

1999 Iowa FFA Dairy Cattle Career Development Event  
Phase C - Production and Management Questions and Problems  
September 18, 1999  
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) boil 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. Heifers should be bred so that they calve at \_\_\_\_\_ of age.  
a) 21 days      b) 12-15 months      c) 22-24 months      d) 27-30 months
7. Many dairy producers are processing their corn 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. Which of the following quality tests is not routinely run on raw milk?:  
a) freezing point      b) bacteria      c) foreign material      d) milk urea nitrogen
9. Which of the following is not part of a milking system?  
a) straw      b) pulsator      c) vacuum pump      d) inflation

10. What does the term MIG refer to?  
a) management intensive grazing  
b) more intensive growth  
c) mammary interstitial gland  
d) milk is good
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. Which of the following feeds usually contain the most protein?  
a) alfalfa hay    b) corn silage    c) corn grain    d) soybean oil meal
13. Which of the following feeds usually contain the most energy?  
a) alfalfa hay    b) corn silage    c) corn grain    d) soybean oil meal
14. Good milking hygiene involves:  
a) dipping teats before milking.  
b) dipping teats after milking.  
c) milking udders that are clean and dry.  
d) all of the above.  
e) only b) and c) above
15. When should newborn calves receive their first feeding of colostrum?  
a) within 2 hr.    b) within 12 hr.    c) within 24 hr.    d) within 48 hr.
16. Nutrient management or manure management is a concern of dairy farmers (and the general public) because of potential problems caused by:  
a) odors  
b) run-off into streams, rivers, and lakes  
c) application of excessive amounts of nitrogen and phosphorus on land  
d) all of the above  
e) a and b above
17. Which of the following terms does **not** refer to a type of milking parlor?  
a) rapid exit    b) rotary    c) step-up    d) greenhouse
18. How soon after calving should cows be re-bred?  
a) 21-30 days    b) 50-70 days    c) 305 days    d) 365 days
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?  
a) homogenization    b) pasteurization    c) fertilization    d) conception
20. The best percentile ranking that a sire can attain is:  
a) 50    b) 55    c) 99    d) 100
21. Milk is a good source of which nutrient?  
a) ascorbic acid    b) calcium    c) folic acid    d) Vitamin C

22. Body condition scoring of dairy cattle is often done to:
- a) decide which animals to cull
  - b) decide when to dry a cow off
  - c) decide which cows to breed
  - d) evaluate the overall nutrition and feeding program
  - e) all of the above
23. What does the term dystocia refer to?
- a) genetic defect
  - b) hardware
  - c) difficult birth
  - d) displaced abomasum
24. Bovine somatotropin (BST) is also known as:
- a) somatic cells
  - b) oxytocin
  - c) growth hormone
  - d) steroid hormone
25. The state with the highest average milk production per cow (21,476 lb.) in 1998 was:
- a) Washington
  - b) Iowa
  - c) Wisconsin
  - d) Louisiana

**DHIA Questions - 5 points each**

Use the attached DHI forms (202, 220, and 520) to answer the following five questions (26-30).

26. What is the current rolling herd average milk production for this herd?
- a) 21,766
  - b) 18,286
  - c) 21,059
  - d) 21,020
27. Which cow contributed the most somatic cells to the bulk tank (on the current test day)?
- a) 1570
  - b) 1504
  - c) 1607
  - d) 1045
28. What was the average milk production of the milking cows on the last test day?
- a) 57.4 lb.
  - b) 54.4 lb.
  - c) 58.7 lb.
  - d) 55.9 lb.
29. Which group of animals have the highest average somatic cell counts?
- a) 1<sup>st</sup> lactation
  - b) 2<sup>nd</sup> lactation
  - c) 3<sup>rd</sup> & over lact.
  - d) dry cows
30. Which cow gave the most milk on the most recent test day?
- a) 1118
  - b) 1221
  - c) 1225
  - d) 1126

**Dairy Management Problems - 5 points each**

31. A lot of hay consisting of small square bales averaging 50 lb/bale costs \$2.50 per bale. What is the cost of one ton of this hay?
- a) \$75.00
  - b) \$100.00
  - c) \$125.00
  - d) \$150.00

32. A cow eats 40 lb. of haylage that contains 45% moisture. How many pounds of dry matter does she consume?  
a) 18                      b) 22                      c) 40                      d) 45
33. A concentrate mix consists of 1500 lb of dry shelled corn and 500 lb of 44% soybean oil meal. If corn costs \$1.68/bu and soybean meal costs \$150.00/ton, what is the total cost of this mix?  
a) \$73.50                      b) \$79.50                      c) \$82.50                      d) \$116.25

Use the following information to calculate answers for questions 34 and 35:

Most Iowa dairy producers are now paid for their milk under a system that pays for various components rather than volume. A producer is paid the following amounts:

- \$ 1.94 per pound of protein
- \$ 1.43 per pound of milk fat
- \$ 0.44 per pound of other solids
- \$ 0.01 per cwt. for every 10,000 SCC below 400,000

A cow is producing 110 lb. of milk that contains 3.20% protein, 3.70% milk fat, 5.50% other solids.

34. What is the total value of her milk per day?

- a) \$3.82                      b) \$13.92                      c) \$15.31                      d) \$15.59

35. How much additional income would be generated for this producer by selling 100,000 lb of high quality milk (averaging 150,000 SCC) per month?

- a) \$250.00                      b) \$500.00                      c) \$2500.00                      d) \$25.00

Use the information in the attached table (taken from the of the August, 1999 Holstein Sire Summary) to determine the best answer to questions 36-40.

**Sire Evaluation Questions - (5 points each)**

36. Which bull would be most likely to reduce calving difficulty in heifers?  
a) Winchester      b) Lantz      c) Convincer      d) Gabe
37. If a herd owners primary selection objective was to increase pounds of milk produced then the first choice of service sire should be:  
a) Winchester      b) Lantz      c) Convincer      d) Gabe
38. If herd owners are primarily interested in increasing the protein test of their cows, then the first choice of service sire should be:  
a) Winchester      b) Lantz      c) Convincer      d) Gabe
39. Which bull should do the most to improve overall type?  
a) Winchester      b) Lantz      c) Convincer      d) Gabe
40. Daughters of which sire would be expected to generate the most income if you were selling your milk under a component pricing system to a plant that made cheese?  
a) Winchester      b) Lantz      c) Convincer      d) Gabe

**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      c) Ames Barber Debra  
b) Ames Mitchell Pam      d) Ames Leopold Deedee
45. Which of the four calves should produce the most pounds of protein?  
a) Ames Barber Dana      c) Ames Barber Debra  
b) Ames Mitchell Pam      d) Ames Leopold Deedee

# HERD SUMMARY DHI-202

UNIVERSITY DAIRY FARM  
123 KILDEE HALL  
AMES IA 50011

# REPRODUCTIVE SUMMARY OF CURRENT BREEDING HERD

BR OF HEED	51
TOTAL COWS IN BREEDING HERD	51
COWS WITH NO SERVICE DATES OR DIAG. OPEN	
OPEN VWP TO 100 DAYS	15
OPEN OVER 100 DAYS	4
NUMBER COWS	15
% OF BREEDING HERD	29
VOLUNTARY WAITING PERIOD (VWP)	50
NUMBER COWS	4
NUMBER DIAG. OPEN	15
NUMBER COWS BRED BUT NOT DIAG. PREG.	2
DAYS OPEN AT LAST SERVICE VWP TO 100 DAYS	11
DAYS OPEN AT LAST SERVICE OVER 100 DAYS	4
NUMBER COWS	2
NUMBER DIAG. PREG.	8
DAYS TO 1ST SERVICE	31

# REPRODUCTIVE SUMMARY OF TOTAL HERD

SERVICES PER PREGNANCY	PREG. COWS	ALL COWS	PROJECTED MINIMUM	
			CALVING INTERVAL	DAYS OPEN
AVG. DAYS TO 1ST SERVICE	82	2.0	13.2	122
NUMBER OVER 100 DAYS	6	2.3	13.2	121
NUMBER FEWER THAN 100 DAYS	3	2.2	13.6	134
1ST LACT	5	2.2	13.3	125
2ND LACT	3	2.2	13.0	
3+ LACTS	8	2.2		
ALL LACTS	16	2.2		
% OF SERVICE	75	19		

# REPRODUCTIVE SUMMARY OF CURRENT BREEDING HERD

SERVICES FOR PAST 12 MONTHS	SERVICE NUMBER	% SUCCESSFUL	SERVICE SIRE PTA \$
174	39	+243	
107	37	+244	
167	29	+329	
459	34	+302	
ABORTIONS	THIS MONTH	PAST YEAR	
ACTUAL			13
APPARENT			

# REPRODUCTIVE SUMMARY OF TOTAL HERD

SERVICES FOR PAST 12 MONTHS	SERVICE NUMBER	% SUCCESSFUL	SERVICE SIRE PTA \$
174	39	+243	
107	37	+244	
167	29	+329	
459	34	+302	
ABORTIONS	THIS MONTH	PAST YEAR	
ACTUAL			13
APPARENT			

# YEARLY REPRODUCTIVE SUMMARY

DATE OF TEST	% HEATS OBS.	NUMBER SERVICES	% SUCCESSFUL	NUMBER CONFIRM PREG.	NUMBER CALVING	TOTAL PREGNANT COWS
MONTH DROPPED						
8-27-98	49	34	18	9	30	70
10-05-98	72	79	22	3	25	55
11-05-98	69	55	44	18	11	63
12-10-98	56	51	33	27	16	80
1-05-99	51	33	52	14	8	90
2-03-99	57	37	38	21	8	102
3-12-99	47	36	33	20	19	107
4-07-99	47	22	41	9	19	103
5-06-99	63	31	45	12	6	112
6-09-99	57	35	43	17	15	120
7-07-99	57	27		8	14	115
8-04-99	30	11		10	34	103
AVERAGES	55	38	34	14	17	93
TOTALS		451			205	

# BIRTH SUMMARY

DAM'S LACT NUM.	MALES		FEMALES		CALVING DIFFICULTY SCORE					
	ALIVE	DEAD	ALIVE	DEAD	1	2	3	4	5	% 4+5
1	40	39	32	14	13	5	10	20		
2+	62	59	84	18	7	1	5	5		
TOTAL	102	98	116	32	20	6	15	11		

# COWS TO BE MILKING, DRY, CALVING, BY MONTH

MONTH	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR
* MILKING	174	181	184	184	189	191	190	212
DRY	32	22	21	26	27	30	29	11
COWS TO CALVE	19	11	12	12	11	10	18	18
HEIFERS TO CALVE	6	3	8	9	12	9	4	14

\* ASSUMES 3.0% PER MONTH CULLING RATE.

# REMARKS:

HERD CODE AND TYPE OF RECORD	DATE TESTED
ST. CO. HERD NO.	MO. DAY YEAR
42 85 0273	8 4 99
DHIRAPCS	ALL STRINGS

# PRODUCTION, INCOME, & FEED COST SUMMARY

DESCRIPTION	DAILY AVERAGE PER COW ON TEST DAY	ROLLING YEARLY HERD AVERAGES
TOTAL COWS	195	182.5
COWS IN MILK	160	160.6
MILK LBS. (ALL COWS)	44.2	18,286
FAT LBS. (ALL COWS)	1.54	740
FAT PERCENT	3.5	4.0
PROTEIN LBS. (ALL COWS)	1.39	598
PROTEIN PERCENT	3.2	3.3
MILK LBS. (MILKING COWS)	54.4	
LBS. CONSUMED		
SILAGE		
OTHER SUCCULENTS OR BLENDED RATIONS		
DRY FORAGE		
OTHER FEEDS		
PASTURE (YES OR NO)		
CONCENTRATES		
VALUE OF PRODUCT \$	6.77	5.24
COST OF CONCENTRATES \$		2,937
TOTAL FEED COST \$		
INCOME OVER FEED COST PER COWZ. MILK \$	12.85	3.7
MILK BLEND PRICE	3.2	15.91
PER CWT	3.9	3.3

# MISCELLANEOUS HERD INFORMATION

ASSOC. 400	SAMPLES REV. AT LAB	DRPC MAILED
SUPV. 97	MO. DAY	MO. DAY
	8 5 8	5
TEST DAY	YEARLY AVERAGE	
8526	9082	
REPORTED AV. DAILY BULK TANK WTS (LBS)	7680	8669
% DEVIATION	+11.0	+4.8

SUM OF TEST DAY WTS (LBS)	8526
REPORTED AV. DAILY BULK TANK WTS (LBS)	7680
% DEVIATION	+11.0

### STAGE OF LACTATION PROFILE

NUMBER MILKING	STAGE OF LACTATION (DAYS)			TOTAL OR AVERAGE
	1 THRU 40	41 THRU 100	101 THRU 305	
1ST LACT	13	7	18	38
2ND LACT	13	9	14	36
3+ LACTS	12	5	10	27
ALL LACTS	38	21	42	101

  

NUMBER DAILY MILK PRODUCTION	STAGE OF LACTATION (DAYS)			TOTAL OR AVERAGE
	1 THRU 40	41 THRU 100	101 THRU 305	
1ST LACT	50	65	60	58
2ND LACT	64	73	64	67
3+ LACTS	63	65	67	65
ALL LACTS	59	68	63	63

  

%	STAGE OF LACTATION (DAYS)			TOTAL OR AVERAGE
	1 THRU 40	41 THRU 100	101 THRU 305	
FAT %	4.0	3.5	3.2	3.6
PROT %	3.0	2.8	3.1	3.0
FAT %	3.7	3.5	3.7	3.7
PROT %	3.2	3.0	3.2	3.2
FAT %	3.8	3.9	2.9	3.4
PROT %	3.2	3.0	3.1	3.2
FAT %	3.8	3.7	3.3	3.6
PROT %	3.1	3.0	3.1	3.1

### CURRENT SOMATIC CELL COUNT SUMMARY

HERD PRODUCTION	MILK - 12,768	
	LOST FROM SCC THIS TEST PERIOD	\$ - 1,640
% COWS SCC SCORE		
0, 1, 2, 3	43	5
4	25	21
5	13	13
6	15	13
7, 8, 9	18	9
OVER 1,100,000	3	8

### PRODUCTION BY LACTATION SUMMARY

AGE GROUP	NUMBER ANIMALS	AVG. AGE YR-MO	NUM. IDENTIFIED BY		NO. ANIMALS WITH PTAS / PAS CHANGES	AVERAGE PTAS / PAS	
			SIRE	DAM		ANIMAL	SIRE
0-12	107	0-06	102	107	106	+116	+162
13+	93	1-07	92	93	93	+121	+158
REPLACE -MENTS	200	1-00	194	200	199	+118	+156
1ST LACT	71	2-00	71	71	33	+106	+147
2ND LACT	66	3-01	66	66	65	+98	+130
3+ LACTS	58	5-03	58	58	58	+86	+100
ALL LACTS	195	3-04	195	195	156	+95	+127
% IDENTIFIED (PRODUCING FEMALES)	100		100	100	NUMBER REFERS IN 13+ AGE GROUP OVER 30 MONTHS OF AGE		

### GENETIC PROFILE OF SERVICE SIRES

PROVEN A.J. SIRES	GENETIC PROFILE OF SERVICE SIRES
85	2
35	9
+186	+182
79	

### YEARLY SUMMARY OF COWS ENTERED AND LEFT THE HERD

YEARLY SUMMARY OF COWS ENTERED AND LEFT THE HERD	COWS ENTERED HERD		COWS LEFT HERD	
	NUM.	%	NUM.	%
1ST LACT	77	42	20	11
2ND LACT	19	10	1	1
3+ LACTS	27	15	3	3
ALL LACTATIONS	77	42	66	36

### YEARLY PRODUCTION AND MASTITIS SUMMARY

TEST PERIOD (MILK LBS. DROPPED)	TEST PERIOD AV. MILK LBS. ADDED		TEST PERIOD AV. MILK LBS. DROPPED	
	8-27-98	10-05-98	11-05-98	12-10-98
34	141	192	195	176
39	149	184	194	182
31	159	179	202	180
35	163	178	197	183
26	172	179	194	185
29	186	176	165	195
37	195	175		
26	194	182		
29	202	180		
34	197	183		
28	194	185		
28	165	195		
AVERAGES	176	182	176	182

### YEARLY PRODUCTION AND MASTITIS SUMMARY

MONTH DROPPED	TEST DAY AVERAGES (MILKING COWS)		STANDARDIZED 150 DAY MILK	
	DAYS IN TEST PERIOD	NUMBER OF COWS IN TEST DAY	DAYS IN MILK	MILK
8-27-98	34	192	141	55.9
10-05-98	39	184	149	60.6
11-05-98	31	179	159	60.3
12-10-98	35	178	163	62.1
1-05-99	26	179	172	59.8
2-03-99	29	176	186	55.5
3-12-99	37	175	195	57.0
4-07-99	26	182	194	56.5
5-06-99	29	180	202	54.7
6-09-99	34	183	197	55.4
7-07-99	28	185	194	56.1
8-04-99	28	195	165	54.4
AVERAGES	31	182	176	57.4

### DRY COW PROFILE

NUMBER DAYS DRY PERIODS	AVERAGE AGE MONTHS	SUMMIT MILK		NUMBER DRY LESS THAN 40 DAYS	NUMBER DRY OVER 40-70 DAYS	NUMBER DRY OVER 70 DAYS
		MILK	FAT			
66	24	65	21020	789	641	+187
58	37	80	21323	848	687	+1558
195	63	87	20804	826	656	+52
124	40	76	21059	820	661	+578

### WEIGHTED SCC (NEAREST 1,000)

DATE OF TEST	DAYS IN TEST PERIOD	NUMBER OF COWS IN TEST DAY	TEST DAY AVERAGES (MILKING COWS)	STANDARDIZED 150 DAY MILK
8-27-98	34	192	141	55.9
10-05-98	39	184	149	60.6
11-05-98	31	179	159	60.3
12-10-98	35	178	163	62.1
1-05-99	26	179	172	59.8
2-03-99	29	176	186	55.5
3-12-99	37	175	195	57.0
4-07-99	26	182	194	56.5
5-06-99	29	180	202	54.7
6-09-99	34	183	197	55.4
7-07-99	28	185	194	56.1
8-04-99	28	195	165	54.4
AVERAGES	31	182	176	57.4

### IDENTIFICATION AND GENETIC SUMMARY

AGE GROUP	NUMBER ANIMALS	AVG. AGE YR-MO	NUM. IDENTIFIED BY	NO. ANIMALS WITH PTAS / PAS CHANGES	AVERAGE PTAS / PAS
0-12	107	0-06	102	107	+116
13+	93	1-07	92	93	+121
REPLACE -MENTS	200	1-00	194	200	+118
1ST LACT	71	2-00	71	71	+106
2ND LACT	66	3-01	66	66	+98
3+ LACTS	58	5-03	58	58	+86
ALL LACTS	195	3-04	195	195	+95
% IDENTIFIED (PRODUCING FEMALES)	100		100	100	

### PRODUCTION BY LACTATION SUMMARY

AGE GROUP	NUMBER ANIMALS	AVG. AGE YR-MO	NUM. IDENTIFIED BY		NO. ANIMALS WITH PTAS / PAS CHANGES	AVERAGE PTAS / PAS	
			SIRE	DAM		ANIMAL	SIRE
0-12	107	0-06	102	107	106	+116	+162
13+	93	1-07	92	93	93	+121	+158
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39	149	184	194	182
31	159	179	202	180
35	163	178	197	183
26	172	179	194	185
29	186	176	165	195
37	195	175		
26	194	182		
29	202	180		
34	197	183		
28	194	185		
28	165	195		
AVERAGES	176	182	176	182

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# MONTHLY REPORT DHI-220

NIVERSITY DAIRY FARM

PAGE 1

Herdcodes		Breed Assoc.		Supervisor		Record Plan		Sample Date	
2-85-0273 X 1400		97		22 DHIRAPCS		8-04-99			
Cow Identification		Test Date		Test Date		Test Date		Test Date	
Sire Identification		Milk SCCA		Milk SCCA		Milk SCCA		Milk SCCA	

P	B	C	SCC Actual & Milk Wts. by Test Day					Lactation to Date					Condition Affecting Record					Due Date Codes													
			Test Date	Milk	SCCA	Test Date	Milk	SCCA	Test Date	Milk	SCCA	Test Date	Milk	SCCA	Days In Milk	Days 3X	ERPA \$ Deviation		Milk	Fat	Prot.	Income/Feed Cost	C	R	Prot. Libs.	Fat Libs.	Prot. %	305-2x-ME	Difference From Herdmates	Times Bred	Date Bred
H	14555872	28	50	45	34	23	14	DRY																		27566	1154	882	7	12-16	9*22
H	14789616	83	101	90	88	68	63	49.6	36																	23195	788	719	1	2-02	11*09
H	14789621	76	80	73	66	51	45	18.6	31																	24341	881	660	1	1-02	10*09
H	14696589	57	55	48	40	27	10	DRY																		13914	597	465	1	12-19	9*25
H	14872865	DRY	DRY	T-F	100	109	111	99.7	34																	23841	855	719	2	6-25	3-31
H	14872899	97	87	78	49	45	33	DRY																		28292	1045	857	2	12-14	9*20
A	987502	64	46	63	62	49	35	32.5	38																	16223	672	485	1	1-19	10*28
H	15012443	75	68	58	45	35	DRY	DRY																		24646	1027	775	2	11-23	8*30
B	827464	24	19	13	5	DRY	DRY	83.3	42																	BWT: 1400					
J	3813405	42	33	31	25	DRY	DRY	65.7	47																	BWT: 1100					
H	15132936	48	44	40	39	27	30	DRY																		16651	582	536	4	12-20	9*26
G	3011227	35	38	30	DRY	DRY	66	56.3	40																	14919	664	493			
H	15152867	118	110	108	105	72	80	60.4	37																	34654	1289	1045	5	6-27	4-02
J	3832127	52	48	49	35	32	30	DRY																		16162	764	598	1	12-09	9*14
H	15152874	67	67	70	63	52	52	44.1	36																	25639	1092	852			
J	3832128	62	58	54	52	45	29	21.7	45																	13904	686	522	1	2-04	11*10
H	15152877	82	70	76	80	57	41	DRY																		25739	1050	765	1	12-25	10*01
H	15152878	60	81	80	73	67	56	51.1	34																	27604	1157	928	9	6-07	3*13

Herdcodes		Breed Assoc.		Supervisor		Record Plan		Sample Date	
2-85-0273 X 1400		97		22 DHIRAPCS		8-04-99			

Herdcodes		Breed Assoc.		Supervisor		Record Plan		Sample Date	
2-85-0273 X 1400		97		22 DHIRAPCS		8-04-99			
Lab Fees		State Fees		DRFC Fees		Local Fees		Total Amount	
56.00		63.61		8-04-99		28.35		153.81	

# SOMATIC CELL COUNT PROFILE DHI-520

11/96

HERDCODE  
42850273

UNIVERSITY DAIRY FARM

SCC OPTION: SCORE/ACTUAL  
ACTUAL (NEAREST 1000)

DATE OF TEST  
08/04/99 PAGE 1

SCCS Cell Cnt (1000)	SCCS Cell Cnt (1000)	SCCS Cell Cnt (1000)
0	0-18	4 141-283
1	19-35	5 284-565
2	36-52	6 566-1,130
3	53-70	7 1,131-2,263
4	71-87	8 2,263-4,523
5	88-105	9 4,524-9,999

↓ SORTED BY % OF BULK TANK SCC

HERD AVG. SCC COUNT  
536

BARN NAME OR COW INDEX	TEST DAY MILK		SOMATIC CELL COUNT					MASTITIS INFECT. *	% BULK TANK SCC	AV. SCC W/ID THIS COW & COWS ABOVE THIS COW	LACT. AVG. SCC SCORE	#SCC TESTS THIS LACT.	#TESTS OVER 3.9 SCC SCORE	DAYS IN MILK	DUE DATE	LACT. NO.	RATING	
	PREVIOUS	CURRENT	TEST DATE	TEST DATE	TEST DATE	TEST DATE	TEST DATE											THIS TEST
			03-12	04-07	05-06	06-09	07-07											
1607	80	74			54	50	857	7352	CHR	1	474	4.9	4	2	117		1	C
1334	57	41	230	2111	4223	6860	650	6860	CHR	5	443	7.3	6	6	183	1-19-00	3	E
9988								6400	NEW	5	443	9.0	1	1	0		7	
1332	33	32	1300	1213	1393	1715	1300	6400	CHR	4	419	7.1	6	6	302	12-09-99	3	D
1553		56						3940	NEW	4	394	8.3	1	1	18		2	
1473	62	61	1715	606	746	919	1213	3200	CHR	4	373	6.2	6	6	239	4-24-00	2	B
1597	68	72	1056	303	650	283	2986	2786	CHR	4	351	5.8	6	6	254	3-03-00	1	A
1661		58						2599	NEW	3	334	7.7	1	1	23		1	
1493	110	79					2111	2425	CHR	3	313	7.5	2	2	58		2	C
1462	83	67		264	606	400	985	2263	CHR	3	296	5.8	5	5	128		2	D
1570								5199	NEW	2	296	8.7	1	1	0		2	
1356	104	55	14	22	606	857	400	1970	CHR	2	284	4.2	6	4	174	1-18-00	3	C
1513	80	87					3430	1213	CHR	2	273	7.4	2	2	41		2	D
1501		99					2111	1056	CHR	2	263	6.9	2	2	34		2	
1504	18	16	492	2599	4851	4223	5572	4526	CHR	1	254	6.1	6	6	486	8-30-99	1	A
1324	25	22	1970	857	857	429	3676	2425	CHR	1	247	7.1	6	6	299	11-23-99	3	C
1328		61						1493	NEW	1	237	6.9	1	1	9		4	
1427		47						1393	NEW	1	230	6.8	1	1	19		3	
1572	51	39	27	29	47	33	230	1300	CHR	1	224	2.7	6	2	286	12-10-99	1	C
1225	52	44	93	62	4851	246	187	1213	CHR	1	218	4.0	6	3	391		4	A
1400	48	45	800	566	696	1300	1131	1213	CHR	1	212	6.9	6	6	393		2	A
1388	78	55	132	50	100	29	264	1131	CHR	1	204	3.4	6	2	167	2-01-00	3	D
1569		61						1131	NEW	1	196	6.5	1	1	18		2	
9911	58	49	400	283	857	985	696	1056	CHR	1	190	5.2	6	6	278	11-09-99	7	B
1221	80	60	400	919	2425	1493	919	985	CHR	1	184	5.4	6	6	320	4-02-00	4	A
1342	61	67	246	187	283	373	857	919	CHR	1	176	4.4	6	5	245		3	A
1048	45	19	460	325	460	13	650	985	CHR	0	174	4.5	6	5	415	10-09-99	5	C
1283								985	NEW	0	174	6.3	1	1	0		4	
1292	29	36	57	13	174	696	857	985	CHR	0	170	4.0	6	3	183	2-17-00	4	E
1434	28	22	1715	606	696	606	857	800	CHR	0	168	6.4	6	6	379	12-19-99	2	C
9921	37	29	746	264	528	264	2425	800	CHR	0	165	5.7	6	6	335	12-31-99	7	E
1045	63	50	5972	2599	2986	429	325	746	CHR	0	161	6.9	6	6	264	11-09-99	6	C
1675								746	NEW	0	161	5.9	1	1	0		1	
1289		36						696	NEW	0	158	5.8	1	1	16		4	
1555		66						650	NEW	0	153	5.7	1	1	13		2	
1449	52	33	246	746	566	303	400	606	CHR	0	151	4.8	6	6	343	10-23-99	2	A
1563	45	40	174	325	115	123	566	566	CHR	0	148	4.0	6	3	373	10-28-99	1	B
1234	56	51	857	1838	606	325	429	528	CHR	0	145	5.7	6	6	352	3-13-00	4	A
1505	36	29	132	38	71	44	41	528	NEW	0	143	1.8	6	1	440	11-28-99	1	A
1535	17	23	71	187	246	152	1838	528	CHR	0	142	3.5	6	3	378	10-12-99	1	D
1575	51	52	174	1300	303	2111	2425	528	CHR	0	139	5.7	6	5	253	12-01-99	1	C
1632	70	67				174	214	528	CHR	0	135	4.4	3	2	91		1	C
1657								528	NEW	0	135	5.4	1	1	0		1	
1404		61						492	NEW	0	131	5.3	1	1	18		3	
1549								492	NEW	0	131	5.3	1	1	0		2	

\* NEW \* Animals with SCC Score > 4 (200,000) for the first time this lactation.

# Active Holsteins — August 1999 — By Net Merit

NAAB CODE	NAAB C.E. %	BREED ASSOC TYPE DATA	USDA-DHIA GENETIC EVALUATIONS																						
			PREDICTED TRANSMITTING ABILITIES												SAMPLING INFORMATION				BREED ASSOC DATA				NAAB C.E. %		
			NM \$\$	RK	MILK	FAT	FAT %	PRO LBS	PRO %	YD	R	CM	SCS	R	PL	R	HRDS	NO.	DAUS	CD	PTAT	R	TPI™	DB	R
7HO4637		LADYS-MANOR WINCHESTER-ET.....	*TL	268	99	3055	102	-0.04	82	-0.06	87	252	3.19	72	2.6	64	52	63	S	1.57	82	1628	-8	98	
29HO8375		RICECREST LANTZ-ET.....	*TL	267	99	3109	69	-0.19	108	0.04	90	275	3.46	75	1.5	53	92	130	S	1.99	89	1794	10	91	
29HO8343		WA-DEL CONVINCER-ET.....	*TL	261	99	2806	88	-0.06	87	0.00	88	258	3.30	71	2.8	51	68	107	S	2.34	85	1731	11	89	
97HO4		528 ETAZON CELSIUS-ET.....	*TL	253	99	2687	99	0.00	100	0.06	98	268	3.49	93	0.7	82	347	651		1.74	97	1788	10	97	
14HO2881		GARJO ELTON GABE-ET.....	*TL	253	99	2524	112	0.08	85	0.02	85	257	3.57	65	2.4	47	59	76	S	0.80	80	1587	10	85	

**Pedigree Evaluation - 25 points**

The pedigrees of four animals are listed on the following pages. Rank these animals based on their pedigrees and indicate your ranking on the answer sheet in the "judging scorecard" in the third column under the Pedigree Evaluation heading.

**OFFICIAL AJCA PERFORMANCE PEDIGREE**

FEMALE

**AMES BARBER DANA**  
USA 110433129

BORN 7/24/98  
TATTOO A1768      A1768      P-LEVEL P5

PA 1106M 57F 40P 159P\$ 169CY\$  
2.5 TYPE 265PTI  
ST SR BD DF RA TW RL FA  
1.3 0.6 0.6 3.2 L0.4 0.8 50.5 50.5  
FU RH RW UC UD TP TL  
0.7 2.4 2.4 1.0 D0.1 C0.9 L0.4

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



**HIGHLAND MAGIC DUNCAN**

USA 000635862      YSP      7J1E177  
USDA 8/1/98 10574 DAUS 1503HRDS 1%RIP  
99%R 685M 0.08% 44F 2%ILE  
99%R 0.00% 25P 106P\$ 113CY\$  
AJCA 8/1/98 7337 DAUS  
PTAT 99%R 1.6      PTI 99%R 186

**WF/L&M CHIEF BARB-ET**

USA 003453823      W547  
PPA 4595M 122F 137P 514P\$ 524CY\$  
USDA PTA 8/1/98 2RECS 88%R 89%ILE  
1155M 28F 33P 124P\$ 125CY\$  
AJCA 8/1/98 PTAT 87%R 1.3      PTI 87%R 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/L&M DUNCAN BARBER-ET**

USA 000654500      YSP      7J1E290  
USDA 8/1/98 287 DAUS 182HRDS 51%RIP  
95%R 1448M -0.04% 62F 59%ILE  
95%R -0.06% 45P 184P\$ 190CY\$  
AJCA 8/1/98 101 DAUS  
PTAT 90%R 2.9      PTI 92%R 298

**AMES BROOK DOLLY**

USA 003847623      A1265      A1265  
DHI HERD #42850274      CONTROL #1265  
PPA 1419M 120F 70P 280P\$ 316CY\$  
USDA PTA 8/1/98 2RECS 52%R 86%ILE  
763M 52F 34P 133P\$ 148CY\$  
AJCA 8/1/98 PTAT 47%R 2.1      PTI 48%R 231  
305 2X ME AVG 2L 15012M 793F 564P  
2-02 305 3 14370 5.2 744 3.8 549      DHIR  
3-04 305 3 16820 5.4 909 3.7 627      DHIR

**MOLLY BROOK BRASS MAJOR**

USA 000644248      YSP      29J1E2865  
USDA 8/1/98 4442 DAUS 946HRDS 7%RIP  
99%R 931M 0.10% 59F 18%ILE  
99%R 0.01% 37P 150P\$ 163CY\$  
AJCA 8/1/98 2768 DAUS  
PTAT 99%R 3.6      PTI 99%R 277

**AMES SOONER DELLA**

USA 003693681      A9994      A9994  
PPA 2480M 137F 88P 362P\$ 385CY\$  
USDA PTA 8/1/98 5RECS 59%R 85%ILE  
767M 42F 32P 121P\$ 134CY\$  
AJCA 8/1/98 PTAT 53%R 1.2      PTI 55%R 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

2

PA 1101M 43F 36P 140P\$ 146CY\$  
1.8 TYPE 231PTI  
ST SR BD DF RA TW RL FA  
0.8 1.0 0.6 2.4 L1.2 0.7 SO.0 SO.3  
FU RH RW UC UD TP TL  
0.6 1.7 1.8 0.8 DO.8 CO.8 LO.4

**AVON ROAD TRADER**  
USA 000652247 YSP 7JE252  
USDA 8/1/98 1259 DAUS 470HRDS 41%RIP  
99%R 996M 0.10% 61F 15%ILE  
99%R -0.02% 35P 150P\$ 158CY\$  
AJCA 8/1/98 701 DAUS  
PTAT 98%R 2.8 PTI 97%R 239

**ESPLIN SKY MAGGIE** 90%  
USA 003745624 237E 237E  
PPA 3596M 162F 127P 495P\$ 526CY\$  
USDA PTA 8/1/98 3RECS 60%R 99%ILE  
1441M 59F 52P 196P\$ 210CY\$  
AJCA 8/1/98 PTAT 55%R 1.6 PTI 56%R 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

**WILSONVIEW TRADER MITCHELL**  
USA 000662383 YSP 14JE314  
  
PA 1219M 60F 44P 173P\$ 184CY\$  
2.2 TYPE 278PTI

**AMES LESTER PAM**  
USA 003847627 A1288 A1288  
DHI HERD #42850274 CONTROL #1288  
PPA 1651M 33F 33P 144P\$ 128CY\$  
USDA PTA 8/1/98 2RECS 52%R 78%ILE  
983M 25F 28P 106P\$ 107CY\$  
AJCA 8/1/98 PTAT 48%R 1.4 PTI 49%R 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 8%RIP  
99%R 1110M -0.12% 34F 13%ILE  
99%R -0.01% 40P 142P\$ 152CY\$  
AJCA 8/1/98 6001 DAUS  
PTAT 99%R 2.6 PTI 99%R 250

**AMES ANDY PRIDE** 71%  
USA 003771452 A1105 A1105  
PPA 2225M 38F 46P 191P\$ 172CY\$  
USDA PTA 8/1/98 3RECS 56%R 73%ILE  
965M 24F 24P 97P\$ 94CY\$  
AJCA 8/1/98 PTAT 54%R -0.1 PTI 52%R 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

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

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

11/24/98

**AMES BARBER DEBRA**  
USA 110473659

BORN 9/26/98  
TATTOO A1794 A1794 P-LEVEL P4

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

3

PA 1101M 56F 38P 155P\$ 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

**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 106P\$ 113CYS  
AJCA 11/1/98 7337 DAUS  
PTAT 99%R 1.6 PTI 99%R 186

**WFL&M CHIEF BARB-ET** 94%  
USA 003453823 W547  
PPA 4631M 123F 138P 518P\$ 528CYS  
USDA PTA 11/1/98 2RECS 88%R 89%ILE  
1186M 28F 34P 127P\$ 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

**WFL&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 187P\$ 192CYS  
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 366P\$ 399CYS  
USDA PTA 11/1/98 3RECS 55%R 79%ILE  
746M 46F 31P 122P\$ 134CYS  
AJCA 11/1/98 PTAT 57%R 1.1 PTI 54%R 206  
305 2X ME AVG 2L 15947M 786F 590P  
1-11 305 3 15670 4.9 775 3.7 574 DHIR  
3-00 305 3 14920 5.0 744 3.8 567 DHIR

**MOLLY BROOK BRASS MAJOR**  
USA 000644248 YSP 29JE2865  
USDA 11/1/98 4484 DAUS 953HRDS 6%RIP  
99%R 941M 0.11% 60F 23%ILE  
99%R 0.01% 37P 151P\$ 164CYS  
AJCA 11/1/98 2785 DAUS  
PTAT 99%R 3.6 PTI 99%R 278

**AMES JIM DEEDEE** 76%  
USA 003414390 A9293 A9293  
PPA -353M -21F -13P -54P\$ -57CYS  
USDA PTA 11/1/98 5RECS 64%R 15%ILE  
-138M 1F 0P -3P\$ 1CYS  
AJCA 11/1/98 PTAT 59%R -0.9 PTI 61%R 13  
305 2X ME AVG 8L 13742M 640F 518P  
1-11 305 2 10700 4.5 478 3.8 405 DHIR  
3-00 305 2 12880 4.8 618 3.8 495 DHIR  
4-01 281 2 14020 4.7 660 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

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 110473677

BORN 9/29/98  
TATTOO A1795      A1795      P-LEVEL P8

PA 1248M 45F 51P 176P\$ 194CY\$  
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

**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\$ 78CY\$  
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\$ 381CY\$  
USDA PTA 11/1/98 5RECS 77%R 94%ILE  
1264M 34F 41P 148P\$ 155CY\$  
AJCA 11/1/98 PTAT 73%R 1.2      PTI 75%R 253  
305 2X ME AVG 5L 18046M 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

**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\$ 188CY\$  
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\$ 430CY\$  
USDA PTA 11/1/98 1RECS 47%R 97%ILE  
1097M 43F 53P 174P\$ 201CY\$  
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    16380    5.1    832    3.8    630    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\$ 229CY\$  
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\$ 349CY\$  
USDA PTA 11/1/98 4RECS 56%R 87%ILE  
796M 49F 38P 140P\$ 159CY\$  
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    562    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 36 36 35 39 34 35 28 31



# 1999 Iowa FFA Dairy Cattle Production and Management Test Answer Sheet

Name: KEY

Chapter (Town): \_\_\_\_\_

Contestant No: \_\_\_\_\_

### General

(2 points each)

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

### DHIA

(5 points each)

26. B
27. C
28. B
29. C
30. A

### Dairy Problems

(5 points each)

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

### Sire Summary

(5 points each)

36. A
37. B
38. B
39. C
40. B

### Pedigree Questions

(5 points each)

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

### Pedigree Evaluation

(25 points)

CUTS 4-1-3-2  
8-2-6

1234	5
1243	10
1324	8
1342	16
1423	18
1432	21
2134	1
2143	6
2314	0
2341	8
2413	10
2431	9
3124	7
3142	15
3214	3
3241	7
3412	19
3421	15
4123	22
4132	25
4213	18
4231	17
4312	24
4321	20