

1998 Iowa FFA Dairy Cattle Production and Management Test
September 19, 1998
West Union, Iowa

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

Objective questions - 2 points each:

1. At what age do dairy cattle develop upper incisors?
a) birth b) 3 days c) 3 months d) never
2. Which part of the milking machine cycle both massages and milks the teat?
a) vacuum pump b) pulsation c) inflation d) bulk tank
3. Supplementing selenium and Vitamin E has helped prevent what dairy cattle problem?
a) ketosis b) hardware c) milk fever d) retained placenta
4. What is the time period that a cow carries a calf called?
a) gestation b) lactation c) parturition d) rumination
5. Which mineral is required in the highest amount in diets fed to lactating dairy cows?
a) calcium b) phosphorus c) potassium d) sodium
6. The only part of a milking machine that touches the cow is the:
a) pulsator b) vacuum pump c) inflation d) milk line
7. The primary criteria for deciding when a heifer should be bred is:
a) age b) body weight c) breed d) service sire to be used
8. The optimum site for semen deposition when breeding AI is in the:
a) vagina b) uterine body c) ovary d) placenta
9. What is the optimum length of a cow's dry period?
a) 21 days b) 30 days c) 60 days d) 9 months
10. Which of the following represents the largest single cost associated with producing milk?
a) facilities b) feed c) labor d) veterinarians & drugs
11. Cows can become infected with mastitis causing organisms that are 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. What is the first milk secreted after calving called?
a) colostrum b) antibodies c) casein d) antibiotics
16. What term describes the removal of an animal from the herd?
a) colostrum b) culling c) conception d) calving
17. The two nutrients of most concern regarding manure application to land are:
a) Ca and P b) N and P c) Se and Vitamin E d) K and Mg
18. What is the optimum age at first calving?
a) 21 days b) 12-15 mos. c) 22-24 mos. d) 30 months
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. Body condition 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
21. Relative Feed Value (RFV) is an index of forage quality that is based on which of the following nutrient components?
a) ADF & CP b) CP & NDF c) ADF & NDF d) ADF, NDF, & CP
22. The number one reason or cause of poor reproductive performance is poor:
a) semen quality b) heat detection c) records d) inseminators
23. The best percentile ranking that a sire can attain is:
a) 50 b) 55 c) 99 d) 100
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 (20,976 lb.) in 1997 was:
a) Arizona 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) 26,402 b) 26,991 c) 27,556 d) 27,905
27. Which cow contributed the most somatic cells to the bulk tank (on the current test day)?
a) Cherish b) Amber c) Celeste d) Clara
28. What was the average milk production of the milking cows on the last test day?
a) 67.3 lb. b) 69.8 lb. c) 72.9 lb. d) 76.2 lb.
29. Which group of animals have the most genetic merit on average?
a) 0-12 mos. b) 13+ mos. c) 1st lactation d) 2nd lactation
30. Which cow gave the most milk on the most recent test day?
a) Maui b) Krystal c) Melinda d) Carly

Dairy Management Problems - 5 points each

31. A lot of hay consisting of small square bales averaging 50 lb/bale costs \$120.00 per ton. What is the cost of one bale?
a) \$0.60 b) \$2.40 c) \$3.00 d) \$6.00
32. A cow eats 40 lb. of corn silage that contains 65% moisture. How many pounds of dry matter does she consume?
a) 26 b) 14 c) 16.25 d) 7
33. A concentrate mix consists of 1500 lb of dry shelled corn and 500 lb of 44% soybean oil meal. If corn costs \$2.24/bu and soybean meal costs \$150.00/ton, what is the total cost of this mix?
a) \$97.50 b) \$70.10 c) \$142.50 d) \$160.00

HERD SUMMARY DHI-202

HERD CODE AND TYPE OF RECORD		DATE TESTED	
ST.	HERD NO.	MO.	YEAR
42	99 9999	8	14 198

P A G E
 DEMO HERD
 9999 AVENUE
 1 SOME WHERE

PRODUCTION, INCOME, & FEED COST SUMMARY

DESCRIPTION	DAILY AVERAGE PER COW ON TEST DAY		HOLDING YEARLY HERD AVERAGES	
	NUMBER	%	NUMBER	%
TOTAL COWS	77		76.7	
COWS IN MILK	68	88	69.0	90
MILK LBS. (ALL COWS)	67.3		26.991	
FAT LBS. (ALL COWS)	2.40		1.005	
FAT PERCENT	3.6		3.7	
PROTEIN LBS. (ALL COWS)	2.13		880	
PROTEIN PERCENT	3.2		3.3	
MILK LBS. (MILKING COWS)	76.2			
MILKING COWS				
LBS. CONSUMED				
SILAGE	50	46	15,219	%ENE
OTHER SUCCULENTS OR BLENDED RATIONS				
DRY FORAGE	15	14	5,654	
OTHER FEEDS				
PASTURE	NO	NO		
CONCENTRATES	30	27	9,566	
VALUE OF PRODUCT \$	10.84	9.57	3,807	
COST OF CONCENTRATES \$	1.78	1.69	669	
TOTAL FEED COST \$	3.26	3.11	1,213	
INCOME OVER FEED COST \$	7.58	6.46	2,594	
FEED COST PER CWT. MILK \$	4.28	4.62	4.50	
MILK BLEND PRICE	14.53	3.7	3.2	14.18
				3.7
				3.3

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MISCELLANEOUS HERD INFORMATION	ASSOC.		SAMPLES		DRPC	
	NO.	DATE	NO.	DATE	NO.	DATE
SHIPPED-TEST DAY COMPARISON	431	8/14	80	8/14	8	8/17
SUM OF TEST DAY WTS (LBS)	5183					
REPORTED AV. DAILY BULK TANK WTS (LBS)	4945					
% DEVIATION	+4.8					

REPRODUCTIVE SUMMARY OF CURRENT BREEDING HERD

TOTAL COWS IN BREEDING HERD	36
VOLUNTARY AND INVOLUNTARY PERIOD (WVP)	45
COWS WITH NO SERVICE DATES OR DIAG. OPEN	7
OPEN VWP TO 100 DAYS	19
OPEN OVER 100 DAYS	9
NUMBER COWS	25
% OF BREEDING HERD	
COWS BRED SINCE 6-10	
DAYS OPEN AT LAST SERVICE	2
FEWER THAN 100 DAYS	4
OPEN 100 DAYS	11
OPEN OVER 130 DAYS	39
DAYS TO 1ST SERVICE	117

REPRODUCTIVE SUMMARY OF TOTAL HERD

SERVICES PER PREGNANCY	SERVICES PER PREGNANCY		PROJECTED MINIMUM	
	PREG. COWS	ALL COWS	CALVING INTERVAL	DAYS OPEN
1ST LACT	1.4	1.6	13.7	135
2ND LACT	1.2	2.2	14.9	174
3+ LACTS	2.2	2.3	16.3	215
% OF ALL SERVICES	1.6	2.0	14.9	173
				15.7

BIRTH SUMMARY

DAWMS LACT NUM.	MALES		FEMALES		CALVING DIFFICULTY SCORE				
	ALIVE	DEAD	ALIVE	DEAD	1	2	3	4	5
1	38	3	1	1					
2+	25	1	19	1					
TOTAL	63	4	20	2					

COWS TO BE MILKING, DRY, CALVING, BY MONTH

MONTH	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR
* MILKING	64	65	61	56	48	47	41	36
DRY	10	5	6	7	13	10	14	18
COWS TO CALVE	7	4	4	4	4	8	5	6
HEIFERS TO CALVE								

* ASSUMES 4.9% PER MONTH CULLING RATE.

REMARKS:

TEST OR PRIOR AP	2ND	3RD
MILKING TIMES (WGT)	5:55 PM	6:20 AM
WGT	Y	Y

YEARLY REPRODUCTIVE SUMMARY

DATE OF TEST	% HEATS OBS.	NUMBER SERVICES	% SUCC-ESS-FUL	NUMBER CONFIRM PREG.	NUMBER CALVING	TOTAL PREGNANT COWS
MONTH DROPPED	19	10	40	6	32	
9-18-97	19	8	50	7	34	
10-17-97	32	14	50	8	33	
11-14-97	6	3	33	4	34	
12-13-97	22	8	75	1	39	
1-16-98	35	13	77	9	36	
2-14-98	13	3	33	14	32	
3-13-98	17	4	100	5	35	
4-14-98	20	8	25	12	30	
5-15-98	20	10	70	8	29	
6-16-98	27	12	50	3	29	
7-15-98	17	7	7	6	28	
8-14-98	47	17	17	7	31	
AVERAGES	23	9	54	7	33	
TOTALS		107		88		

MONTHLY

REPORT DHI-220

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JEMO HERD

Herdcode	Breed	Assoc.	Supervisor	Record Plan	Sample Date	Test Interval		Received at Lab	Condition Affecting Record		Due Date Codes																																																																																																		
						Cow Months	Length		7 - Sold Feet and Legs	8 - Solid Disease		9 - Estimated	10 - Abnormal																																																																																																
12-99-9999	H	431	80	20 DHIR	8-14-98	77.0	30	7-16	8-14	1 - Sold Dairy	2 - Solid Udder	3 - Solid Udder	4 - Solid Udder	5 - Solid Udder	6 - Solid Udder	7 - % Fat Estimated By Supervisor	8 - % Fat Estimated By Supervisor	9 - % Fat Estimated By Supervisor	10 - % Fat Estimated By Supervisor	11 - In Heat On Test Day	12 - In Heat On Test Day	13 - In Heat On Test Day	14 - In Heat On Test Day	15 - In Heat On Test Day	16 - In Heat On Test Day	17 - In Heat On Test Day	18 - In Heat On Test Day	19 - In Heat On Test Day	20 - In Heat On Test Day	21 - In Heat On Test Day	22 - In Heat On Test Day	23 - In Heat On Test Day	24 - In Heat On Test Day	25 - In Heat On Test Day	26 - In Heat On Test Day	27 - In Heat On Test Day	28 - In Heat On Test Day	29 - In Heat On Test Day	30 - In Heat On Test Day	31 - In Heat On Test Day	32 - In Heat On Test Day	33 - In Heat On Test Day	34 - In Heat On Test Day	35 - In Heat On Test Day	36 - In Heat On Test Day	37 - In Heat On Test Day	38 - In Heat On Test Day	39 - In Heat On Test Day	40 - In Heat On Test Day	41 - In Heat On Test Day	42 - In Heat On Test Day	43 - In Heat On Test Day	44 - In Heat On Test Day	45 - In Heat On Test Day	46 - In Heat On Test Day	47 - In Heat On Test Day	48 - In Heat On Test Day	49 - In Heat On Test Day	50 - In Heat On Test Day	51 - In Heat On Test Day	52 - In Heat On Test Day	53 - In Heat On Test Day	54 - In Heat On Test Day	55 - In Heat On Test Day	56 - In Heat On Test Day	57 - In Heat On Test Day	58 - In Heat On Test Day	59 - In Heat On Test Day	60 - In Heat On Test Day	61 - In Heat On Test Day	62 - In Heat On Test Day	63 - In Heat On Test Day	64 - In Heat On Test Day	65 - In Heat On Test Day	66 - In Heat On Test Day	67 - In Heat On Test Day	68 - In Heat On Test Day	69 - In Heat On Test Day	70 - In Heat On Test Day	71 - In Heat On Test Day	72 - In Heat On Test Day	73 - In Heat On Test Day	74 - In Heat On Test Day	75 - In Heat On Test Day	76 - In Heat On Test Day	77 - In Heat On Test Day	78 - In Heat On Test Day	79 - In Heat On Test Day	80 - In Heat On Test Day	81 - In Heat On Test Day	82 - In Heat On Test Day	83 - In Heat On Test Day	84 - In Heat On Test Day	85 - In Heat On Test Day	86 - In Heat On Test Day	87 - In Heat On Test Day	88 - In Heat On Test Day	89 - In Heat On Test Day	90 - In Heat On Test Day	91 - In Heat On Test Day	92 - In Heat On Test Day	93 - In Heat On Test Day	94 - In Heat On Test Day	95 - In Heat On Test Day	96 - In Heat On Test Day	97 - In Heat On Test Day	98 - In Heat On Test Day	99 - In Heat On Test Day	100 - In Heat On Test Day
H 14570294	H	106	84	105	98	115	120	110	89	77.0	38	7.96	TEL	4	8-19	361	38572	1462	1169	3877	36230	1357	1086	2	5-09	2-13																																																																																			
H 15939298	H	13	13	13	41	29	54	54	54	94.0	33	9.03	TER	1	5-20	87	7843	297	229	735	27338	1000	804																																																																																						
H 14829104	H	126	115	120	110	89	77.0	38	7.96	77.0	38	7.96	TEL	4	8-19	361	38572	1462	1169	3877	36230	1357	1086	2	5-09	2-13																																																																																			
H 15982236	H	81	101	102	91	70	60	60	37	5.46	37	5.46	TON	1	1-20	207	16698	596	506	1640	26023	936	785	1	5-12	2-16																																																																																			
H 15014963	H	112	92	87	71	70	80	67.3	42	7.44	42	7.44	TWL	3	10-02	317	29613	1201	954	3044	29637	1167	933	2	5-13	2-17																																																																																			
AVG IN MLK										76.2	36	7.50			1380	192	68		100	27556	1025	866																																																																																							
HERD AVG										67.3	36	6.54			1370	170	77		88	27905	1030	878																																																																																							
15826621	H	79	66	64	54	53	42			DRY	8-12		CHO	1	9-10	336	21180	934	719	2233	25283	1102	836																																																																																						
29H6656	H	264	152	123	174	107	86						662	3	2-01																																																																																														
15805188	H	85	73	68	70	70	60			IN MILK			CUT	1	9-20	305	23161	780	776		28951	944	934																																																																																						
7H4034	H	41	76	107	115	33	100						188	3	2-03																																																																																														
15805188	H	85	73	68	70	70	60			DRY	8-12		CUT	1	9-20	326	24376	824	819	2314	28951	944	934																																																																																						
7H4034	H	41	76	107	115	33	100						188	3	2-03																																																																																														
14978130	H	89	85	77	83	63	58			DRY	8-10		DAN	3	5-21	446	41135	1358	1261	3622	32254	1043	957																																																																																						
7H980	H	47	50	35	54	115	246						129	5	4-05																																																																																														
14235079	H	103	91	87	60	68	65			IN MILK			DOR	5	7-19	365	31722	1104	978		29447	1029	905																																																																																						
9H924	H	57	400	141	200	115	123						70	31	6-09																																																																																														
14943511	H	92	116	106	95	85	85			SOLD	8-13		HA	3	3-05	162	15739	568	430	2	904	22887	815	643																																																																																					
7H583	H	152	31	19	87								949	201	5-06																																																																																														
											Lab Fees	23.80	Local Fees		10.01	Total Amount		68.76																																																																																											

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EMO HERD	Breed/Assoc.	Supervisor	Record Plan	Sample Date	Condition Affecting Record	Due Date Codes
2-99-9999	H 1431	80	20 DHIR	8-14-98	1 - Solid Feet and Legs 2 - Solid Dairy 3 - Solid Low Production 4 - Solid Reproductive Prob. 5 - Solid Injury or Other 6 - Died 7 - Solid Mastitis 8 - Solid Disease 9 - Solid Udder X - Solid Reason Not Reported B - Rec. Started or Ended by Abortion C - 305 Day Rec. Has Been Computed A - Abnormal E - Estimated F - % Fat Estimated By Supervisor H - In Heat On Test Day I - Injected Prior or During Milking L - % Fat Estimated By Lab	* Conf. Preg. - Not Conf. Preg. B - To Breed F - Lead Feed P - Pren. Check

Cow Identification	Test Interval				Lactation to Date				Sample Day Data				305-2X-ME				Date Bred	Date	Action Needed		
	From		To		Lact. No.	Days in Milk	Milk Pounds	Fat Lbs	Prot. Lbs	C Incomer/Feed Cost	R Perst. %	Milk Fat	Prot. Fat	Difference From Herdmates	Date Bred	Date				Action Needed	
	Cow	Month	Length	From																	Days Dry
H 15328036	99	105	93	88	69	53	DRY	8-01	HOLLY	2	5-28	430	39794	195	321	3659	32671	937	1056		
H 15631863	81	73	69	59	52	46	DRY	7-20	JOPO	1	1-25	541	44578	1710	455	4489	35218	1243	1051		
H 15826619	84	78	73	64	75	61	IN MILK		KELLY	1	9-20	305	23985	886	822		30461	1099	1005		
H 15120766	93	79	73	70	67	72	IN MILK		MEGAN	3	7-20	365	30921	1074	1020		29717	1019	961		
H 35WHR7798	41	20	66	76	200	100	SOLD	8-13	MISTER	1		58	3596	158	108	2	377				
H 15014963	112	92	87	71	70	80	IN MILK		TWLIGHT	3	10-02	305	28774	1167	924		29637	1167	933		

Billing for period following 8-14-98 DRPO Fees 23.48 State Fees 11.47 Lab Fees 23.80 Local Fees 10.01 Total Amount 68.76

SOMATIC CELL COUNT PROFILE DHI-520

11/95

HERDCODE
42999999 DEMO HERD

SCC OPTION: SCORE/ACTUAL
ACTUAL (NEAREST 1000)

DATE OF TEST
08 14 98 PAGE 1

SCCS Cell Cnt (1000)	SCCS Cell Cnt (1000)	SCCS Cell Cnt (1000)	SCCS Cell Cnt (1000)
0	0-19	4	141-283
1	19-35	5	254-505
2	35-71	6	566-1,130
3	71-141	7	1,131-2,262
		8	2,263-4,523
		9	4,524-9,999

HERD AVG. SCC COUNT
527

↓ SORTED BY % OF BULK TANK SCC

BARN NAME OR COW INDEX	TEST DAY MILK		SOMATIC CELL COUNT					MASTITIS INFECT *	% BULK TANK SCC	AV. SCC W/O 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
			03-13	04-14	05-15	06-16	07-15											
CHERISH		60					7352	NEW	16	447	9.2	1	1	20		4		
CELESTE	65	62	3200	5199	2425	2263	1300	5199	CHR	11	389	5.8	6	6	892		5	A
MANDY	79	73	246	2111	4223	3430		2786	CHR	7	354	5.6	5	5	451		2	A
IRENE		82						1715	NEW	5	331	7.1	1	1	13		2	
CLARA	69	64	492	606	1213	1493	5199	1970	CHR	4	310	6.3	6	6	225	1-30-99	2	C
MABEL	83	63	566	746	2263	857	696	1970	CHR	4	288	5.6	6	6	244	2-10-99	5	F
AMBER	77	71	460	650	373	174	5972	1838	CHR	4	264	6.1	6	5	419		4	A
LOIS	115	108	528	230	400	325	919	1213	CHR	4	242	5.1	6	6	210	4-25-99	4	A
CARMEN	87	59						162	NEW	3	225	5.4	2	1	45		2	B
MARTHA	108	102				200	800	919	CHR	3	209	5.4	3	3	68		2	C
MARCY	87	43	76	62	62	246	107	1838	NEW	2	193	3.5	6	2	206	1-12-99	2	I
ANDREA	69	56	187	696	746	606	985	1393	CHR	2	177	4.5	6	5	256	2-28-99	4	I
LDLA	71	71	44	107	93		4851	919	CHR	2	165	4.3	5	2	205	2-06-99	2	I
TIFFANY	110	93		1300	1056	460	1970	606	CHR	2	155	6.2	5	5	153		4	I
KELLY	61	51	25	1131	985	528	696	566	CHR	1	150	3.9	6	5	329	10-09-98	1	I
INEZ	86	99					650	400	CHR	1	144	5.4	2	2	46		4	I
ALICE	58	91					919	325	CHR	1	140	5.5	2	2	58		2	I
TARA	90	100	13	13	115	27	162	264	NEW	1	137	2.0	6	1	202	4-26-99	2	I
LONI	81	58		132	187	162	132	400	NEW	0	132	3.9	5	1	144	3-02-99	1	I
MONICA	78	59	47	20	44	87	71	400	NEW	0	128	2.3	6	1	234	5-19-99	1	I
MARGO	67	56	325	348	200	141	132	373	CHR	0	124	4.2	6	4	165	2-23-99	2	I
S-29		63						325	NEW	0	121	4.7	1	1	14		1	I
CRISSY		88						283	NEW	0	117	4.5	1	1	21		2	I
DARLENE	68	66		81	174	230	348	283	CHR	0	114	4.0	5	3	150	5-18-99	1	I
CHRIS	75	63	13	13	50	71	87	264	NEW	0	111	2.0	6	1	168	5-10-99	2	I
CREAM	57	49	100	115	141	81	71	264	NEW	0	109	2.5	6	1	420	10-29-98	2	I
PROTEIN	103	94		31	13	23	62	264	NEW	0	104	1.8	5	1	149	5-06-99	2	I
FAITH	88	75	57	162	141	325	230	246	CHR	0	101	3.5	6	3	206	5-05-99	2	I
JELLY	50	63					3676	230	CHR	0	98	6.2	2	2	59		1	I
GARRIE2	71	61	57	107	141	100	152	230	NEW	0	96	3.4	6	1	284	12-05-98	1	I
HOPE	80	77	13	19	23	38	47	214	NEW	0	92	1.3	6	1	205	2-24-99	3	I
NOVA	60	51	17	54	107	87	152	214	NEW	0	90	2.3	6	1	496	5-17-99	2	I
MILLY		71						214	NEW	0	87	4.1	1	1	28		1	I
MINDY	84	79			44	47	31	200	NEW	0	84	2.3	4	1	123		1	I
ASTER	68	62			123	115	325	187		0	82	3.8	3	1	106	5-12-99	1	I
COLLEEN	72	75			200	373	283	174	PRV	0	79	4.3	3	3	106	5-18-99	1	I
KRYSTAL	83	116					492	174		0	75	4.6	1	1	39		3	I
CAMEO	58	54	115	107	107	141	132	162		0	73	2.6	5	0	268	12-15-98	1	I
LADY	94	86			18	17	29	132		0	71	1.4	3	0	118		3	I
MAUI	144	129	115	50	22	107	132	132		0	67	2.7	5	0	165		3	I
DORIS	65	53	400	141	200	115	123	132		0	65	3.3	5	2	392	1-07-99	5	I
MEGAN	72	59	20	66	76	200	100	132		0	64	2.4	5	1	391	10-02-98	3	I
GLORY	71	68		66	76	123	93	115		0	62	2.9	4	0	137	5-16-99	1	I
JOSIE	86	80	985	1970	1056	325	800	115	PRV	0	60	5.6	5	5	244	1-20-99	4	I
SILKY	72	60			62	31	47	93		0	59	2.1	3	0	99	3-29-99	1	I

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

SOMATIC CELL COUNT PROFILE DHI-520

11/96

HERDCODE
42999999 DEMO HERD S

SCC OPTION: SCORE/ACTUAL
ACTUAL (NEAREST 1000)

DATE OF TEST
08 14 98 PAGE 2

SCC SCORE TO ACTUAL CONVERSION CHART					
SCCS Cell Cnt (1000)	SCCS Cell Cnt (1000)	SCCS Cell Cnt (1000)	SCCS Cell Cnt (1000)	SCCS Cell Cnt (1000)	SCCS Cell Cnt (1000)
0	0-12	4	141-283	8	2,253-4,523
1	13-35	5	284-565	9	4,524-9,999
2	36-71	6	566-1,130		
3	72-141	7	1,131-2,252		

↓ SORTED BY % OF BULK TANK SCC

HERD AVG. SCC COUNT
527

BARN NAME OR COW INDEX	TEST DAY MILK		SOMATIC CELL COUNT					THIS TEST	MASTITIS INFECT *	% BULK TANK SCC	AV. SCC W/O 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											
			03-13	04-14	05-15	06-16	07-15											
TWILIGHT	80	67	44	62	132	107	62	93		0	58	2.0	5	0	317	2-17-99	3	B
CARLY	123	112	38	17	19	57	47	81		0	56	1.8	5	0	237		3	A
MITZE	122	113					23	81		0	54	1.8	1	0	59		2	C
GINNY	62	62	20	13	41	23	23	76		0	53	1.2	5	0	191	3-01-99	1	E
TERI	105	94				62	47	71		0	52	2.2	2	0	87		1	C
JULIET	122	114					41	71		0	51	2.1	1	0	47		4	D
HEIDI	50	53		66	54	76	93	66		0	50	2.5	4	0	135	4-27-99	1	E
MIMI	66	65		35	18	27	35	62		0	50	1.4	4	0	150	5-06-99	1	D
MISSY	92	81	13	214	44	23	38	57		0	49	1.5	5	1	273	3-01-99	1	B
TELLA	89	77	13	13	41	29	54	57		0	48	0.8	5	0	361	2-13-99	4	A
MINNIE	66	63	44	44	54	132	33	57		0	48	1.9	5	0	346	3-24-99	1	D
JASMINE	61	70	87	107	54	71	71	57		0	47	2.0	5	0	298	12-05-98	2	A
LIZZY	68	59	57	50	44	35	44	54		0	47	1.6	5	0	300	12-02-98	1	B
MOLLY	103	107		141	81	81	71	54		0	46	2.7	4	0	134	4-26-99	3	C
TONYA	60	60	93	50	115	66	62	54		0	45	2.4	5	0	207	2-16-99	1	D
FRANCES	103	89		13	13	35	33	54		0	44	1.0	4	0	148	5-17-99	2	C
MELINDA		120						54		0	42	2.1	0	0	30		3	
PRISSY	88	74		13	17	33	31	50		0	40	1.0	4	0	154		2	D
CLARISA	93	83		71	35	132	141	50		0	38	2.6	4	0	132	4-26-99	1	C
BETH	103	107				1056	200	44	PRV	0	35	4.1	2	2	68		4	D
CLASSY	95	107	41	325	54	47	50	44		0	29	2.1	5	1	208	4-18-99	4	B
CHANCEL		61						38		0	23	1.6	0	0	24		1	
COORA	95	87	13	25	20	25	20	23		0	0	0.6	5	0	208	5-12-99	3	B

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

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:

- \$ 2.07 per pound of protein
- \$ 2.30 per pound of milk fat
- \$ 0.07 per pound of other solids
- \$ 0.01 per cwt. for every 10,000 SCC below 400,000

A cow is producing 100 lb. of milk that contains 3.22% protein, 3.65% milk fat, 5.50% other solids.

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

- a) \$4.44
- b) \$15.35
- c) \$15.45
- d) \$38,856.55

35. How much additional income would be generated for this producer by selling 100,000 lb of high quality milk (averaging 50,000 SCC) per month?

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

Use the information in the table above (taken from the of the August, 1998 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) Sambo b) Marconi c) Rudolph d) none of these sires
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) Dennis b) Leadman c) Aero d) Elmspring
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) Dennis b) Sid c) Aero d) Luxemburg
39. Which bull should do the most to improve overall type?
a) Dennis b) Sid c) Aero d) Luxemburg
40. Daughters of which sire would be expected to generate the most income?
a) Dennis b) Sid c) Aero d) Luxemburg

Pedigree Evaluation - 50 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.

HOLSTEIN

NAAB CODE	SIRE NAME	%RHA	INTERBULL/USDA GENETIC EVALUATIONS														BREED ASSOC TYPE DATA			NAAB C.E. % DB R									
			PREDICTED TRANSMITTING ABILITIES							SAMPLING INFO.							BREED ASSOC TYPE DATA												
			NM \$	RK	MILK	FAT LBS	%	LBS	PRO	PRO	%	YD	MF	MFP	\$	\$	SCS	R	PL		R	NO.	HRDS	DAUS	PTAT	R	TPI™	DB	R
97HO52	HOL-STIENS BE DENNIS.....	*TL 96 -1	228	97	M	2291	82	-0.01	79	0.03	82	283	295						96	102	M	0.91	58	1477					
2200	DIXIE-LEE LEADMAN SID-ET.....	*TL 100 -NA	208	94	M	2791	53	-0.21	79	-0.04	84	308	287						100	107	M	0.54	60	1378					
180HO9606	HONDO AERO-ET.....	*TL 100 -NA	199	92	M	1598	77	0.08	73	0.10	82	213	257						98	103	M	0.99	59	1468					
97HO34	528 DELTA LUXEMBURG.....	*TL 100 -NA	195	90	M	1883	64	-0.02	74	0.07	85	230	258						158	185	M	0.85	62	1388					
2139	250 W-M-DRW NB ELSMSPRING-ET.....	100 -NA	193	90	M	2553	59	-0.15	82	0.01	83	290	290						106	115	M	-0.66	59	1277					
220HO9602	BEACHLAWN GELPRO TOBEY-ET.....	*TL 100 -NA	192	89	M	2292	57	-0.12	72	0.00	84	263	261						129	140	M	1.54	62	1442					
199HO2	S FERMO AEOSTAR RAVEN.....	100 -NA	190	88	M	1887	88	0.08	58	-0.01	86	250	245						82	158	M	1.72	71	1430					
73HO1745	LONG-HAVEN SAMBO-ET.....	*TL 100 -NA	189	88	M	2268	49	-0.15	65	-0.03	90	255	240						280	374	M	1.21	75	1314				10	92
220HO9601	HELDOSTAR.....	99 -1	188	87	M	1424	80	0.13	67	0.10	82	199	242						93	96	M	1.60	57	1481					
180HO9607	HAKONA LEA.....	100 -NA	186	86	M	1756	56	-0.04	70	0.07	81	212	239						85	88	M	1.47	59	1409					
2139	280 LESTER-ET.....	100 -NA	186	86	M	2092	59	-0.07	64	-0.01	74	246	240						40	108	M	1.31	65	1351					
199HO3	DEL SANTO CORSARO.....	96 -NA	183	83	M	1674	72	0.05	63	0.05	90	217	235						215	267	M	1.64	79	1395					
97HO51	ETAZON WALLACE.....	*TL 100 -NA	183	83	M	2073	49	-0.12	66	0.00	84	236	235						139	144	M	1.48	64	1359					
74HO175	MEADOW BRIDGE MEGABUCK-ET.....	*TL 100 -NA	180	81	M	2007	49	-0.11	72	0.04	87	230	245						129	251	M	1.43	71	1387					
2200	JO-WAL PRELUDE MATRIX-ET.....	*TL 100 -NA	179	80	M	1695	89	0.12	57	0.02	84	232	238						133	138	M	0.34	54	1284					
180HO9605	GREEN AERO.....	100 -NA	177	79	M	1401	76	0.11	62	0.08	79	194	228						70	72	M	1.24	58	1395					
198HO1	VALMADRE UMBRO-ET.....	100 -NA	174	77	M	1819	59	-0.03	61	0.01	82	220	226						68	80	M	1.23	65	1299					
20HO9603	250 GIBBON.....	100 -NA	172	75	M	1934	49	-0.09	81	0.09	82	223	261						91	95	M	1.01	59	1415					
73HO2371	DUNCAN PROGRESS-ET.....	100 -NA	169	73	M	1994	71	-0.01	47	-0.07	84	246	213						94	102	M	2.86	69	1392					
2139	250 GRAZER-ET.....	100 -NA	168	72	M	1668	56	-0.02	58	0.02	81	203	213						83	87	M	-0.18	56	1139					
72HO837	CRESCENTMEAD-A KIRBY-ET.....	100 -NA	168	72	M	2152	45	-0.15	66	-0.01	79	240	235						54	58	M	0.24	62	1223					
2200	DUPASQUIER SYMPHONY-ET.....	100 -NA	167	70	M	1778	53	-0.05	68	0.05	84	211	234						102	110	M	0.78	66	1316					
2139	250 RUSSELDAL GAINSAY-ET.....	100 -NA	167	70	M	1273	82	0.16	60	0.09	79	187	225						69	71	M	0.34	57	1269					
180HO9604	HONNEUR LE-ET.....	*TL 100 -NA	166	70	M	1975	39	-0.14	60	-0.01	82	219	212						91	102	M	1.69	60	1369					
73HO2272	COMESTAR TOP GUN-ET.....	100 -NA	165	69	M	1593	40	-0.08	64	0.06	83	183	209						79	85	M	2.04	66	1359					
73HO1965	STARTMORE RUDOLPH-ET.....	*TL 100 -NA	163	67	M	1724	48	-0.07	64	0.04	87	202	220						135	157	M	2.42	69	1440				7	97
97HO22	528 BERNARD.....	*TL 99 -1	163	67	M	2138	48	-0.13	60	-0.03	84	242	225						153	155	M	1.10	64	1254				8	84
28HO471	ROTHROCK LENNON-ET.....	*TL 100 -NA	163	67	M	2220	53	-0.12	77	0.03	75	253	265						28	40	M	0.53	58	1343					
73HO2194	CAERNARVON JAY-ET.....	100 -NA	161	64	M	1675	83	0.10	64	0.05	86	226	246						117	128	M	1.78	71	1478					
97HO16	528 HAVEP MARCONI-ET.....	*TL 100 -NA	160	63	M	1481	49	-0.02	64	0.08	85	180	213						137	158	M	1.63	68	1358				10	94
220HO9600	250 FATAL.....	*BL 96 -1	160	63	M	1260	51	0.02	72	0.15	82	161	224						98	108	M	2.04	56	1523					
73HO2193	SIR ROCKIE AARON-ET.....	100 -NA	157	59	M	1834	56	-0.05	51	-0.03	82	219	204						71	74	M	1.79	65	1315					
2139	250 SWIND GIMMICK-ET.....	100 -NA	157	59	M	1860	76	0.04	51	-0.03	79	238	220						65	67	M	0.58	56	1204					
39HO444	MARKWELL TWOMAR-ET.....	*TL 100 -NA	157	59	M	2233	33	-0.21	53	-0.08	77	239	202						44	47	M	1.85	61	1244				7	86
2139	250 RED-FEVER FIRST MIKE-ET.....	100 -NA	154	57	M	1606	54	-0.02	68	0.08	79	196	229						70	71	M	0.42	56	1267					

OFFICIAL AJCA PERFORMANCE PEDIGREE

DATE ISSUED 11-20-97 (T 440514)

FEMALE
AMES BERRETTA DOLLY
004020879
BORN 05-27-97
TATTOO A1639 A1639

P7

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

PA +902M +15F +41P +122PS +141CYS
+2.5 TYPE +261PTI

ST SR BD DF RA TW RL FA
+0.9 +0.6 +0.5 +2.2 LO.9 +1.0 PO.3 S1.3
FU RH RW UC UD TP TL
+1.5 +2.2 +2.2 +1.3 S1.3 C2.8 LO.7

REG NUMBER BIRTHDATE TATTOO



MASON BOOMER SOONER BERRETTA
000651835 YSP 7J254
USDA 11/97 4612 DAUS 876 HRDS 52% RIP
99%R +1556M -.26% + 32F 94%ILE
99%R +.06% + 68P +210P\$ +239CYS
AJCA 11/97 2465 DAUS 100%USA
PTAT 99%R +3.8 PTI 98%R +413

AMES LESTER DOLLY
003832129 A1229 A1229
DHI HERD #42-85-0274 CONTROL #07923
1-11 292 3 13530 4.5 606 3.9 531 DHIR
2-11 240 3 8860 4.5 400 3.8 339 DHIR
305 2X ME AVG 2L 12,711M 566F 489P
2-07 84% 3-04 73%
ST SR BD DF RA TW RL FA
28 25 23 25 17 19 18 27
FU RH RW UC UD TP TL
19 26 24 19 25 19 32
PPA - 380M - 52F - 5P -63P\$ -57CYS
USDA PTA 11/97 2RECS 52%R 43%ILE
+ 247M - 2F + 14P +34P\$ +42CYS
AJCA 11/97 PTAT 50%R +1.1 PTI 49%R +108

SOLDIERBOY BOOMER SOONER OF CJF
000640211 7J159
USDA 11/97 18238 DAUS 1914 HRDS 9% RIP
99%R +1513M -.33% + 19F 21%ILE
99%R -.11% + 40P +142P\$ +139CYS
AJCA 11/97 11921 DAUS 100%USA
PTAT 99%R +2.6 PTI 99%R +227
OSB E SETTLER SHADOW MAGGIE 95%
003459978 OSB D192
2-00 304 2 15530 5.0 778 3.7 576 DHIF
3-00 305 2 20040 5.1 1020 3.8 754 DHIF
4-03 305 2 26200 4.3 1125 4.01040 DHIF
5-06 305 2 25000 4.3 1068 4.11031 DHIF
6-11 305 2 27340 4.3 1179 4.21154 DHIF
8-10 305 2 25870 4.0 1036 3.91018 DHIF
305 2X ME AVG 6L 24,889M 1095F 977I
PPA +4523M +198F +199P +697P\$ +783CYS
USDA PTA 11/97 5RECS 69%R 99%ILE
+1203M + 48F + 61P +198P\$ +230CYS
AJCA 11/97 PTAT 51%R +0.5 PTI 65%R +3

HIGHLAND DUNCAN LESTER
000645454 29J2875
USDA 11/97 8443 DAUS 1261 HRDS 10% RI
99%R +1137M -.11% + 36F 23%ILE
99%R -.01% + 41P +146P\$ +157CYS
AJCA 11/97 6001 DAUS 100%US
PTAT 99%R +2.7 PTI 99%R +265
AMES TOP DEEDEE 86
003520039 A9632 A9632
DHI HERD #42-85-0274 CONTROL #0785
2-02 305 2 11160 4.6 514 4.0 448 DHI
3-03 272 2 12480 4.6 575 3.9 484 DHI
4-02 305 3 13990 4.3 603 3.8 538 DHI
5-05 305 3 16050 4.7 752 3.7 597 DHI
6-05 22 3 1080 4.4 48 3.1 34 DHI
305 2X ME AVG 4L 13,861M 633F 537
PPA - 238M - 4F + 2P -7P\$ +4CYS
USDA PTA 11/97 5RECS 61%R 20%ILE
- 121M - 6F - 2P -13P\$ -11CYS
AJCA 11/97 PTAT 49%R +0.2 PTI 55%R +

OFFICIAL AJCA PERFORMANCE PEDIGREE

DATE ISSUED 11-20-97 (T 440514)

FEMALE
 AMES OPTION MEL
 004020880
 BORN 05-28-97
 TATTOO A1640 A1640

 P9

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

PA +1262M +41F +50P +171P\$ +188CY\$

ST SR 3D DF RA TW RL FA
 +2.2 +1.7 +0.5 +2.8 L1.1 +1.2 PO.6 S1.3
 FU RH RW UC UD TP TL
 +1.6 +2.3 +2.7 +1.3 SO.7 C3.0 LO.7

REG NUMBER BIRTHDATE TATTOO

②

DUTCH HOLLOW BERRETTAS OPTION-P-ET
 000662996 YSP 29J3164

PA +1435M +47F +58P +197P\$ +217CY\$
 +3.0 TYPE +349PTI

AMES BERRETТА MEL
 003905415 A1399 A1399

DHI HERD #42-85-0273 CONTROL #01399
 2-02 29 3 1730 4.9 85 3.3 57 DHI
 PPA +2269M + 63F + 82P +285P\$ +307CY\$
 USDA PTA 11/97 1REC 46XR 96%ILE
 +1089M + 35F + 42P +146P\$ +159CY\$

MASON BOOMER SOONER BERRETТА
 000651835 7J254
 USDA 11/97 4612 DAUS 876 HRDS 52% RIP
 99XR +1556M -.26% + 32F 94%ILE
 99XR +.06% + 68P +210P\$ +239CY\$
 AJCA 11/97 2465 DAUS 100%USA
 PTAT 99XR +3.8 PTI 98XR +413
 DUTCH HOLLOW LESTER MISCHIEF-P-ET 90%
 003791055 C284 C284
 1-10 305 2 17150 4.9 846 3.6 618 DHI
 3-02 305 2 17230 5.3 905 4.1 703 DHI
 305 2X ME AVG 2L 21,569M 1068F 803F
 PPA +3121M +173F +107P +449P\$ +473CY\$
 USDA PTA 11/97 3RECS 58XR 98%ILE
 +1314M + 61F + 47P +184P\$ +196CY\$
 AJCA 11/97 PTAT 49XR +2.1 PTI 53XR +25

MASON BOOMER SOONER BERRETТА
 000651835 7J254
 USDA 11/97 4612 DAUS 876 HRDS 52% RII
 99XR +1556M -.26% + 32F 94%ILE
 99XR +.06% + 68P +210P\$ +239CY\$
 AJCA 11/97 2465 DAUS 100%US
 PTAT 99XR +3.8 PTI 98XR +413

LYON LESTER MEL 75
 003818052 M69 M69
 DHI HERD #42-85-0273 CONTROL #0125
 1-10 305 3 12590 5.1 636 3.6 449 DHI
 3-00 305 3 14280 5.7 816 3.6 513 DHI
 4-00 64 3 4060 6.7 273 3.1 127 DHI
 305 2X ME AVG 2L 12,974M 692F 460
 PPA + 206M + 98F - 4P +77P\$ +65CY\$
 USDA PTA 11/97 3RECS 56XR 73%ILE
 + 506M + 44F + 17P +85P\$ +88CY\$
 AJCA 11/97 PTAT 50XR +0.7 PTI 52XR +1

OFFICIAL AJCA PERFORMANCE PEDIGREE

DATE ISSUED 11-20-97 (T 440514)

FEMALE
 AMES BARBER DEEDEE
 004020881
 BORN 05-29-97
 TATTOO A1641 A1641

 P9

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

PA +1402M +56F +54P +195PS +212CYS

ST SR BD DF RA TW RL FA
 +2.2 +1.9 +0.7 +2.3 L0.9 +1.1 0.0 S0.6
 FU RH RW UC UD TP TL
 +1.1 +1.9 +1.9 +0.5 S0.3 C1.4 L0.2

REG NUMBER BIRTHDATE TATTOO

3

WF/L&M DUNCAN BARBER-ET
 000654500 YSP 7J290

USDA 11/97 145 DAUS 99 HRDS 8% RIP
 93%R +1532M -.04% + 66F 79%ILE
 93%R -.05% + 50P +200P\$ +209CYS
 AJCA 11/97 79 DAUS 100%USA
 PTAT 82%R +2.7 PTI 88%R +322

AMES BERRETTA DEEDEE
 003925489 A1423 A1423

DHI HERD #42-85-0273 CONTROL #01423
 1-11 28 3 1810 4.8 87 3.5 64 DHIR
 PPA +2700M +109F +122P +415P\$ +470CYS
 USDA PTA 11/97 1REC 46%R 99%ILE
 +1271M + 46F + 57P +190P\$ +216CYS

HIGHLAND MAGIC DUNCAN
 000635862 7J177

USDA 11/97 10576 DAUS 1507 HRDS 1% RIP
 99%R + 696M +.08% + 45F 04%ILE
 99%R +.00% + 26P +110P\$ +117CYS
 AJCA 11/97 8217 DAUS 100%USA
 PTAT 99%R +1.6 PTI 99%R +196

WF/L&M CHIEF BARB-ET
 003453823 W547

94%
 2-03 305 2 17800 4.3 760 3.5 618 DHIR
 4-02 305 2 19910 4.1 813 3.4 685 DHIR
 305 2X ME AVG 2L 21,735M 898F 743F
 PPA +4633M +128F +139P +524P\$ +535CYS
 USDA PTA 11/97 2RECS 87%R 94%ILE
 +1202M + 32F + 36P +135P\$ +138CYS
 AJCA 11/97 PTAT 51%R -0.1 PTI 81%R +21

MASON BOOMER SOONER BERRETTA
 000651835 7J254

USDA 11/97 4612 DAUS 876 HRDS 52% RII
 99%R +1556M -.26% + 32F 94%ILE
 99%R +.06% + 68P +210P\$ +239CYS
 AJCA 11/97 2465 DAUS 100%US
 PTAT 99%R +3.8 PTI 98%R +413

AMES LESTER DEEDEE
 003813405 A1194 A1194

84
 DHI HERD #42-85-0273 CONTROL #0119
 2-01 305 3 14570 5.1 749 3.9 562 DHI
 3-02 273 3 13730 5.0 680 3.7 513 DHI
 4-01 34 3 2650 4.3 115 3.4 90 DHI
 305 2X ME AVG 2L 14,815M 745F 561
 PPA +1504M + 72F + 62P +228P\$ +252CYS
 USDA PTA 11/97 3RECS 55%R 89%ILE
 + 804M + 41F + 35P +128P\$ +143CYS
 AJCA 11/97 PTAT 51%R +0.3 PTI 51%R +2

OFFICIAL AJCA PERFORMANCE PEDIGREE

DATE ISSUED 11-20-97 (T 440514)

FEMALE
 AMES BERRETTA LOLA
 004020882
 BORN 06-16-97
 TATTOO A1647 A1647

 P8

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

PA +1054M +29F +44P +142P\$ +159CY\$

ST SR BD DF RA TW RL FA
 +2.2 +1.7 +0.5 +2.8 L1.1 +1.2 PO.6 S1.3
 FU RH RW UC UD TP TL
 +1.6 +2.3 +2.7 +1.3 SO.7 C3.0 LO.7

REG NUMBER BIRTHDATE TATTOO

4

MASON BOOMER SOONER BERRETTA
 000651835 YSP 7J254
 USDA 11/97 4612 DAUS 876 HRDS 52% RIP
 99%R +1556M -.26% + 32F 94%ILE
 99%R +.06% + 68P +210P\$ +239CY\$
 AJCA 11/97 2465 DAUS 100%USA
 PTAT 99%R +3.8 PTI 98%R +413

AMES MALCOLM LOLA
 003925490 A1429 A1429
 DHI HERD #42-85-0273 CONTROL #01429
 PPA +1214M + 49F + 36P +149P\$ +151CY\$
 USDA PTA 11/97 1REC 46XR 62%ILE
 + 551M + 25F + 19P +75P\$ +79CY\$

SOLDIERBOY BOOMER SOONER OF CJF
 000640211 7J159
 USDA 11/97 18238 DAUS 1914 HRDS 9% RIF
 99%R +1513M -.33% + 19F 21%ILE
 99%R -.11% + 40P +142P\$ +139CY\$
 AJCA 11/97 11921 DAUS 100%USA
 PTAT 99%R +2.6 PTI 99%R +227
 OSB E SETTLER SHADOW MAGGIE 95%
 003459978 OSB D192
 2-00 304 2 15530 5.0 778 3.7 576 DHI
 3-00 305 2 20040 5.1 1020 3.8 754 DHI
 4-03 305 2 26200 4.3 1125 4.01040 DHI
 5-06 305 2 25000 4.3 1068 4.11031 DHI
 6-11 305 2 27340 4.3 1179 4.21154 DHI
 8-10 305 2 25870 4.0 1036 3.91018 DHI
 305 2X ME AVG 6L 24,889M 1095F 977
 PPA +4523M +198F +199P +697P\$ +783CY\$
 USDA PTA 11/97 5RECS 69%R 99%ILE
 +1203M + 48F + 61P +198P\$ +230CY\$
 AJCA 11/97 PTAT 51%R +0.5 PTI 65%R +3

DUNCANS PRINCE MALCOLM
 000647162 7J212
 USDA 11/97 3232 DAUS 770 HRDS 21% RI
 99%R +1047M +.00% + 49F 15%ILE
 99%R -.01% + 38P +148P\$ +158CY\$
 AJCA 11/97 1878 DAUS 100%USA
 PTAT 98%R +2.2 PTI 98%R +243

AMES BLOSS LINDA 76
 003771454 A1110 A1110
 DHI HERD #42-85-0274 CONTROL #0790
 1-11 299 3 13880 4.9 681 3.8 524 DHI
 2-11 287 3 14260 5.0 717 3.8 538 DHI
 3-10 266 3 13290 4.2 559 3.5 470 DHI
 305 2X ME AVG 3L 13,996M 663F 518
 PPA + 340M + 8F + 16P +49P\$ +57CY\$
 USDA PTA 11/97 3RECS 58%R 36%ILE
 + 159M + 8F + 8P +27P\$ +32CY\$
 AJCA 11/97 PTAT 50%R -0.5 PTI 53%R +

1998 Iowa FFA Dairy Cattle Production and Management Test Answer Sheet

Name: KEY

Chapter (Town): _____

Contestant No: _____

General

(2 points each)

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

DHIA

(5 points each)

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

Dairy Problems

(5 points each)

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

Sire Summary

(5 points each)

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

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