



Animal and
Plant Health
Inspection
Service

Veterinary
Services

Beef 2017 VS Visit (January 22–April 6, 2018)



National Animal Health
Monitoring System

2150 Centre Ave Bldg B
Fort Collins, CO 80526

Form Approved
OMB Number 0579-0326
Expires Sept 2020

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

Arrival time at operation: _____

Be sure the Producer understands that in this questionnaire, the term “you” refers to how “this operation” conducts the management practices of the beef operation.

Indicate to the Producer that these questions (except where noted) refer to the cow-calf operation and do not include any dairy, stocker, or feedlot enterprise that is or might be part of this operation.

Section A—Inventory and Sales Practices

1. a. How many **beef cows**, including heifers that have calved, were on hand on January 1, 2018? v100 _____ head
- b. Of these, how many were:
 - (i) Less than 5 years old? v101 _____ head
 - (ii) 5 to 9 years old? v102 _____ head
 - (iii) 10 years or older? v103 _____ head
 - (iv) Add questions 1b(i), 1b(ii), and 1b(iii). **[Total should equal question 1a.]** v104 = _____ head

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 0579-0326. The time required to complete this information collection is estimated to average 1.0 hour per response, including the time to review instructions, search existing data resources, gather the data needed, and complete and review the information collected.

**NAHMS-401
Sept 2020**

State/Operation #: _____

2. During 2017, how many beef calves were born:

a. Alive?..... v105 _____ head

b. Dead?..... v106 _____ head

3. During 2017, did this operation **sell** any beef cattle or weaned calves?.....v107 ☐₁ Yes ☐₃ No

[If question 3 = No, SKIP to section B.]

Code List A1—Method-of-sale codes, question 4		
1 – Auction	4 – Consignment	7 – Other (specify: _____)
2 – Direct – video/Internet auction	5 – Forward contract	
3 – Direct – private treaty	6 – Carcass basis	v108oth

4. Now I'd like to ask about beef cattle and weaned calves **sold** during 2017.

I'll need the number of head sold and the **primary** method of sale. *[Use code from List A1 above.]*

During 2017, how many:

	No. head	Sale code
a. Steers, weaned or older, were sold?	v108	v116
b. Heifers, weaned or older, were sold for breeding stock?	v109	v117
c. Other heifers, weaned or older, were sold for purposes other than breeding (e.g., for backgrounding, feeding, or slaughter)?	v110	v118
d. Cows were sold for breeding stock?	v111	v119
e. Other cows were sold for purposes other than breeding (culls, whether for feeding or slaughter)?	v112	v120
f. Bulls, weaned and under 2 years old, were sold for breeding stock?	v113	v121
g. Other bulls, weaned and under 2 years old, were sold for purposes other than breeding (e.g., for backgrounding, feeding, or slaughter)?	v114	v122
h. Breeding bulls, 2 years or older, were sold (culls, whether for breeding at another operation, feeding or slaughter)?	v115	v123

5. During 2017, did this operation **sell** any weaned calves for purposes other than breeding? *[We are interested in weaned calves destined for feedlot, backgrounder, or stocker operations.]*.....v124

☐₁ Yes ☐₃ No

[If question 5 = No, SKIP to question 13.]

6. For weaned calves sold during 2017 for purposes other than breeding, how many days after weaning, on average, were the calves held before they left the operation? *[If calves leave the operation on the day they are weaned, enter 0 for number of days]*..... v125

_____ days

7. For weaned calves sold during 2017 for purposes other than breeding, how many days, on average, were the calves fed in a feed bunk before they left the operation?

a. Before weaning (creep feeding)..... v126

_____ days

b. After weaning v127

_____ days

8. For weaned calves sold during 2017 for purposes other than breeding, were calves treated for internal or external parasites before they left the operation?
- a. Internal parasites (worms).....v128 ☐₁ Yes ☐₃ No
- b. External parasites (flies, lice, ticks, grubs).....v129 ☐₁ Yes ☐₃ No
9. For weaned calves sold during 2017 for purposes other than breeding, were calves dehorned before they left the operation? *[If calves are all polled, enter NA.]*.....v130 ☐₁ Yes ☐₂ NA ☐₃ No

[If question 9 = No, SKIP to question 11.]

10. For calves that were dehorned before they left the operation, how many days after dehorning, on average, were the calves held before they left the operation? v131 _____ days
11. For weaned calves sold during 2017 for purposes other than breeding, were calves castrated before they left the operation?.....v132 ☐₁ Yes ☐₃ No

[If question 11 = No, SKIP to question 13.]

12. For calves that were castrated before they left the operation, how many days after castration, on average, were the calves held before they left the operation? v133 _____ days

13. *[Refer to question 4e above—cows sold for purposes other than breeding (culls).]*

[If question 4e = zero, SKIP to section B.]

What was the average weight of cows sold for purposes other than breeding (culls) during 2017?..... v134 _____ lb

14. Of the (question 4e) cows sold for purposes other than breeding (culls), how many were sold **primarily** because of:
- a. Pregnancy status (open or aborted)? v135 _____ head
- b. Other reproductive problems (other than open or aborted)? v136 _____ head
- c. Producing poor calves?..... v137 _____ head
- d. Age or bad teeth?..... v138 _____ head
- e. Physical unsoundness (e.g., injury or lameness)?..... v139 _____ head
- f. Bad eyes? v140 _____ head
- g. Digestive problem? v141 _____ head
- h. Respiratory problem? v142 _____ head
- i. Udder problem? v143 _____ head
- j. Temperament? v144 _____ head
- k. Economics, such as drought, herd reduction, or market conditions? v145 _____ head
- l. Some other factor? (specify: _____) v146oth v146 _____ head
- m. Add numbers by cause. **[Total should equal number of head in question 4e.]** v147 = _____ head

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15. How many of the (question 4e) cows sold for purposes other than breeding (culls) were:

- a. Less than 5 years old? v148 _____ head
- b. 5 to 9 years old? v149 _____ head
- c. 10 years or older? v150 _____ head
- d. Add numbers by age. [**Total** should equal number of head in question 4e.] .. v151 = _____ head

Section B—Vaccination and Testing Practices

Vaccination Practices

1. a. During 2017, did you vaccinate **any** beef cattle or calves?v200 ☐₁ Yes ☐₃ No

[If question 1a = No, SKIP to question 7.]

- b. For the vaccines administered to cattle during 2017, enter X in the cell(s) for the cattle class(es) that received the vaccine; leave all other cells blank.

	Calves 1 to 21 days	Calves 22 days through weaning	Weaned replacement heifers through breeding	Bred replacement heifers through calving	Cows	Bulls
GENERAL (resp and/or repro)						
a. IBR (rednose, infectious bovine rhinotracheitis)	v201	v218	v237	v257	v277	v297
b. BVD (bovine viral diarrhea)	v202	v219	v238	v258	v278	v298
c. <i>Histophilus somni</i> (formerly <i>Haemophilus somnus</i>)	v203	v220	v239	v259	v279	v299
RESPIRATORY						
d. PI3 (parainfluenza virus)	v204	v221	v240	v260	v280	v300
e. BRSV (bovine respiratory syncytial virus)	v205	v222	v241	v261	v281	v301
f. <i>Pasteurella/Mannheimia</i>	v206	v223	v242	v262	v282	v302
REPRODUCTIVE						
g. <i>Brucella abortus</i>		v224	v243	v263	v283	
h. <i>Leptospira</i>		v225	v244	v264	v284	v303
i. <i>Campylobacter</i> (vibrio)			v245	v265	v285	v304
j. <i>Trichostrongylus</i> (Trich)			v246	v266	v286	v305
CLOSTRIDIAL						
k. <i>Clostridium chauvoei</i> (blackleg) and/or <i>Cl. septicum</i> (malignant edema) and/or <i>Cl. novyi</i> and/or <i>Cl. sordellii</i> (2- or 4-way)	v207	v226	v247	v267	v287	v306
l. <i>Cl. perfringens</i> C and D (enterotoxemia, overeating)	v208	v227	v248	v268	v288	v307
m. <i>Cl. tetani</i> (tetanus)	v209	v228	v249	v269	v289	v308
DIGESTIVE						
n. Rota/corona	v210	v229	v250	v270	v290	
o. <i>E. coli</i>	v211	v230	v251	v271	v291	
p. <i>Salmonella</i>	v212	v231	v252	v272	v292	v309
OTHER						
q. Anthrax	v213	v232	v253	v273	v293	v310
r. Johne's	v214	v233				
s. <i>Moraxella bovis</i> (pink eye)	v215	v234	v254	v274	v294	v311
t. Wart virus	v216	v235	v255	v275	v295	v312
u. Other vaccine (specify: _____) v217oth	v217	v236	v256	v276	v296	v313

2. How many times is a calf typically vaccinated for respiratory disease from birth to sale? *[Count each vaccination event—whether the calf is given single or multiple injections at the event to cover the various respiratory disease(s)—as one time.]*..... v314 _____ #

[If question 2 = zero, SKIP to question 4.]

3. When vaccinating calves for respiratory disease before sale, do you vaccinate them:
- | | | | |
|---|------|---|--|
| a. After weaning but before sale? | v315 | <input type="checkbox"/> ₁ Yes | <input type="checkbox"/> ₃ No |
| b. At weaning? | v316 | <input type="checkbox"/> ₁ Yes | <input type="checkbox"/> ₃ No |
| c. Less than 14 days prior to weaning? | v317 | <input type="checkbox"/> ₁ Yes | <input type="checkbox"/> ₃ No |
| d. 30 to 14 days prior to weaning? | v318 | <input type="checkbox"/> ₁ Yes | <input type="checkbox"/> ₃ No |
| e. From birth through 31 days prior to weaning? | v319 | <input type="checkbox"/> ₁ Yes | <input type="checkbox"/> ₃ No |

BVD vaccination practices

[Data Collector: Refer to section B, question 1b.b on page 5 to answer questions 4 and 5.]

4. During 2017, did you vaccinate any cattle against BVD?
 v320 | ☐₁ Yes | ☐₃ No |

[If question 4 = No, SKIP to question 7.]

5. Were the following cattle classes vaccinated against BVD during 2017?
[If Yes, show the Producer Guide 1 (BVD Vaccine Reference Card) and enter the vaccine code for the product used most commonly for that age group.]

Vaccine code
(from Guide 1)

- | | | | | |
|--|------------|---|--|-------------|
| a. Calves 1 to 21 days..... | v/321/v329 | <input type="checkbox"/> ₁ Yes | <input type="checkbox"/> ₃ No | _____ code |
| b. Calves 22 days through weaning | v322/v330 | <input type="checkbox"/> ₁ Yes | <input type="checkbox"/> ₃ No | _____ code |
| If question 5b = Yes, number of times a calf is vaccinated between 22 days and weaning | | | | |
| | v323 | | | _____ times |
| c. Weaned replacement heifers through breeding | v324/v331 | <input type="checkbox"/> ₁ Yes | <input type="checkbox"/> ₃ No | _____ code |
| d. Bred replacement heifers precalving (e.g., at pregnancy check) | v325/v332 | <input type="checkbox"/> ₁ Yes | <input type="checkbox"/> ₃ No | _____ code |
| e. Cows prebreeding | v326/v333 | <input type="checkbox"/> ₁ Yes | <input type="checkbox"/> ₃ No | _____ code |
| f. Cows precalving (e.g., at pregnancy check) | v327/v334 | <input type="checkbox"/> ₁ Yes | <input type="checkbox"/> ₃ No | _____ code |
| g. Bulls..... | v328/v335 | <input type="checkbox"/> ₁ Yes | <input type="checkbox"/> ₃ No | _____ code |

6. Were the following cattle classes given an annual **BVD booster injection during 2017**?
[If Yes, show the Producer Guide 1 (BVD Vaccine Reference Card) and enter the vaccine code for the product used most commonly.]

Vaccine code
(from Guide 1)

- | | | | | |
|---------------|-----------|---|--|------------|
| a. Cows | v336/v338 | <input type="checkbox"/> ₁ Yes | <input type="checkbox"/> ₃ No | _____ code |
| b. Bulls..... | v337/v339 | <input type="checkbox"/> ₁ Yes | <input type="checkbox"/> ₃ No | _____ code |

Testing PracticesBVD testing practices

7. Do you believe that testing a group of calves and subsequent removal of any that are persistently infected with BVD virus affects the **value** of the remaining calves in the group?.....v340 ☐₁ Yes ☐₂ DK ☐₃ No

[If question 7 = No or Don't know, SKIP to question 8.]

- | | Increased value | Decreased value |
|---|-----------------|---|
| a. How much does the value of a BVD-negative calf increase or decrease after its group is tested for persistent infection (PI) with BVD virus and all positive animals are removed? v341/v342 | + _____ \$/hd | OR - _____ \$/hd |
| 8. Do you market calves for sale as BVD-PI negative?.....v343 | | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No |
| 9. Do you believe that removing calves that have tested positive for persistent infection (PI) with BVD virus affects the health of the remaining cattle in the group?v344 | | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₂ DK <input type="checkbox"/> ₃ No |

[If question 9 = No or Don't know, SKIP to question 11.]

10. Would you expect to see the following health effects from removing calves positive for persistent infection (PI) with BVD virus?
- | | |
|---|--|
| a. Improved reproductive efficiency (fewer abortions, stillbirths).....v345 | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No |
| b. Reduced sickness and/or treatment costs.....v346 | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No |
| c. Reduced death lossv347 | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No |
| d. Other (specify: _____) v348othv348 | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No |
11. In the past **3 years**, have you tested any **beef cattle** for persistent infection (PI) with BVD virus?v349 ☐₁ Yes ☐₃ No

[If questions 11 = No, SKIP to question 14.]

12. During 2017, did you BVD test:
- | | |
|---|---|
| a. All calves born to heifers/cows bred on the operation?v350 | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₂ NA <input type="checkbox"/> ₃ No |
| b. All calves born to heifers/cows purchased when pregnant?v351 | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₂ NA <input type="checkbox"/> ₃ No |
| c. All calves acquired as part of a cow-calf pair?.....v352 | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₂ NA <input type="checkbox"/> ₃ No |
| d. All heifers/cows purchased when open?.....v353 | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₂ NA <input type="checkbox"/> ₃ No |
| e. Clinical suspects?v354 | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₂ NA <input type="checkbox"/> ₃ No |
| f. Other (specify: _____) v355othv355 | <input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₂ NA <input type="checkbox"/> ₃ No |

[If questions 12a–f are ALL No or NA, SKIP to question 14.]

13. What samples were collected for BVD testing?

- a. Ear notches v356 ☐₁ Yes ☐₃ No
- (i) If Yes, how were the samples tested at the laboratory?
- (a) Pools followed by individual testing if a positive
was identified v357 ☐₁ Yes ☐₂ DK ☐₃ No
- (b) Individual sample testing only v358 ☐₁ Yes ☐₂ DK ☐₃ No
- b. Serum samples v359 ☐₁ Yes ☐₃ No
- (i) If Yes, how were the samples tested at the laboratory?
- (a) Pools followed by individual testing if a positive
was identified v360 ☐₁ Yes ☐₂ DK ☐₃ No
- (b) Individual sample testing only v361 ☐₁ Yes ☐₂ DK ☐₃ No

Parasite testing practices

14. In the last 3 years, have you done any fecal testing to
evaluate parasite burdens? v362 ☐₁ Yes ☐₃ No

Section C—Disease Control, Illness, and Deaths

1. During 2017, did you use antibiotics in **feed** for treatment, control,
or prevention of disease and/or to promote growth*? v400 ☐₁ Yes ☐₃ No

*On January 1, 2017, medically important antibiotics, like chlortetracycline, were no longer allowed to be used for growth promotion purposes. However, bambermycins (Gainpro®) and ionophores (Rumensin®, Bovatec®, and Cattleyst®) are all considered nonmedically important antibiotics, and these can still be used for growth promotion purposes after January 1, 2017.

[If question 1 = No, SKIP to question 3.]

Code List C1—question 2, column B	
1 – Trade journals	5 – Nutritionist
2 – Other producers	6 – Supplier of antibiotics other than veterinarian (e.g., feed store, direct marketer, Internet company)
3 – Local veterinary practitioner	7 – Other (specify: _____) v401oth
4 – Consulting or second-opinion veterinarian	8 – No other influences

2. a. For the three animal classes listed in the table below, did you use antibiotics in feed (including creep feed) during 2017 for the primary purposes indicated? *[Check Yes or No in column A.]*

- b. *[If column A is Yes, complete columns B, C, and D. If column A is No, proceed to next row.]*

Column B: For those primary purposes for which you used antibiotics in feed, **other than your knowledge and experience**, who or what had the primary influence on decisions regarding which antibiotics to use? *[Enter a code from List C1 (above) in column B (below).]*

Column C: What was the primary antibiotic used? *[Consult Guide 2 (Antibiotics Used in Feed) and enter the appropriate code for the primary antibiotic used in column C (below).]*

Column D: On average, how many days was the antibiotic fed to an animal in that age group? *[In column D (below), enter the average number of days the antibiotic was fed to an animal in that age group.]*

Animal class	Primary purpose	Column A Used antibiotics in feed in 2017?	Column B <i>If Column A = Yes</i> Primary Influence (from List C1)	Column C Primary antibiotic (code from Guide 2)	Column D Average number of days fed
Unweaned calves	Prevention, control, or treatment of respiratory disease	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No v401	v409	v417	v425
	Other (specify: _____) v402oth	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No v402	v410	v418	v426
Replacement heifers weaned but not yet calved <i>[If none, enter NA.]</i>	Prevention, control, or treatment of respiratory disease	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₂ NA <input type="checkbox"/> ₃ No v403	v411	v419	v427
	Promote growth*	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₂ NA <input type="checkbox"/> ₃ No v404	v412	v420	v428
	Other (specify: _____) v405oth	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₂ NA <input type="checkbox"/> ₃ No v405	v413	v421	v429
Other calves weaned but not yet shipped for feeding or sold as breeding stock <i>[If none, enter NA.]</i>	Prevention, control, or treatment of respiratory disease	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₂ NA <input type="checkbox"/> ₃ No v406	v414	v422	v430
	Promote growth*	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₂ NA <input type="checkbox"/> ₃ No v407	v415	v423	v431
	Other (specify: _____) v408oth	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₂ NA <input type="checkbox"/> ₃ No v408	v416	v424	v432

*On January 1, 2017, medically important antibiotics, like chlortetracycline, were no longer allowed to be used for growth promotion purposes. However, bambermycins (Gainpro®) and ionophores (Rumensin®, Bovatec®, and Cattlyst®) are all considered nonmedically important antibiotics, and these can still be used for growth promotion purposes after January 1, 2017.

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3. In 2017, did you use either oral (via bolus, drench, or drinking water) or injectable antibiotics to **treat** disease? v433 ☐₁ Yes ☐₃ No

[If question 3 = No, SKIP to question 6.]

Code List C2—question 4, column B	
1 – Trade journals	5 – Supplier of antibiotics other than veterinarian (e.g., feed store, direct marketer, Internet company)
2 – Other producers	6 – Other (specify: _____) v434oth
3 – Local veterinary practitioner	7 – No other influences
4 – Consulting or second-opinion veterinarian	

4. a. For the two animal classes listed in the table below, did you use oral (via bolus, drench, or drinking water) or injectable antibiotics to treat or control the listed diseases in 2017? *[Check Yes or No in column A.]*
- b. *[If column A is Yes, continue with column B to complete row.]* Aside from you, who or what had the **primary influence** on decisions regarding which **oral** or **injectable** antibiotics to use? *[Enter a code from List C2 (above) in column B (below).]*

Animal class	Disease	Column A Use antibiotics to treat disease?	Column B If Column A = Yes Primary influence on decisions (from List C2)
Unweaned calves	Pinkeye	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No v434	v442
	Respiratory disease	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No v435	v443
	Digestive disease	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No v436	v444
	Other (specify: _____) v437oth	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No v437	v445
Replacement heifers weaned but not yet calved	Pinkeye	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₂ NA <input type="checkbox"/> ₃ No v438	v446
	Footrot	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₂ NA <input type="checkbox"/> ₃ No v439	v447
	Respiratory disease	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₂ NA <input type="checkbox"/> ₃ No v440	v448
	Other (specify: _____) v441oth	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₂ NA <input type="checkbox"/> ₃ No v441	v449

5. How many animals in each of the following categories were given antibiotics at least once via either oral (via bolus, drench, or drinking water) or injectable routes to treat or control any **diseases** or **disorders** during 2017? *[Write in NA if category not on operation.]*
- a. Unweaned calves v450 _____ head
- b. Replacement heifers weaned but not yet calved v451 _____ head
- c. Cows v452 _____ head

6. Complete the table below for **treatment or control of DISEASES or DISORDERS** in unweaned calves, replacement heifers weaned but not yet calved, and cows in 2017.
[Codes for this table are in Guide 3 (Oral and Injectable Antibiotics).]

Animal class	Disease or disorder	Number affected during 2017	Number of affected animals given antibiotics via bolus or drench	Primary antibiotic used via bolus or drench (code)	Number of affected animals given antibiotics in drinking water	Primary drinking water antibiotic used (code)	Number of affected animals given INJECTABLE antibiotics	Primary INJECTABLE antibiotic used (code)
Unweaned calves	Respiratory	v453	v471	v489	v507	v525	v543	v561
	Diarrhea/scours or other digestive	v454	v472	v490	v508	v526	v544	v562
	Pinkeye	v455	v473	v491	v509	v527	v545	v563
	Navel infection	v456	v474	v492	v510	v528	v546	v564
	Other (specify: _____)							
	v457oth	v457	v475	v493	v511	v529	v547	v565
Replacement heifers weaned but not yet calved	Respiratory	v458	v476	v494	v512	v530	v548	v566
	Diarrhea or other digestive	v459	v477	v495	v513	v531	v549	v567
	Pinkeye	v460	v478	v496	v514	v532	v550	v568
	Lameness/footrot	v461	v479	v497	v515	v533	v551	v569
	Other (specify: _____)							
	v462oth	v462	v480	v498	v516	v534	v552	v570
Cows	Respiratory	v463	v481	v499	v517	v535	v553	v571
	Diarrhea or other digestive	v464	v482	v500	v518	v536	v554	v572
	Pinkeye	v465	v483	v501	v519	v537	v555	v573
	Reproductive (retained placenta/uterine infection)	v466	v484	v502	v520	v538	v556	v574
	Mastitis	v467	v485	v503	v521	v539	v557	v575
	Abortion	v468	v486	v504	v522	v540	v558	v576
	Lameness/footrot	v469	v487	v505	v523	v541	v559	v577
	Other (specify: _____)							
	v470oth	v470	v488	v506	v524	v542	v560	v578

7. In general, do you treat calves 7 days and older with antibiotics if they have diarrhea (scours)?v579 ☐₁ Yes ☐₃ No
8. In 2017, did you use chlortetracycline (CTC, aureomycin) for control of anaplasmosis in cattle on your operation (excluding use by injection)?v580 ☐₁ Yes ☐₃ No

[If question 8 = No, SKIP to question 12.]

9. During 2017, how was the chlortetracycline administered to cattle for control of anaplasmosis on your operation?

- | | | | |
|--|------|---|--|
| a. Free choice loose mineral | v581 | <input type="checkbox"/> ₁ Yes | <input type="checkbox"/> ₃ No |
| b. Medicated mineral block | v582 | <input type="checkbox"/> ₁ Yes | <input type="checkbox"/> ₃ No |
| c. Mixed in feed | v583 | <input type="checkbox"/> ₁ Yes | <input type="checkbox"/> ₃ No |
| d. In cattle drinking water | v584 | <input type="checkbox"/> ₁ Yes | <input type="checkbox"/> ₃ No |
| e. Other method (specify: _____) v585oth | v585 | <input type="checkbox"/> ₁ Yes | <input type="checkbox"/> ₃ No |

10. How many months during 2017 was chlortetracycline administered to cattle via feed, mineral, or drinking water for control of anaplasmosis?

[Enter a number from 1 to 12.]..... v586 _____ #

11. What was the **primary** reason for using chlortetracycline for anaplasmosis control on your operation during 2017? [Check one only.]

v587

- ☐₁ Recommended by veterinarian
- ☐₂ Recommended by nutritionist
- ☐₃ Anaplasmosis has been diagnosed in the past in cattle on this operation (by lab testing or examination by veterinarian)
- ☐₄ Anaplasmosis has been diagnosed in the past in other herds in the area
- ☐₅ Recommended by supplier of antibiotics other than veterinarian (e.g., feed salesmen)
- ☐₆ Other reason (specify: _____) v587oth

12. How familiar are you with the meaning of a veterinarian-client-patient relationship (VCPR)? [Check one only.]

v588

- ☐₁ Have at least a basic understanding of what it means
- ☐₂ Heard the name but do not know what it means
- ☐₃ Never heard of it

13. In 2017, did you use the services of a veterinarian for cattle on your operation?

v589

☐₁ Yes ☐₃ No

[If question 13 = Yes, SKIP to question 15.]

14. Which of the following is the primary reason for **not** using a veterinarian in 2017? [Check one only.]

v590

- ☐₁ Veterinarian was available in the local area but not knowledgeable about beef cattle
- ☐₂ Veterinarian was not available in the local area
- ☐₃ Too expensive
- ☐₄ Not needed on this operation
- ☐₅ Other (specify: _____) v590oth

[If question 14 was answered, SKIP to question 16.]

15. Was the primary veterinarian you used during 2017 a: *[Check one only.]*

v591

- ☐₁ Full-time veterinarian on staff?
- ☐₂ Private veterinarian who made regular or routine visits?
- ☐₃ Private veterinarian you called as needed?

[Please read text below to respondent prior to asking question 16.]

The FDA definition of a “valid veterinarian-client-patient relationship” (VCPR) is described below. States can have their own definition of a VCPR as well.

1. A veterinarian has assumed the responsibility for making medical judgements regarding the health of (an) animal(s) and the need for medical treatment, and the client (the owner of the animal or animals or other caretaker) has agreed to follow the instructions of the veterinarian;
2. There is sufficient knowledge of the animal(s) by the veterinarian to initiate at least a general or preliminary diagnosis of the medical condition of the animal(s), and;
3. The practicing veterinarian is readily available for followup in case of adverse reactions or failure of the regimen of therapy. Such a relationship can exist only when the veterinarian has recently seen and is personally acquainted with the keeping and care of the animal(s) by virtue of examination of the animal(s), and/or by medically appropriate and timely visits to the premises where the animal(s) are kept.

16. Do you have a VCPR with your veterinarian for cattle on this operation? v592 ☐₁ Yes ☐₂ DK ☐₃ No

[If question 16 = No or don't know, SKIP to question 18.]

17. How would you describe your VCPR with your veterinarian?

[Check one only.]

v593

- ☐₁ A written document signed by my veterinarian and me
- ☐₂ A verbal agreement between my veterinarian and me
- ☐₃ My veterinarian has not formally mentioned a VCPR but I consider that I have one based on his relationship with my operation

Code List C3—question 18	
1 – Infrequently (less than every three years)	3 – Once a year
2 – Occasionally (less than once a year but at least every three years)	4 – More than once a year

18. Have you ever dewormed the cattle classes in the table below, and if so, how often do you deworm?

Cattle class	Column A Ever dewormed these cattle?	Column B <i>If Column A = Yes</i> Frequency of deworming (from List C3)
Unweaned calves?	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No v594	v598
Replacement heifers weaned but not yet calved?	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₂ NA <input type="checkbox"/> ₃ No v595	v599
Weaned stocker calves?	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₂ NA <input type="checkbox"/> ₃ No v596	v600
Cows?	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₃ No v597	v601

[If ALL animal classes in question 18 column A = No or NA, or if ALL of the frequency codes in column B = 1, SKIP to question 23.]

19. Which of the following do you **primarily** use to decide when to treat your cattle for internal parasites (worms)? *[Check one only.]*

v602

- ☐₁ When the cattle look rough
- ☐₂ Fecal consistency (diarrhea)
- ☐₃ On a regular schedule
- ☐₄ Based on fecal tests
- ☐₅ Other (specify: _____) v602oth

20. Have you used the following products to treat cattle for internal parasites in the last 3 years? *[For help categorizing specific products into anthelmintic class, see Guide 4 (Anthelmintic Reference Card).]*

- a. Avermectins (Ivomec®--ivermectin, Cydectin®--moxidectin)? v603 ☐₁ Yes ☐₃ No
- b. Benzimidazoles (Valbazen®--albendazole, Panacur®--fenbendazole)?..... v604 ☐₁ Yes ☐₃ No
- c. Imidazothiazoles (Levasole®--levamisole)? v605 ☐₁ Yes ☐₃ No
- d. Benzenesulphonamides (Curatrem®--clorsulon, Ivomec Plus®--clorsulon)? . v606 ☐₁ Yes ☐₃ No
- e. Tetrahydropyrimidines (Rumatel®--morantel)? v607 ☐₁ Yes ☐₃ No
- f. Other (specify: _____) v608oth v608 ☐₁ Yes ☐₃ No

Code List C4—Question 21	
1 – Not important	3 – Important
2 – Slightly important	4 – Very important

21. How important are each of the following as sources of **deworming information** for this operation?

Code
(from List C4)

- a. Veterinarian v609 _____
- b. Other producers v610 _____
- c. Sales representative v611 _____
- d. Extension/university personnel v612 _____
- e. Magazines/journals (articles and/or ads) v613 _____
- f. Internet v614 _____
- g. Other source (specify: _____) v615oth v615 _____

22. Are you doing any of the following to prolong or improve the efficacy of the dewormers you use?

- a. Rotating dewormer type v616 ☐₁ Yes ☐₃ No
- b. Monitoring effectiveness by laboratory testing v617 ☐₁ Yes ☐₃ No
- c. Deworming more often v618 ☐₁ Yes ☐₃ No
- d. Deworming less often v619 ☐₁ Yes ☐₃ No
- e. Targeted deworming of certain classes of cattle (weight/age) v620 ☐₁ Yes ☐₃ No
- f. Other (specify: _____) v621oth v621 ☐₁ Yes ☐₃ No

23. In 2017, did you use a pour-on product for fly and/or lice control? v622 ☐₁ Yes ☐₃ No

24. My next questions are about cattle and calves that died or were lost.

During 2017, of the (section A, question 2a) **beef calves born alive**, how many died or were lost prior to weaning from all causes? *[Exclude calves born dead (section A, question 2b) and abortions. "Were lost" can refer to instances such as cattle being stolen or cattle that were likely killed by a predator but the remains were not found.]* v623 _____ head

[If question 24 = zero, SKIP to question 25.]

a. How many of these (question 24) **unweaned calves** died or were lost:

- (i) 24 hours or less after birth? v624 _____ head
- (ii) More than 24 hours but less than 3 weeks after birth? v625 _____ head
- (iii) 3 weeks or more after birth, but before weaning? v626 _____ head
- (iv) Add questions 24a(i), 24a(ii), and 24a(iii). Total should equal Item 24 v627 = _____ head

25. During 2017, how many **beef breeding cattle**, weaned or older (replacement heifers, cows, and bulls), died or were lost from all causes? v628 _____ head

[If both questions 24 and 25 = zero, SKIP to question 27.]

26. How many of the deaths or losses of (question 24) unweaned calves and/or (question 25) beef breeding cattle in 2017 resulted **primarily** from the following causes?

Cause	Unweaned Beef Calves		Beef breeding cattle
	Less than 3 weeks old	3 weeks and older	
a. Digestive problems (bloat, scours, parasites, enterotoxemia, acidosis, etc.)	v629	v642	v656
b. Respiratory problems (pneumonia, shipping fever, etc.)	v630	v643	v657
c. Metabolic problems (milk fever, grass tetany, etc.)	v631	v644	v658
d. Mastitis (cows only)			v659
e. Lameness or injury	v632	v645	v660
f. Calving-related/birth-related problems	v633	v646	v661
g. Other known diseases (specify: _____) v634oth	v634	v647	v662
h. Weather-related causes (lightning, drowning, chilling, etc.)	v635	v648	v663
i. Poisoning (nitrates, noxious feeds, noxious weeds, etc.)	v636	v649	v664
j. Predators (known or unknown)	v637	v650	v665
k. Theft (stolen)	v638	v651	v666
l. Other known causes (old age, etc.) (specify: _____) v639oth	v639	v652	v667
Unknown causes	v640	v653	v668
m. [Sum column for each age group of unweaned beef calves.]	v641	v654	
n. Verify total [should equal question 24 or 25]	Add sum cells in row above to get total for unweaned calves: v655		v669

27. Did you bring any new cattle onto this operation in the last 3 years?v670 ☐ Yes ☐ No

[If question 27 = No, SKIP to section D.]

28. Before bringing cattle onto this operation in the last 3 years, did you normally require **vaccination** of the animals for:

- a. Brucellosis? [If only bulls brought on, check NA.]v671 ☐ Yes ☐ NA ☐ No
- b. BVD (bovine viral diarrhea)?v672 ☐ Yes ☐ No
- c. IBR (infectious bovine rhinotracheitis)?v673 ☐ Yes ☐ No
- d. Leptospirosis?v674 ☐ Yes ☐ No
- e. Trichomoniasis (trich)v675 ☐ Yes ☐ No
- f. Anything else? (specify: _____) v676othv676 ☐ Yes ☐ No

29. Before bringing cattle onto the operation in the last 3 years, did you normally require **tests** for:

- a. Brucellosis for animals 2 years of age or older?
[If only cattle less than 2 years brought on, check NA.]..... v677 ☐₁ Yes ☐₂ NA ☐₃ No
- b. Johne's disease (*M. paratuberculosis*)? v678 ☐₁ Yes ☐₃ No
- c. BVD (bovine viral diarrhea) (persistently infected)? v679 ☐₁ Yes ☐₃ No
- d. TB (bovine tuberculosis)? v680 ☐₁ Yes ☐₃ No
- e. Trichomoniasis (trich) v681 ☐₁ Yes ☐₃ No
- f. Anything else? (specify: _____) v682oth v682 ☐₁ Yes ☐₃ No

30. Before bringing weaned calves (stockers or replacement heifers) and/or cows onto the operation during the previous 3 years, did you normally require:
[If animals not brought on, check NA.]

- a. Testing for internal parasites (worms)?
- b. Treatment for internal parasites (worms)?

Weaned calves	Cows
<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₂ NA <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₂ NA <input type="checkbox"/> ₃ No
<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₂ NA <input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁ Yes <input type="checkbox"/> ₂ NA <input type="checkbox"/> ₃ No

v683/v685

v684/v686

Section D—Nutrition Management

1. The next questions are about nutrition and health management.
Does this operation usually calculate a balanced ration using either published feed values ("book values") or results of feed analyses? v700 ☐₁ Yes ☐₃ No

[If question 1 = No, SKIP to question 3.]

2. Is the balanced ration based on **both** the animals' requirements **and** the quality of feedstuffs available? v701 ☐₁ Yes ☐₃ No
3. In the past **5 years**, did this operation submit samples of any feed to a laboratory for nutritional analysis? *[Include purchased and raised feed.]* v702 ☐₁ Yes ☐₃ No
4. Were the following mineral and/or salt supplements fed to your cows **during fall/winter (October 2017 through March 2018)**? If fed, was the supplement fed as a block or loose?

		Fed		Form	
		Fall/winter		Block	Loose
a. Salt (plain or iodized)	v703/v707	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
b. Trace mineral salt.....	v704/v708	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
c. Complete mineral	v705/v709	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
d. High magnesium mineral	v706/v710	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂

5. Were the following mineral and/or salt supplements fed to your cows **during spring/summer (April 2017 through September 2017)**? If fed, was the supplement fed as a block or loose?

		Fed		Form	
		Spring/summer		Block	Loose
a. Salt (plain or iodized)	v711/v715	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
b. Trace mineral salt.....	v712/v716	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
c. Complete mineral	v713/v717	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂
d. High magnesium mineral	v714/v718	<input type="checkbox"/> ₁ Yes	<input type="checkbox"/> ₃ No	<input type="checkbox"/> ₁	<input type="checkbox"/> ₂

6. How many pounds or tons of mineral/salt were fed to your cow herd in 2017? v719/v720 _____ or _____
pounds pounds tons

7. During the last 5 years, have any of the following minerals been identified as deficient or causing health or reproductive problems in the herd?
- | | | | |
|---------------------|------|---|--|
| a. Phosphorus | v721 | <input type="checkbox"/> ₁ Yes | <input type="checkbox"/> ₃ No |
| b. Magnesium..... | v722 | <input type="checkbox"/> ₁ Yes | <input type="checkbox"/> ₃ No |
| c. Cobalt..... | v723 | <input type="checkbox"/> ₁ Yes | <input type="checkbox"/> ₃ No |
| d. Copper..... | v724 | <input type="checkbox"/> ₁ Yes | <input type="checkbox"/> ₃ No |
| e. Iodine..... | v725 | <input type="checkbox"/> ₁ Yes | <input type="checkbox"/> ₃ No |
| f. Manganese | v726 | <input type="checkbox"/> ₁ Yes | <input type="checkbox"/> ₃ No |
| g. Selenium | v727 | <input type="checkbox"/> ₁ Yes | <input type="checkbox"/> ₃ No |
| h. Zinc..... | v728 | <input type="checkbox"/> ₁ Yes | <input type="checkbox"/> ₃ No |

8. In 2017, did you use the following to treat or prevent mineral-associated health or reproductive problems?

- a. Mineral mix.....v729 ☐₁ Yes ☐₃ No
- b. Supplemental feedv730 ☐₁ Yes ☐₃ No
- c. Injectionsv731 ☐₁ Yes ☐₃ No

Code List D1—question 9	
1 – Less than 30 percent	3 – Greater than 60 percent
2 – 30 to 60 percent	

9. During 2017, did this cow herd have access to pasture during the following months? If so, select a code from the box above that best describes the approximate percentage of the complete diet that pasture comprised.

**Code
(from List D1)**

- a. January.....v732 ☐₁ Yes ☐₃ No _____
- b. Marchv733 ☐₁ Yes ☐₃ No _____
- c. May.....v734 ☐₁ Yes ☐₃ No _____
- d. Julyv735 ☐₁ Yes ☐₃ No _____
- e. September.....v736 ☐₁ Yes ☐₃ No _____
- f. November.....v737 ☐₁ Yes ☐₃ No _____

10. During 2017, did this operation make use of crop residue/aftermath as a feed source (e.g., allowing cows to feed on cornstalk residue)?v738 ☐₁ Yes ☐₃ No

- a. If Yes, what type? _____ v739

11. During 2017, how many pounds per head per day of the listed feedstuffs were fed to this cow herd? *[Remind operator to answer in pounds per head per day **as fed**. Convert to this unit as needed.]*

	Jan.	Mar.	May	Jul.	Sep.	Nov.
a. Hay	_____	_____	_____	_____	_____	_____
	v740	v744	v748	v752	v756	v760
b. Silage	_____	_____	_____	_____	_____	_____
	v741	v745	v749	v753	v757	v761
c. Protein supplement	_____	_____	_____	_____	_____	_____
	v742	v746	v750	v754	v758	v762
d. Energy supplement	_____	_____	_____	_____	_____	_____
	v743	v747	v751	v755	v759	v763

12. Did this operation consult an animal nutritionist during 2017?v764 ☐₁ Yes ☐₃ No

Code List D2—Question 13	
1 – Not important	3 – Important
2 – Slightly important	4 – Very important

13. How important are each of the following sources of **nutritional information** for this operation?

		Code (from list D2)
a. Private nutritionist.....	v765	_____
b. Feed salesman or feed retailer	v766	_____
c. BQA manual or online modules	v767	_____
d. Extension agent	v768	_____
e. Veterinarian.....	v769	_____
f. Friend or neighbor or other producers	v770	_____
g. Producer magazine in print or online	v771	_____
h. Personal knowledge/education	v772	_____

Section E—Opinions on Significance of Health Problems

1. Do you strongly agree, agree, disagree, strongly disagree, or have no opinion that the following specific health problems had a significant **economic impact** on **your operation** during 2017? **Include** the cost of prevention, cost of treatment, and lost production in the economic impact.

[Data Collector: To begin, say, “Internal parasites had a significant economic impact on this cow/calf operation during 2017.”]

Health Problem	Strongly agree	Agree	Disagree	Strongly disagree	No opinion	
PARASITES						
a. Internal parasites						v800
b. External parasites (flies, lice, ticks, grubs)						v801
DIGESTIVE						
c. Calf scours						v802
d. Bloat/colic/ulcers (abomasal/stomach)						v803
e. Coccidiosis						v804
REPRODUCTIVE						
f. Open/late calvers						v805
g. Abortion						v806
h. Weak calves						v807
RESPIRATORY						
i. Calf pneumonia/shipping fever						v808
j. Cow asthma						v809
PLANT-RELATED						
k. Plant-related toxicities						v810
OTHER						
l. Pinkeye						v811
m. Footrot						v812
n. White muscle disease (selenium/vitamin E deficiency)						v813
o. Copper deficiency						v814
p. <i>Anaplasma</i>						v815
q. Grass tetany						v816

State/Operation #: _____

2. Do you strongly agree, agree, disagree, strongly disagree, or have no opinion whether the health issues listed below are a significant problem for the **beef industry**?

*[Data Collector: To begin, say, “**Tuberculosis** is a significant problem for the U.S. beef cattle industry.”]*

Health issue	Strongly agree	Agree	Disagree	Strongly disagree	No opinion/ unfamiliar with disease	
a. Tuberculosis						v817
b. Brucellosis						v818
c. <i>Trichostrongylus</i> infection (trich)						v819
d. Johne's disease (paratuberculosis)						v820
e. BLV (bovine leukosis virus) infection						v821
f. BVD (bovine viral diarrhea)						v822
g. <i>Anaplasma</i> infection						v823
h. <i>Neospora</i> infection						v824
i. Bluetongue						v825
j. Internal parasites (worms)						v826
k. Resistance to anthelmintics (dewormers)						v827

3. Do you agree, disagree, or have no opinion with the following statement? *[Check one only.]*

“The United States is well prepared to handle outbreaks of livestock disease currently not found in this country, such as foot-and-mouth disease.”

Agree	Disagree	No opinion

v828

State/Operation #: _____

Office Use Only

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

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... vitime _____ min
2. Total travel time (round trip). If more than one data collector present, enter the combined time..... vtime _____ min
3. Data collector(s): *[Enter the number for each category.]*
____ Federal VMO ____ Federal AHT ____ State personnel ____ Other (specify) vvm/vaht/vst/voth
4. Enter response code 99 if questionnaire is completed or enter one code of 00–07 that best describes the reason why the owner is not participating..... vrc0 _____ code

99 = Survey completed
00 = Inaccessible after five contact attempts
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 beef cows)
07 = Other reason (explain below)

Contact attempt history			
Date (mm/dd)	Time (am/pm)	Action	Outcome
1/22	4:30 pm	Phone call	Left msg on machine
cdate	ctime	caction	coutcome

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

6. Producer data quality..... vpdq ☐1 Good to excellent ☐2 OK ☐3 Poor

7. Did the respondent use written or computerized records to assist in answering this survey? vrec ☐1 Yes ☐3 No

Comments regarding this questionnaire or operation:

VMO or AHT signature: _____

TO BE COMPLETED BY THE COORDINATOR:

Field data quality vfdq ☐1 Good to excellent ☐2 OK ☐3 Poor

Guide 1: BVD Vaccine Reference Card

[K]= killed vaccine, [ML]= modified live vaccine

*Indicates BVD type I only, rest are type I and type II



















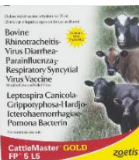


Photo	Company	Vaccine Name	Code
	Boehringer Ingelheim	Elite® 4-HS*	1
		Elite® 9*	2
		Elite® 9-HS*	3
	Boehringer Ingelheim	Express® 3	4
		Express® 5	5
		Express® 5 HS	6
		Express® 10	7
		Express® 10 HS	8
	Boehringer Ingelheim	Express® FP 3-VL5	9
		Express® FP 5	10
		Express® FP 5-VL5	11
		Express® FP 10	12
		Express® FP 10-HS	13
	Boehringer Ingelheim	Prism™ 5	14
	Boehringer Ingelheim	Pyramid® 3	15
		Pyramid® 3 LPH	16
		Pyramid® 4*	17
		Pyramid® 5	18
		Pyramid® 10	19
		Pyramid® 3 + Presponse® SQ	20
		Pyramid® 4+Presponse® SQ*	21
		Pyramid® 5 + Presponse® SQ	22
	Boehringer Ingelheim	Triangle® 5	23
		Triangle® 10 HB	24
		Triangle® 4+PH-K*	25
		Triangle® 9+PH-K*	26
	Colorado Serum Company	Pre-Breed 8*	27
	Colorado Serum Company	Respira-3*	28

Photo	Company	Vaccine Name	Code
	Elanco Animal Health/Novartis	Arsenal® 4.1	29
	Elanco Animal Health/Novartis	BRD Shield™	30
	Elanco Animal Health/Novartis	BVD Shield® 3	31
	Elanco Animal Health	Master Guard® 5	32
		Master Guard® 10 HB	33
	Elanco Animal Health	Titanium® 3	34
		Titanium® 3 LP	35
		Titanium® 4 L5	36
		Titanium® 5	37
		Titanium® 5 L5 HB	38
		Titanium® 5+PH-M	39
	Elanco Animal Health	Vira Shield™ 4	40
		Vira Shield™ 4+VL5	41
		Vira Shield™ 4+VL5 HB	42
		Vira Shield™ 6	43
		Vira Shield™ 6+Somnus	44
		Vira Shield™ 6+L5	45
		Vira Shield™ 6+L5 Somnus	46
		Vira Shield™ 6+L5 HB	47
		Vira Shield™ 6+L5 HB Somnus	48
		Vira Shield™ 6+VL5	49
		Vira Shield™ 6+VL5 Somnus	50
		Vira Shield™ 6+VL5 HB	51
		Vira Shield™ 6+VL5 HB Somnus	52
	Merck Animal Health	Vista ®3 SQ	53
		Vista ®3 VL5 SQ	54
		Vista ®5 SQ	55
		Vista ®5 L5 SQ	56
		Vista ®5 VL5 SQ	57
		Vista ®Once SQ	58

Guide 1: BVD Vaccine Reference Card
[K]= killed vaccine, [ML]= modified live vaccine
 *Indicates BVD type I only, rest are type I and type II

Photo	Company	Vaccine Name	Code
[K] 	Texas Vet Lab	Super Poly-Bac@B + IBRk & BVDk*	59
[ML] 	Zoetis	Bovi-Shield Gold One Shot™ 60 Bovi-Shield Gold® BVD 61 Bovi-Shield Gold® IBR-BVD 62 Bovi-Shield Gold® 4 63 Bovi-Shield Gold® 5 64 Bovi-Shield Gold® FP® 5 65 Bovi-Shield Gold® FP® 5 L5 HB 66 Bovi-Shield Gold® FP® 5 VL5 HB 67 Bovi-Shield Gold® FP® 5 L5 68 Bovi-Shield Gold® FP® 5 VL5 69	
[ML] 	Zoetis	PregGuard® Gold FP® 10	70
[K] 	Zoetis	CattleMaster® Gold FP® 5 71 CattleMaster® Gold FP® 5 L5 72 CattleMaster® 4+VL5* 73	
[ML] 	Zoetis	One Shot ®BVD	74
[ML] 	Zoetis	Resvac® 4/Somubac®*	75
OTHER			76

GUIDE 2: Antibiotics Used in Feed Reference Card

[For use with VS Visit questionnaire, page 9: Section C, Item 2.b., Column C]. Note that Deccox and Corid are not antibiotics. They are only in this list because they were included on the NAHMS Beef 2007 Antibiotics Reference Card, so this gives us an opportunity to monitor trends.

ANTIBIOTICS USED IN FEED		
Code	Active Ingredient	Product Name
1	Amprolium	Corid
2	Bacitracin	BMD
3	Bambermycin	Gainpro
4	Chlortetracycline	Aureomycin, CTC, CLTC, Chlormax, Pennchlor
5	Chlortetracycline with Sulfamethazine	Aureo S 700, AS 700, Pennchlor S
6	Decoquate	Deccox
7	Laidlomycin propionate	Cattlyst
8	Lasalocid	Bovatec
9	Monensin	Rumensin
10	Neomycin	Neomix
11	Neomycin & Oxytetracycline	Neo-Terramycin, Neo-Oxy
12	Oxytetracycline	Terramycin, Pennox, OTC, TM
13	Tilmicosin	Pulmotil, Tilmovet
14	Tylosin	Tylan, Tylovet
15	Virginiamycin	V-Max
16	Other	

GUIDE 3: Oral and Injectable Antibiotics

Reference Card

[For use with VS Visit questionnaire, page 11, Section C, Item 6. Note that the drinking water antibiotics below would also be the antibiotics used in a drench]

ANTIBIOTICS USED IN DRINKING WATER or VIA DRENCH		
Code	Active Ingredient	Product Name
1	Amoxicillin	Amoxi-Sol
2	Ampicillin	Princillin Soluble Powder
3	Amprolium	Corid
4	Bacitracin	BMD Soluble
5	Chlortetracycline	Aureomycin, A-Mycin, Chlortetracycline, Chloronex, Chlortet-Soluble-O, CTC, Pennchlor
6	Lincomycin	Lincomycin Soluble, Linco Soluble, Lincomix Soluble, Lincosol Soluble Powder, Linxmed-SP
7	Lincomycin/Spectinomycin	Lincomycin-Spectinomycin Soluble Powder, L-S 50, SpecLinx-50
8	Neomycin	Neomycin soluble powder, Neosol soluble, NeoMed soluble, Neo-Sol 50, Neosol Oral
9	Oxytetracycline	Terramycin soluble powder, Oxytetracycline HCL, Agrimycin, Oxymycin, Oxy-Sol, Oxytet 343, Pennox 343, Tetroxy 343, Tetroxy 25
10	Spectinomycin	Spectinomycin Oral, Spectam, SpectoGard Scour-Chek
11	Sulfadimethoxine	Agribon solution, Albon solution, Sulfadimethoxine soluble powder, Sulfadimethoxine 12.5% oral solution, Sulforal, Sulfasol soluble, Di-Methox 12.5% oral solution, Di-Methox 12.5% soluble powder
12	Sulfamethazine	SMZ-Med 454 soluble powder, Sulfa, Sulmet solution, Sulmet soluble powder
13	Sulfaquinoxaline	S.Q. Soluble, Sulfa-Nox Concentrate, Sul-Q-Nox,
14	Tetracycline	Tetracycline soluble powder, Duramycin 10, Tetramycin, Vetquamycin, Tetrachel, Tetramed 324, Tet-Sol 324, Tetrasol soluble powder
15	Other	

ANTIBIOTICS USED VIA BOLUS		
Code	Active Ingredient	Product Name
16	Amoxicillin	Amoxi-Bol
17	Ampicillin	Princillin Bolus, Ampi-Bol
18	Chlortetracycline	Aureomycin Soluble Oblets
19	Oxytetracycline	Terramycin Scour Tablets, Oxy 500 and 1000 calf bolus
20	Sulfachlorpyridazine	Vetisulid Bolus, Prinzone Bolus, Pyradan Bolus
21	Sulfadimethoxine	Albon S.R., Agribon Bolus, Albon Bolus
22	Sulfamethazine	Sulmet Oblets, Sustain III Bolus, SulfaSURE SR Bolus, Sulka-S Bolus
23	Tetracycline	Panmycin 500 Bolus, Polyotic Oblets
24	Trimethoprim/sulfamethoxazole	SMZ/TMP tablets, Bactrim tablets, Tribissen tablets
25	Other	

**(Continued) GUIDE 3: Oral and Injectable Antibiotics
Reference Card**

ANTIBIOTICS USED VIA INJECTION		
Code	Active Ingredient	Product Name
26	Amoxicillin	Amoxi-Inject
27	Ampicillin	Polyflex, Princillin Injection
28	Ceftiofur	Naxcel, Excede, Excenel, Excenel RTU, Ceftiofur Sodium Sterile Powder, Ceftiflex
29	Danofloxacin	Advocin Sterile Injectable Solution, A180
30	Enrofloxacin	Baytril 100, Enroflox 100
31	Erythromycin	Gallimycin, Erythro 100, Erythro 200
32	Florfenicol	Nuflor, NuflorGOLD, Resflor Gold, Norfenicol, Loncor 300
33	Gamithromycin	Zactran
34	Gentomicin	Gentocin
35	Lincomycin	Lincomix Injectable, Lincomycin Injection, LincoMed 100, LincoMed 300
36	Oxytetracycline	Liquamycin LA-200, Agrimycin 100, Agrimycin 200, Bio-Mycin 200, Oxy-Tet 50, Oxy-Tet 100, Oxy-Tet 200, Liquamycin Injectable, Terramycin Injectable, Oxyject, Bio-Mycin, Oxyshot LA, Tetroxy LA, Maxim-200, Duramycin-100, Duramycin-200, Noromycin 300-LA, Oxymycin 100, Oxymycin 200, Pennox™ 100, Pennox 200, Terra-Vet 100, Terra-Vet 200, Vetricin 200
37	Penicillin G Procaine	Norocillin, Aquacillin, Agri-Cillin, Pen-G Max, Crysticillin, Pro-Pen-G, Microcillin-AG,
38	Penicillin G Procaine/ Penicillin G Benzathine	Combi-Pen-48, Combicillin-AG, Tandem-Pen, Dual-Cillin, Pen-BP-48, Dura-biotic, Flo-cillin, Dura-Pen, Duo-Pen, Combicillin
39	Spectinomycin	Adspec, Spectam Injectable
40	Sulfachlorpyridazine	Vetisulid Injection, Prinzone Injection, Pyradan Injection
41	Sulfadimethoxine	Di-methox 40%, Agribon Injection 40%, Albon Injection, SulfaMed
42	Sulfamethazine	Sulmet Injectable
43	Tildipirosin	Zuprevo
44	Tilmicosin	Micotil
45	Tulathromycin	Draxxin
46	Tylosin	Tylan Injectable, Tylan 200, Tylan 50
47	Other	

GUIDE 4: Anthelmintic Reference Card

(for use with VS Visit questionnaire, page 14: Section C, Item 20)

POUR-ON ANTHELMINTIC		
Product Name	Active Ingredient	Class
Agri-Mectin Pour-On	Ivermectin	Avermectins
Bimectin Pour-On	Ivermectin	Avermectins
Cydectin Pour-On	Moxidectin	Avermectins
Dectomax Pour-On	Doramectin	Avermectins
Ecomectin Pour-on	Ivermectin	Avermectins
Eprinex Pour-On	Eprinomectin	Avermectins
Ivermax Pour-On	Ivermectin	Avermectins
Iver-On	Ivermectin	Avermectins
Ivomec Pour-On	Ivermectin	Avermectins
Ivermectin Pour-On	Ivermectin	Avermectins
Noromectin Pour-On	Ivermectin	Avermectins
Privermectin Pour-on	Ivermectin	Avermectins
Promectin B Pour-on	Ivermectin	Avermectins

ORAL-USE ANTHELMINTIC		
Product Name	Active Ingredient	Class
LevaMed Drench	Levamisole	Imidazothiazoles
Levasole Cattle Bolus	Levamisole	Imidazothiazoles
Panacur Paste	Fenbendazole	Benzimidazoles
Panacur Suspension	Fenbendazole	Benzimidazoles
Prohibit Drench	Levamisole	Imidazothiazoles
Safe-Guard Paste	Fenbendazole	Benzimidazoles
Safe-Guard Cattle Drench	Fenbendazole	Benzimidazoles
Safe-Guard Suspension	Fenbendazole	Benzimidazoles
Synanthic Paste	Oxfendazole	Benzimidazoles
Synanthic Suspension	Oxfendazole	Benzimidazoles
Valbazen Drench	Albendazole	Benzimidazoles
Valbazen Suspension	Albendazole	Benzimidazoles

INJECTABLE-USE ANTHELMINTIC		
Product Name	Active Ingredient	Class
Agri-Mectin Injection	Ivermectin	Avermectins
Alverin Plus Injection	Ivermectin / Clorsulon	Avermectins / Benzenesulphonamide
Bimectin Injectable	Ivermectin	Avermectins
Cydectin Injectable	Moxidectin	Avermectins
Dectomax Injectable	Doramectin	Avermectins
Durvet Ivermectin Injection	Ivermectin	Avermectins
Ecomectin Injection	Ivermectin	Avermectins
Ivermax Injection	Ivermectin	Avermectins
Ivomec Injection	Ivermectin	Avermectins
Ivomec Plus Injection	Ivermectin / Clorsulon	Avermectins / Benzenesulphonamide
Levasole Injectable	Levamisole	Imidazothiazoles
Noromectin	Ivermectin	Avermectins
Noromectin Plus	Ivermectin / Clorsulon	Avermectins / Benzenesulphonamide
ProMectin Injection	Ivermectin	Avermectins
Tramisol Injectable	Levamisole	Imidazothiazoles

FEED-USE ANTHELMINTIC		
Product Name	Active Ingredient	Class
Durvet Durafend	Fenbendazole	Benzimidazoles
NutraBlend Fenbendazole	Fenbendazole	Benzimidazoles
Rumatel	Morantel Tartrate	Tetrahydropyrimidine
Safe-Guard 0.5% Alfalfa Pellets	Fenbendazole	Benzimidazoles
Safe-Guard En-Pro-AL Molasses Block	Fenbendazole	Benzimidazoles
Safe-Guard 20% Protein Block	Fenbendazole	Benzimidazoles
Safe-Guard Free Choice Mineral	Fenbendazole	Benzimidazoles
Safe-Guard Type B Medicated Feed	Fenbendazole	Benzimidazoles