were mailed/delivered from a drug distributor, as directed by this operation's herd veterinarian	6 = Other (Specify: ¹⁰⁸⁰ _____)
3 = Drugs were mailed/delivered from a drug distributor, as directed by a veterinarian who was not this operation's regular herd veterinarian	7 = Not applicable – no veterinary drugs purchased
4 = Drugs were mailed/delivered from a drug distributor without a veterinarian's involvement	

	Code
a. Prescription veterinary drugs.	758
b. Nonprescription (over the counter) veterinary drugs.	759

SECTION 8 - MANAGEMENT OF NONAMBULATORY CATTLE & EUTHANASIA

Nonambulatory cattle are those that were down (unable to stand) for a period of at least 24 hours. Nonambulatory cattle are frequently referred to as 'downers'.

1. Did this operation have written guidelines or procedures for handling nonambulatory (downer) cattle during 2013?

760

Yes No

	Head
2. How many dairy cows on this operation became nonambulatory (downer) during 2013?	761

[If Item 2 = Zero, go to Item 7; otherwise continue]

3. How many hours after becoming nonambulatory (downer) were cows normally offered or provided the following?

	Not Offered	Hours
a. Food.	762 <input type="checkbox"/>	765
b. Water.	763 <input type="checkbox"/>	766
c. Shelter.	764 <input type="checkbox"/>	767

768

4. During 2013, was assistance ever given to nonambulatory (downer) cows to help them rise (such as through a hoist or flotation tank)?

Yes No

SECTION 8 - MANAGEMENT OF NONAMBULATORY CATTLE & EUTHANASIA

5. Of the (Item 2) cows that became non-ambulatory (downer) during 2013, what percent:

	Percent
a. Recovered?.....	769 %
b. Were euthanized?.....	+ 770 %
c. Were slaughtered for home consumption?.....	+ 771 %
d. Died?.....	+ 772 %
e. Other? (Specify: ¹⁰⁸¹ _____)	+ 773 %
TOTAL	= 100%

[If Item 5b is greater than Zero, continue; otherwise go to Item 7]

6. On average, how many hours or days after being recognized as nonambulatory (downer) were the cows euthanized?.....

<table border="1" style="display: inline-table; width: 150px; height: 30px;"> <tr> <td style="text-align: center;">Hours</td> </tr> <tr> <td style="text-align: center;">774</td> </tr> </table>	Hours	774	OR	<table border="1" style="display: inline-table; width: 150px; height: 30px;"> <tr> <td style="text-align: center;">Days</td> </tr> <tr> <td style="text-align: center;">775</td> </tr> </table>	Days	775
Hours						
774						
Days						
775						
776						

7. Were any cows or heifers euthanized on this operation during 2013? Yes – Continue No – Go to Section 9

8. Which of the following personnel were responsible for performing euthanasia in 2013? (Check all that apply)

Personnel	Performed Euthanasia
a. Owner	777 <input type="checkbox"/> Yes <input type="checkbox"/> No
b. Manager or herdsman	778 <input type="checkbox"/> Yes <input type="checkbox"/> No
c. Other employees	779 <input type="checkbox"/> Yes <input type="checkbox"/> No
d. Veterinarian	780 <input type="checkbox"/> Yes <input type="checkbox"/> No
e. Rendering company	781 <input type="checkbox"/> Yes <input type="checkbox"/> No
f. University or extension agents	782 <input type="checkbox"/> Yes <input type="checkbox"/> No
g. Other (Specify ¹⁰⁸² _____)	783 <input type="checkbox"/> Yes <input type="checkbox"/> No

9. What was the primary method of euthanasia for preweaned heifers, weaned heifers, and cows in 2013?

Method of euthanasia code	
1 = Gunshot	4 = Other (Specify: ¹⁰⁸⁴ _____)
2 = Captive bolt	5 = Not applicable – this class of cattle not euthanized
3 = Lethal injection (such as barbiturates) (Specify drug: ¹⁰⁸³ _____)	6 = Not housed on this operation

Preweaned Heifers (Code)	Weaned Heifers (Code)	Cows (Code)			
<table border="1" style="width: 150px; height: 30px;"> <tr> <td style="text-align: center;">784</td> </tr> </table>	784	<table border="1" style="width: 150px; height: 30px;"> <tr> <td style="text-align: center;">786</td> </tr> </table>	786	<table border="1" style="width: 150px; height: 30px;"> <tr> <td style="text-align: center;">787</td> </tr> </table>	787
784					
786					
787					

10. Did this operation have written guidelines or procedures for euthanizing cattle during 2013? ⁷⁸⁸ Yes No

SECTION 9 - NUTRIENT MANAGEMENT

1. Were the following manure-handling methods used in cow and weaned heifer housing areas in 2013?

Methods	Cow Areas	What was the primary method for Cow areas in 2013? (Check one)	Weaned Heifer Areas Were weaned heifers kept on the operation during 2013? ⁸⁰⁸ 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No (If No, go to next question)	What was the primary method for Weaned Heifer areas in 2013? (Check one)
a. Manure left on pasture	790 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	799 1 <input type="checkbox"/>	809 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	818 1 <input type="checkbox"/>
b. Open/dry lot scraped	791 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	800 1 <input type="checkbox"/>	810 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	819 1 <input type="checkbox"/>
c. Gutter cleaner	792 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	801 1 <input type="checkbox"/>	811 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	820 1 <input type="checkbox"/>
d. Alley scraper (mechanical or tractor)	793 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	802 1 <input type="checkbox"/>	812 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	821 1 <input type="checkbox"/>
e. Alley flush with recycled water	794 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	803 1 <input type="checkbox"/>	813 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	822 1 <input type="checkbox"/>
f. Slotted floor	795 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	804 1 <input type="checkbox"/>	814 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	823 1 <input type="checkbox"/>
g. Bedded pack (manure pack)	796 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	805 1 <input type="checkbox"/>	815 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	824 1 <input type="checkbox"/>
h. Manure vacuum	797 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	806 1 <input type="checkbox"/>	816 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	825 1 <input type="checkbox"/>
i. Other (Specify: ¹⁰⁸⁵ _____)	798 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	807 1 <input type="checkbox"/>	817 1 <input type="checkbox"/> Yes 3 <input type="checkbox"/> No	826 1 <input type="checkbox"/>

SECTION 9 - NUTRIENT MANAGEMENT

2. During 2013, were the following manure-storage or treatment systems used on this operation?

- | | | | |
|---|-----|--------------------------------|-------------------------------|
| a. Manure spreader (spread on a daily or almost daily basis) | 827 | 1 <input type="checkbox"/> Yes | 3 <input type="checkbox"/> No |
| b. Below-floor slurry or deep pit. | 828 | 1 <input type="checkbox"/> Yes | 3 <input type="checkbox"/> No |
| c. Slurry stored in tank (either above or below ground). | 829 | 1 <input type="checkbox"/> Yes | 3 <input type="checkbox"/> No |
| d. Slurry or liquid manure stored in earthen basin and NOT treated. | 830 | 1 <input type="checkbox"/> Yes | 3 <input type="checkbox"/> No |
| e. Treatment lagoon – not mechanically aerated. | 831 | 1 <input type="checkbox"/> Yes | 3 <input type="checkbox"/> No |
| f. Treatment lagoon – mechanically aerated. | 832 | 1 <input type="checkbox"/> Yes | 3 <input type="checkbox"/> No |
| g. Manure pack (inside barn). | 833 | 1 <input type="checkbox"/> Yes | 3 <input type="checkbox"/> No |
| h. Outside storage for solid manure not in dry lot or pen. | 834 | 1 <input type="checkbox"/> Yes | 3 <input type="checkbox"/> No |
| i. Outside storage for solid manure within dry lot or pen. | 835 | 1 <input type="checkbox"/> Yes | 3 <input type="checkbox"/> No |
| j. Stored solid manure in a building without cattle access. | 836 | 1 <input type="checkbox"/> Yes | 3 <input type="checkbox"/> No |
| k. Stored solid manure with picket dam. | 837 | 1 <input type="checkbox"/> Yes | 3 <input type="checkbox"/> No |
| l. Composted (actively managed to produce a composted material). | 838 | 1 <input type="checkbox"/> Yes | 3 <input type="checkbox"/> No |
| m. Collected methane/biogas. | 839 | 1 <input type="checkbox"/> Yes | 3 <input type="checkbox"/> No |
| n. Solid separator. | 840 | 1 <input type="checkbox"/> Yes | 3 <input type="checkbox"/> No |
| o. Other (Specify ¹⁰⁸⁶ _____) | 841 | 1 <input type="checkbox"/> Yes | 3 <input type="checkbox"/> No |

3. Of the storage and treatment systems in Item 2, which one **best** describes the storage and treatment for the **majority** of: (Enter the row letter from Item 2 for each type of manure below or **enter 99** if that type of manure is not stored or treated.)

- | | |
|---------------------------------------|-------------------|
| | Row Letter |
| a. Solid manure? | 842 |
| b. Liquid or slurry manure? | 843 |

4. Assuming this operation's facility was completely emptied of manure and was operating at full capacity, how many days or months could this operation operate and store manure before manure must be removed from the storage facility?

Days		Months
844	OR	845

SECTION 9 - NUTRIENT MANAGEMENT

5. During 2013, did this operation make use of manure by:

- a. Applying it to land either owned or rented? 846 1 Yes 3 No
- b. Selling it or receiving other compensation? 847 1 Yes 3 No
- c. Giving it away? 848 1 Yes 3 No
- d. Using composted manure for bedding? 849 1 Yes 3 No
- e. Other? (Specify ¹⁰⁸⁷ _____) 850 1 Yes 3 No

6. Of the manure uses described in Item 5, which one **best** describes the use of the **majority** of: (Enter **99** if that type of manure is not used.)

- a. Solid manure?
- b. Liquid or slurry manure?

Row Letter
851
852

[If Item 5a = NO, go to Item 14; otherwise continue]

7. Which of the following methods were used to apply manure/slurry to land owned or rented by this operation in 2013?

- a. Broadcast/solid spreader. 853 1 Yes 3 No
- b. Surface application by tank wagon or tank truck. 854 1 Yes 3 No
- c. Subsurface injection by tank wagon, tank truck, or tractor. 855 1 Yes 3 No
- d. Irrigation/sprinkler 856 1 Yes 3 No
- e. Other (Specify ¹⁰⁸⁸ _____) 857 1 Yes 3 No

8. During 2013, how often was manure/slurry incorporated into the soil within 24 hours after application? (Check one)

- 858
- 1 Always or almost always
 - 2 Sometimes
 - 3 Never

9. During 2013, was the nutrient content of manure ever analyzed for:

- a. Nitrogen? 859 1 Yes 3 No
- b. Phosphorus? 860 1 Yes 3 No
- c. Potassium? 861 1 Yes 3 No

SECTION 9 - NUTRIENT MANAGEMENT

10. During 2013, were the following used to determine how much or how often manure was applied to the land?

- | | | | |
|---|-----|--------------------------------|-------------------------------|
| | 862 | | |
| a. Crop nitrogen requirement. | | 1 <input type="checkbox"/> Yes | 3 <input type="checkbox"/> No |
| | 863 | | |
| b. Crop phosphorus requirement. | | 1 <input type="checkbox"/> Yes | 3 <input type="checkbox"/> No |
| | 864 | | |
| c. Manure volume/acreage available. | | 1 <input type="checkbox"/> Yes | 3 <input type="checkbox"/> No |
| | 865 | | |
| d. Soil quality improvement. | | 1 <input type="checkbox"/> Yes | 3 <input type="checkbox"/> No |
| | 866 | | |
| e. Other criteria (Specify ¹⁰⁸⁹ _____) | | 1 <input type="checkbox"/> Yes | 3 <input type="checkbox"/> No |

11. During 2013, what was the minimum distance between areas that manure was applied and any surface water such as a lake, pond, stream, or river?

	Feet		OR		Miles
	867			868	

12. Which of the following best describes how often **liquid** and **solid** manure was applied to owned or rented land in 2013, by season.

Manure application codes		
1 = Daily	3 = 2 to 3 times a month	5 = Not spread during this season
2 = Weekly	4 = Monthly or less often	6 = Manure type not present on this operation

Season	Liquid manure (code)	Solid manure (code)
Spring	869	873
Summer	870	874
Fall	871	875
Winter	872	876

13. Was manure applied to the following **actively growing plants** during 2013?

- | | | | |
|--|-----|--------------------------------|-------------------------------|
| | 877 | | |
| a. Pasture or hay crop. | | 1 <input type="checkbox"/> Yes | 3 <input type="checkbox"/> No |
| | 878 | | |
| b. Forage to be ensiled. | | 1 <input type="checkbox"/> Yes | 3 <input type="checkbox"/> No |
| | 879 | | |
| c. Other forage crops. | | 1 <input type="checkbox"/> Yes | 3 <input type="checkbox"/> No |
| | 880 | | |
| d. Grain or oilseed crops. | | 1 <input type="checkbox"/> Yes | 3 <input type="checkbox"/> No |
| | 881 | | |
| e. Other crops (Specify ¹⁰⁹⁰ _____) | | 1 <input type="checkbox"/> Yes | 3 <input type="checkbox"/> No |

SECTION 9 - NUTRIENT MANAGEMENT

14. Does this operation have a **written** plan that addresses nutrient management, such as land treatment practices or manure storage structures?

905

1 Yes – Continue 3 No – Go to Item 16

15. Was the written plan:

- a. Developed in cooperation with the USDA Natural Resource Conservation Service (NRCS) or a local conservation district? 882
1 Yes 3 No
- b. Implemented to help satisfy a State or local regulatory requirement? 883
1 Yes 3 No
- c. Part of USDA voluntary cost share program? 884
1 Yes 3 No

16. Did this operation consult with any of the following resources about nutrient management during 2013?

- a. University/extension personnel. 885
1 Yes 3 No
- b. Private nutrient management consultant. 886
1 Yes 3 No
- c. Natural Resource Conservation Service personnel (NRCS). 887
1 Yes 3 No
- d. State or local department of natural resources personnel. 888
1 Yes 3 No
- e. State or local department of agriculture personnel. 889
1 Yes 3 No
- f. Agronomist/crop consultant. 890
1 Yes 3 No
- g. Consulting nutritionist. 891
1 Yes 3 No
- h. Environmental engineering consultant. 892
1 Yes 3 No
- i. Private veterinary practitioner. 893
1 Yes 3 No
- j. Other (Specify ¹⁰⁹¹ _____) 894
1 Yes 3 No

17. Which of the following best describes how you would classify this operation regarding Concentrated Animal Feeding Operations (CAFOs) under current Federal EPA guidelines? (Check one)

895

- 1 Never heard of CAFO
- 2 Heard of CAFO but this operation is not a CAFO
- 3 Heard of CAFO and this operation is a CAFO

