

Dairy 2007 Animal Assessments Collection Record



National Animal Health
Monitoring System

2150 Centre Ave Bldg B
Fort Collins, CO 80526

Form Approved
OMB Number 0579-0205
Approval expires: 4/30/10

| State FIPS: | Operation #: | Collector: | Date: |
|--|--------------|---------------|---------------------------------|
| How many people in each category helped with any part of these assessments? _____ Fed VMO _____ Fed AHT _____ State Gov't _____ Producer _____ Other (specify in margin) | | | |
| Including everyone's time, how many minutes did it take to conduct the | | | |
| Heifer Calf Growth Assessment? | | _____ minutes | (if not done, check here _____) |
| Cow Comfort Assessment? | | _____ minutes | (if not done, check here _____) |
| Hygiene and Hock Scoring? | | _____ minutes | (if not done, check here _____) |



This portion of the NAHMS Dairy '07 survey consists of several assessments for calf growth, animal health, and cow comfort.

You will complete the following pages. The results of this data collection will be summarized in a Producer report that will provide a measure of health and comfort of the cow and may highlight aspects of the cows' environment that can be modified to improve cow health and comfort. The calf growth assessment will provide a measure of preweaning nutrition and a comparison for calves of the same age can be made to industry recommendations.

This Animal Assessments Collection Record consists of the following:

Heifer Calf Growth Assessment

Up to 30 heifer calves will be measured using a calf weight / growth tape.

Cow Comfort Assessment

Questions regarding fresh cow housing areas and measurements will be recorded and assessed. Ideally complete approximately 2 hours prior to milking.

Hygiene and Hock Scoring

The hygiene of udder, legs, and flanks and the condition of hocks will be scored on a maximum of 100 cows.

Do the Assessments in this order for biosecurity in the calf area.

According to the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0579-0205. The time required to complete this information collection is estimated to average 1.5 hours per response, including the time to review instructions, search existing data resources, gather the data needed, and complete and review the information collected.

**NAHMS-193
JAN 2007**

State/Farm ID: _____

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State/Farm ID: _____

Dairy 2007 – Heifer Calf Growth Assessment



NOTE: Do the Heifer Calf Blood Sampling while in the calf area to maintain biosecurity.

Measure a maximum of 30 preweaned calves; 10 in each of the following age groups: 1-30 days 31-60 days 61 days to weaning

- 1) Record the Sample ID, Breed, and Birth Date on the form.
- 2) Using the weight tape, estimate and record the weight (pounds) and the heart girth (inches).
- 3) Using the weight tape, estimate the wither height (inches).
- 4) Score a maximum of 10 calves in each age category.

| Calves 1 – 30 Days of Age | | | | | |
|---------------------------|--|--------------------------|-----------------------------------|----------------------------|------------------------------|
| Calf ID | Breed 1=Holstein, 2=Jersey 3=Guernsey, 4=Brown Swiss, 5=Other (specify) | Birth Date (MM/DD/YY) | Weight (From tape) (Pounds) | Heart Girth (Inches) | Wither Height (Inches) |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
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| | | | | | |
| | | | | | |
| | | | | | |

Leave the weight tape with the Producer.

REST OF TABLES ON BACK OF THIS PAGE

State/Farm ID: _____

A tally sheet is provided on the bottom of page 7 so the following 4 questions and Question 29 can be answered in a single pass of the pen.

18. How many cows are currently perching (front hooves touching stall) in a freestall?... + _____ cows
19. How many cows are currently standing (all hooves touching stall) in a freestall? + _____ cows
20. How many cows are currently lying in a freestall?..... + _____ cows
21. The total number of cows currently contacting a freestall is (18+19+20)? = _____ cows
22. What is the total bunk space (in feet)? _____ feet
23. What is the **length** of the pen (in feet)? (may be the same as Question 22) _____ feet
24. What is the **width** of the pen (in feet)? _____ feet
25. Which of the following best describes the **stall / pen base** (surface under the bedding) of the pen / stall where cows lie: (*Check one only.*)
- ₁ Concrete ₃ Rubber mat ₅ Waterbed
- ₂ Dirt ₄ Mattress ₆ Other (specify: _____)
26. What **bedding** is present in the stalls / pen today? (*Check one only.*)
- ₁ Straw ₄ Coarse Sand ₇ Shredded newspaper
- ₂ Sawdust ₅ Composted manure ₈ Other (specify: _____)
- ₃ Fine Sand ₆ Dried manure ₉ None
27. Which of the following best describes the **bedding quantity / stall condition** in the majority of stalls / pen?
- ₁ Freestall / pen base not exposed, bedding level with curb
- ₂ Freestall / pen base not exposed, but bedding slightly dished out
- ₃ Freestall / pen base is exposed (*less than 50% exposed*)
- ₄ Freestall / pen base is mostly exposed (*more than 50% exposed*)
- ₅ No bedding present
- ₆ Other (specify: _____)
28. How many of the following types of **water sources** are available in the pen?
- a. Individual cow cups or bowls #
- b. Water troughs or tanks #
- c. Other Specify _____) #

If building is not a freestall barn, Questionnaire completed!

29. How many freestalls are present in the pen? stalls

See the diagram outlining the freestall measurements on page 8

30. Measure the **width** of the curb (in inches)?..... inches
31. Measure the **height** of the curb (in inches) from the alleyway surface? inches
32. Measure the **width** of the freestall (in inches) from the inside edge of the loops at the point closest to where the loops attach for 4 representative stalls:
1. _____ inches 2. _____ inches 3. _____ inches 4. _____ inches
33. Is a **neck rail** present? ₁ Yes ₃ No

If Question 33='NO', skip to Question 37

34. Is the **neck rail** stationary (i.e. firmly attached to the loops)? ₁ Yes ₃ No

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35. Measure the **distance** (in inches) from the back edge of the neck rail to the rear of the curb (in the center of the stall) for **4** representative stalls?
 1. _____ inches 2. _____ inches 3. _____ inches 4. _____ inches
36. Measure the **distance** (in inches) from the lower edge of the neck rail to the bedding surface (in the center of the stall) for **4** representative stalls?
 1. _____ inches 2. _____ inches 3. _____ inches 4. _____ inches
- 37 Is a **brisket locator** (board) present?..... 1 Yes 3 No

If Question 37='NO', skip to Question 41

38. What type of material is the **brisket locator**? (*Check one only.*)
₁ Concrete ₃ PVC pipe
₂ Wood ₄ Other (specify: _____)
39. Measure the **distance** (in inches) from the back edge of the brisket locator to the rear of the curb for **4** representative stalls?
 1. _____ inches 2. _____ inches 3. _____ inches 4. _____ inches
40. What is the **length** (in inches) from rear of curb to front of lunge space (post, etc where the loops attach) for **4** representative stalls?
 1. _____ inches 2. _____ inches 3. _____ inches 4. _____ inches
41. Is there a barrier in the front of the stall that restricts lunge space? 1 Yes 3 No

If Question 41='NO', Questionnaire completed!

42. What type of barrier is present that restricts the front lunge space? (*Check one only.*)
₁ Concrete ₃ Cable
₂ Wood ₄ Other (specify: _____)

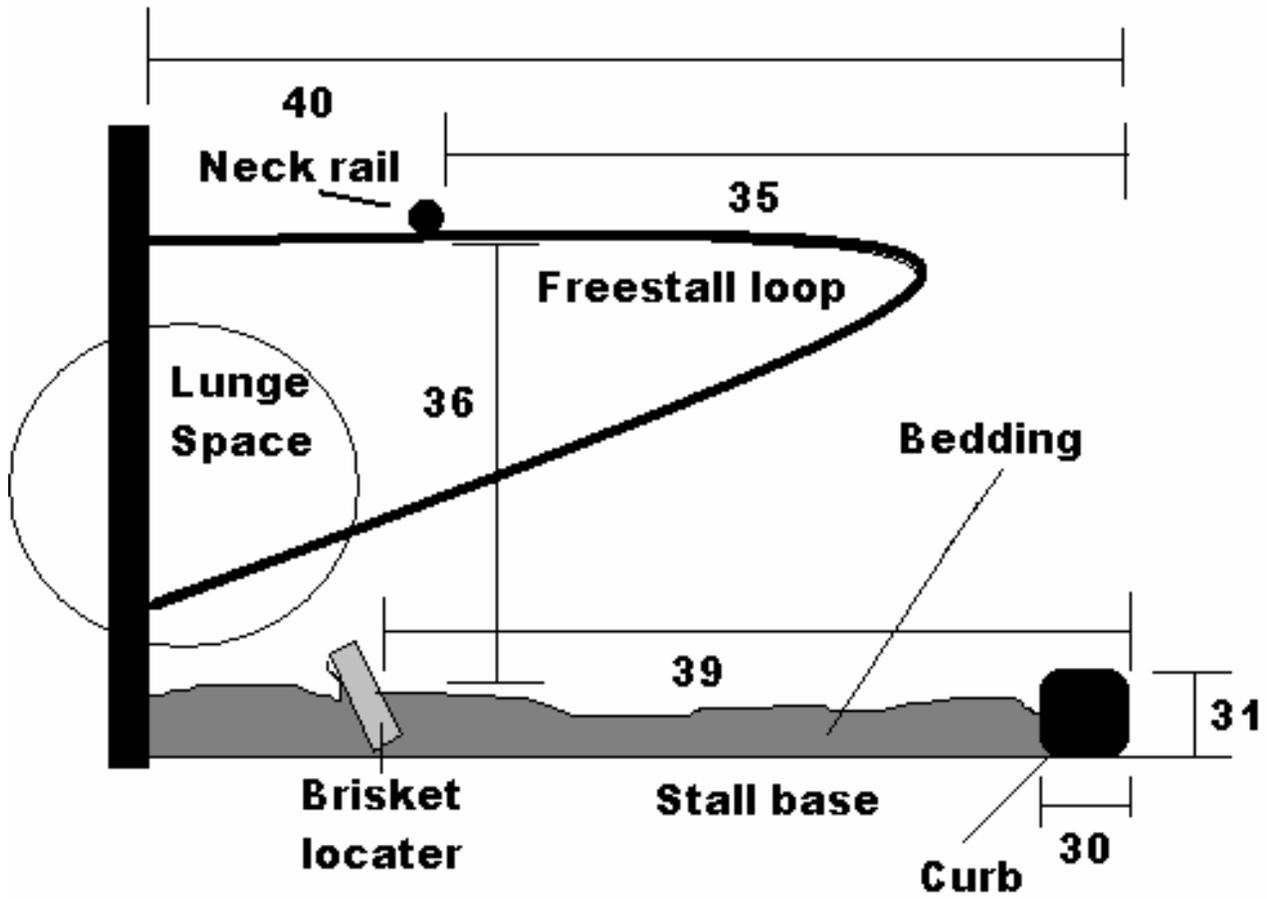
End of Freestall /Drylot / Multiple-animal Pen Questionnaire

Freestall Tally Worksheet

| Perching Cows | Standing Cows | Lying Cows | Empty Stalls |
|---------------|---------------|------------|--------------|
| | | | |
| Total | Total | Total | Total |

Freestall Measurement Diagram

(Numbers in Diagram refer to Question number)



State/Farm ID: _____

17. Which of the following best describes the **bedding quantity** / stall condition in the majority of stalls / pen?
- ₁ Stall / pen base not exposed, bedding level with curb
 - ₂ Stall / pen base not exposed, but bedding slightly dished out
 - ₃ Stall / pen base is exposed (*less than 50% exposed*)
 - ₄ Stall / pen base is mostly exposed (*more than 50% exposed*)
 - ₅ No bedding present
 - ₆ Other (specify: _____)

If building is a tie stall or stanchion barn, skip to Question 19!

18. What is the average bunk space (in inches)?..... _____ inches
19. Measure (on center) the **width** of 4 representative stalls / pens and record in inches:
1. _____ inches 2. _____ inches 3. _____ inches 4. _____ inches
20. Measure the **length** of 4 representative stalls / pens and record in inches:
1. _____ inches 2. _____ inches 3. _____ inches 4. _____ inches

If an individual animal pen, questionnaire completed!

21. Does this operation use **gutter grates**? ₁ Yes ₃ No
If **Yes**, what percent of stalls have a gutter grate behind them? _____%
22. Does this operation use cow trainers?..... ₁ Yes ₃ No

If Question 22='No', questionnaire completed!

23. Measure the **distance** (in inches) from the stall edge of gutter to the point on the bed directly below the electric trainer for **4** representative stalls:
1. _____ inches 2. _____ inches 3. _____ inches 4. _____ inches
24. Measure the **distance** (in inches) from the cow trainer to the bedding surface (in the center of the stall) for **4** representative stalls:
1. _____ inches 2. _____ inches 3. _____ inches 4. _____ inches

End of Tie Stall / Stanchion / Individual-animal Pen Questionnaire

Dairy 2007 – Hygiene and Hock Scoring



Using the scoring tables on the back of this page, score the legs, udders, flank, and hocks of a maximum of 100 cows making a tick mark for each as you go through the pen.

- ✓ If less than 100 cows on dairy, score all cows
- ✓ Score 25% of larger herds up to a maximum of 100 cows within 3-4 pens.

| Pen: 14 | | |
|---------|----------------|-------------|
| SCORE | Hygiene Scores | Hock Scores |
| 1 | | |
| Total | 15 | 15 |
| 2 | | |
| Total | 10 | 15 |
| 3 | | |
| Total | 5 | 0 |

Record the highest score for each cow. Example, if a cow scores a 2 on one side and a 3 on the other, record the 3.

| | |
|--|---|
| <p>Hygiene scoring evaluates udder, legs and flank.</p> <p>1 – Little or no manure present</p> <p>2 – Minor amounts of manure present</p> <p>3 – Moderate / large amounts of manure present</p> | <p>Hock scoring will hock area.</p> <p>1 – No swelling or hair loss (no lesion)</p> <p>2 – Hair loss, but no evidence of swelling (mild lesion)</p> <p>3 – Swelling and /or ulceration (severe lesion)</p> |
|--|---|

Scoring Tables on back of this page

State/Farm ID: _____

| Total Scores | Hygiene Scores | Hock Scores |
|--------------|----------------|-------------|
| 1 | | |
| 2 | | |
| 3 | | |
| Total | | |

← Complete this Total Score Table

| Pen: | | | Pen: | | |
|-------|----------------|-------------|-------|----------------|-------------|
| SCORE | Hygiene Scores | Hock Scores | SCORE | Hygiene Scores | Hock Scores |
| 1 | | | 1 | | |
| Total | | | Total | | |
| 2 | | | 2 | | |
| Total | | | Total | | |
| 3 | | | 3 | | |
| Total | | | Total | | |

| Pen: | | | Pen: | | |
|-------|----------------|-------------|-------|----------------|-------------|
| SCORE | Hygiene Scores | Hock Scores | SCORE | Hygiene Scores | Hock Scores |
| 1 | | | 1 | | |
| Total | | | Total | | |
| 2 | | | 2 | | |
| Total | | | Total | | |
| 3 | | | 3 | | |
| Total | | | Total | | |

Heifer Calf Growth and Height Charts for Producer

Figure 1. Weight by Month of Age—U.S. Holsteins

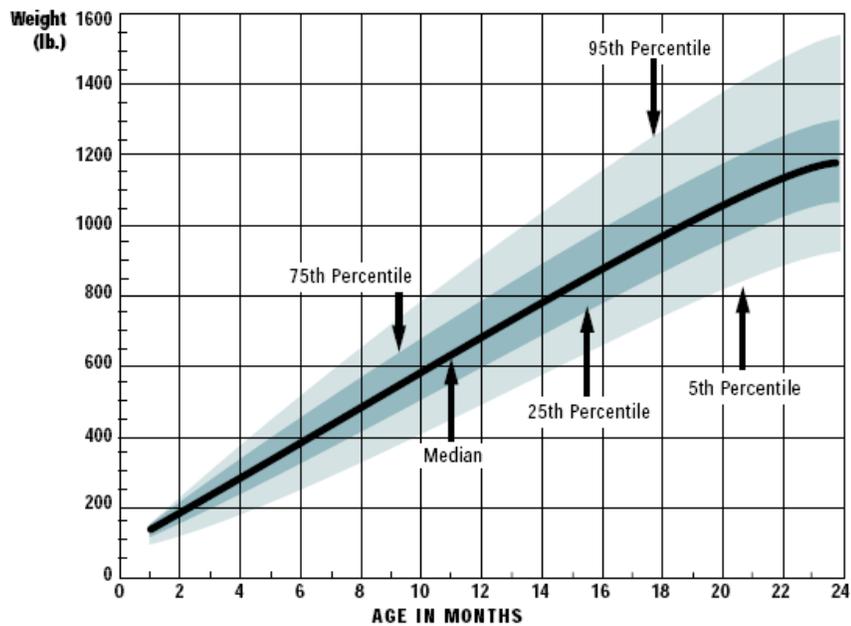
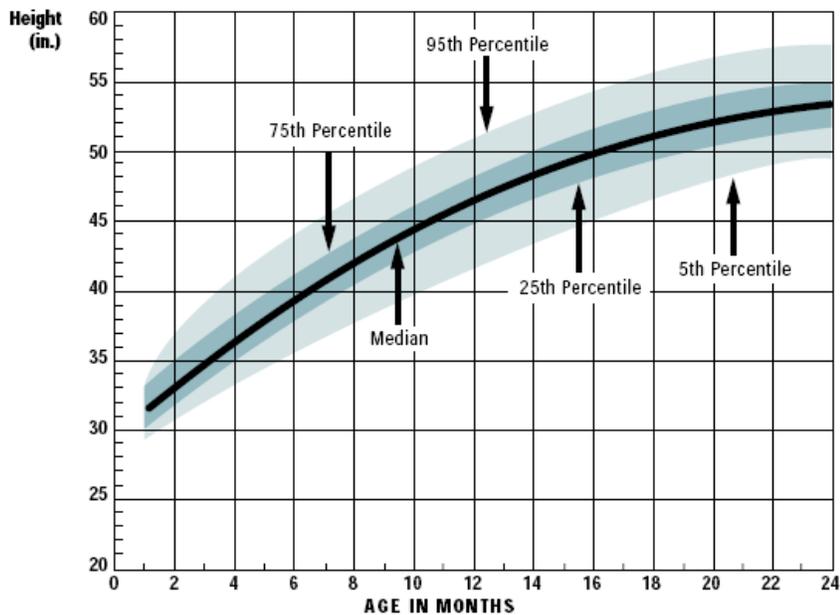


Figure 2. Height by Month of Age—U.S. Holsteins



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Adapted from Monitoring Dairy Heifer Growth Publication

Penn State University – College of Agricultural Sciences

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<https://extension.psu.edu > monitoring-dairy-heifer-growth>