

Dairy Cattle Career Development Event

Mark the best answer in the proper blank on the Scantron sheet.

25 Objective Questions – 2 pts. each

1. Linear type traits can help you breed a more profitable herd through the selection of better bulls. Understanding linear type trait can help you.
 - a. identify the most important traits.
 - b. set realistic genetic goals for each trait.
 - c. select a better group of mating sires.
 - d. all of the above.

2. Washing the udder prior to milking stimulates the release of _____ which induces milk letdown.
 - a. adrenaline
 - b. testosterone
 - c. oxytocin
 - d. estrogen

3. The following is a list of Heritabilities of Holstein Association USA type traits (h^2): stature .42, rear udder width .23, foot angle .15, strength .31.
Based on the heritability values which trait should show the fastest genetic progress.
 - a. stature
 - b. rear udder width
 - c. foot angle
 - d. strength

4. This substance forms in the tip of each teat when the cow is dry. It aids in sealing the teats to prevent infection of the udder.
 - a. mucus
 - b. keratin
 - c. skin
 - d. opaque

5. In the udder, the milk is formed in tiny sacs known as _____.
 - a. alveoli
 - b. mammary sacs
 - c. lobules
 - d. udder cisterns

6. bST (bovine Somatotrin) has been shown to increase milk production...
 - a. however injections of bST have also been shown to increase bST levels in the milk.
 - b. and does not affect the chemical composition of the milk
 - c. and dramatically increase profitability
 - d. improve a cow's ability to breed back.

7. % DBH is...
 - a. an estimate of dystocia in cows.
 - b. the amount of pedigree and progeny information used in calculating the evaluation of Difficult Births
 - c. the estimate of the number of Difficult Births Heritability observed.
 - d. the estimate of the Percentage of Difficult Births in Heifers when they calve the first time.

8. What nutrient supplies the majority of energy in a cow's ration?
 - a. minerals
 - b. water
 - c. protein
 - d. carbohydrate

9. Ruminants are unique because of their ability to utilize cheaper sources of roughage as...
 - a. protein supplements
 - b. nitrogen
 - c. protein
 - d. energy

10. Proteins are composed of carbon, hydrogen, oxygen and _____. Bacteria in the ruminant gut can utilize sources of this chemical element to build protein. This helps explain why ruminants can utilize non-protein feedstuffs, such as urea, which are of low value to monogastrics.
 - a. Carbon
 - b. Sulfur
 - c. Nitrogen
 - d. Phosphorus

11. Pedigree analysis of bulls can be used as an indicator of which sires are having a large contribution to the specific breed. The percent of genes two related bulls have in common depends on how many generations separate them. For example, on the average 50% of a bull's genes are identical to his sire. On average what % of a sire's genes are identical to its great grandsire?
 - a. 50 %
 - b. 25 %
 - c. 12.5 %
 - d. less than 5 %

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12. Off-flavors in milk can be caused because odors can be absorbed by...
- fat globules in the milk.
 - teat sphincter muscles.
 - casein in the milk.
 - tissue linings of the teat cistern.
13. Which of the following is not an effective means of controlling off-flavors in milk?
- provide clean, dry bedding for cows
 - control mastitis
 - provide adequate ventilation in dairy facilities
 - select sires which are low in this trait
14. How soon after calving should cows be re-bred?
- 21-30 days
 - 50-70 days
 - 305 days
 - 365 days
15. The _____ combines the PTA values for Protein, Fat, Udder Composite, and Feet and Legs into one numeric value.
- TPI (Total Production Index)
 - PTAC (Predicted Transmitting Ability Cumulative score)
 - MACE (Multiple-Trait Across Country Evaluation)
 - PPA (Predicted Producing Ability)
16. The primary reason for high bacteria counts in milk is...
- cows with mastitis.
 - dirty stalls and lots
 - poor cleaning of equipment
 - dirty milker's hands
17. To optimize milk let down and maximize milk production, milker units should be attached _____ after the start of udder and teat stimulation>
- 0-15 seconds
 - 45-60 seconds
 - 3 min.
 - 5 min.
18. Which part of the body secretes bovine somatotropin?
- pituitary
 - liver
 - lymph nodes
 - none, it must be injected.
19. The productive life of a typical cow is....
- 3-6 months.
 - 3-4 years
 - 7-8 years
 - 10-11 years.
20. Heifers should be bred so they calve at what age?
- 13-15 months
 - 21-24 months
 - 27-30 months
 - 30-33 months
21. Cattle can make their own Vitamin _____ if they are exposed to direct sunlight
- A
 - B
 - C
 - D
22. This compartment of the ruminant stomach is called a "true" stomach and functions similarly to a monogastric's stomach.
- rumen
 - reticulum
 - abomasum
 - omasum
23. Retained placenta (retained fetal membranes) can lead to...
- mastitis
 - metritis
 - hardware disease
 - displaced abomasum
24. Which of the following best describes an ovarian cyst?
- pituitary
 - viral
 - follicular
 - pancreatic

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25. The number one reason for poor reproductive performance is poor:
- a. semen quality b. semen extender c. records d. inseminators

DHIA Questions – 5 pts. Each

Refer to the **DHIA Herd Summary** to answer the following questions.

26. What is the last recorded rolling herd average milk production for this herd?
a. 16,700 b. 17,625 c. 21,766 d. 20716
27. What is the average milk protein % of the second lactation cows?
a. 2.4 b. 2.7 c. 2.9 d. 3.3
28. How many cows are expected to be milking in March?
a. 20 b. 18 c. 17 d. 16
29. What percent of the herd was pred to proven A.I. sires?
a. 4 % b. 7 % c. 64 % d. 86 %
30. What is the daily average per cow per day income over feed cost?
a. \$7.29 b. \$2.67 c. \$4.93 d. \$4.62

Dairy Management Problems – 5 pts. Each

31. A load of hay consisting of large square bales averaging 1000 lbs./bale costs \$52.00 per bale. What is the cost of one ton of this hay?
a. \$52.00 b. \$104.00 c. \$110.00 d. \$144.00
32. You can purchase corn from four different producers. The following information shows the cost per bushel and the respective protein contents:
- | | | |
|------------------|----------------|---------------|
| Farmer A's Corn: | \$2.00 per bu. | 8 % protein |
| Farmer B's Corn: | \$2.10 per bu. | 9 % protein |
| Farmer C's Corn: | \$1.95 per bu. | 7.5 % protein |
| Farmer D's Corn: | \$1.75 per bu. | 7 % protein |
- If protein is your most expensive nutritional input, which corn is a better value?
a. Farmer A's Corn b. Farmer B's Corn c. Farmer C's Corn d. Farmer D's Corn
33. A 1400 pound cow is fed a total mixed ration that is 30 % moisture. Assuming she can physically consume 3.5 % of her body weight in dry matter, how much of this ration can she consume daily?
a. 14.7 lbs. b. 49 lbs. c. 70 lbs. d. 490 lbs.
34. You grind a 13 % protein ration by grinding 7% protein corn and 44 % protein soybean meal. Assuming that corn is \$2.00 per bushel and SBM is \$175 per ton, what is the cost per ton of this ration?
a. \$88.23 b. \$95.35 c. \$101.32 d. \$156.23
35. How much additional income would be generated for a producer selling 150,000 lbs of milk if they decreased their average SCC from 450,000 SCC to 150,000 SCC?
Assume an adjustment of \$0.01 per cwt. for every 10,000 SCC below 400,000.
a. \$450 b. \$1350 c. \$1400 d. \$3000

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Sire Evaluation Questions – 5 pts. Each

REFER TO APPENDIX B to answer the following pedigree questions

36. If a herd owners primary selection objective was to increase pounds of protein produced then the first choice of sire service would be:
- Windsor-Manor Machoman
 - Diamond-Oak Duster Dante
 - Altagen-I Merchant
 - Eastview NBO Revenue Mattie
37. Which bull has a Reliability of less than 65% for production?
- Windsor-Manor Machoman
 - Diamond-Oak Duster Dante
 - Altagen-I Merchant
 - none of the above
38. Which sire is an embryo transfer?
- Carol Prelude Mtoto
 - Coyne-Farms Patron Beaver
 - Glen-D-Haven Rudolph Jetta
 - Eastview NBO-Revenue Mattie
39. Which sire is Tested free of both CVM and BLAD?
- Windsor-Manor Machoman
 - Mr Millenium
 - Carol Prelude Mtoto
 - Tidy-Brook J Steven ICG
40. Which of the following sires is listed with the National Holstein Registry as an International bloodline?
- Windsor-Manor Machoman
 - Diamond-Oak Duster Dante
 - Altagen-I Merchant
 - none of the above

Pedigree Questions – 5 pts. Each

REFER TO APPENDIX A to answer the following pedigree questions.

41. On Appendix A, number 1 denotes . . .
- information about the sire
 - identification information about this female
 - information about the paternal grandsire.
 - information about the maternal grandsire.
42. On Appendix A, number 9 denotes . . .
- information about the sire
 - identification information about this female.
 - information about the dam
 - information about the maternal grandsire

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43. On Appendix A, number 3 denotes . . .
- the female's tattoo, right ear given first followed by the left ear.
 - the female's tattoo, left ear given first followed by the right ear.
 - the female's year of birth.
 - the female's type evaluation summary.
44. On Appendix A, number 7 denotes . . .
- the female's PII scores.
 - the female's PA scores.
 - the female's PTA protein scores.
 - the female's Type evaluations.
45. On Appendix A, beside the number 5, you will see the following numbers: 918M, 46F, 39P
- these numbers indicate a measure of the accuracy of the genetic evaluations.
 - these numbers indicate an estimate of genetic merit that a cow will transmit to the offspring.
 - these numbers indicate the Functional Trait Index.
 - these numbers indicate lactation records.



OFFICIAL HOLSTEIN PEDIGREE™



Holstein Association

Holstein Association

100% Registered Holstein Ancestry (RHA-NA)

NITI HEARTLANDDF BADGR RUTH P7 PTPI +1268M
 USA 60350839 100%RHA-NA

5/23/2001 FEMALE RUTH
 NORTHEAST IOWA DAIRY FOUNDATION
 %MIKE KOESTER
 P O BOX 400
 CALMAR, IA 52132
 563/534-9957

PTA +984M# +49F# +35P# 23%R 8/2002
 PTA +1.5PL# 3.14SCS#
 PTA +.03T# -.03UDC# +.20FLC#24%R 8/2002

①

HA-HO CUBBY MANFRED-ET TPI +1520M
 USA 2183007 100%RHA-NA TV TL
 5-07 82 +GVV GM 8/02 12/07/1991

MACE YIELD EVALUATION
 PTA +1952M +66F +63P 99%R 8/2002
 PTA -.02%F +.02%P 56%US
 PTA +503NM +3.0PL 3.48SCS
 MACE TYPE EVALUATION
 PTA -.27T -.61UDC +.67FLC 99%R 8/2002

SANDY-VALLEY DU BLIZZARD-ET CTPI +1918
 USA 17246304 100%RHA-NA TV
 2-11 86 VVVEV 01/16/1997

PTA +2604M +87F +77P 58%R 8/2002
 PTA -.03%F +.00%P
 PTA +746NM +2.3PL 2.88SCS
 PTA +2.21T +1.62UDC +2.03FLC 58%R 8/2002

AGE	X	DAYS	MILK	DCRM	%	FAT	%	PRT	DCRC
***	2-01	2	305	29390	94	4.4	1294	2.9	849 94
			365	34400	94	4.5	1535	2.9	1001 94
***	5-00	2	157	17950	3.3	588	2.7	481	

SANDY-VALLEY B BADGER-ET P9 PTPI +1723M
 USA 125995889 100%RHA-NA TL
 12/13/1998

PTA +2278M# +77F# +70P# 39%R 8/2002
 PTA +2.7PL# 3.18SCS#
 PTA +.97T# +.51UDC#+1.35FLC#39%R 8/2002

NITI POPEYE RUTHLES CTPI +813
 USA 18002562 100%RHA-NA
 4-00 76 +G+FG 08/28/1997

PTA -311M +21F +0P 54%R 8/2002
 PTA +.14%F +.04%P
 PTA +20NM +.3PL 3.09SCS
 PTA -.92T - .57UDC -.95FLC 56%R 8/2002

LC ACF AVM AVF AVP AVT AV 09/2001
 2.0 0

KERNDTWAY POPEYE-ET TPI +1233
 USA 2285134 100%RHA-NA TL
 4-09 91 EEEE 03/25/1995

PTA +530M +64F +25P 95%R 8/2002
 PTA +.19%F +.04%P 100%US
 PTA +285NM +.9PL 3.16SCS
 PTA +.40T +.10UDC +.07FLC 88%R 8/2002

NITI LEADMAN RUTH CTPI +653
 USA 15501280 100%RHA-NA
 2-07 72 FFF+F 05/03/1994

PTA -825M -19F -10P 55%R 8/2002
 PTA +.05%F +.06%P
 PTA -82NM +.7PL 2.98SCS
 PTA -1.27T -1.08UDC +.10FLC 57%R 8/2002

LC ACF AVM AVF AVP AVT AV 1997
 1 3.7 0 0 1 0 0

AGE	X	DAYS	MILK	DCRM	%	FAT	%	PRT	DCRC
DHR	2-00	2	305	13960	3.9	549	3.4	469	
			365	16370	4.0	654	3.4	555	

001657467 10149223 09/06/2002

All records shown on true protein scale



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100% Registered Holstein Ancestry (RHA-NA)

NITI HEARTLAND BBAY PREFACE
USA 60350845 100%RHA-NA

P9 PTPI
+1408

6/12/2001
PREFACE FEMALE

NORTHEAST IOWA DAIRY FOUNDATION
%MIKE KOESTER
P O BOX 400
CALMAR, IA 52132
563/534-9957

PTA +1213M# +21F# +39P# 39%R 8/2002
PTA +1.8PL# 3.06SCS#
PTA +1.57T#+1.51UDC# +.45FLC#38%R 8/2002

2

LUTZ-MEADOWS E MANDEL-ET
USA 2119526 100%RHA-NA TV TL TPI +12451

5-07 85 VEVF GM 2/00 10/29/1989
MACE YIELD EVALUATION
PTA +1416M +20F +36P 99%R 8/2002
PTA -.13%F -.02%P 90%US
PTA +248NM -.6PL 3 04SCS
MACE TYPE EVALUATION
PTA +1.34T +1.02UDC +.44FLC 99%R 8/2002
CTP

B-Y-U GLOW BRIGITTE
USA 14689001 100%RHA-NA +138
8-05 87 EEE+V DOM 02/06/1992

PTA +1728M +45F +59P 74%R 8/2002
PTA -.07%F +.03%P
PTA +385NM +.0PL 3 34SCS
PTA +.50T +.38UDC -.02FLC 74%R 8/2002

B-Y-U MANDEL BOMBAY-ET
USA 2292218 100%RHA-NA TV TL TPI +1503
10/01/1995

PTA +2061M +44F +58P 91%R 8/2002
PTA -.12%F -.01%P 100%US
PTA +447NM +.8PL 3.08SCS
PTA +1.35T +.62UDC +.84FLC 88%R 8/2002

SHER BLACKSTAR PRECIOUS
USA 15202984 100%RHA-NA CTPI +1308
6-03 90 VEV+E 08/15/1993

PTA +364M -2F +20P 66%R 8/2002
PTA -.06%F +.04%P
PTA +243NM +2.7PL 3.04SCS
PTA +1.78T +2.40UDC +.06FLC 64%R 8/2002

LC ACF AVM AVF AVP AVT AV AGE X DAYS MILK DCRM % FAT % PRT DCRC
5 2.7 9 8 9 9 9 09/2001

DHR 2-00 2 272 17400 3.4 586 3.2 558
DHR 2-11 2 305 24390 3.5 849 3.1 745
360 27390 3.5 968 3.1 851
*** 4-00 2 305 30090 99 3.4 1025 3.2 950 99
365 34780 99 3.5 1202 3.2 1100 99
* 5-05 3 291 34300 93 3.3 1135 2.9 989 94
*** 6-05 2 305 33080 99 3.4 1110 3.1 1020 99
365 38480 99 3.3 1280 3.1 1205 99
LIFE 1877 165620 3.4 5688 3.1 5187

AGE X DAYS MILK DCRM % FAT % PRT DCRC
DHR 1-11 3 365 39440 3.3 1306 2.9 1157
*** 5-11 3 365 47920 100 3.1 1466 3.0 1438 100
3RD UT PROT
LIFE 2053 189940 3.3 6235 3.2 6117

TO-MAR BLACKSTAR-ET
USA 1929410 100%RHA-NA TV TL TD TPI +109
7-09 93 EEE GM 1/96 05/17/1983

PTA +186M +1F +7P 99%R 8/2002
PTA -.02%F +.01%P 100%US
PTA +122NM +1.6PL 2.98SCS
PTA +1.27T +.76UDC +.34FLC 99%R 8/2002

BLOK-BROS LEAD PAGEANT-ET
USA 14501335 100%RHA-NA CTP +106
5-11 85 GV+GE 06/07/1991

PTA -114M -19F +12P 76%R 8/2002
PTA -.06%F +.06%P
PTA +93NM +1.5PL 3.09SCS
PTA +1.03T +1.26UDC -.11FLC 74%R 8/2002

LC ACF AVM AVF AVP AVT AV AGE X DAYS MILK DCRM % FAT % PRT DCRC
4 2.3 7 7 8 8 8 03/2000

DHR 2-02 2 305 22530 3.4 772 3.4 760
365 26630 3.5 919 3.4 906
APR 3-10 2 305 23610 3.1 738 3.2 744
319 24140 3.1 758 3.2 766
DHR 4-10 2 305 19430 3.1 607 3.3 649
365 22600 3.1 703 3.4 758
*** 6-05 2 305 21910 100 3.4 752 3.2 691 100
334 23360 100 3.4 803 3.2 741 100
LIFE 1735 110210 3.3 3627 3.3 3655

001657467 10149225 09/06/2002

All records shown on true protein scale



OFFICIAL HOLSTEIN PEDIGREE™



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100% Registered Holstein Ancestry (RHA-NA)

BEVENSIDE EMERSON BETT P9 PTPI +1516
 USA 60350840 100%RHA-NA

BETTYK FEMALE
 5/24/2001
 NORTHEAST IOWA DAIRY FOUNDATION
 %MIKE KOESTER
 P O BOX 400
 CALMAR, IA 52132
 563/534-9957

PTA +1203M# +54F# +46P# 38%R 8/2002
 PTA +.9PL# 3.07SCS#
 PTA +1.85T#+1.45UDC#+1.00FLC#37%R 8/2002

3

EMPRISE BELL ELTON TPI +1283
 USA 1912270 100%RHA-NA CV BL TD
 11-00 95 EEEE 01/25/1983

PTA +926M +33F +39P 99%R 8/2002
 PTA +.00%F +.05%P 100%US
 PTA +299NM +.2PL 3.32SCS
 PTA +.59T +.58UDC +1.91FLC 99%R 8/2002

WA-DEL RC BLCKSTR MARTHA-ET CTPJ +1557
 USA 13907649 100%RHA-NA TV
 6-08 93 EEEEE 2E GMD DOM 11/08/1989

PTA +1774M +66F +45P 85%R 8/2002
 PTA +.01%F -.03%P
 PTA +429NM -.9PL 3.02SCS
 PTA +2.63T +2.59UDC +1.41FLC 84%R 8/2002

RICECREST EMERSON-ET TPI +1571
 USA 2271271 100%RHA-NA BL TV
 7-08 96 EEEE 08/13/1994

PTA +1301M +57F +54P 96%R 8/2002
 PTA +.04%F +.06%P 100%US
 PTA +462NM +.4PL 3.10SCS
 PTA +1.98T +1.42UDC +1.58FLC 88%R 8/2002

BEVENSIDE MANDEL BETTY MAE CTPI +1449
 USA 15909215 100%RHA-NA
 5-09 85 +EEFV 11/22/1995

PTA +1104M +51F +37P 57%R 8/2002
 PTA +.05%F +.02%P
 PTA +376NM +1.3PL 3.04SCS
 PTA +1.72T +1.48UDC +.41FLC 59%R 8/2002

LC ACF AVM AVF AVP AVT AV LIFE 09/2001
 3 6.7 6 8 7 9 9

	AGE	X	DAYS	MILK	DCRM	%	FAT	%	PRT	DCRC
*	2-03	2	305	23503	95	3.7	880	3.1	719	95
			320	24457	95	3.8	922	3.1	752	95
**	3-03	2	305	25732	95	4.0	1021	3.1	810	95
**	4-04	2	305	17900	92	4.3	770	3.7	661	92
			343	19490	92	4.3	840	3.7	718	92
***	5-06	3	305	25800	94	3.9	1002	2.9	736	91
			365	29760	94	3.8	1144	2.9	853	91
			LIFE	1410	104207	4.0	4134	3.2	3301	

	AGE	X	DAYS	MILK	DCRM	%	FAT	%	PRT	DCRC
DHR	1-11	2	365	29180	4.1	1201	2.9	847		
DHR	5-04	2	305	33720	4.3	1435	2.8	952		
			365	38840	4.2	1643	2.8	1104		
			LIFE	1368	103060	4.2	4341	2.9	3030	

LUTZ-MEADOWS E MANDEL-ET TPI +12451
 USA 2119526 100%RHA-NA TV TL
 5-07 85 VEVF GM 2/00 10/29/1989

MACE YIELD EVALUATION
 PTA +1416M +20F +36P 99%R 8/2002
 PTA -.13%F -.02%P 90%US
 PTA +248NM -.6PL 3.04SCS
 MACE TYPE EVALUATION
 PTA +1.34T +1.02UDC +.44FLC 99%R 8/2002

BEVENSIDE BETTY JO-ET CTPJ +140
 USA 14086854 100%RHA-NA
 9-02 91 VEEVE 3E 04/25/1990

PTA +402M +49F +21P 63%R 8/2002
 PTA +.15%F +.04%P
 PTA +320NM +2.6PL 3.10SCS
 PTA +1.75T +1.14UDC +1.61FLC 63%R 8/2002

LC ACF AVM AVF AVP AVT AV LIFE 03/2000
 6 6.0 6 9 7 9 9

	AGE	X	DAYS	MILK	DCRM	%	FAT	%	PRT	DCRC
DHI	2-05	2	305	16560	4.5	742	3.2	524		
			327	17505	4.5	785	3.2	555		
DHI	3-05	2	305	21420	4.4	952	3.2	695		
			360	23641	4.5	1065	3.3	778		
APD	4-07	2	297	23000	4.2	956	3.1	718		
APD	5-06	2	305	26060	4.2	1106	3.2	832		
			321	26924	4.3	1146	3.2	861		
APD	6-07	2	305	27710	4.1	1144	3.1	848		
			324	28416	4.1	1176	3.1	874		
*	7-07	2	305	27916	95	4.1	1147	3.1	875	95
			365	32409	95	4.2	1359	3.2	1033	95
			LIFE	2045	154319	4.3	6601	3.2	4905	

001657467 10149224 09/06/2002

All records shown on true protein scale



OFFICIAL HOLSTEIN PEDIGREE™



100% Registered Holstein Ancestry (RHA-NA)

NITI CELSIUS LUCY P8 PTPI +1275M
USA 60350757 100%RHA-NA

PTA +869M# +21F# +30P# 39%R 5/2001
PTA +1.2PL# 3.20SCS#
PTA +1.15T# +.71UDC#+1.34FLC#40%R 5/2001

8/07/2000 FEMALE LUCY
NORTHEAST IOWA DAIRY FOUNDATION
%JIM PAULSON
P O BOX 400
CALMAR, IA 52132
319/534-9957

4

HOW-EL-ACRES K BELLMAN-ET TPI +1096
USA 1874634 100%RHA-NA TL TD
5-07 90 EEV GM 2/98 12/10/1981

PTA +602M +17F +36P 99%R 5/2001
PTA -.02%F +.07%P 100%US
PTA +193NM +.6PL 3.39SCS
PTA -.42T -1.36UDC +1.39FLC 99%R 5/2001

WEA-LAND BELL ELLA CTPI +1128
USA 12105357 100%RHA-NA
2-10 85 VVV+ 04/09/1984

PTA +565M +37F +24P 63%R 5/2001
PTA +.07%F +.03%P
PTA +204NM +.4PL 3.24SCS
PTA +.20T -.40UDC +1.18FLC 62%R 5/2001

528 ETAZON CELSIUS-ET TPI +1529M
USA 2247437 100%RHA-NA TL
GM 2/01 08/26/1989

MACE YIELD EVALUATION
PTA +1632M +63F +63P 99%R 5/2001
PTA +.02%F +.06%P 2%US
PTA +498NM +1.0PL 3.39SCS

MACE TYPE EVALUATION
PTA +.64T +.10UDC +1.70FLC 99%R 5/2001
NITI ASTRE LAVISH CTPI +1009
USA 15643222 100%RHA-NA
5-06 87 VEV+V 12/31/1994

PTA +105M -21F -4P 57%R 5/2001
PTA -.10%F -.03%P
PTA +27NM +1.3PL 3.00SCS
PTA +1.66T +1.31UDC +.98FLC 61%R 5/2001

LC ACF AVM AVF AVP AVT AV 03/2001
2 5.3 6 5 5 9 8

	AGE	X	DAYS	MILK	DCRM	%	FAT	%	PRT	DCRC
DHR	1-11	2	305	18450	3.5	644	2.9	544		
			365	21120	3.5	743	3.0	633		
***	3-02	3	305	23750	99	3.6	855	2.9	694	99
*	3-02	3	365	28310	99	3.7	1039	3.0	855	99
***	4-07	3	245	20060	3.1	623	2.8	570		
***	5-07	2	305	26440	96	3.4	899	2.9	778	96
	LIFE		1405	103720	3.5	3613	3.0	3112		

AGE X DAYS MILK DCRM % FAT % PRT DCRC
DHI 2-04 2 305 21600 4.2 898 3.2 691
365 25317 4.1 1042 3.2 819

DUREGAL ASTRE STARBUCK-ET TPI +985M
CAN 392405 100%RHA-NA TL
CAN EX 11/02/1986

MACE YIELD EVALUATION
PTA +275M -32F +2P 99%R 5/2001
PTA -.18%F -.03%P 11%US
PTA +7NM +.3PL 3.07SCS

MACE TYPE EVALUATION
PTA +1.57T +1.71UDC +.96FLC 99%R 5/2001
RC-JJ SNOWFLAKE-ET CTPI +1122
USA 14965774 100%RHA-NA
7-06 88 VEVEG 12/12/1992

PTA +268M +6F +4P 61%R 5/2001
PTA -.02%F -.02%P
PTA +151NM +2.3PL 3.00SCS
PTA +1.18T +1.07UDC +.56FLC 62%R 5/2001

LC ACF AVM AVF AVP AVT AV 03/2001
5 5.7 6 6 6 9 8

	AGE	X	DAYS	MILK	DCRM	%	FAT	%	PRT	DCRC
DHR	2-00	2	302	18600	3.4	630	2.9	534		
DHR	3-00	2	305	21820	3.3	725	2.9	640		
			309	21890	3.3	728	2.9	642		
***	4-00	2	195	17590	3.5	609	2.8	500		
***	5-00	2	305	24510	99	3.5	854	2.9	717	99
			311	24650	99	3.5	859	2.9	723	99
*	6-00	3	278	26880	92	3.5	874	2.7	739	92
***	7-00	2	305	23890	100	3.4	815	3.0	718	100
			325	24800	100	3.4	849	3.0	748	100
***	8-01	2	139	11770	3.5	409	2.7	322		
	LIFE		1859	146180	3.4	4958	2.9	4208		

001378193

8200046 07/13/2001

All records shown on true protein scale

**Dairy Cattle Career Development Event
2002 Dairy Cattle CDE**

Answer: Objective Test – 2 pts. Each

- 1. D
- 2. C
- 3. A
- 4. B
- 5. A
- 6. B
- 7. D
- 8. D
- 9. D
- 10. C
- 11. C
- 12. A
- 13. D
- 14. B
- 15. A
- 16. B
- 17. B
- 18. A
- 19. B
- 20. B
- 21. D
- 22. C
- 23. B
- 24. C
- 25. C

Answer: DHIA Questions – 5 pts. Each

- 26. A
- 27. C
- 28. C
- 29. D
- 30. D

Answer: Problem Solving – 5 pts. Each

- 31. B
- 32. B
- 33. C
- 34. A
- 35. A

Answers: Sire Evaluation Questions – 5 pts. each

- 36. A
- 37. D
- 38. A
- 39. B
- 40. D

Answers: Pedigree Questions – 5 pts. each

- 41. B
- 42. C
- 43. A
- 44. D
- 45. B

Pedigree Evaluation

(50 points)

3-2-4-1
4-6-3

1234	21
1243	11
1324	25
1342	19
1423	5
1432	9
2134	30
2143	20
2314	43
2341	46
2413	23
2431	36
3124	38
3142	32
3214	47
3241	50
3412	35
3421	44
4123	8
4132	12
4213	17
4231	30
4312	25
4321	34

2002 Northeast District FFA Dairy Cattle Career Development Event
Production and Management Questions and Problems
September 14, 2002
West Union, Iowa

Mark the letter of the correct answer in the proper blank on the answer sheet.

Objective questions - 2 points each:

1. What is the first milk secreted after calving called?
a) Clostridia b) coliform c) collagen d.) colostrum
2. Baby calves should be weaned at what age?
a) 3 days b) 5-7 days c) 4-6 weeks d) 13-15 months
3. Calf starter should be offered to calves by the end of the first week of life in order to:
a) fill up the calves belly so that they will not bellow as much
b) provide long fiber for them to chew
c) stimulate development of their rumen
d) provide a source of high quality casein
4. Soybeans are often heat-treated (roasted or extruded) in order to:
a) kill any bacteria that might be present on the outside of the beans
b) increase the undegradable protein content of the beans
c) provide a source of antibodies for the immune system
d) boll off any excess fat or oil that is present in the beans
5. Large-breed dairy heifers should gain an average of - pounds/day from birth to calving
a) 0.50-1.0 b) 1.0-1.5 c) 1.5-2.0 d) 2.0-3.0
6. bST (bovine Somatotropin) has been shown to increase milk production
a) however injections of bST have also been shown to increase bST levels in the milk.
b) and does not affect the chemical composition of the milk
c) and dramatically increase profitability
d) improve a cow's ability to breed back
7. Many dairy producers are processing their own silage in order to:
a) increase the digestibility of nutrients in the silage
b) increase the rate (acres/hr or tons/hr) at which they can harvest their silage
c) decrease their field losses
d) allow them to begin harvesting the silage earlier in the fall
8. What nutrient supplies the majority of energy in a cow's ration?
a.) Minerals b.) Water c.) Protein d.) Carbohydrates
9. Ruminants are unique because their ability to utilize cheaper sources of roughage as
a.) Protein supplements b.) Nitrogen c.) Protein d.) Energy
10. Proteins are composed of carbon, hydrogen, oxygen and _____. Bacteria in the ruminant gut can utilize sources of this chemical element to build protein. This helps explain why ruminants can utilize non-protein feedstuffs, such as urea, which are of low value to monogastrics.
a.) Carbon b.) Sulfur c.) Nitrogen d.) Phosphorus
11. Cows can become infected with mastitis causing organisms that are found on:
a) milking equipment b) bedding in stalls c) hands of people d) all of these
12. Dystocia refers to
a) herd health b.) energy consumption c.) calving difficulty d.) mastitis

- 13 Off-flavors in milk can be caused because odors can be absorbed by
- fat globules in the milk
 - teat sphincter muscles
 - casein in the milk
 - tissue linings of the teat cistern
14. Which of the following is not an effective means of controlling off-flavors in milk?
- provide clean, dry bedding for cows
 - control mastitis
 - provide adequate ventilation in dairy facilities
 - select sires which are low in this trait
15. How soon after calving should cows be re-bred?
- 21-30 days
 - 50-70 days
 - 305 days
 - 365 days
- 16 Nutrient management or manure management is a concern of dairy farmers (and the general public) because of potential problems caused by:
- odors
 - run-off into streams, rivers, and lakes
 - application of excessive amounts of nitrogen and phosphorus on land
 - all of the above
17. Which of the following terms does Mt refer to a type of milking parlor?
- rapid exit
 - rotary
 - step-up
 - greenhouse
18. In the udder, the milk is formed in tiny sacs know as _____
- alveoli
 - mammary sacs
 - lobules
 - udder cisterns
19. What is the name of the process where warm milk is forced through tiny holes in order to break the fat? particles into tiny pieces?
- homogenization
 - pasteurization
 - fertilization
 - conception
20. The best percentile ranking that a sire can attain is:
- 50
 - 55
 - 99
 - 100
21. Which of the following feeds usually contains the most protein?
- Alfalfa hay
 - corn silage
 - corn grain
 - soybean oil meal
22. This compartment of the ruminant stomach is called a "true" stomach and functions similarly to a monogastrics stomach.
- Rumen
 - reticulum
 - abomasum
 - omasum
23. Retained placenta (retained fetal membranes) can lead to
- mastitis
 - metritis
 - hardware disease
 - displaced abomasum
24. Which of the following represents the largest single cost associated with producing milk?
- facilities
 - feed
 - labor
 - veterinarians and drugs
25. The two nutrients of most concern regarding manure application to land are:
- Ca&P
 - N&P
 - SE & Vitamin E
 - K&Mg

DHIA Questions - - 5pts each

26. What is the current rolling yearly herd average milk production for this herd?
a. 7,328 b. 17,625 c. 16,700 d. 20,195
27. During what month was the average Somatic Cell Count score the highest?
a. January b. February c. April d. June
28. How many cows left the herd because of "injury or other"?
a. 1 b. 2 c. 7 d. 18
29. What was the rolling yearly herd average for protein as of May 17th?
a. 3.1 % b. 3.2 % c. 17,232 d. 512
30. What is yearly herd average for Feed Cost Per Cwt. of Milk?
a. \$4.93 b. \$5.13 c. \$5.74 d. \$1,078

Dairy Management Problems - 5pts. Each

31. A load of hay consisting of small square bales averaging 60 lbs/bale costs \$2.40 per bale. What is the cost of one ton of this hay?
a. \$50.00 b. \$80.00 c. \$100.00 d. \$144.00

31. You can purchase corn from four different producers. The following information shows the cost per bushel and the respective protein contents:

Farmer A's Corn: \$2.00 per bu.	8 % protein
Farmer B's Corn: \$2.10 per bu.	9 % protein
Farmer C's Corn: \$1.95 per bu.	7.5 % protein
Farmer D's Corn: \$1.75 per bu.	7 % protein

If protein is your most expensive nutritional input which corn is a better value?

- a. Farmer A's Corn b. Farmer B's Corn c. Farmer C's Corn d. Farmer D's Corn
33. A 1400 pound cow fed a total mixed ration that is 35% moisture. Assuming she can physically consume 3.5 % of her body weight in dry matter, how much of this ration can she consume daily?
a. 17.15 lbs. b. 31.85 lbs. c. 75.38 lbs. d. 490 lbs.
34. You grind a 14% protein ration by grinding 7% protein corn and 44 % protein soybean meal. Assuming that corn is \$2.00 per bushel and SBM is \$150 per ton, what is the cost per ton of this ration?
a. \$75.70 b. \$116.30 c. \$95.35 d. \$86.30
35. How much additional income would be generated for a producer selling 150,000 lbs. of milk if they decrease their average SCC from 400,000 SCC to 200,000 SCC? Assume an adjustment of \$0.01 per cwt for every 10,000 SCC below 400,000.
a. \$3 b. \$30 c. \$300 d. \$3000

Sire Evaluation Questions - 5 pts. Each

36. If a herd owner's primary selection objective was to increase pounds of protein produced then the first choice of sire service would be:
a. Sunbow Steadfast
b. Schultz Brook Hallmark
c. Greenwood Berretta Dunkirk-ET
d. AU Rock Creek Trimmer - ET

37. If herd owners are primarily interested in increasing pounds of milk produced then their first choice of service sire would be:

- a. Scultz Brook Hallmark
- b. Greenwood Berreta -ET
- c. AU Rock Creek Trimmer - ET
- d. BW Parade-ET

38. Which sire's number estimates would appear to be the most reliable?

- a. Schultz Brook Hallmark
- b. Long Distance Barber Barkly
- c. AU Rock Creek Trimmer - ET
- d. Fleurieu Apache

39. Which sire would you expect to generate the greatest overall herd improvement?

- a. Schultz Brook Hallmark
- b. Long Distance Barber Barkly
- c. AU Rock Creek Trimmer - ET
- d. Fleurieu Apache

40. Which bull is an embryo transfer?

- a. Sunbow Steadfast
- b. Long Distance Barber Barkly
- c. Fleurieu Apache
- d. Rock Ella Prerimiter

Pedigree Questions - 25 points

Use the pedigrees from the Pedigree Evaluation class to answer the following five questions. Each correct answer will be worth 5 points.

41. Who is the maternal grandsire of Ames Barber Debra?

- a. WF/L&M Duncan Barber-ET
- b. Molly Brook Brass Major
- c. Highland Magic Duncan
- d. WF/L&M Chief Barb-ET

42. How many lactation records has Ames Leopold Deedee's dam completed?

- a) 1 b) 2 c) 3 d) 4

43. How was the sire of Ames Barber Dana proven?

- a. he has not been proven yet
- b. through a young sire program
- c. he was a herd bull in a dairy producers herd
- d. he was proven in Europe (The Netherlands, Germany, and Italy)

44. Which of the four calves should produce the most pounds of milk?

- a) Ames Barber Dana
- b) Ames Mitchell Pam
- c) Ames Barber Debra
- d) Ames Leopold Deedee

45. Which of the four calves should produce the most pounds of protein?

- a) Ames Barber Dana
- b) Ames Mitchell Pam
- c) Ames Barber Debra
- d) Ames Leopold Deedee

HERD SUMMARY DHI-202

True Protein Values Effective May 1, 2000

AMES, ROBERT
 P A G E
 1 4566 LARK AV
 1 ROCKWELL IA 50469

HERD CODE	DATE TESTED
42170044	7 20 01
DHI-AP	

PRODUCTION, INCOME, & FEED COST SUMMARY

DESCRIPTION	DAILY AVERAGE PER COW ON TEST DAY		ROLLING YEARLY HERD AVERAGES	
	NUMBER	%	NUMBER	%
TOTAL COWS	17	77	19.1	81
COWS IN MILK	41.8		16.700	
MILK LBS. (ALL COWS)	1.17		571	
FAT LBS. (ALL COWS)	2.8		3.4	
PROTEIN LBS. (ALL COWS)	1.20		496	
PROTEIN PERCENT (MILKING COWS)	2.9		3.0	
MILK LBS. (MILKING COWS)	54.1			
LBS. CONSUMED				
SILAGE	20	20	7,328	%ENE
OTHER SUCCULENTS OR BLENDED RATIONS				%ENE
DRY FORAGE	25	24	8,762	%ENE
OTHER FEEDS				%ENE
PASTURE (YES OR NO)	NO	NO		%ENE
CONCENTRATES	24	19	7,552	%ENE
VALUE OF PRODUCT	7.29	5.63	1,935	
COST OF CONCENTRATES	1.31	1.08	367	
TOTAL FEED COST	2.67	2.40	857	
INCOME OVER FEED COST	4.62	3.23	1,078	
FEED COST PER CWT. MILK	4.93	5.74	5.13	
MILK BLEND PRICE	15.23	3.5	3.0	12.10
			3.6	3.1

MISCELLANEOUS

HERD INFORMATION		ASSOC. SAMPLES		DRPC	
SHIPPED-TEST DAY COMPARISON	TEST DAY	YEARLY AVERAGE	REC. AT LAB	MAILED	
SUM OF TEST DAY WTS (LBS)	920	1080	400	7	26
REPORTED AV. DAILY BULK TANK WTS (LBS)	869	1040	SUPV. MO.	DAY	MO.
% DEVIATION	+5.9	+3.8	64	7	24

REPRODUCTIVE SUMMARY OF CURRENT BREEDING HERD

BR. OF HERD	4
TOTAL COWS IN BREEDING HERD	7
COWS WITH NO. SERVICE DATES OR DIAG. OPEN	
OPEN VWP TO 100 DAYS	2
OPEN VWP TO 130 DAYS	29
NUMBER COWS	1
% OF BREEDING HERD	14
COWS BRED SINCE	5-16
DAYS OPEN AT LAST SERVICE	
DAYS TO 1ST SERVICE	132

REPRODUCTIVE SUMMARY OF TOTAL HERD

SERVICE OR HEAT INTERVALS	SERVICES FOR PAST 12 MONTHS		SERVICES PER PREGNANCY	AVG. DAYS TO 1ST SERVICE	DAYS OPEN AT 1ST SERVICE		PROJECTED MINIMUM CALVING INTERVAL	DAYS OPEN
	NUMBER	% SUCCESSFUL			NUMBER	OVER 100 DAYS		
1ST	12	67	1.7	121	3	3	14.6	164
2ND	6	50	1.6	189	4	4	16.4	218
3RD+	5	80	2.0	129	2	2	17.7	256
TOTAL	23	65	1.7	143	5	9	15.9	204
ABORTIONS					36	64	16.4	
ACTUAL								
APPARENT								

BIRTH SUMMARY

DAMS LACT NUM.	MALES		FEMALES		CALVING DIFFICULTY SCORE				
	ALIVE	DEAD	ALIVE	DEAD	1	2	3	4	5
1	5	1	5	1					
2+	6	5	5	5					
TOTAL	11	10	10	1					

COWS TO BE MILKING, DRY, CALVING, BY MONTH

MONTH	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
* MILKING	17	16	19	20	20	18	16	17
DRY	4	5	4	1	2	3	5	3
COWS TO CALVE	1	2	3	1	1	1	2	2
HEIFERS TO CALVE			3		1			1

* ASSUMES 4.3% PER MONTH CULLING RATE.

YEARLY REPRODUCTIVE SUMMARY

DATE OF TEST	% HEATS OBS.	NUMBER SERVICES	% SUCCESSFUL	NUMBER CONFIRM. PREG.	NUMBER CALVING	TOTAL PREGNAR COWS
8-17-00	18	2	50		1	1
9-18-00		2	100		2	1
11-08-00	8	2	100		5	1
12-29-00	21	5	60		5	1
1-31-01	25	5	80		2	
3-06-01		4	25		1	1
4-10-01	20	2	100		4	1
5-17-01	16	1			4	1
6-19-01	10	1			2	1
7-20-01	48	3			2	1
AVERAGES	21	24	65		2	
TOTALS		24			21	

REMARKS:

HERDCODE	DATE TESTED	BREED	STRING
42-17-0044	7-20-01	H	

STAGE OF LACTATION PROFILE

LACTATION	STAGE OF LACTATION (DAYS)				TOTAL OR AVERAGE
	1ST LACT	2ND LACT	3RD LACT	4TH LACT	
1ST LACT	2	1	2	5	8
2ND LACT	1	1	2	2	4
3RD LACT	1	1	1	2	5
4TH LACT	4	2	3	7	17
ALL LACTS	55	49	69	56	50
ALL LACTS	49	68	35	54	60
ALL LACTS	57	44	71	48	54
FAT %	3.0	3.0	2.9	2.8	2.9
PROT %	3.0	3.0	2.9	2.9	2.9
FAT %	2.7	3.3	3.0	3.0	3.0
PROT %	2.4	3.3	2.9	2.9	2.9
FAT %	2.9	1.9	2.7	2.3	2.4
PROT %	3.1	3.0	3.0	2.9	3.0
FAT %	2.9	2.6	2.9	2.7	2.8
PROT %	2.9	3.2	2.9	2.9	2.9
ALL LACTS	205	373	107	850	919
ALL LACTS	107	200	38	1190	616
ALL LACTS	566	200	38	1190	616
ALL LACTS	292	303	82	957	525
ALL LACTS	2	2	3	3	8
ALL LACTS	50	100	43	100	47

AGE GROUP	NUMBER ANIMALS	AVG. AGE	NUM. IDENTIFIED BY	NUMBER CHANGES	NO. ANIMALS MERIT \$	AVERAGE MERIT \$	GENETIC PROFILE OF SERVICE SIRE
0-12	11	0-05	9	11	10	+161	ALL OTHER SIRE
13+	10	1-07	3	10	10	+56	ALL OTHER SIRE
PERIPARTURIENTS	21	1-00	12	21	20	+109	ALL OTHER SIRE
1ST LACT	9	2-01	7	9	5	+84	ALL OTHER SIRE
2ND LACT	7	3-07	7	7	7	+78	ALL OTHER SIRE
3+ LACTS	6	5-01	6	6	6	-17	ALL OTHER SIRE
ALL LACTS	22	3-05	20	22	18	+48	ALL OTHER SIRE
IDENTIFIED (PRODUCING FEMALES)	91		100			+116	

IDENTIFICATION AND GENETIC SUMMARY

AGE GROUP	NUMBER ANIMALS	AVG. AGE	NUM. IDENTIFIED BY	NUMBER CHANGES	NO. ANIMALS MERIT \$	AVERAGE MERIT \$	GENETIC PROFILE OF SERVICE SIRE
0-12	11	0-05	9	11	10	+161	ALL OTHER SIRE
13+	10	1-07	3	10	10	+56	ALL OTHER SIRE
PERIPARTURIENTS	21	1-00	12	21	20	+109	ALL OTHER SIRE
1ST LACT	9	2-01	7	9	5	+84	ALL OTHER SIRE
2ND LACT	7	3-07	7	7	7	+78	ALL OTHER SIRE
3+ LACTS	6	5-01	6	6	6	-17	ALL OTHER SIRE
ALL LACTS	22	3-05	20	22	18	+48	ALL OTHER SIRE
IDENTIFIED (PRODUCING FEMALES)	91		100			+116	

PRODUCTION BY LACTATION SUMMARY

LACTATION	NUMBER OF COWS	AVERAGE AGE MONTHS	SUMMIT MILK	PROJ ME 305 DAY		DIFFERENCE FROM HERDMATES			BODY WEIGHT	
				FAT	PROTEIN	FAT	PROTEIN	WEIGHT		
1ST LACT	9	25	62	20195	663	553	+1151	+20	+23	1210
2ND LACT	7	43	76	20566	672	600	+2250	+42	+61	1380
3+ LACTS	6	61	76	19246	600	539	+1373	-18	+25	1520
ALL LACTATIONS	22	41	71	20055	648	585	+1550	+17	+35	1350

YEARLY SUMMARY OF COWS ENTERED AND LEFT THE HERD

LACTATION	NUMBER DRY PERIODS	AVERAGE DRY PERIODS	NUMBER DRY PERIODS	NUMBER DRY PERIODS	COWS ENTERED		COWS LEFT		NUMBER ENTERED	NUMBER LEFT
					NUM.	%	NUM.	%		
1ST LACT	7	106	1	2	11	46	5	21	3	3
2ND LACT	6	78	1	2	4	17	3	13	2	2
3+ LACTS	6	93	2	4	11	46	12	51	7	7
ALL LACTATIONS	13	106	4	8	26	109	20	85	12	12

YEARLY PRODUCTION AND MASTITIS SUMMARY

DATE OF TEST	DAYS IN TEST PERIOD	NUMBER OF COWS IN TEST	TEST DAY IN MILK	TEST DAY AVERAGES (MILKING COWS)			STANDARDIZED MILK	TEST PERIOD PERCENT	TEST PERIOD AVG. MILK LBS. ADDED	TEST PERIOD AVG. MILK LBS. DROPPED
				MILK	FAT	PROT.				
9-17-00	23	21	201	57.3	3.1	2.8	65.2	91	83	101
9-18-00	32	23	204	51.8	3.1	2.9	59.9	95	86	101
1-08-00	51	26	200	55.7	3.6	2.9	62.4	111	70	81
2-29-00	51	26	200	55.7	3.6	3.1	62.4	81	81	81
1-31-01	33	26	198	60.5	3.4	3.1	65.4	103	85	99
3-06-01	34	25	239	54.6	3.4	3.0	60.1	105	88	99
4-10-01	35	25	249	57.2	3.3	2.9	64.9	112	88	96
5-17-01	37	22	238	56.0	3.2	2.8	65.5	99	77	96
6-19-01	33	21	153	59.7	3.2	2.9	65.4	96	71	96
7-20-01	31	22	165	54.1	3.3	2.9	58.6	96	77	96

CURRENT SOMATIC CELL COUNT SUMMARY

HERD PRODUCTION	MILK	1,501
LOST FROM SCC	228	
THIS TEST PERIOD	228	

SOMATIC CELL COUNT SUMMARY

DATE	DAYS IN TEST PERIOD	NUMBER OF COWS IN TEST	TEST DAY IN MILK	SOMATIC CELL COUNT SUMMARY					AVG. SCC	AVG. ACTUAL SCC	NUMBER LEFT HERD
				1.2	2.3	3.4	4.5	5.6			
9-17-00	23	21	201	46	24	12	18	3	37	331	
9-18-00	32	23	204	28	33	22	11	6	4.0	390	
1-08-00	51	26	200	36	19	13	13	19	4.2	720	
2-29-00	51	26	200	39	22	11	11	17	4.3	717	
1-31-01	33	26	198	596	523	26	14	23	4.7	874	
3-06-01	34	25	239	591	518	35	14	23	4.3	583	
4-10-01	35	25	249	587	514	31	9	32	4.3	609	
5-17-01	37	22	238	587	515	22	14	23	4.9	787	
6-19-01	33	21	153	587	512	34	12	24	4.6	630	
7-20-01	31	22	165	576	501	28	13	13	5.1	773	
				571	496	40	18	18	3.9	526	

Jersey

Sunbow Steadfast Top Net Merit Jersey

Name of Bull	NAAB Code	Selection Indexes				Production-related PTA'S							Type Data		
		NMS	Rel.	CMS	PTI	lbs.M	lbs.P	%P	lbs.F	%F	Rel.	SCS	PL	PTAT	Rel.
SUNBOW STEADFAST	29JE3194	451	78	450	327	2499	70	-0.10	55	-0.32	85	3.47	0.8		
LONG DISTANCE BARBER BARKLY	7JE488	448	69	440	288	1831	47	-0.10	56	-0.16	76	3.16	1.4	1.5	62
MOLLY BROOK BERRETTA FANCLUB-ET	122JE5127	438	81	480	309	1097	56	0.10	56	0.03	86	3.38	1.0	1.5	81
ROCK ELLA PARAMOUNT-ET	7JE442	428	89	445	282	1043	40	0.02	42	-0.03	94	3.26	2.2 M	2.8	89
90th MVF BERRETTA FREDRICO-ET	7JE474	427	72	454	286	1201	50	0.04	50	-0.03	78	3.45	1.7 M	1.6	67
JENKS BARBER BILL	122JE5134	424	71	445	270	1164	46	0.03	40	-0.08	77	3.26	1.9	1.6	71
MVF BOLD VENTURE DANIEL	1JE1325	423	98	422	281	1769	50	-0.07	62	-0.11	99	3.17	1.1	0.7	99
MOLLY BROOK BERRETTA FAIR-ET	11JE627	416	80	443	296	1287	53	0.04	47	-0.07	86	3.50	1.0 M	1.8	74
ROCK MAPLE BROOK MANNIX	140JE330	416	79	428	282	1301	44	-0.01	69	0.05	84	3.29	1.2	1.7	78
SCHULTZ BROOK HALLMARK	29JE3114	408	83	416	254	1207	39	-0.02	34	-0.13	88	3.20	2.1	2.6	80
BARBS MBSB COSMO	9JE173	408	79	430	270	1605	59	0.01	23	-0.29	85	3.27	1.4	0.9	70
TWIN HAVEN ALF GARTH-ET	14JE316	396	81	394	257	1675	46	-0.08	57	-0.11	86	3.17	1.4	1.2	78
MOLLY BROOK GLENWOOD FREEDOM-ET	7JE424	391	82	378	267	1672	40	-0.11	62	-0.08	87	3.31	0.7	1.7	77
80th BARBS MBSB DECLO	7JE386	387	90	407	260	1433	53	0.01	28	-0.22	94	3.34	1.6	1.4	80
GABYS ALF RED DOG	29JE3184	380	82	387	217	1067	34	-0.02	42	-0.04	87	3.07	2.9	1.6	79
WALDEN FARM MR T QUEST ANGEL-ET	122JE5118	379	82	383	248	1355	41	-0.04	59	-0.02	87	3.21	1.2	1.3	84
AMBZED US GERMON	163JE3254	373	61	374	253	1817	52	-0.07	28	-0.31	67	3.46	1.5 M		
DJF BERRETTA HADYN	1JE1369	370	85	396	229	919	42	0.05	25	-0.10	90	3.29	2.4	1.8	79
GREENWOOD BERRETTA DUNKIRK-ET	122JE5090	367	81	353	224	1847	44	-0.12	26	-0.33	85	3.45	2.3	2.2	84
MOLLY BROOK GLENWOOD FLYER-ET	29JE3137	367	81	380	270	1216	42	-0.01	66	0.06	85	3.28	0.0	1.2	78
MOLLY BROOK BERRETTA FLYER-ET	9JE153	365	81	402	262	825	46	0.10	48	0.06	86	3.49	1.1	2.1	80
WILSONVIEW KHAN MORGAN-ET	1JE480	365	69	372	231	1092	35	-0.02	46	-0.02	74	3.27	2.0	1.3	66
FANELIS SUPER TACO	122JE101	364	68	387	262	1081	45	0.04	59	0.06	73	3.42	0.9	0.7	59
ROCK ELLA PERIMETER-ET	71JE162	363	88	410	260	559	44	0.14	50	0.14	94	3.35	0.9 M	1.8	81
MVF POSEIDON FLIGHT-ET	14JE332	352	70	362	280	1416	46	-0.02	51	-0.08	76	3.46	0.0	1.6	71
70th ISDK ODA HEINO	228JE2	347	79	369	200	424	25	0.06	86	0.40	91	3.28	1.6 M	-0.5	47
FLEURIEU APACHE	200JE28	344	54	368	246	1101	46	0.04	47	-0.02	59	3.16	1.0 M	0.0	47
AHLEM BERRETTA ROGUE	29JE3180	343	83	365	234	1231	48	0.02	31	-0.15	88	3.33	1.3	0.3	80
ISDK ODA RINDE	164JE2	343	68	358	207	604	26	0.03	72	0.27	79	3.09	1.5 M	-0.2	44
EASTGLEN ALF KLASSIC-ET	9JE172	342	74	344	221	1199	35	-0.04	48	-0.04	79	3.25	1.6	1.6	72
DE BOER CINDYS CEASAR	14JE326	341	83	357	249	1224	44	0.01	63	0.04	89	3.41	0.3	0.4	86
WOLF RIVER BERRETTA PANTHER	11JE636	339	80	342	230	1381	41	-0.05	26	-0.21	86	3.30	1.3 M	1.5	74
VANTAGE CLARION	1JE342	337	69	357	225	883	37	0.03	56	0.09	74	3.42	1.4	1.5	66
MS/DP LONG RANGE ANGE	14JE301	336	84	325	220	1695	41	-0.11	34	-0.25	89	3.33	1.6	1.5	86
STONYRUN SOONER FREDDY-ET	100JE7085	335	79	327	208	1351	33	-0.08	39	-0.13	83	3.24	1.7	1.6	84
CLOVER FARMS MELVIN-ET	29JE3148	328	79	333	206	1238	38	-0.03	31	-0.15	84	3.22	1.7	1.1	70
DUTCH HOLLOW TITAN-P-ET	29JE3173	327	81	321	185	1328	34	-0.07	30	-0.18	86	3.26	2.9	0.9	84
WINDY ACRES BERRETTA CRUSH	76JE122	327	49	351	208	973	42	0.04	21	-0.14	53	3.31	1.9		
ISNZ CRESCENT SHARIF	163JE3243	325	60	358	223	464	33	0.10	59	0.23	67	3.22	1.4 M		
ALTHEAS BARBARIAN-ET	122JE5139	322	80	329	218	1165	37	-0.03	50	-0.02	85	3.23	0.7	0.0	82
ISDK BAMBRO BH	228JE1	316	63	335	206	404	23	0.05	65	0.28	70	3.09	1.0 M	0.9	43
AU LESTER TOPKICK-ET	1JE317	315	94	323	202	676	24	0.00	44	0.08	98	3.34	1.5	2.2	96
MASON BOOMER SOONER BERRETTA	7JE254	314	99	338	184	756	36	0.06	6	-0.17	99	3.39	2.7 M	2.1	99
PHILS BERRETTA BLUE STAR ET	71JE163	310	85	309		1419	40	-0.06	22	-0.25	91	3.32	0.7 M	1.8	74
BW PARADE-ET	7JE472	310	80	337	233	806	39	0.06	31	-0.03	87	3.27	1.1	2.4	78
ROCK MAPLE BROOK MONTANA-ET	29JE3075	308	97	296	223	1426	33	-0.10	54	-0.07	99	3.21	0.0 M	2.2	98
SUMMETZ MISTER T HAWKEYE-ET	14JE330	307	74	308	208	1392	40	-0.06	27	-0.21	80	3.40	1.7	1.9	72
50th EASTGLEN BARBER KRAFT-ET	14JE331	302	78	302	192	884	25	-0.04	52	0.07	84	3.22	1.1	1.9	78
MOLLY BROOK BERRETTA FUTURE-ET		29				330	196	411	30	0.10	17	-0.01	91	3.43	1.9
H&B ALF PARAGON ET	29JE3161	296	84	334	199	208	29	0.13	28	0.12	90	3.04	1.6 M	1.5	81
BW CARINGTON	100JE7100	296	59	316	210	779	34	0.04	31	-0.03	62	3.37	1.4	1.4	64
AU ROCK CREEK TRIMMER-ET	122JE5119	295	86	326	219	609	36	0.09	45	0.10	91	3.33	0.9 M	0.9	87

OFFICIAL AJCA PERFORMANCE PEDIGREE

FEMALE

AMES BARBER DANA
USA 110433129

BORN 7/24/98

TATTOO A1768

A1768

P-LEVEL P5

OWNER: 215650

IA STATE DAIRY SCIENCE DEPT

123 KILDEE HALL

AMES, IA 50011-0001

DATE ISSUED: 10/26/98

BREEDER: 215650

IA STATE DAIRY SCIENCE DEPT

123 KILDEE HALL

AMES, IA 50011-0001



PA 1106M 57F 40P 159PS 169CYS

2.5 TYPE 265PTI

ST	SR	BD	DF	RA	TW	RL	FA
1.3	0.6	0.6	3.2	10.4	0.8	50.5	50.5
FU	RH	RW	UC	UD	TP	TL	
0.7	2.4	2.4	1.0	00.1	00.9	10.4	

HIGHLAND MAGIC DUNCAN
USA 000635862 YSP 7JE177
USDA 8/1/98 10574 DAUS 1503HRDS 1XKIP
99XR 685M 0.08% 44F 2XILE
99XR 0.00% 25P 106PS 113CYS
AJCA 8/1/98 7337 DAUS
PTAT 99XR 1.6 PTI 99XR 186

WF/LM CHIEF BARB-ET
USA 003453823 W547
PPA 4595M 122F 137P 514PS 524CYS
USDA PTA 8/1/98 2RECS 88XR 89XILE
1155M 28F 33P 124PS 125CYS
AJCA 8/1/98 PTAT 87XR 1.3 PTI 87XR 223
305 2X ME AVG 2L 21734M 897F 742P
2-03 305 2 17800 4.3 760 3.5 618 DHIR
4-02 305 2 19910 4.1 813 3.4 685 DHIR

94%

WF/LM DUNCAN BARBER-ET
USA 000654500 YSP 7JE290
USDA 8/1/98 287 DAUS 182HRDS 51XKIP
99XR 1448M -0.04% 62F 59XILE
99XR -0.06% 45P 184PS 190CYS
AJCA 8/1/98 101 DAUS
PTAT 90XR 2.9 PTI 92XR 298

MOLLY BROOK BRASS MAJOR
USA 000644248 YSP 29JE2865
USDA 8/1/98 4442 DAUS 946HRDS 7XKIP
99XR 931M 0.10% 59F 18XILE
99XR 0.01% 37P 150PS 163CYS
AJCA 8/1/98 2768 DAUS
PTAT 99XR 3.6 PTI 99XR 277

AMES BROOK DOLLY

AMES SOONER DELLA
USA 003693681 A9994 A9994
PPA 2480M 137F 88P 362PS 385CYS
USDA PTA 8/1/98 5RECS 59XR 85XILE
767M 42F 32P 121PS 134CYS
AJCA 8/1/98 PTAT 53XR 1.2 PTI 55XR 217
305 2X ME AVG 4L 16223M 777F 595P
2-00 289 3 16990 4.9 825 3.7 630 DHIR
3-00 305 3 17850 4.7 847 3.9 691 DHIR
4-01 260 3 15960 5.0 797 3.6 578 DHIR
5-00 305 3 19790 4.8 946 3.6 719 DHIR
6-01 108 3 8920 5.0 447 3.3 295 DHIR

81%

2-10 78%

ST	SR	BD	DF	RA	TW	RL	FA	FU	RH	RW	UC	UD	TP	TL
25	26	28	27	24	24	15	37	25	31	31	20	31	25	24

OFFICIAL AJCA PERFORMANCE PEDIGREE

FEMALE

AMES MITCHELL PAM
USA 110433110

BORN 7/28/98

TATTOO A1771

A1771

P-LEVEL P4

OWNER: 215650

IA STATE DAIRY SCIENCE DEPT
123 KILDEE HALL
AMES, IA 50011-0001

DATE ISSUED: 10/26/98

BREEDER: 215650

IA STATE DAIRY SCIENCE DEPT
123 KILDEE HALL
AMES, IA 50011-0001

PA 1101M 43F 36P 140PS 146CYS

1.8 TYPE 231PTI

ST	SR	BD	DF	RA	TW	RL	FA
0.8	1.0	0.6	2.4	1.1.2	0.7	50.0	50.3
FU	RH	RW	UC	UD	TP	TL	
0.6	1.7	1.8	0.8	0.8	0.8	0.4	

2

AVON ROAD TRADER	
USA 000652247	YSP 73E252
USDA 8/1/98 1259 DAUS	470HRDS 419RIP
99XR 996M 0.10%	61F 15XILE
99XR -0.02%	35P 150PS 158CYS
AJCA 8/1/98 701 DAUS	
PTAT 98XR 2.8	PTI 97XR 239

ESPLIN SKY MAGGIE	
USA 003745624	237E 237E
PPA 3596M 162F 127P 495PS 526CYS	
USDA PTA 8/1/98 3RECS	60XR 99XILE
1441M 59F 52P 196PS 210CYS	
AJCA 8/1/98 PTAT 55XR 1.6	PTI 56XR 316
305 2X ME AVG 3L 21116M	959F 756P
2-01 305 2 17400 4.7	825 3.7 638 DHIR
3-05 305 2 20290 4.4	893 3.8 765 DHIR
4-10 305 2 18790 4.8	897 3.5 661 DHIR

90%

WILSONVIEW TRADER MITCHELL	
USA 000662383	YSP 14JE314
PA 1219M 60F 44P 173PS 184CYS	
2.2 TYPE 278PTI	

AMES LESTER PAM	
USA 003847627	A1288 A1288
DHI HERD #42850274	CONTROL #1288
PPA 1651M 33F 33P 144PS 128CYS	
USDA PTA 8/1/98 2RECS	52XR 78XILE
983M 25F 28P 106PS 107CYS	
AJCA 8/1/98 PTAT 48XR 1.4	PTI 49XR 184
305 2X ME AVG 2L 16171M	755F 549P
2-02 286 3 13870 4.5	622 3.3 460 DHIR
3-01 305 3 17140 4.8	821 3.4 588 DHIR

HIGHLAND DUNCAN LESTER	
USA 000645454	YSP 29JE2875
USDA 8/1/98 9009 DAUS	1334HRDS 8XRIP
99XR 1110M -0.12%	34F 13XILE
99XR -0.01%	40P 142PS 152CYS
AJCA 8/1/98 6001 DAUS	
PTAT 99XR 2.6	PTI 99XR 250

AMES ANDY PRIDE	
USA 003771452	A1105 A1105
PPA 2225M 38F 46P 191PS 172CYS	
USDA PTA 8/1/98 3RECS	56XR 73XILE
965M 24F 24P 97PS 94CYS	
AJCA 8/1/98 PTAT 54XR -0.1	PTI 52XR 143
305 2X ME AVG 3L 14963M	651F 513P
1-09 288 3 14780 4.1	610 3.4 506 DHIR
2-09 305 3 18650 4.5	843 3.5 660 DHIR
3-10 282 3 12320 4.5	560 3.4 413 DHIR

71%

2-08 80%
ST SR BD DF RA TW RL FA FU RH RW UC UD TP TL
20 22 27 29 32 26 20 31 37 31 33 25 40 26 25

OFFICIAL AJCA PERFORMANCE PEDIGREE

FEMALE

AMES BARBER DEBRA
USA 110473659

BORN 9/26/98
TATTOO A1794

A1794

P-LEVEL P4

PA 1101M 56F 38P 155PS 163CYS
2.1 TYPE 258PTI
ST SR BD DF RA TW RL FA
2.0 0.8 0.8 2.5 L0.8 0.9 S0.6 S0.3
FU RH RW UC UD TP TL
0.8 1.9 1.9 1.3 S0.5 C0.9 L0.7

OWNER: 215650
IA STATE DAIRY SCIENCE DEPT
123 KILDEE HALL
AMES, IA 50011-0001

11/24/98

215650
IA STATE DAIRY SCIENCE DEPT
123 KILDEE HALL
AMES, IA 50011-0001

3

HIGHLAND MAGIC DUNCAN

USA 000635862 YSP 7JE177
USDA 11/1/98 10584 DAUS 1506HRDS 1%RIP
99%R 682M 0.08% 44F 5%ILE
99%R 0.00% 25P 106PS 113CYS
AJCA 11/1/98 7337 DAUS
PTAT 99%R 1.6 PTI 99%R 186

WFIL&M CHIEF BARB-ET

USA 003453823 W547
PPA 4631M 123F 138P 518PS 528CYS
USDA PTA 11/1/98 2RECS 88%R 89%ILE
1186M 28F 34P 127PS 128CYS
AJCA 11/1/98 PTAT 87%R 1.3 PTI 87%R 225
305 2X ME AVG 2L 21734M 897F 742P
2-03 305 2 17800 4.3 760 3.5 618 DHIR
4-02 305 2 19910 4.1 813 3.4 685 DHIR

94%

WFIL&M DUNCAN BARBER-ET

USA 000654500 YSP 7JE290
USDA 11/1/98 534 DAUS 272HRDS 71%RIP
97%R 1455M -0.02% 65F 65%ILE
97%R -0.07% 45P 187PS 182CYS
AJCA 11/1/98 150 DAUS
PTAT 93%R 3.1 PTI 93%R 309

AMES BROOK DEEDEE

USA 003832127 A1222 A1222
DHI HERD #42850273 CONTROL #1222
PPA 2269M 139F 92P 366PS 399CYS
USDA PTA 11/1/98 3RECS 55%R 79%ILE
748M 48F 31P 122PS 134CYS
AJCA 11/1/98 PTAT 57%R 1.1 PTI 54%R 206
305 2X ME AVG 2L 15847M 788F 580P
1-11 305 3 15670 4.9 775 3.7 574 DHIR
3-00 305 3 14820 5.0 744 3.8 567 DHIR

MOLLY BROOK BRASS MAJOR

USA 000844248 YSP 29JE2885
USDA 11/1/98 4484 DAUS 953HRDS 6%RIP
99%R 941M 0.11% 60F 23%ILE
99%R 0.01% 37P 151PS 164CYS
AJCA 11/1/98 2785 DAUS
PTAT 99%R 3.6 PTI 99%R 278

AMES JIM DEEDEE

USA 003414390 A8293 A9293
PPA -353M -21F -13P -54PS -57CYS
USDA PTA 11/1/98 5RECS 64%R 15%ILE
-138M 1F 0P -3PS 1CYS
AJCA 11/1/98 PTAT 59%R -0.9 PTI 61%R 13
305 2X ME AVG 8L 13742M 840F 518P
1-11 305 2 10700 4.5 478 3.8 405 DHIR
3-00 305 2 12880 4.8 818 3.8 495 DHIR
4-01 281 2 14020 4.7 860 3.8 534 DHIR
5-01 297 2 11170 4.6 512 3.8 422 DHIR
6-02 305 3 15590 4.3 678 3.7 574 DHIR
7-05 272 3 14190 4.5 644 3.7 530 DHIR
8-04 277 3 14060 4.7 662 3.7 524 DHIR
9-04 305 3 17580 4.8 837 3.6 629 DHIR

76%

1-11 78% 2-08 76% 3-05 82%

ST SR BD DF RA TW RL FA FU RH RW UC UD TP TL
31 27 24 34 29 26 17 31 31 34 33 39 32 28 26

OFFICIAL AJCA PERFORMANCE PEDIGREE

FEMALE

AMES LEOPOLD DEEDEE
USA 110473877

BORN 9/29/98
TATTOO A1795

A1795

P-LEVEL P8

PA 1248M 45F 51P 176P\$ 194CYS
2.1 TYPE 305PTI

ST SR BD DF RA TW RL FA
0.8 1.1 0.8 2.7 L0 9.0 9 S0.1 S0.3
FU RH RW UC UD TP TL
0.8 2.0 2.2 0.9 D0.4 C1.4 L0.4

OWNER: 215650
IA STATE DAIRY SCIENCE DEPT
123 KILDEE HALL
AMES, IA 50011-0001

11/24/98

215650
IA STATE DAIRY SCIENCE DEPT
123 KILDEE HALL
AMES, IA 50011-0001

4

FAIR WEATHER LEOPOLD-ET
USA 000656575 7JE317
USDA 11/1/98 45 DAUS 34HRDS 4%RIP
84%R 1398M -0.12% 47F 50%ILE
84%R -0.03% 48P 177P\$ 188CYS
AJCA 11/1/98 23 DAUS
PTAT 74%R 1.4 PTI 79%R 271

AMES BERRETTA DEEDEE
USA 003925489 A1423 A1423
DHI HERD #42850273 CONTROL #1423
PPA 2250M 102F 111P 373P\$ 430CYS
USDA PTA 11/1/98 1RECS 47%R 97%ILE
1097M 43F 53P 174P\$ 201CYS
AJCA 11/1/98 PTAT 48%R 2.8 PTI 46%R 338
305 2X ME AVG 1L 18531M 941F 713P
1-11 305 3 18380 5.1 832 3.8 630 DHIR

HIGHLAND SANDY JOE
USA 000643706 YSP 29JE2857
USDA 11/1/98 216 DAUS 137HRDS 1%RIP
96%R 1150M -0.34% 1F 1%ILE
96%R -0.12% 25P 86P\$ 78CYS
AJCA 11/1/98 130 DAUS
PTAT 94%R 0.7 PTI 95%R 84

FROSTY VALE YANKEE LEONA 88%
USA 003427352 F84V
PPA 3437M 79F 102P 374P\$ 381CYS
USDA PTA 11/1/98 5RECS 77%R 94%ILE
1264M 34F 41P 148P\$ 155CYS
AJCA 11/1/98 PTAT 73%R 1.2 PTI 75%R 253
305 2X ME AVG 5L 18048M 778F 640P
2-00 305 2 14910 4.3 636 3.6 540 DHIR
3-00 305 2 15940 4.1 654 3.6 580 DHIR
4-08 305 2 17320 4.4 765 3.7 636 DHIR
6-02 305 2 17760 4.6 813 3.6 634 DHIR

MASON BOOMER SOONER BERRETTA
USA 000651835 YSP 7JE254
USDA 11/1/98 8456 DAUS 1137HRDS 32%RIP
99%R 1500M -0.27% 28F 93%ILE
99%R 0.06% 66P 201P\$ 229CYS
AJCA 11/1/98 5429 DAUS
PTAT 99%R 3.8 PTI 99%R 407

AMES LESTER DEEDEE 84%
USA 003813405 A1194 A1194
PPA 1742M 110F 83P 308P\$ 348CYS
USDA PTA 11/1/98 4RECS 56%R 87%ILE
796M 49F 38P 140P\$ 159CYS
AJCA 11/1/98 PTAT 58%R 0.8 PTI 54%R 222
305 2X ME AVG 3L 16282M 798F 600P
2-01 305 3 14570 5.1 749 3.9 582 DHIR
3-02 273 3 13730 5.0 680 3.7 513 DHIR
4-01 305 3 20620 4.7 972 3.5 731 DHIR

3-00 85%

ST SR BD DF RA TW RL FA FU RH RW UC UD TP TL
30 32 34 39 26 28 31 38 36 35 39 34 35 28 31