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 16, 1995

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

1. What has happened to the number of Iowa dairy farms in the last five years?
a) Increased b) Not changed c) Decreased d) No way to determine

2. Which major milk marketing cooperative combined with another coop to make Foremost Dairy? a) AMPI b) Mid Am c) Land O'Lakes d) Wisconsin Dairies

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

4. Which of the following is a source of non-protein nitrogen?
a) urea b) whole cottonseed c) soybean meal d) meat and bone meal

5. Which breed registers the most animals each year?
a) Holstein b) Ayrshire c) Jersey d) Brown Swiss

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

7. What are symptoms of Johne's disease?
a) decreased milk production b) diarrhea c) weight loss d) all three of those listed

8. One pound of body loss provides enough energy for ____ pounds of milk?
a) 3 b) 7 c) 11 d) 15

9. When body condition scoring, what number is desirable for a cow at dry-off time?
a) 1 b) 4 c) 7 d) 10

10. Which injection is being used to improve reproductive performance?
a) BST b) Oxytocin c) Prostaglandin d) J-5

11. What is the newest test provided for Iowa DHIA members?
a) Fat b) Protein c) Somato cell count d) Milk Urea Nitrogen

12. Which of the following is a common cause of lameness?
a) Laminitis b) Hot weather c) Mastitis d) Underfeeding

13. U.S. per capita dairy product consumption _____ between 1983 and 1993.
a) Decreased b) Increased c) stayed the same d) was not determined

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

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

16 Which part of the cow's stomach is most important in digesting forages?
a) omasum b) abomasum c) reticulum d) rumen

17. Which organization provides production information for all breeds?
a) PDCA b) DHIA c) USDA d) PTA

18 The primary sign of heat in dairy cattle is:
a) clear mucus on tail b) decreased milk yield
c) cow standing to be mounted d) increased physical activity

19 The primary reason for high bacteria counts in milk is:
a) cows with mastitis b) poor cleaning of equipment
c) dirty stalls and lots d) dirty milker's hands

20. To optimize milk let down and maximize milk production, milker units should be attached _____ after the start of udder and teat stimulation.
a) 0-15 sec b) 3 min
c) 45-60 sec d) 5 min

21. Which of the following is not a test for mastitis?
a) WMT b) SCC c) CMT d) WHO

22. In order to save semen costs, producers should:
a)delay breeding until 75 days after calving b) use less expensive proven sires with lower PTA's
c) use natural service sires d) increase the use of young sires

23. Shelled corn has about _____ percent protein on a dry matter basis.
a) 10 b) 7 c) 12 d) 15

24. High quality forage will affect:
a) genetic level of the herd b) somatic cell count c) productivity potential d) all three

25. Dystocia refers to:
a) unbalanced ration problems b) overfeeding c) a type of mastitis organism d) calving ease

Five Questions - DHIA - 5 points each

Use the attached DHI-202 - Herd Summary (two pages) to answer the following five questions.

26. What is the average summit production for the first lactation animals?
a) 79.7 b) 115.2 c) 121.7 d) 102.0

27. What is the estimated daily loss due to SCC for the entire herd?
a) $.24 b) 8.22 c) 5.80 d) 4.81

28. What is the total annual feed cost for the entire herd?
a) $66,962 b) $105,597 c) $38,635 d) 25,732

29. What percent of the herd has been culled during the last year?
a) 13 b) 28 c) 34 d) 45

30. What is the average services per conception for the replacement animals?
a) 1.1 b) 2.1 c) 2.2 d) 1.5

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	11	327		5	6	137	2	3		1-01		3		
Possibly Pregnant	1	10	149		7	3	121	3	4	4	96		3	5	417
Open	28	12	49	8	3	1	49	1			1-01				
								4	4	2	84		3	3	401

Total Animals: 27
Total Services: 56
Average Services Per Conception

Replacements	Producing Females	Total
1.5	2.2	2.1

DAYS 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

IDENTIFICATION SUMMARY

PTA EVALUATION

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

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	Fat	Protein	Diff from Herdmates: Milk	Fat	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

← AVERAGE OF SERVICE SIRES WITH PTA
← AVERAGE OF ALL SERVICE SIRES

TEST DAY SUMMARY

Sample Day	Days in Test Period	% Milk Shipped	Producing Females on Farm	% in Milk	Mgt. Level Milk	Test Interval Daily Average: Milk	% Fat	% Protein	Rolling 365 Day Average: Milk	% Fat	Fat	% Protein	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
12-20	42	100	33	78	76.4	64.5	3.33	3.02	25,732	3.26	838	3.08	792
	365	100	33	88	78.8	← Totals and Average of			12 Tests			Cow Years	33.98

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

149

MID-STATES DHI

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	Avg BWT =	1210
Milk Price Per CWT	12.92	12.41	Pounds Shipped Daily	2,100
Milk Value Per Cow	8.22	3192	Sample Day Pounds	2,099
Sample Day SCC $$ Loss	Per Cow	Entire Herd	% Milk Shipped	100
	.24	5.80		

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	% DM	% Protein	MCAL NE.
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

Dairy Management Problems - 5 points each

The following information should be used in calculating answers for questions 31-35.

Corn	9% Protein	$2.50/bushel	Grain mix:
Oats	12% Protein	$1.28/bushel	300 lbs. oats
Soybean Meal	44% Protein	180/ton	300 lbs. soybean meal
Hay	17% Protein	$90/ton	1400 lbs corn
Milk price		$12.00/cwt.	
Milk production		50 lbs./day	

31. What percent protein is in the grain mix?
a) 11.5% b) 14.7% c) 17.0% d) 44.0%

32. How does a ton of grain mix cost?
a) $81.95 b) $180.00 c) $148.75 d) $101.50

33. A cow receives 24 lbs. of hay and 18 lbs of grain mix per day. What is the feed cost per day?
a) $2.22 b) $1.99 c) $.91 d) $3.10

34 What is the income over feed cost per day per cow?
a) $6.00 b) $2.22 c) $4.01 d) $3.78

35. What percent protein is in the cow's total ration?
a) 11.5% b) 14.7% c) 16.0% d) 17.9%

The following is a portion of the July, 1995 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		NM $$	RK	PRO LBS	PRO %	R	FAT MILK	FAT LBS	FAT %	R	MF $$	MFP $$	SCS	R	PL	R	SAMPLING INFO NO HRDS	NO. DAUS	CD	BREED ASSOC TYPE DATA PTAT	R	IPI	NAAB C.E % DB	R
11H3243	MAIZEFIELD BELLWOOD-ET	*IL	254	99	82	-0.01	80	2662	94	-0.01	81	325	321	3.03	66	2.2	56	40	56	S	1.36	81	1504	10	61
1H967	ZIELLAND ZEBO	*IL	221	99	72	-0.04	69	2593	95	0.00	69	319	303	3.08	52	0.5	44	17	33	O	2.01	69	1520		
2168	DT-QUEENS-MANOR MARKSMAN-ET	*IL	214	99	70	0.00	73	2193	86	0.02	73	273	273	3.22	59	2.1	49	23	44	O	3.47	73	1733		
11H3276	VISTA-VIEW CLEITUS BERT-ET	*IL	212	99	61	-0.07	82	2482	52	-0.17	83	283	255	3.42	69	3.5	60	43	64	S	1.21	83	1327	9	64
7H4211	END-ROAD BLACKSTAR MAJIC-ET	*IL	205	99	65	-0.04	72	2385	82	-0.02	72	290	273	3.24	57	1.7	39	19	38	O	1.92	73	1466		
11H3111	LUIZ-MEADOWS CLEIT RILEY-ET	*IL	204	99	75	0.02	88	2247	75	-0.03	88	272	277	3.59	77	1.9	69	66	97	S	-0.26	87	1238	10	95
7H4126	LUIZ-MEADOWS MARK SAFFRON	*IL	202	99	72	0.02	63	2124	58	-0.08	63	250	256	3.08	52	1.7	45	10	32	O	1.28	55	1408		
7H4161	RICKLAND I ABAN PROJECTOR	*IL	201	98	63	-0.01	75	2104	59	-0.08	76	248	242	3.03	59	2.4	42	37	42	S	0.91	74	1345	11	64
8H2862	HOWCREST ARISTIDES	*IL	201	98	61	0.00	87	1963	78	0.03	87	245	242	3.37	75	3.2	59	72	91	S	0.99	87	1302	8	57
11H3230	VEEMANS BB WILL-ET	*IL	200	98	68	0.01	82	2080	88	0.05	84	263	265	3.21	71	1.3	60	47	69	S	0.40	83	1348	10	72
44H115	WAGIL BELL SUMMIT	*BL	199	98	63	-0.05	75	2382	48	-0.17	75	270	251	3.10	64	1.8	58	16	66	O	0.92	70	1302	5	65
29H6539	PEASEDALE LINGO-ET	*IL	197	98	68	-0.03	79	2370	70	-0.07	81	282	270	3.27	67	0.9	59	37	56	S	0.58	84	1262	10	82
1H777	COASTAL CLEITUS ANDREW	*IL	194	98	64	-0.01	76	2141	81	0.01	76	265	258	3.37	63	1.6	53	31	45	S	0.78	76	1296	11	72
29H8280	MEL-HAM DIXIE-LEE SAND-ET	*IL	192	98	75	0.11	71	1631	80	0.09	71	212	246	3.26	56	1.9	41	22	46	M	1.44	74	1483		
1H1992	LOGANWAY P BACHELOR-ET	*IL	190	98	55	-0.01	80	1783	70	0.02	80	222	219	3.09	65	3.0	55	40	47	S	0.76	81	1225	6	65
14H1114	PARADISE-R ROEBUCK	*IL	189	97	46	-0.09	82	2134	45	-0.15	83	243	210	3.21	69	3.8	63	44	63	S	1.98	80	1291	8	99
1H1931	KNOXLAND E ABERDEEN-ET	*IL	188	97	51	-0.06	70	2008	60	-0.06	70	239	220	3.19	56	3.0	49	19	23	S	-0.22	68	1082	10	55
29H6425	OSDEL-ENDEAVOR BOVA CUBBY	*IL	187	97	63	0.01	99	1931	42	-0.13	99	221	223	3.31	95	3.0	98	3165	8106	M	0.23	99	1129	10	99
29H8000	BLOK-BROS EAGLE VISION-ET	*IL	186	97	60	0.00	79	1866	76	0.03	79	234	234	3.10	64	1.7	53	35	59	M	0.92	81	1309	10	59
11H3409	LOOSLEA BSTAR MARCEL-ET	*RC *IL	182	97	66	0.04	82	1849	84	0.07	82	237	247	3.44	67	1.4	47	46	72	S	0.69	82	1336	12	74

36. Which bull has the best score for S.C.C?
a) Aberdeen b) Riley c) Marcel d) Projector

37. Which bull would you want to use if you wanted to improve type?
a) Bellwood b) Marksman c) Riley d) Cubby

38. Which bull has the most reliable proof?
a) Cubby b) Roebuck c) Aristides d) Saffron

39. Which bull has the highest proof for net milk value?
a) Will b) Andrew c) Zebo d) Bert

40. Which bull has the highest rate on total performance?
a) Riley b) Marksman c) Lingo d) Aberdeen

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

41. How many traits are evaluated on the nationally accepted "Linearized Descriptive Traits" scorecard?
a) 4 b) 9 c) 14 d) 17

42. Which of the following is NOT one of the trait groupings?
a) Breed character b) Rump c) udder d) teats

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

44. The range in scores in linear evaluation can range from
a) 1-10 b) 1-25 c) 1-50 d) 1-100

45. Teat length of 1 5 inches would receive a score of:
a) 15 b) 25 c) 35 d) 45

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."

OFFICIAL AJCA PERFORMANCE PEDIGREE

DATE ISSUED 05-24-95 (T 383985)

FEMALE
AMES BERRETTA PRUDENCE
003905411
BORN 12-31-94
TATOO A1366 A1366

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

PA +931M +31F +44P +132P$ +164CY$
+2.5 TYPE +272PTI

REG NUMBER	BIRTHDATE	TATOO

ST	SR	BD	DF	RA	TW	RL	FA
+1.1	+0.4	0.0	+2.6	L0.8	+0.4	P0.3	S1.3

FU	RH	RW	UC	UD	TP	TL
+1.0	+1.9	+1.6	+1.1	S0.6	C2.3	L1.0

SOLDIERBOY BOOMER SOONER OF CJF
000640211 7J159
USDA 1/95 12403 DAUS 1561 HRDS 11% RIP
99%R +1610M -.34% + 22F 83%ILE
99%R -.11% + 42P +163P$ +153CY$
AJCA 1/95 8015 DAUS 100%USA
PTAT 99%R +3.3 PTI 99%R +250

OSB E SETTLER SHADOW MAGGIE 95%
003459978 OSB D192
2-00 304 2 15530 5.0 778 3.7 576 DHIR
3-00 305 2 20040 5.1 1020 3.8 754 DHIR
4-03 305 2 26200 4.3 1125 4.01040 DHIR
5-06 305 2 25000 4.3 1068 4.11031 DHIR
6-11 305 2 27340 4.3 1179 4.21154 DHIR
8-10 305 2 25870 4.0 1036 3.91018 DHIR
305 2X ME AVG 6L 24,889M 1095F 977P
PPA +4489M +197F +197P +649P$ +779CY$
USDA PTA 1/95 5RECS 71%R 99%ILE
+1031M + 42F + 55P +162P$ +210CY$
AJCA 1/95 PTAT 51%R +0.8 PTI 68%R +29

MASON BOOMER SOONER BERRETTA
000651835 YSP 7J254
USDA 1/95 467 DAUS 232 HRDS 41% RIP
96%R +1481M -.22% + 35F 98%ILE
96%R +.07% + 66P +198P$ +243CY$
AJCA 1/95 275 DAUS 100%USA
PTAT 92%R +3.5 PTI 92%R +397

AMES LESTER PRUDENCE
003758206 A1077 A1077
DHI HERD #42-85-0274 CONTROL #07900
1-11 275 3 10700 5.2 554 3.9 415 DHIR
305 2X ME AVG 1L 11,354M 588F 441P
2-09 75%
ST SR BD DF RA TW RL FA
29 26 33 23 18 31 25 34
FU RH RW UC UD TP TL
43 25 24 31 38 32 25
PPA - 26M + 37F + 18P +46P$ +83CY$
USDA PTA 1/95 1REC 45%R 84%ILE
+ 380M + 26F + 21P +67P$ +86CY$
AJCA 1/95 PTAT 47%R +1.5 PTI 45%R +146

HIGHLAND DUNCAN LESTER
000645454 29J2875
USDA 1/95 2865 DAUS 746 HRDS 72% RIP
99%R +1174M -.11% + 38F 75%ILE
99%R -.02% + 41P +146P$ +160CY$
AJCA 1/95 1344 DAUS 100%USA
PTAT 98%R +3.4 PTI 97%R +281

AMES ROYAL PRUDENCE 80
003622691 A9812 A9812
DHI HERD #42-85-0274 CONTROL #07874
1-11 305 2 10950 5.3 584 4.2 456 DHI
3-00 295 3 14190 4.9 700 4.1 575 DHI
4-01 270 3 14810 5.2 773 3.9 579 DHI
5-00 305 3 16080 5.4 869 4.1 661 DHI
305 2X ME AVG 4L 13,167M 680F 528
PPA -1172M + 24F - 2P -53P$ +10CY$
USDA PTA 1/95 4RECS 54%R 50%ILE
- 206M + 17F + 6P +7P$ +31CY$
AJCA 1/95 PTAT 50%R +0.4 PTI 53%R +

OFFICIAL AJCA PERFORMANCE PEDIGREE

DATE ISSUED 05-24-95 (T 383985) 2

FEMALE
AMES BERRETTA SPARKLE
003905412
BORN 02-10-95
TATOO A1386 A1386

PA +1067M +41F +47P +150P$ +180CY$
+3.0 TYPE +301PTI

ST	SR	BD	DF	RA	TW	RL	FA
+1.9	0.0	0.0	+3.2	L0.3	-0.2	P0.3	S1.1

FU	RH	RW	UC	UD	TP	TL
+0.6	+2.2	+2.0	+1.2	S1.1	C2.6	L1.0

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

REG. NUMBER BIRTHDATE TATOO

SOLDIERBOY BOOMER SOONER OF CJF
000640211 7J159
USDA 1/95 12403 DAUS 1561 HRDS 11% RIP
99%R +1610M -.34% + 22F 83%ILE
99%R -.11% + 42P +163P$ +153CY$
AJCA 1/95 8015 DAUS 100%USA
PTAT 99%R +3.3 PTI 99%R +250

OSB E SETTLER SHADOW MAGGIE 95%
003459978 OSB D192
2-00 304 2 15530 5.0 778 3.7 576 DHIR
3-00 305 2 20040 5.1 1020 3.8 754 DHIR
4-03 305 2 26200 4.3 1125 4.01040 DHIR
5-06 305 2 25000 4.3 1068 4.11031 DHIR
6-11 305 2 27340 4.3 1179 4.21154 DHIR
8-10 305 2 25870 4.0 1036 3.91018 DHIR
305 2X ME AVG 6L 24,889M 1095F 977F
PPA +4489M +197F +197P +649P$ +779CY$
USDA PTA 1/95 5RECS 71%R 99%ILE
+1031M + 42F + 55P +162P$ +210CY$
AJCA 1/95 PTAT 51%R +0.8 PTI 68%R +2

MASON BOOMER SOONER BERRETTA
000651835 YSP 7J254
USDA 1/95 467 DAUS 232 HRDS 41% RIP
96%R +1481M -.22% + 35F 98%ILE
96%R +.07% + 66P +198P$ +243CY$
AJCA 1/95 275 DAUS 100%USA
PTAT 92%R +3.5 PTI 92%R +397

AMES BROOK SPARKLE
003758207 A1079 A1079
DHI HERD #42-85-0274 CONTROL #07901
2-00 294 3 13140 4.9 650 3.8 496 DHIR
305 2X ME AVG 1L 13,339M 654F 499P
2-09 80%

ST	SR	BD	DF	RA	TW	RL	FA
33	32	31	34	20	25	26	31

FU	RH	RW	UC	UD	TP	TL
35	33	31	30	34	33	16

PPA +1394M + 99F + 58P +219P$ +253CY$
USDA PTA 1/95 1REC 44%R 94%ILE
+ 653M + 46F + 27P +102P$ +118CY$
AJCA 1/95 PTAT 46%R +2.5 PTI 44%R +204

MOLLY BROOK BRASS MAJOR
000644248 29J2865
USDA 1/95 715 DAUS 324 HRDS 70% RI
97%R +1021M +.08% + 60F 65%ILE
97%R +.00% + 38P +146P$ +163CY$
AJCA 1/95 292 DAUS 100%US
PTAT 93%R +4.2 PTI 93%R +304

AMES SILVER SAINT SPARKLE 80
003658892 A9917 A9917
DHI HERD #42-85-0274 CONTROL #0788
1-11 305 3 15040 5.0 753 3.7 563 DHI
3-03 305 3 16570 5.7 951 4.0 658 DHI
305 2X ME AVG 2L 15,310M 817F 586
PPA +1632M +166F + 67P +284P$ +322CY$
USDA PTA 1/95 3RECS 53%R 79%ILE
+ 300M + 34F + 14P +57P$ +67CY$
AJCA 1/95 PTAT 50%R +0.5 PTI 53%R +

OFFICIAL AJCA PERFORMANCE PEDIGREE

DATE ISSUED 05-24-95 (T 383985) 2

FEMALE
AMES MALCOLM SPARK
003905413
BORN 03-01-95
TATOO A1393 A1393

PA +580M +29F +19P +76P$ +81CY$
+0.4 TYPE +106PTI

ST	SR	BD	DF	RA	TW	RL	FA
-0.8	-0.1	+0.8	-0.1	H0.3	+0.4	P0.4	L0.2

FU	RH	RW	UC	UD	TP	TL
0.0	0.0	+0.2	+0.7	D1.6	C1.2	0.0

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

REG. NUMBER BIRTHDATE TATOO

HIGHLAND MAGIC DUNCAN
000635862 7J177
USDA 1/95 10291 DAUS 1473 HRDS 2% RIP
99%R + 773M +.08% + 48F 54%ILE
99%R +.00% + 28P +111P$ +122CY$
AJCA 1/95 7876 DAUS 100%USA
PTAT 99%R +2.2 PTI 99%R +222

BERRYS SOLDIER PARADE 86%
003287540 C722 C722
2-00 305 2 13040 4.2 550 3.6 466 DHIR
3-01 305 2 13540 4.2 566 3.7 498 DHIR
4-02 305 2 14770 4.5 664 3.7 550 DHIR
5-05 305 2 13230 4.1 539 3.8 497 DHIR
8-03 305 2 11710 4.6 542 3.7 435 DHIR
9-05 178 2 7790 4.3 338 3.6 280 DHIR
305 2X ME AVG 5L 14,756M 619F 529P
PPA +2000M + 12F + 49P +188P$ +170CY$
USDA PTA 1/95 4RECS 76%R 77%ILE
+ 604M + 2F + 12P +52P$ +41CY$
AJCA 1/95 PTAT 49%R -1.1 PTI 72%R + 3

DUNCANS PRINCE MALCOLM
000647162 YSP 7J212
USDA 1/95 118 DAUS 70 HRDS 21% RIP
89%R + 949M +.00% + 45F 51%ILE
89%R -.01% + 34P +128P$ +140CY$
AJCA 1/95 58 DAUS 100%USA
PTAT 77%R +1.8 PTI 84%R +209

AMES ANDY SPARK
003771451 A1104 A1104
DHI HERD #42-85-0274 CONTROL #07904
1-10 245 3 9670 4.7 459 3.6 344 DHIR
305 2X ME AVG 1L 11,880M 564F 423P
2-05 70%

ST	SR	BD	DF	RA	TW	RL	FA
14	16	18	17	14	22	15	13

FU	RH	RW	UC	UD	TP	TL
26	22	25	34	22	31	16

PPA + 441M + 14F - 1P +31P$ +4CY$
USDA PTA 1/95 1REC 43%R 61%ILE
+ 210M + 13F + 4P +25P$ +21CY$
AJCA 1/95 PTAT 45%R -1.1 PTI 43%R + 3

FAIR WEATHER ANDY
000645219 29J2871
USDA 1/95 280 DAUS 120 HRDS 39% RIP
93%R + 953M -.06% + 35F 50%ILE
93%R -.11% + 18P +99P$ +80CY$
AJCA 1/95 122 DAUS 100%USA
PTAT 84%R -0.7 PTI 89%R +152

AMES ROYAL SPARK 52%
003622692 A9814 A9814
DHI HERD #42-85-0274 CONTROL #07875
2-04 300 3 10990 5.2 575 4.2 457 DHIR
3-03 232 3 10670 5.3 567 4.0 428 DHIR
4-03 262 3 12120 5.3 639 3.9 473 DHIR
5-02 72 3 3820 4.7 180 4.0 152 DHIR
305 2X ME AVG 3L 11,970M 629F 481P
PPA -1647M - 23F - 33P -152P$ -123CY$
USDA PTA 1/95 4RECS 53%R 31%ILE
- 339M - 1F - 4P -25P$ -14CY$
AJCA 1/95 PTAT 50%R -0.7 PTI 53%R - 2

OFFICIAL AJCA PERFORMANCE PEDIGREE

DATE ISSUED 05-24-95 (T 383985) 14

FEMALE
AMES DUNKER DELLA
003905414
BORN 03-05-95
TATOO A1396 A1396

PA +952M +38F +37P +128P$ +147CY$
+1.3 TYPE +224PTI

ST	SR	BD	DF	RA	TW	RL	FA
+2.5	+1.1	+0.7	+0.8	L0.4	+0.6	P0.8	S1.0

FU	RH	RW	UC	UD	TP	TL
+0.6	+1.2	+0.6	+0.5	S1.4	C0.2	L0.3

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

REG. NUMBER BIRTHDATE TATOO

HIGHLAND MAGIC DUNCAN
000635862 7J177
USDA 1/95 10291 DAUS 1473 HRDS 2% RIP
99%R + 773M +.08% + 48F 54%ILE
99%R +.00% + 28P +111P$ +122CY$
AJCA 1/95 7876 DAUS 100%USA
PTAT 99%R +2.2 PTI 99%R +222

GREENRIDGE FW CHIEF ALTHEA-ET 92%
003507678 GR1868
2-02 305 3 17750 5.0 881 3.9 686 DHIR
3-02 305 2 18950 4.7 892 3.8 712 DHIR
4-11 305 2 20560 4.7 970 3.9 809 DHIR
6-00 305 2 20360 4.5 913 3.8 777 DHIR
8-04 41 2 3360 4.3 144 3.7 124 DHIR
305 2X ME AVG 4L 20,773M 961F 785P
PPA +4234M +205F +183P +619P$ +736CY$
USDA PTA 1/95 4RECS 85%R 99%ILE
+1433M + 73F + 64P +215P$ +258CY$
AJCA 1/95 PTAT 51%R +0.4 PTI 79%R +35

GREENRIDGE ALTHEAS DUNKER
000650637 9J93
USDA 1/95 74 DAUS 44 HRDS 7% RIP
84%R + 999M -.06% + 37F 46%ILE
84%R +.01% + 38P +132P$ +149CY$
AJCA 1/95 40 DAUS 100%USA
PTAT 70%R +1.1 PTI 78%R +225

AMES SOONER DELLA
003693681 A9994 A9994
DHI HERD #42-85-0274 CONTROL #07892
2-00 289 3 16990 4.9 825 3.7 630 DHIR
3-00 305 3 17850 4.7 847 3.9 691 DHIR
305 2X ME AVG 2L 16,774M 795F 627P
2-03 83% 3-00 81%

ST	SR	BD	DF	RA	TW	RL	FA
27	16	23	32	15	17	32	18

FU	RH	RW	UC	UD	TP	TL
23	33	28	35	26	36	25

PPA +2792M +117F + 97P +363P$ +394CY$
USDA PTA 1/95 2RECS 49%R 98%ILE
+ 905M + 39F + 36P +125P$ +144CY$
AJCA 1/95 PTAT 50%R +1.5 PTI 49%R +223

SOLDIERBOY BOOMER SOONER OF CJF
000640211 7J159
USDA 1/95 12403 DAUS 1561 HRDS 11% RIP
99%R +1610M -.34% + 22F 83%ILE
99%R -.11% + 42P +163P$ +153CY$
AJCA 1/95 8015 DAUS 100%USA
PTAT 99%R +3.3 PTI 99%R +250

AMES ROYAL DELLA 77%
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
5-07 299 3 11250 5.4 613 4.1 466 DHIR
6-07 50 3 2240 4.8 108 4.0 89 DHIR
305 2X ME AVG 4L 12,367M 673F 502P
PPA -1439M + 31F - 8P -72P$ -6CY$
USDA PTA 1/95 5RECS 57%R 57%ILE
- 210M + 26F + 10P +18P$ +50CY$
AJCA 1/95 PTAT 50%R -0.4 PTI 56%R + 4

1995 Iowa FFA Dairy Cattle Production and Management Test
Answer Sheet

Name: Official Chapter (Town): _____

Contestant No: _____

General(2 points)

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

DHIA (5 points)

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

Dairy Mgt.(5 points)

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

Sire Summary (5 points)

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

Evaluation (5 points)

41. c
42. a
43. c
44. c
45. a

Pedigree Evaluation (50 points)

1234	38
1243	45
1324	24
1342	17
1423	38
1432	24
2134	43
2143	50
2314	34
2341	32
2413	48
2431	39
3124	15
3142	8
3214	20
3241	18
3412	6
3421	11
4123	36
4132	22
4213	41
4231	32
4312	13
4321	18