State of Iowa
DEPARTMENT OF EDUCATION
Bureau of Technical and Vocational Education
Grimes State Office Building
Des Moines, Iowa 50319-0146

Iowa FFA Dairy Cattle Production and Management Test
West Union, Iowa September 17, 1994

(Mark the best answers in the proper blank on the answer sheet.)
25 Objective Questions - 2 points each

1. Predipping can lower new mastitis infections by as much as:
   a) 20% b) 35% c) 50% d) 65%

2. Which marketing organization markets the most milk nationally?
   a) Land O'Lakes b) Wisconsin c) AMPI d) Mid Am

3. Dystocia refers to:
   a) herd health b)energy consumption c) calving ease d) mastitis

4. Which of the following is a source of non-protein nitrogen?
   a) urea b) corn grain c) soybean meal d) linseed meal

5. Where does Iowa rank in number of cows nationally?
   a) 25th b) 18th c) 3rd d) 10th

6. What is the "milk let down" hormone called?
   a) somatotropin b) abomasum c) adrenaline d) oxytocin

7. Which state ranks second nationally in total pounds of milk produced?
   a) Minnesota b) Wisconsin c) California d) New York

8. The best source of fat for milk replacer is:
   a) soy oil b) artificial fat c) canula oil d) animal fat

9. What should be the goal for number of days open to conception?
   a) 90-110 b) 40-60 c) 365-385 d) 10-20

10. Heifers should be bred at about ____ months of age.
    a) 24-27 b) 13-15 c) 6-8 d) 18-20

11. What is the average age (in months) at first calving for the Iowa DHIA herds?
    a) 21 b) 24 c) 27 d) 30

12. What nutrient supplies the majority of energy in a cow's ration?
    a) fats b) water c) proteins d) minerals

13. Fat has _____ times as much energy per pound as carbohydrates.
a) .75 b) 1.25 c) 2.25 d) 4.40

14. Which part of the dairy cow's stomach functions most like a human stomach?
a) omasum b) rumen c) abomasum d) reticulum

15. Which physical trait is most strongly related to cow longevity?
a) foot angle b) leanness of neck c) width of pins d) udder depth

16. The primary cause of warts on the udder of a dairy cow is?
a) bacteria b) disease c) injury d) virus

17. Where is the best place to observe heat in dairy cows?
a) stanchion barn b) parlor c) holding pen d) dry dirt lot

18. Which organization maintains the Unified Dairy Score Card for all breeds?
a) PDCA b) DHIA c) USDA d) PTA

19. Which vitamin is needed to stop bleeding and clot the blood?
a) B_2 b) K c) D d) C

20. What is the name of milk sugar?
a) dextrose b) fructose c) sucrose d) lactose

21. What is the process called where the uterus returns to normal size after calving?
a) fertilization b) involution c) revalidation d) retained afterbirth

22. White muscle disease of calves is caused by a deficiency of which mineral?
a) calcium b) phosphorus c) selenium d) magnesium

23. Which vitamin can carotene be substituted for?
a) A b) B c) C d) D

24. Which of the following is an ovarian cyst?
a) pituitary b) viral c) follicular d) pancreatic

25. Which product is the best source of calcium?
a) ammonia b) bean meal c) alfalfa d) limestone

<u>Five Questions - DHIA - 5 points each</u>
Use the attached DHI-202 - Herd Summary (two pages) to answer the following five questions.

26. Which lactation group has the highest 305-2x-ME?
a) 1 b) 2 c) 3 d) 4+

27. Based on past production, what is likely to happen to the rolling herd average on the next test?
a) go up b) go down c) stay the same d) can't tell

28. Which group of animals have the highest production potential based on sire information?
a) 0-6 months b) 12 months + c) Lact 1 d) Lact 4+

29. What is the feed cost per cow per day for those animals in string 1?
a) $ 10.43 b) $6.46 c) $3.97 d) $ 2.63

30. What percent of lactation one animals have a SCC of over 400,000?
a) 1 b) 13 c) 11 d) 9

Dairy Management Problems - 5 points each
The following information should be used in calculating answers for questions 31-35.

Investment in facilities = $2000/cow Annual investment cost = 15%
Value/hr. of labor = $7.50 Annual production = 18,000 lbs./cow
Herd size = 50 cows Total mixed ration cost = $75/ton
Milk price = $12/cwt.

31. What is the average annual cost for facilities per cow?
a) $500 b) $300 c) $120 d) $75

32. How much of each cwt. of milk produced must be allocated to cover facility costs?
a) $2.77 b) $ .67 c) $.42 d) $1.67

33. You provide a chore service for this herd. It takes you 8 hours/day to do chores. What is the labor cost per day per cow for your service?
a) $1.20 b) $60.00 c) $7.50 d) $12.00

34. The herd is fed 15 ton of T.M.R. per year. What is the annual income over feed cost per cow?
a) $2160 b) $1125 c) $2070 d) $1035

35. The producer finds several ways to lower the cost of the ration. The final result is a 10% savings in feed without a change in milk production. How much is the income over feed cost changed per year for the entire herd?
a) $5625 b) $1012.50 c) $112.50 d) $2500

149 SAMPLE HERD 3 KILDEE HALL ISU AMES IA 50011 EBS

Herdcode	Breed	Assoc	Supervisor	Record Plan	Sample Date	Test Interval: Cow Months	Test Interval: Length	Test Interval: From	Received at Lab	Processing Center: Barn Sheet Recd	Processing Center: Last Data Recd	Processing Center: Mailed
42-85-0313	RH	68	GP 429901	00 DHI	12-20-92	45.8	42	11-09	12-21	1-21	1-21	1-22

SUMMARY OF ANIMALS TO BE MILKING, DRY, OR FRESH

	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
Replacements to Freshen		1					2	3			
Producing Animals to Freshen		2	5	1			2	3	3	5	
Expected to be Milking	26	25	28	33	32	29	26	25	31	34	39
Expected to be Dry	7	6	1		2	5	6	8	5		

MID-STATES DRPK

HERD SUMMARY

DHIA-202A

REPRODUCTIVE SUMMARY

Group	Replacement Females	Producing Females: Number	Producing Females: Avg Days Since Fresh	Number of Animals Open: < 60 Days	Number of Animals Open: 60 - 120 Days	Number of Animals Open: > 120 Days	Average Days Open	Number of Animals Bred: Once	Number of Animals Bred: Twice	Number of Animals Bred: 3 + Times	Age / Days to First Bred	Breeding Interval: < 18 Days	Breeding Interval: 18 - 24 Days	Breeding Interval: > 24 Days	Days Minimum Freshening Interval
Pregnant	5							2	3		1-01		3		
		11	327		5	6	137	3	4	4	96		3	5	417
Possibly Pregnant	1							1			1-01				
		10	149		7	3	121	4	4	2	84		3	3	401
Open	28							Total Animals:		27	Average Services Per Conception	Replacements	Producing Females	Total	
		12	49	8	3	1	49	Total Services:		56		1.5	2.2	2.1	

IDENTIFICATION SUMMARY

Age Group	Number of Females	Average Age	Number Identified: Sire	Number Identified: Dam	Without PTA	With PTA	Predicted Transmitting Abilities: Milk	Fat	Protein	Protein $$
0-6 Mo	15	0-03	15	15	1	14	+1770	+58	+48	+215
7-12 Mo	7	0-10	7	7	2	5	+1734	+60	+46	+212
12 Mo +	12	1-04	12	12	2	10	+1930	+65	+50	+236
Replacements	34	0-09	34	34	5	29	+1819	+61	+48	+222
Lact 1	14	2-01	14	14		14	+1746	+66	+47	+219
Lact 2	8	3-01	8	8		8	+1805	+52	+56	+213
Lact 3	3	4-01	3	3		3	+1433	+48	+47	+175
Lact 4 +	8	6-04	8	8		8	+1145	+37	+36	+138
Producing Females	33	3-06	33	33		33	+1586	+54	+46	+194
% IDENTIFIED →			100	100	3	24	+1970	+62	+59	+237
					27	Total	+1751	+55	+52	+211

SIRE EVALUATION

← AVERAGE OF SERVICE SIRES WITH PTA

← AVERAGE OF ALL SERVICE SIRES

DAYS DRY SUMMARY

Number < 40	Number 40 - 70	Number > 70	% < 40	% 40 - 70	% > 70	Total: Number	Total: Avg. Days Dry
	15	1		94	6	16	62

LACTATION SUMMARY

	305-2X-ME: Milk	305-2X-ME: Fat	305-2X-ME: Protein	Diff from Herdmates: Milk	Diff from Herdmates: Fat	Diff from Herdmates: Protein
Lact 1	27303	885	803	-514	-19	-31
Lact 2	30923	1016	958	+3124	+105	+129
Lact 3	28935	988	847	+1071	+96	+3
Lact 4 +	31026	955	913	+3219	+52	+78
Producing Females	28918	935	861	+1103	+30	+28

305 DAY CULLING SUMMARY

Car Code	Num	Diff Hdmt ECM	% Culled
C			
D			
I			
K			
L			
M			
R	6	-1118	13
V			
Y			
Z	4	+885	9
$	3	-2246	7
J			
Total/ Avg	13	-762	28

C	Udder Injury
D	Disposition
I	Injury
K	Ketosis or Other Disease
L	Low Production
M	Mastitis
R	Reproductive Problems
V	Slow Milking Speed
Y	Poor Type
Z	Died
$	Sold For Dairy
J	Other

PRODUCTION SUMMARY

Sample Day	Days in Test Period	% Milk Shipped	Producing Females on Farm	% In Milk	Mgt. Level Milk	Test Interval Daily Average: Milk	Test Interval Daily Average: % Fat	Test Interval Daily Average: % Protein	Rolling 365 Day Average: Milk	Rolling 365 Day Average: % Fat	Rolling 365 Day Average: Fat	Rolling 365 Day Average: % Protein	Rolling 365 Day Average: Protein
1-25	35	100	37	88	73.3	67.6	3.39	3.15	22,639	3.35	759	3.15	713
2-28	34	101	36	99	74.1	79.3	3.21	3.10	23,066	3.33	767	3.15	726
3-26	27	100	33	97	76.7	81.7	3.04	3.03	23,407	3.29	771	3.14	734
4-29	34	100	33	94	80.7	76.1	3.18	3.08	23,684	3.28	777	3.12	740
5-31	32	99	34	93	79.3	70.7	3.33	3.12	24,020	3.28	789	3.12	750
6-21	21	99	33	86	79.9	65.3	3.30	3.06	24,254	3.29	798	3.12	757
7-19	28	100	31	78	83.5	63.0	3.16	3.05	24,486	3.28	804	3.12	763
8-16	28	101	30	78	80.5	61.8	3.18	3.09	24,632	3.27	805	3.12	768
9-13	28	102	31	95	81.9	75.0	3.34	3.04	25,058	3.26	818	3.11	779
10-11	28	100	32	87	82.3	71.1	3.38	3.05	25,443	3.27	832	3.10	788
11-08	28	100	34	82	77.2	67.9	3.22	3.11	25,684	3.26	838	3.10	795
						64.5	3.33	3.02	25,732	3.26	838	3.08	792

The following is a portion of the July, 1994 Sire Summary. Using the information shown below, answer questions 36-40. Mark the correct answer on the answer sheet.

Holstein Sire Summary

NAAB CODE	SIRE NAME		U.S.D.A. SIRE SUMMARY PREDICTED TRANSMITTING ABILITIES NM $$	PR RK	PRO LBS	PRO %	PRO R	FAT MILK	FAT LBS	FAT %	FAT R	MF $$	MFP $$	SCS	SCS R	PL	PL R	SAMPLING INFORMATION NO. HRDS	NO. DAUS	CD	BREED ASSOC TYPE DATA PTAT	PTAT R	TPI	NAAB C E % DB	NAAB C E % R
29H6539	PEASEDALE LINGO-ET	*TL	298	99	-0 03	74		3425	110	-0.06	77	404	388	3.25	60	2 2	46	32	49	S	1 12	81	1311	10	82
11H3276	VISTA-VIEW CLEITUS BERT-ET	*TL	289	99	89	-0 07	75	3405	91	-0.14	77	389	359	3.38	60	3.6	46	35	44	S	1 22	76	1312	9	64
1H777	COASTAL CLEITUS ANDREW		287	99	91	-0.04	66	3255	106	-0 05	66	385	365	3.34	51	2 9	39	21	28	S	0 92	66	1272	12	69
7H3663	VO-SIN ROTATE CLASSIC	*BL	283	99	97	0.03	83	2925	119	0 07	83	362	367	3.22	64	2 1	60	45	59	S	-0 04	82	1181	9	56
11H3243	MAIZEFIELD BELLWOOD-ET	*TL	283	99	89	-0.04	70	3146	121	0 04	71	385	367	3 29	54	2 3	41	26	33	S	1 60	73	1330	10	60
7H3392	GEN-ACE PETRUM LD ELVIN	*TL	280	99	93	0 00	76	3053	98	-0 05	78	360	353	3 28	56	2 9	57	27	48	O	2 05	72	1404	15	96
7H3847	AMELDIN II PONTIAC HUNTER	*TL	277	99	87	-0 03	74	3062	98	-0 05	75	361	345	3 06	59	2.6	42	40	44	S	1 14	73	1245	10	62
21H2054	KNOXLAND CLEITUS BALLOT-ET	*TL	276	99	84	-0 03	70	2905	122	0.08	70	362	349	3 53	53	3.4	40	32	37	S	0 71	71	1258	8	53
44H115	WAGIL BELL SUMMIT	*BL	275	99	87	-0 08	73	3365	76	-0.20	73	375	344	3.23	58	2 9	50	16	57	O					
7H3943	DEN-K MARK SPOILER-TWIN	*TL	274	99	77	-0 10	78	3248	102	-0.06	79	382	341	3.18	61	2 9	45	46	58	S	0 71	78	1157	9	60
7H3436	REYNO-WAY KEMPER	*TL	273	99	87	-0.06	83	3259	96	-0 09	83	379	353	3 26	63	2 2	61	46	57	S	0.16	81	1125	8	95
14H1700	DIX-JIM CLEITUS DIAMOND JIM	*TL	268	99	88	0.00	78	2837	99	-0.01	78	340	336	3.40	58	3.2	50	35	51	M	1 71	78	1348		
9H1489	GLEN-TOCTIN SLOCUM	*TL	268	99	80	-0.05	81	2964	105	-0.01	81	357	334	3.23	64	2 9	53	51	61	S	2 66	82	1430	14	63
14H1332	BAYVILLE ETHAN-ET	*BL	267	99	82	-0 01	78	2747	87	-0.05	78	323	314	3.32	61	4 3	54	32	39	S	1 81	79	1270	10	69
11H3111	LUTZ-MEADOWS CLEIT RILEY-ET	*TL	266	99	94	0.00	86	3055	96	-0.06	86	359	353	3.63	73	2 5	63	62	94	S	0.38	87	1168	11	74
29H7740	MR APPLENOTCH MARK PAPPY	*TL	265	98	91	0.02	82	2829	88	-0 06	82	332	333	3 19	64	2.6	60	34	76	M	1 51	83	1295	8	52
29H6425	OSDEL-ENDEAVOR BOVA CUBBY	*TL	264	98	89	-0 01	99	2955	73	-0 15	99	334	325	3 36	98	3 4	84	1421	2896	M	0.85	98	1158	10	99
122H2012	CABIN-RUN EL SONNY-ET	*TL	264	98	85	-0.04	77	2094	109	0 01	77	362	346	3 32	64	2 0	54	27	48	M	0.78	72	1229		
8H1998	CLEAR-ECHO BELL JAKE	*TL	264	98	71	-0.09	90	2962	87	-0.09	90	344	308	3 29	60	4 3	71	82	105	S	-0.07	86	982	6	98
29H6551	DIXIE-LEE LINGUIST-ET	*TL	263	98	82	-0 05	80	3022	106	-0 01	82	363	340	3 23	67	2.1	48	51	74	S	0 56	82	1145	10	85

36. Which bull does not have a proof for type?
a) Linquist b) Summit c) Bert d) Hunter

37. Which bull would be a concern for calving ease on heifers?
a) Elvin b) Jake c) Ballot d) Pappy

38. Which bull should help improve type the most?
a) Bellwood b) Spoiler c) Sonny d) Slocum

39. Which bull should improve production the most?
a) Pappy b) Bert c) Lingo d) Kemper

40. Which bull has the most reliable proof for production?
a) Cubby b) Classic c) Jim d) Ethan

Herd Code	Breed	Sample Date
42-85-0313	RH	12-20-92

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MID-STATES DRPK

HERD SUMMARY

DHIA-202B

STAGE OF LACTATION PROFILE

		DAYS IN MILK					
		< 50	50 - 100	101 - 200	201 - 300	300 - >	Total
First Lactation Animals	Number of Animals	2	2	4		1	9
	Avg. Days in Milk	49	86	120		336	121
	Avg. Daily Milk LBs	80.5	85.0	73.0		64.0	76.3
Second Lactation Animals	Number of Animals	2	2	2	1	1	8
	Avg. Days in Milk	22	83	157	239	399	145
	Avg. Daily Milk LBs	103.3	124.5	95.0	60.0	32.0	92.2
Other Lactation Animals	Number of Animals	2		4		1	7
	Avg. Days in Milk	30		140		324	135
	Avg. Daily Milk LBs	95.5		102.3		74.5	96.4
All Milking Animals	Number of Animals	6	4	10	1	3	24
	Avg. Days in Milk	33	84	135	239	353	133
	Avg. Daily Milk LBs	93.1	104.8	89.1	60.0	56.8	87.5
	Avg. SCC Raw Score	216	213	324	81	509	281
	Avg. SCC Linear Score	2.2	3.8	3.2	2.7	3.7	3.1
	Number Above 400,000	1	1	2		1	5
	Percent Above 400,000	17	25	20		33	21

MISCELLANEOUS HERD INFORMATION

LACT.	Number	Avg. Summit LBS. Milk	Average SCC Raw	Average SCC Linear	SCC Above 400,000 Number	SCC Above 400,000 %
1	9	79.7	138	2.5	1	11
2	8	115.2	225	3.1	1	13
3+	7	121.7	489	3.7	3	43
Total	24	102.0	281	3.1	5	21

	Sample Day	Annual
Income/Feed Cost Per Cow	4.81	2024
Milk Price Per Cwt	12.92	12.41
Milk Value Per Cow	8.22	3192
Sample Day SCC $ Cost	Per Cow	Entire Herd
	.24	5.80

Avg BWT =	1210
Pounds Shipped Daily	2,100
Sample Day Pounds	2,099
% Milk Shipped	100

FEEDS REPORTED ON SAMPLE DAY

Feed Name	$/Ton or $/Months(*)	POUNDS FED String 1	String 2	String 3	String 4	String 5	String 6	Class	% D M	% Protein	MCAL N E.
CONCENTRATES	133	18		7				K	90	18	83
CORN SILAGE	28	30	10					T	37	8	65
ALFALFA HAY	99	7		15				V	90	16	57
DRY HAY	80		30					V	90	12	67
ALFALFA HAYL	40	7						R	35	16	58
TOPDRESS 2	237	GR						K	90	22	91
39 COTTON SE	157	TP						K	90	25	103
SOY BEAN MEL	190	2						K	90	44	75

Last Changed: 1-12-93

BIRTH AND INVENTORY SUMMARY

Dam's Lact Number	Offspring Born: Males Alive	Males Dead	Females Alive	Females Dead	Calving Difficulty Score: 1	2	3	4	5	% 4 + 5
1	3	2	9		10	2		1	1	14.3
2+	7		10		14			1		6.7
Total	10	2	19		24	2		2	1	10.3

Inventory Changes since last Report

	Entered	Left
Replacements	3	
Lactation 1		
Lactation 2 +		1
Total	3	1

COST AND RETURN SUMMARY

	DOLLARS PER COW ON SAMPLE DAY String 1	String 2	String 3	String 4	String 5	String 6	DOLLARS PER HERD Sample Day	365 Days
Forage Cost	.92	1.28					32	11,970
Grain Cost	3.05						79	26,665
Total Feed Cost	3.97	1.28					112	38,635
Milk Value	10.43						271	105,597
Income / Feed Cost	6.46	-1.28					159	66,962
Feed Cost / CWT Milk	4.92						5.35	4.54
Return / $ Feed Cost	2.63						2.41	2.73

FEED SUMMARY

FEED TYPE	Annual LBS/Cow or Days/Cow (*)
DRY HAY	3,548
CORN SILAGE	10,572
HAYLAGE	2,901
CONCENTRATE	9,313

	Sample Day	Annual Average
LBS. Forage D.M. per Body CWT	1.8	1.8
LBS. Milk Produced per LB. Grain	2.3	2.8

Reports are not normally printed back to back

Linear Evaluation - 5 points per question
Mark the answer sheet with the correct answer.

41. The linear evaluation system is used in the following breed:
a) Jersey b) Holstein c) Ayrshire d) all of these

42. For any linear trait score, the highest percent of the animals will be given a:
a) high score b) intermediate score c) low score d) none of these

43. The most desirable score for udder depth would be:
a) 45 b) 35 c) 25 d) 15

44. A cow that has very little cleft to the udder floor would have a score of:
a) 45 b) 35 c) 25 d) 15

45. To which of the followed cows scored for front teat placement, would it be easiest to attach a milking unit?
a) 45 b) 35 c) 25 d) 15

Pedigree Evaluation: - 50 points

The pedigrees of four animals are given on the next four pages. Select the most desirable animal based on her pedigree, the second most desirable, etc. Put your placing on the sheet the same way you do when judging a class for type placing. For example, if you think that the #1 animal is most desirable, #2 - second, #3 - third, and #4 is least desirable, check the 1-2-3-4 blank on the score sheet, found on the Management Contest answer sheet. Be sure to use the scorecard labeled "Pedigree Evaluation."

(1)

OFFICIAL AJCC PERFORMANCE PEDIGREE

DATE ISSUED 08-21-93 (T 343339)

FEMALE
AMES BROOK DELLA
003813404
BORN 04-07-93
TATTOO A1192 A1192

PA +1062M +69F +42P +166P$ +185CY$
+1.6 TYPE +257PTI

OWNER 21565
DAIRY SCIENCE DEPT
123 KILDEE HALL
AMES IA 50011-0001
BREEDER 21565
DAIRY SCIENCE DEPT
123 KILDEE HALL
AMES IA 50011-0001

REG. NUMBER BIRTHDATE TATTOO

MOLLY BROOK BRASS MAJOR
000644248 YSP 29J2865
USDA 7/93 53 DAUS 40 HRDS 4% RIP
82%R +1604M +.05% + 82F 78%ILE
82%R -.05% + 51P +217P$ +224CY$
AJCC 7/93 25 DAUS 100%USA
PTAT 61%R +2.5 PTI 79%R +328

AMES ROYAL DELLA
003526975 A9691 A9691
DHI HERD #42-85-0274 CONTROL #07861
2-04 292 2 10660 5.6 598 4.1 438 DHIR
3-04 305 2 13370 5.5 739 4.2 560 DHIR
4-05 305 3 16750 5.5 917 4.0 676 DHIR
305 2X ME AVG 3L 13,360M 725F 539P
2-07 75% 4-01 77%
ST SR BD DF RA TW RL FA
28 29 30 27 20 26 13 24
FU RH RW UC UD TP TL
26 28 25 29 16 32 19
PPA + 495M +109F + 45P +176P$ +229CY$
USDA PTA 7/93 3RECS 54%R 80%ILE
+ 520M + 55F + 32P +115P$ +145CY$
AJCC 7/93 PTAT 50%R +0.6 PTI 53%R +185

A-NINE TOP BRASS
000630622 29J2793
USDA 7/93 17556 DAUS 2136 HRDS 1% RI
99%R + 937M +.02% + 46F 06%ILE
99%R -.05% + 27P +121P$ +121CY$
AJCC 7/93 12183 DAUS 100%US
PTAT 99%R +1.9 PTI 99%R +179

MOLLY BROOK FASCINATOR FLOWER 90
003207189 H04
1-11 305 2 12160 5.5 672 3.9 470 DHI
3-05 305 2 17410 5.6 971 3.8 665 DHI
4-05 305 2 18900 5.2 980 3.7 707 DHI
5-09 305 2 19360 5.9 1141 4.1 791 DHI
6-10 305 2 22310 5.7 1278 3.9 868 DHI
9-00 305 2 22280 5.5 1221 3.6 807 DHI
305 2X ME AVG 8L 18,994M 1052F 723
PPA +3809M +292F +150P +635P$ +702CY$
USDA PTA 7/93 5RECS 88%R 99%ILE
+1353M +101F + 48P +216P$ +230CY$
AJCC 7/93 PTAT 52%R +0.1 PTI 82%R +

J. S. QUICKSILVER ROYAL
000634142 8J234
USDA 7/93 10753 DAUS 1811 HRDS 12% R
99%R + 803M +.15% + 58F 12%ILE
99%R +.06% + 38P +140P$ +166CY$
AJCC 7/93 5398 DAUS 100%U
PTAT 99%R +2.0 PTI 99%R +234

AMES NAPOLEON DEPENDENT 8
003098718 A7730 A7730
DHI HERD #42-85-0274 CONTROL #077
2-01 279 2 10790 4.9 533 DH
3-00 305 2 13060 5.4 702 DH
4-00 305 2 14310 5.2 745 4.2 602 DH
5-00 305 2 15540 5.2 812 4.2 652 DH
6-00 305 2 15030 5.4 805 4.2 631 DH
7-03 305 2 13730 5.2 719 4.0 547 DH
305 2X ME AVG 8L 14,767M 770F 63
PPA +1920M +170F +105P +381P$ +466CY
USDA PTA 7/93 5RECS 67%R 56%ILE
+ 171M + 38F + 23P +72P$ +103CY$
AJCC 7/93 PTAT 50%R -0.5 PTI 63%R +

(2)

OFFICIAL AJCC PERFORMANCE PEDIGREE

DATE ISSUED 03-21-93 (T 343339)

FEMALE
AMES LESTER LILY
003813406 TWIN
BORN 04-15-93
TATTOO A1196 A1196

PA +1609M +59F +50P +198P$ +204CY$
+3.6 TYPE +328PTI

OWNER 2156
DAIRY SCIENCE DEPT
123 KILDEE HALL
AMES IA 50011-0001
BREEDER 2156
DAIRY SCIENCE DEPT
123 KILDEE HALL
AMES IA 50011-0001

REG. NUMBER BIRTHDATE TATTOO

HIGHLAND DUNCAN LESTER
000645454 YSP 29J2875
USDA 7/93 187 DAUS 98 HRDS 6% RIP
92%R +1679M -.06% + 70F 31%ILE
92%R -.03% + 57P +220P$ +234CY$
AJCC 7/93 105 DAUS 100%USA
PTAT 85%R +4.2 PTI 91%R +374

AMES SOONER LINDA
003700506 A1015 A1015

PA +1539M +48F +44P +176P$ +174CY$
+2.9 TYPE +281PTI

HIGHLAND MAGIC DUNCAN
000635862 7J177
USDA 7/93 9766 DAUS 1430 HRDS 6% R
99%R +1482M +.07% + 80F 73%ILE
99%R -.04% + 49P +207P$ +217CY$
AJCC 7/93 7229 DAUS 100%U
PTAT 99%R +3.3 PTI 99%R +332

HIGHLAND NOBLE O MISS LETTY 8
003093852 P061
1-10 305 2 11800 5.1 600 DH
2-11 305 2 12500 5.3 665 3.9 484 DH
4-03 305 2 14030 5.0 698 3.9 546 DH
5-03 305 2 14720 5.3 777 3.9 569 DH
6-06 305 2 13700 4.9 671 3.9 528 DH
7-11 305 2 14790 5.2 773 4.0 595 DH
305 2X ME AVG 6L 14,562M 736F 54
PPA + 72M + 28F + 7P +36P$ +44CY$
USDA PTA 7/93 5RECS 71%R 54%ILE
+ 354M + 31F + 18P +68P$ +81CY$
AJCC 7/93 PTAT 48%R +0.1 PTI 67%R +

SOLDIERBOY BOOMER SOONER OF CJF
000640211 7J159
USDA 7/93 8184 DAUS 1258 HRDS 44% R
99%R +2330M -.35% + 56F 96%ILE
99%R -.14% + 63P +250P$ +241CY$
AJCC 7/93 4545 DAUS 100%
PTAT 99%R +4.4 PTI 99%R +383

AMES LEGEND LINDA 8
003520042 A9650 A9650
DHI HERD #42-85-0274 CONTROL #07
1-11 296 2 12700 4.9 622 3.7 475 D
2-11 305 2 13940 4.7 656 3.7 520 D
4-00 290 3 13180 4.8 633 3.8 502 D
5-00 296 3 16770 4.8 802 3.8 630 D
305 2X ME AVG 4L 14,697M 704F 5
PPA +1593M +101F + 52P +233P$ +243C
USDA PTA 7/93 4RECS 56%R 75%ILE
+ 748M + 40F + 24P +103P$ +107CY
AJCC 7/93 PTAT 52%R +1.4 PTI 55%R

OFFICIAL AJCC PERFORMANCE PEDIGREE

DATE ISSUED 04-09-93 (T 334867)

③

FEMALE
AMES BROOK PENNY
003795211
BORN 02-11-93
TATTOO A1176 A1176

PA +1208M +55F +38P +157P$ +161CY$
+1.6 TYPE +235PTI

OWNER 21565
DAIRY SCIENCE DEPT
123 KILDEE HALL
AMES IA 50011-0001
BREEDER 21565
DAIRY SCIENCE DEPT
123 KILDEE HALL
AMES IA 50011-0001

REG NUMBER BIRTHDATE TATTOO

MOLLY BROOK BRASS MAJOR
000644248 YSP 29J2865
USDA 1/93 51 DAUS 38 HRDS 0% RIP
81%R +1654M +.05% + 85F 91%ILE
81%R -.05% + 53P +225P$ +233CY$
AJCC 1/93 22 DAUS 100%USA
PTAT 58%R +2.2 PTI 77%R +345

AMES MAGIC PRIDE
003458035 A9476 A9476
DHI HERD #42-85-0274 CONTROL #07839
1-11 279 2 12680 4.5 571 3.7 463 DHIR
2-10 295 2 14330 4.6 666 3.9 555 DHIR
4-01 275 2 13290 4.5 602 3.6 484 DHIR
5-00 270 2 14050 4.5 629 3.8 532 DHIR
5-11 279 3 19330 4.4 843 3.7 721 DHIR
305 2X ME AVG 5L 15,333M 685F 569P
2-00 80% 2-08 83% 3-05 83%
ST SR BD DF RA TW RL FA
23 34 36 40 21 31 24 17
FU RH RW UC UD TP TL
23 30 31 24 16 31 17
PPA +2551M + 76F + 80P +301P$ +310CY$
USDA PTA 1/93 5RECS 57%R 73%ILE
+ 761M + 25F + 22P +89P$ +88CY$
AJCC 1/93 PTAT 51%R +0.9 PTI 56%R +125

A-NINE TOP BRASS
000630622 29J2793
USDA 1/93 17411 DAUS 2114 HRDS 2% RI
99%R +931M +.02% + 46F 08%ILE
99%R -.05% + 27P +121P$ +121CY$
AJCC 1/93 12022 DAUS 100%US
PTAT 99%R +2.0 PTI 99%R +179

MOLLY BROOK FASCINATOR FLOWER 9(
003207189 HO4
1-11 305 2 12160 5.5 672 3.9 470 DHI
3-05 305 2 17410 5.6 971 3.8 665 DHI
4-05 305 2 18900 5.2 980 3.7 707 DHI
5-09 305 2 19360 5.9 1141 4.1 791 DHI
6-10 305 2 22310 5.7 1278 3.9 868 DHI
9-00 305 2 22280 5.5 1221 3.6 807 DHI
305 2X ME AVG 7L 19,572M 1080F 74
PPA +3842M +295F +152P +642P$ +711CY
USDA PTA 1/93 5RECS 87%R 99%ILE
+1370M +104F + 50P +222P$ +239CY$
AJCC 1/93 PTAT 52%R +0.2 PTI 81%R +

QUICKSILVERS MAGIC OF OGSTON
000623330 7J121
USDA 1/93 12327 DAUS 1949 HRDS 1% R
99%R + 627M +.02% + 32F 01%ILE
99%R -.03% + 19P +84P$ +85CY$
AJCC 1/93 7107 DAUS 100%U
PTAT 99%R +0.2 PTI 99%R +116

AMES EARL PRIDE 7
003310954 A8856 A8856
DHI HERD #42-35-0274 CONTROL #077
1-10 305 2 11930 4.5 537 3.6 426 DH
3-01 288 2 16100 4.4 716 3.5 556 DH
4-00 305 2 14460 4.6 672 3.6 520 DH
5-01 305 2 15890 4.5 719 3.5 560 DH
6-07 305 2 14680 4.6 672 3.7 541 DH
7-08 277 2 14320 4.3 617 3.7 536 DH
305 2X ME AVG 6L 15,700M 698F 55
PPA +1858M + 55F + 35P +185P$ +151CY
USDA PTA 1/93 5RECS 61%R 51%ILE
+ 581M + 9F + 14P +56P$ +51CY$
AJCC 1/93 PTAT 50%R +0.4 PTI 59%R +

OFFICIAL AJCC PERFORMANCE PEDIGREE

DATE ISSUED 01-29-94 (T 352627) (4)

FEMALE
AMES HERMITAGE PAULINE
003832126
BORN 07-02-93
TATTOO A1219 A1219

PA +1783M +60F +55P +209P$ +215CY$
+2.7 TYPE +328PTI

OWNER 21565
DAIRY SCIENCE DEPT
123 KILDEE HALL
AMES IA 50011-0001

BREEDER 21565
DAIRY SCIENCE DEPT
123 KILDEE HALL
AMES IA 50011-0001

REG NUMBER BIRTHDATE TATTOO

HIGHLAND MAGIC DUNCAN
000635862 7J177
USDA 1/94 10043 DAUS 1448 HRDS 5% R
99%R +1427M +.07% + 77F 63%ILE
99%R -.04% + 47P +192P$ +201CY$
AJCC 1/94 7491 DAUS 100%U
PTAT 99%R +3.2 PTI 99%R +318

REBOB FAVORITE SAINT HALO 9
003281014 829
2-00 305 2 18640 4.1 767 DH
365 2 21980 4.2 927 DH
4-02 305 2 24270 4.0 969 3.3 796 DH
5-02 305 2 28100 3.7 1053 3.6 998 DH
305 2X ME AVG 3L 25,932M 998F 89
PPA +5509M +103F +132P +533P$ +485CY
USDA PTA 1/94 3RECS 86%R 95%ILE
+1585M + 35F + 42P +163P$ +156CY$
AJCC 1/94 PTAT 50%R +1.3 PTI 80%R +

REBOB DUNCAN HERMITAGE-ET
000646854 YSP 7J207
USDA 1/94 344 DAUS 183 HRDS 6% RIP
96%R +1598M +.01% + 76F 87%ILE
96%R -.04% + 53P +208P$ +220CY$
AJCC 1/94 158 DAUS 95%USA
PTAT 89%R +3.0 PTI 95%R +332

AMES SOONER PAULINE
003721318 A1024 A1024
DHI HERD #42-85-0274 CONTROL #07898
PPA +5107M + 90F +132P +505P$ +477CY$
USDA PTA 1/94 1REC 43%R 99%ILE
+1967M + 44F + 57P +210P$ +210CY$
AJCC 1/94 PTI 42%R +323

SOLDIERBOY BOOMER SOONER OF CJF
000640211 7J159
USDA 1/94 10250 DAUS 1399 HRDS 30% R
99%R +2243M -.35% + 54F 95%ILE
99%R -.14% + 61P +236P$ +229CY$
AJCC 1/94 5964 DAUS 100%U
PTAT 99%R +4.3 PTI 99%R +373

AMES RELIANT PRIDE 6
003622690 A9811 A9811
DHI HERD #42-85-0274 CONTROL #078
2-05 299 3 14070 4.2 586 3.6 513 DH
3-05 258 3 16980 4.2 710 3.6 616 DH
305 2X ME AVG 2L 16,462M 684F 59
PPA +2839M + 49F + 89P +304P$ +315CY
USDA PTA 1/94 3RECS 53%R 88%ILE
+1139M + 33F + 38P +134P$ +143CY$
AJCC 1/94 PTAT 50%R +0.5 PTI 53%R +

1994 Iowa FFA Dairy Cattle Production and Management Test

Answer Sheet

Name: Answer Sheet Chapter (Town): _____

General

1. C
2. C
3. C
4. a
5. d
6. d
7. b
8. d
9. a
10. b
11. c
12. a
13. c
14. c
15. d
16. d
17. d
18. a
19. b
20. d
21. b
22. c
23. C
24. c
25. d

DHIA

26. d
27. b
28. b
29. c
30. c

Dairy Mgt.

31. b
32. d
33. a
34. d
35. a

Sire Summary

36. b
37. a
38. d
39. c
40. a

Evaluation

41. d
42. b
43. a
44. d
45. a

PEDIGREE EVALATION (50 points)	
1234	27
1243	36
1324	20
1342	22
1423	38
1432	31
2134	32
2143	41
2314	30
2341	37
2413	48
2431	46
3124	18
3142	20
3214	23
3241	30
3412	27
3421	32
4123	45
4132	38
4213	50
4231	48
4312	36
4321	41