

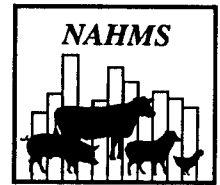


United States  
Department of  
Agriculture  
Animal and  
Plant Health  
Inspection  
Service  
Veterinary  
Services

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O.M.B. Number 0578-0079  
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**Beef Cow/Calf Health  
and Productivity Audit**

National Animal  
Health Monitoring  
System  
555 South Howes,  
Suite 200  
Fort Collins, CO  
80521



# Close-out Production Report

State		Farm Number		VMO Number		Date				
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(MM/DD/YY)

Interview to be conducted between January 1 and January 31, 1994.

**0. From the Beef Breeding Management Report, enter the response to Section 1, question 1j here during the Second Interview.**

Total number of females at the start of the calving season was: . . . . . 3999 \_\_\_\_\_ head

## Section 1 - Inventory and Stock Flow

**1. Of the total cattle and calves on hand as of January 1, 1994, how many were:**

- 1a. beef cows including heifers that have calved? . . . . . 3000 \_\_\_\_\_ head +
- 1b. milk cows, whether dry or in milk, including milk heifers that have calved? . . . 3001 \_\_\_\_\_ head +
- 1c. bulls weaned or older? . . . . . 3002 \_\_\_\_\_ head +
- 1. weaned heifers that had not calved:
  - 1d. for beef cow replacement? . . . . . 3003 \_\_\_\_\_ head +
  - 1e. for milk cow replacement? . . . . . 3004 \_\_\_\_\_ head +
  - 1f. other weaned heifers? . . . . . 3005 \_\_\_\_\_ head +
- 1g. weaned steers? . . . . . 3006 \_\_\_\_\_ head +
- 1h. unweaned heifer, steer, and bull calves (including newborn calves)? . . . . . 3007 \_\_\_\_\_ head +

**2. Then the total number of cattle and calves on hand as of January 1, 1994, was: (should equal 1a + 1b + 1c + 1d + 1e + 1f + 1g + 1h) . . . . . 3008 \_\_\_\_\_ head =**

As previously determined on the Beef Health Report (Section 1, question 3), if the operation does not remove the bull(s) from the breeding herd during the year, skip questions 3 and 4, and go to question 5.

**NAHMS 23  
(OCT 92)**

**Section 1 - Inventory and Stock Flow (continued)**

*Skip questions 3 and 4 if the bulls are not removed from the breeding herd during the year. Go to question 5.*

**3. For the period from the start of the calving season until weaning:**

- 3a. how many of the females (item 0 from previous page) calved? . . . . . 3009 \_\_\_\_\_ head
- 3b. how many calves were born (alive or dead)? . . . . . 3010 \_\_\_\_\_ head +
- 3c. how many of the calves born (item 3b) were born to replacement heifers? . . . 3011 \_\_\_\_\_ head
- 3d. how many of the calves born (item 3b) were born to first calf heifers? . . . . . 3012 \_\_\_\_\_ head
- 3e. how many of the calves born (item 3b) were born to cows? . . . . . 3013 \_\_\_\_\_ head
- 3f. how many of the calves born (item 3b) were born dead? . . . . . 3014 \_\_\_\_\_ head -
- 3g. how many of the calves born (item 3b) died within 24 hours? . . . . . 3015 \_\_\_\_\_ head -

**Prior to weaning, how many:**

- 3h. cow/calf pairs were transferred out? . . . . . 3016 \_\_\_\_\_ pair -
- 3i. cow/calf pairs were transferred in? . . . . . 3017 \_\_\_\_\_ pair +
- 3j. individual calves were transferred out? . . . . . 3018 \_\_\_\_\_ head -
- 3k. individual calves were transferred in? . . . . . 3019 \_\_\_\_\_ head +
- 3l. calves 24 hours and older died or were lost? . . . . . 3020 \_\_\_\_\_ head -

3m. Then the total weaned was: *(Should equal 3b - 3f - 3g - 3h + 3i - 3j + 3k - 3l.)* . 3021 \_\_\_\_\_ head =

*Is this correct? (The response should be YES. If NO, review with the producer and make the appropriate adjustments.)*

**4. For the calves born in the 1993 calving season:**

*(All full-term calves born dead or alive should be included.)*

- 4a. how many calves were born in the first 21 days?. . . . . 3022 \_\_\_\_\_ head +
- 4b. how many calves were born on days 22-42 of the calving season? . . . . . 3023 \_\_\_\_\_ head +
- 4c. how many calves were born on days 43-63 of the calving season? . . . . . 3024 \_\_\_\_\_ head +
- 4d. how many calves were born after the 63rd day of the calving season? . . . . . 3025 \_\_\_\_\_ head +

4e. Then the total of 4a + 4b + 4c + 4d is? *(Should also equal 3b.)* . . . . . 3026 \_\_\_\_\_ head =

**5. How many calves were born in each of the following months?**

- 5a. July 1993 . . . . . 3027 \_\_\_\_\_ head +
- 5b. August 1993 . . . . . 3028 \_\_\_\_\_ head +
- 5c. September 1993 . . . . . 3029 \_\_\_\_\_ head +
- 5d. October 1993 . . . . . 3030 \_\_\_\_\_ head +
- 5e. November 1993 . . . . . 3031 \_\_\_\_\_ head +
- 5f. December 1993 . . . . . 3032 \_\_\_\_\_ head +
- 5g. Then the total number of calves born from July 1 through December 31, 1993, was: *(Should equal 5a + 5b + 5c + 5d + 5e + 5f.)* . . . . . 3033 \_\_\_\_\_ head =

**Section 2 - Marketing**

1. How many calves were weaned in 1993 and what was their total weight and value? (If calves were not sold at weaning, estimate their total weight and total market value at weaning.)

	Number of Head at Weaning	Total Weight at Weaning	Total Value (\$) at Weaning
1a. Bull/steer calves	3034 _____ hd	3038 _____ lbs	3041 \$ _____
1b. Heifer calves (non-replacement)	3035 _____ hd	3039 _____ lbs	3042 \$ _____
1c. Heifer calves for replacement	3036 _____ hd	3040 _____ lbs	3043 \$ _____
1d. Then the total number of calves weaned was:	3037 _____ hd		

2. How many animals of breeding age were sold in 1993 and what was their total weight and value?

	Number of Head	Total Weight	Total Value (\$)
2a. Breeding-age female sales	3044 _____ hd	3046 _____ lbs	3048 \$ _____
2b. Breeding-age bull sales	3045 _____ hd	3047 _____ lbs	3049 \$ _____

3. Of the total number of breeding-age females sold (listed in question 2a), how many were primarily sold for:

3a. pregnancy status (open or aborted)?	3050 _____	head	+
3b. other reproductive problems (other than open or aborted)?	3051 _____	head	+
3c. physical unsoundness (injury or lame)?	3052 _____	head	+
3d. digestive problem?	3053 _____	head	+
3e. respiratory problem?	3054 _____	head	+
3f. udder problem?	3055 _____	head	+
3g. producing poor calves?	3056 _____	head	+
3h. bad eye(s)?	3057 _____	head	+
3i. age/bad teeth?	3058 _____	head	+
3j. temperament?	3059 _____	head	+
3k. economics (drought, market, herd reduction)?	3060 _____	head	+
3l. other	3061 _____	head	+
3m. Then the total of 3a through 3l is? (Should also equal 2a.)	3062 _____	total head	=

4. Of the calves born January 1 through June 30, 1993, and weaned in 1993, approximately what percentage were:

4a. sold during 1993?	3063 _____	%
4b. kept for replacements?	3064 _____	%
4c. kept to graze or feed (stocker, feeder)?	3065 _____	%
4d. kept for other purposes	3066 _____	%
	100%	

**Section 3 - Nutrition**

1. During each of the following months in 1993, how many pounds per head per day (as fed) of each of the following feedstuffs were fed to the cow herd?

Enter Pounds per Head per Day (lb/h/d)

	January	March	May	July	September	November
1a. Hay	<u>      </u> lb/h/d 3067	<u>      </u> lb/h/d 3071	<u>      </u> lb/h/d 3075	<u>      </u> lb/h/d 3079	<u>      </u> lb/h/d 3083	<u>      </u> lb/h/d 3087
1b. Silage	<u>      </u> lb/h/d 3068	<u>      </u> lb/h/d 3072	<u>      </u> lb/h/d 3076	<u>      </u> lb/h/d 3080	<u>      </u> lb/h/d 3084	<u>      </u> lb/h/d 3088
1c. Supplements	<u>      </u> lb/h/d 3069	<u>      </u> lb/h/d 3073	<u>      </u> lb/h/d 3077	<u>      </u> lb/h/d 3081	<u>      </u> lb/h/d 3085	<u>      </u> lb/h/d 3089
1d. Grain	<u>      </u> lb/h/d 3070	<u>      </u> lb/h/d 3074	<u>      </u> lb/h/d 3078	<u>      </u> lb/h/d 3082	<u>      </u> lb/h/d 3086	<u>      </u> lb/h/d 3090

2. During the following months in 1993, did the cow herd have access to pasture? (Circle 1 for YES or 3 for NO for each item.)

		Y	N
2a. January	3091	<u>1</u>	<u>3</u>
2b. March	3092	<u>1</u>	<u>3</u>
2c. May	3093	<u>1</u>	<u>3</u>
2d. July	3094	<u>1</u>	<u>3</u>
2e. September	3095	<u>1</u>	<u>3</u>
2f. November	3096	<u>1</u>	<u>3</u>

3. During the following months in 1993, did the cow herd have access to crop residues? (Circle 1 for YES or 3 for NO for each item.)

3a. January	3097	<u>1</u>	<u>3</u>
3b. March	3098	<u>1</u>	<u>3</u>
3c. May	3099	<u>1</u>	<u>3</u>
3d. July	3100	<u>1</u>	<u>3</u>
3e. September	3101	<u>1</u>	<u>3</u>
3f. November	3102	<u>1</u>	<u>3</u>

**Section 3 - Nutrition (continued)**

**4. In the last 12 months, did cattle from this operation:**

*(Circle 1 for YES or 3 for NO for each item.)*

Y N

4a. graze on public lands? . . . . . 3103 1 3

4b. graze in a grazing association? . . . . . 3104 1 3

**5. Which of the following water sources do cows have access to during the following months?**

*(Enter 1 for each applicable item, leave all others blank.)*

	January	April	July	October
<b>5a. Tank or trough</b>	3105 _____	3110 _____	3115 _____	3120 _____
<b>5b. Automatic waterer</b>	3106 _____	3111 _____	3116 _____	3121 _____
<b>5c. River/stream</b>	3107 _____	3112 _____	3117 _____	3122 _____
<b>5d. Pond/lake</b>	3108 _____	3113 _____	3118 _____	3123 _____
<b>5e. Other</b>	3109 _____	3114 _____	3119 _____	3124 _____

**Section 4 - Death Loss and Health Concerns**

1. How many calves weighing less than 500 pounds died or were lost from all causes during 1993? . . . . . 3125 \_\_\_\_\_ head
  
2. Of these calves (in question 1), how many died or were lost due to:
  - 2a. digestive problems (eg., bloat, scours, parasites)? . . . . . 3126 \_\_\_\_\_ head +
  - 2b. respiratory problems (eg., pneumonia, shipping fever)? . . . . . 3127 \_\_\_\_\_ head +
  - 2c. weather (eg., lightning, drowning, chilling)? . . . . . 3128 \_\_\_\_\_ head +
  - 2d. calving problems? . . . . . 3129 \_\_\_\_\_ head +
  - 2e. poisoning (eg., nitrates, fescue, noxious weeds, feed)? . . . . . 3130 \_\_\_\_\_ head +
  - 2f. predators? . . . . . 3131 \_\_\_\_\_ head +
  - 2g. theft? . . . . . 3132 \_\_\_\_\_ head +
  - 2h. other known causes (eg., lameness)? . . . . . 3133 \_\_\_\_\_ head +
  - 2i. unknown causes? . . . . . 3134 \_\_\_\_\_ head +
  - 2j. Then the total of 2a through 2i is? (Should equal question 1.) . . . . . 3135 \_\_\_\_\_ total head =
  
3. How many cattle weighing 500 pounds or more died or were lost from all causes during 1993? . . . . . 3136 \_\_\_\_\_ head
  
4. Of these cattle (in question 3), how many died or were lost due to:
  - 4a. digestive problems (eg., bloat, scours, parasites)? . . . . . 3137 \_\_\_\_\_ head +
  - 4b. respiratory problems (eg., pneumonia or shipping fever)? . . . . . 3138 \_\_\_\_\_ head +
  - 4c. weather (eg., lightning, drowning, chilling)? . . . . . 3139 \_\_\_\_\_ head +
  - 4d. calving problems? . . . . . 3140 \_\_\_\_\_ head +
  - 4e. poisoning (eg., nitrates, fescue, noxious weeds, feed)? . . . . . 3141 \_\_\_\_\_ head +
  - 4f. predators? . . . . . 3142 \_\_\_\_\_ head +
  - 4g. theft? . . . . . 3143 \_\_\_\_\_ head +
  - 4h. other known causes (eg., old age, lame)? . . . . . 3144 \_\_\_\_\_ head +
  - 4i. unknown causes? . . . . . 3145 \_\_\_\_\_ head +
  - 4j. Then the total of 4a through 4i is? (Should equal question 3.) . . . . . 3146 \_\_\_\_\_ total head =

**Section 4 - Death Loss and Health Concerns (continued)**

Have the producer rate statements 5 and 6.

5. The following health conditions had a significant economic impact on this cow/calf operation in the last 12 months. Consider the cost of prevention, cost of treatment, and lost production. (Circle 1 code only for each item.)

	Strongly Agree	Agree	Disagree	Strongly Disagree	No Opinion
<b>Parasites</b>					
5a. Internal . . . . .	.3147 1	2	3	4	9
5b. External (flied, lice, ticks, grubs) . . . . .	.3148 1	2	3	4	9
<b>Digestive</b>					
5c. Calf scours . . . . .	.3149 1	2	3	4	9
5d. Bloat . . . . .	.3150 1	2	3	4	9
5e. Ulcers (abomasal/stomach) . . . . .	.3151 1	2	3	4	9
5f. Coccidiosis . . . . .	.3152 1	2	3	4	9
<b>Reproductive</b>					
5g. Open/late calvers . . . . .	.3153 1	2	3	4	9
5h. Abortion . . . . .	.3154 1	2	3	4	9
5i. Weak calves . . . . .	.3155 1	2	3	4	9
5j. Retained placenta/uterine infection . . . . .	.3156 1	2	3	4	9
<b>Respiratory</b>					
5k. Calf pneumonia/shipping fever . . . . .	.3157 1	2	3	4	9
5l. Cow asthma . . . . .	.3158 1	2	3	4	9
<b>Plant-related</b>					
5m. Fescue . . . . .	.3159 1	2	3	4	9
5n. Nitrate . . . . .	.3160 1	2	3	4	9
5o. Larkspur . . . . .	.3161 1	2	3	4	9
5p. Other . . . . .	.3162 1	2	3	4	9
<b>Other</b>					
5q. Pinkeye . . . . .	.3163 1	2	3	4	9
5r. Foot rot . . . . .	.3164 1	2	3	4	9
5s. White muscle disease (selenium/vitamin E deficiency) . . . . .	.3165 1	2	3	4	9
5t. Copper deficiency . . . . .	.3166 1	2	3	4	9
5u. Anaplasmosis . . . . .	.3167 1	2	3	4	9
5v. Grass tetany . . . . .	.3168 1	2	3	4	9

6. The following conditions are significant problems for the beef cattle industry of the U.S. (Circle 1 code only for each item.)

	Strongly Agree	Agree	Disagree	Strongly Disagree	No Opinion
6a. Tuberculosis . . . . .	.3169 1	2	3	4	9
6b. Brucellosis . . . . .	.3170 1	2	3	4	9
6c. Trichomoniasis . . . . .	.3171 1	2	3	4	9
6d. Johnes disease (paratuberculosis) . . . . .	.3172 1	2	3	4	9
6e. Bovine leukemia virus infection . . . . .	.3173 1	2	3	4	9

**Section 5 - Health Management**

1. During the last 12 months, what percentage of calves were affected by the following conditions?

	Birth to 21 Days	22 Days through 4 Months	Over 4 Months until Weaning
1a. Scours/diarrhea	3174 _____ %	3178 _____ %	3182 _____ %
1b. Respiratory disease	3175 _____ %	3179 _____ %	3183 _____ %
1c. Pinkeye	3176 _____ %	3180 _____ %	3184 _____ %
1d. Foot rot	3177 _____ %	3181 _____ %	3185 _____ %

2. During the last 12 months, what percentage of cows and replacement heifers were affected by the following conditions:

	Cows	Replacement Heifers
2a. Respiratory disease	3186 _____ %	3194 _____ %
2b. Diarrhea	3187 _____ %	3195 _____ %
2c. Pinkeye	3188 _____ %	3196 _____ %
2d. Foot rot	3189 _____ %	3197 _____ %
2e. Cancer eye	3190 _____ %	3198 _____ %
2f. Mastitis	3191 _____ %	3199 _____ %
2g. Retained placenta or uterine infection	3192 _____ %	3200 _____ %
2h. Abortion	3193 _____ %	3201 _____ %

3. In the last 12 months, when injections (vaccine, antibiotic, injectable dewormer, injectable minerals or vitamins) were given on this operation by the owner(s) or employees, what percentage were given by the following routes and what was the primary site of injection? (Enter a percentage for each item. For percentages over zero, enter one code indicating the primary site of injection.)

- |                    |     |                          |     |
|--------------------|-----|--------------------------|-----|
| Shoulder (site A)  | = 1 | Rump along tail (site E) | = 5 |
| Side/rib (site B)  | = 2 | Head (site F)            | = 6 |
| Upper hip (site C) | = 3 | Neck (site G)            | = 7 |
| Lower hip (site D) | = 4 |                          |     |

	Percentage	Primary Site
3a. In the muscle or IM	3202 _____ %	3205 _____
3b. Under the skin or sub Q	3203 _____ %	3206 _____
3c. Other	3204 _____ %	3207 _____
	100 %	

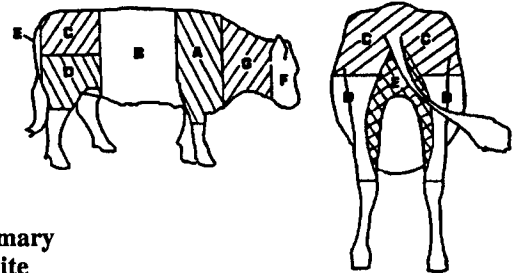
**See the diagram on the next page for site locations.**



**Section 5 - Health Management (continued)**

4. In the last 12 months, when the herd veterinarian gave injections (vaccine, antibiotic, injectable dewormer, injectable minerals or vitamins), what percentage were given by the following routes and what was the primary site of injection?  
 (Enter a percentage for each item. For percentages over zero, enter one code indicating the primary site of injection.)

- Shoulder (site A) = 1
- Side/rib (site B) = 2
- Upper hip (site C) = 3
- Lower hip (site D) = 4
- Rump along tail (site E) = 5
- Head (site F) = 6
- Neck (site G) = 7



	Percentage	Primary Site
4a. In the muscle or IM	3208 _____ %	3211 _____
4b. Under the skin or sub Q	3209 _____ %	3212 _____
4c. Other	3210 _____ %	3213 _____
	100 %	

5. Are unweaned calves on this operation hide-branded?  
 (Enter 1 for YES or 3 for NO.) . . . . . 3214 \_\_\_\_\_

5a. If YES, what is the location of the brand(s) and the percentage of animals branded? (Enter a 1 for each location used, and for each location used, enter the percentage of animals branded at that location.)

	Location Used	Unweaned Heifers %	Unweaned Steers/bulls %
Shoulder (site A)	3215 _____	3222 _____	3229 _____
Side/rib (site B)	3216 _____	3223 _____	3230 _____
Upper hip (site C)	3217 _____	3224 _____	3231 _____
Lower hip (site D)	3218 _____	3225 _____	3232 _____
Rump along tail (site E)	3219 _____	3226 _____	3233 _____
Head (site F)	3220 _____	3227 _____	3234 _____
Neck (site G)	3221 _____	3228 _____	3235 _____

Public reporting burden for this collection of information is estimated to average .25 hours 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. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Department of Agriculture, Clearance Officer, OIRM, Room 404-W, Washington, D.C. 20250; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C. 20503.

PDQ 3901 \_\_\_\_\_  
 FDQ 3902 \_\_\_\_\_

## Section 5 - Health Management (continued)

6. Enter 1 for each vaccine used in the last 12 months for the following classes of cattle.  
(Leave all others blank.)

	Calves 1 to 21 Days	Calves 22 Days to Weaning	Repl. Heifers Weaning thru Breeding	Repl. Heifers After Breeding to Calving	Cows	Bulls
<b>GENERAL (Resp &amp;/or Repr)</b>						
IBR (Rednose, infectious bovine rhinotracheitis)	3300	3400	3500	3600	3700	3800
BVD (bovine viral diarrhea)	3301	3401	3501	3601	3701	3801
<i>Hemophilus somnus</i>	3302	3402	3502	3602	3702	3802
<b>RESPIRATORY</b>						
PI3 (parainfluenza virus)	3303	3403	3503	3603	3703	3803
BRSV (bovine respiratory syncytial virus)	3304	3404	3504	3604	3704	3804
Pasteurella	3305	3405	3505	3605	3705	3805
<b>REPRODUCTIVE</b>						
<i>Brucella abortus</i>		3406	3506			
<i>Leptospira</i>		3407	3507	3607	3707	3807
<i>Campylobacter (vibrio)</i>			3508	3608	3708	3808
Trichomoniasis			3509	3609	3709	3809
<b>CLOSTRIDIAL</b>						
<i>C. perfringens</i> C and D (enterotoxemia, overeating)	3310	3410	3510	3610	3710	3810
<i>C. chauvoci</i> (blackleg)	3311	3411	3511	3611	3711	3811
<i>C. septicum</i> (malignant edema)	3312	3412	3512	3612	3712	3812
<i>C. sordeli</i>	3313	3413	3513	3613	3713	3813
<i>C. haemolytica</i> (redwater)	3314	3414	3514	3614	3714	3814
<i>C. novyi</i> (black's disease)	3315	3415	3515	3615	3715	3815
<i>C. tetani</i> (tetanus)	3316	3416	3516	3616	3716	3816
<b>DIGESTIVE</b>						
Rota/Corona	3317	3417	3517	3617	3717	3817
<i>E. coli</i>	3318	3418	3518	3618	3718	3818
Salmonella	3319	3419	3519	3619	3719	3819
<b>OTHER</b>						
Anaplasmosis		3420	3520	3620	3720	3820
Anthrax	3321	3421	3521	3621	3721	3821
<i>Moraxella bovis</i> (Pinkeye)		3422	3522	3622	3722	3822
Rabies virus		3423	3523	3623	3723	3823
Wart virus	3324	3424	3524	3624	3724	3824