

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 21, 1996

(Mark the best answers in the proper blank on the answer sheet.)

25 Objective Questions - 2 points each

1. Soybean oil meal has about _____% protein.
a) 10 b) 27 c) 44 d) 60
2. Which of the following usually has a higher protein %.
a) alfalfa b) corn silage c) grass hay d) corn
3. Which hormone blocks "milk let-down"?
a) oxytocin b) adrenalin c) estrogen d) progesterone
4. Supplementing selenium and Vitamin ____ has helped to reduce the incidence of retained placentas in dairy cattle.
a) A b) D c) E d) K
5. White muscle disease of calves is caused by a deficiency of which mineral?
a) calcium b) phosphorous c) selenium d) potassium
6. Which part of the body secretes bovine somatotropin?
a) pituitary b) liver c) lymph nodes d) alveoli
7. What is the common name for parturient paresis?
a) ketosis b) milk fever c) mastitis d) metritis
8. "Programmed breeding systems" have been found to:
a) reduce calving intervals b) improve reproductive performance
c) increase net income per cow d) all three
9. Which of the following regions had the highest "Mailbox Milk Price" in March of 1996?
a) Pacific Northwest b) Texas c) New England d) Iowa
10. Total milk production in the U.S. in 1996 compared to the same months in 1995 has:
a) increased b) decreased c) stayed the same d) too early to tell
11. Heifers should be bred so that they calve at about what age?
a) 13-15 months b) 21-24 months c) 27-30 months d) 30-33 months
12. Which organization provides sire summary information for all breeds?
a) PDCA b) USDA c) DHIA d) NMPF

13. What major cattle disease may be eradicated in the U.S. as early as July of 1997?
a) mastitis b) brucellosis c) tuberculosis d) ketosis
14. The Holstein breed originated in:
a) United States. b) Netherlands. c) Germany. d) England.
15. If the genotype of parents are Bb, what is the most likely genotype of the offspring?
a) BB b) Bb c) bb d) not enough information given.
16. Research has consistently shown that daughters of A.I. sires milk _____ lbs more milk than daughter of natural service bulls.
a) 1000 b) 1200 c) 500 d) 0
17. Which hormone causes development of male characteristics as animals mature.
a) oxytocin b) estrogen c) testosterone d) progesterone
18. Which disease is not usually associated with infertility and/or abortions?
a) Brucellosis b) Leptospirosis c) Ketosis d) Infectious bovine rhinotracheitis
19. Which part of the stomach consists of network arrangement that resembles a honeycomb.
a) reticulum b) omasum c) abomasum d) rumen
20. Which compartment of the stomach functions like the stomach of a non-ruminant animal?
a) reticulum b) omasum c) abomasum d) rumen
21. Which vitamin is associated with night blindness?
a) A b) B c) C d) D
22. Cattle can make their own Vitamin ____ if they are exposed to direct sunlight.
a) A b) B c) C d) D
23. _____ are organic compounds needed in small amounts to support life.
a) Carbohydrates b) Vitamins c) Minerals d) Fats
24. What is the name of the small duct that makes and stores milk?
a) Keratin b) sphincter c) pituitary d) alveoli
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 somatic cell count for all cows in the herd?
a) 138,000 b) 225,000 c) 281,000 d) 489,000

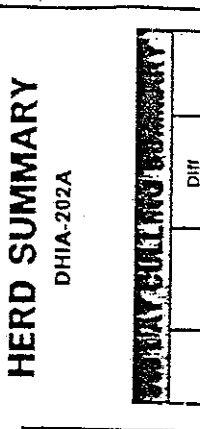
27. What is the sample day income over feed cost for the herd?
a) \$112 b) \$159 c) \$271 d) \$6.46

28. What is the average days to first breeding for the pregnant cows?
a) 96 b) 417 c) 137 d) 84

29. How has the RHA for milk changed during the last year?
a) up 1,748 lbs b) down 3,093 lbs c) down 1,004 lbs d) up 3,093 lbs

30. What is the most recent Management Level Milk figure?
a) 73.3 b) 64.5 c) 76.4 d) 78.8

Headcode	Breed	AX380	Supplied	GP	429901	00	DHI	12-20-92	Cow Months	45.8	62	11-09	12-21	Received	12-21	1-21	1-22
42-85-0313	RH	68	GP	429901	00	DHI	12-20-92	Cow Months	45.8	62	11-09	12-21	1-21	Received	12-21	1-21	1-22



HERD SUMMARY

DHIA-202A

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
Expected to be Dry	7	6	1		2	5	6	8			5

REPRODUCTION SUMMARY

Group	Produce-ment Females	Number	Age / Days to First Birth	Number of Animals Bred	Age / Days to First Birth	Breeding Interval	Days Minimum Freshening Interval
Pregnant	11	327	1-01	4	96	3	5
Possibly Pregnant	10	149	1-01	4	84	3	3
Open	12	49		27	56	1.5	2.2

IDENTIFICATION SUMMARY

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

305-DAY MILKING SUMMARY

Sample Day	% Milk Shipped	Producing Females on Farm	% In Milk	Mot. Level Milk	Test Interval Daily Average	Milk	% Fat	% Protein	Rolling 365 Day Average	Milk	% Fat	% Protein	Protein
1-25	35	100	88	73.3	67.6	3.39	3.15	22,639	759	3.35	3.15	713	
3-26	34	101	99	74.1	79.3	3.21	3.10	23,066	767	3.33	3.15	726	
4-29	34	100	97	76.7	81.7	3.04	3.03	23,407	771	3.29	3.14	734	
5-31	32	199	93	80.7	76.1	3.18	3.08	23,684	777	3.28	3.12	740	
6-21	21	99	86	79.9	70.7	3.33	3.12	24,020	789	3.29	3.12	757	
7-19	28	100	83	83.5	65.3	3.16	3.05	24,486	798	3.27	3.12	763	
8-16	28	101	78	80.5	61.8	3.18	3.04	24,632	804	3.28	3.11	768	
9-13	28	102	95	81.9	75.0	3.34	3.04	25,058	818	3.26	3.11	779	
10-11	28	100	87	82.3	71.1	3.38	3.05	25,443	832	3.27	3.10	788	
11-08	28	100	82	77.2	67.9	3.22	3.11	25,684	838	3.26	3.10	795	
12-20	42	100	78	76.4	64.5	3.33	3.02	25,732	838	3.26	3.08	792	
	365	100	88	78.8	4	Totals and Average of 12 Tests							33.08

DIFFICULTY SUMMARY

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

STAGE OF LACTATION PROFILE

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

FEEDS REPORTED ON SAMPLE DAY

Feed Name	POUNDS FED						MCAL N.E.
	String 1	String 2	String 3	String 4	String 5	String 6	
CONCENTRATES	133	18	7				83
CORN SILAGE	28	30	10				65
ALFALFA HAY	99	7	15				57
DRY HAY	80	30					67
ALFALFA HAYL	40	7					58
TOPDRESS 2	237	GR					91
39 COTTON SE	157	TP					103
SOY BEAN MEL	190	2					75

Last Changed: 1-12-93

COST AND RETURN SUMMARY

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

FEED SUMMARY

FEED TYPE	Annual LBS/Cow or Days/Cow (L)	Annual Average
DRY HAY	3,548	
CORN SILAGE	10,572	
HAYLAGE	2,901	
CONCENTRATE	9,313	
LBS Forage D.M. per 100 lbs D.M.	1.8	1.8
LBS. MILK Produced per Lb. Grain	2.3	2.8

Reports are not normally printed back to back



HERD SUMMARY

DHIA-202B

LACT. #	Number	Avg. Sample LBS. Milk	Average SCC		SCC Above 400,000
			Raw	Linear	
1	9	79.7	138	2.5	1
2	81	115.2	225	3.1	1
3+	71	121.7	489	3.7	3
Total	24	102.0	281	3.1	5
Sample Day	4.81	2024	Avg. BWT - 1210		
Sample Day	12.92	12.41	Pounds Shipped Daily		2,100
Sample Day	8.22	3192	Sample		2,099
Sample Day	.24	5.80	% Milk Shipped		100

BIRTH AND INVENTORY SUMMARY

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

Inventory Changes since last Report

Replacements Lactation 1	3
Lactation 2 +	3
Total	3

Dairy Management Problems - 5 points each

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

Corn	\$4.48/bushel	Protein Price	\$2.00/lb
Soybean Meal	\$260/ton	Butterfat Price	\$1.50/lb
Hay	\$110/ton		
Milk price	\$15.00/cwt.		

31. A new facility costs \$2200/cow. Annual costs are 20 percent of "new" cost. What is the annual cost per cow per year to cover the facility cost?
a) 300 b) 360 c) 440 d) 220
32. What are the annual costs per cwt. of milk if 16,000 and 24,000 lbs. of milk per cow are produced?
a) 2.25 and 1.50 b) 2.75 and 1.83 c) 1.50 and 1.00 d) 1.38 and .92
33. Two people milk 60 cows in 1 ½ hours. Cows average 35 lbs of milk. Labor costs are \$8.00/hr. What is the milking labor cost per cwt. of milk produced?
a) 1.14 b) .40 c) 2.28 d) .76
34. One cow averages 3.8 % fat and 3.4% protein, another cow averages 3.3% fat and 2.8% protein. How much difference is there in the price of 100 lbs of milk?
a) \$.75 b) \$1.20 c) \$1.45 d) \$1.95
35. A cow eats 16 lbs of corn, 4 lbs of soybean meal, and 26 lbs of hay. She gives 60 lbs of milk. What is her income over feed cost per day?
a) \$9.00 b) \$1.43 c) \$5.77 d) \$3.23

The following is a portion of the July, 1996 Sire Summary. Using the information shown below, answer questions 36-40. Mark the correct answer on the answer sheet.

SIRE NAME	USDA - DHIA GENETIC EVALUATIONS PREDICTED TRANSMITTING ABILITIES														SAMPLING INFORMATION			BREED ASSOC TYPE DATA				
	NM	PRO	PRO	FAT				MF		MFP		PL		NO.	NO.	CD	PTAT	R	TPI™			
	\$\$	RK	LBS	%	R	MILK	LBS	%	R	\$\$	\$\$	SCS	R	HRDS	DAUS							
ZIELLAND ZEBO	*TL	25	99	78	-0.05	73	2878	104	-0.01	73	345	323	3.03	56	0.6	51	19	37	O	2.00	72	1595
MAIZEFIELD BELLWOOD-ET	*TL	23	98	80	0.00	82	2552	86	-0.03	83	301	299	2.97	70	1.6	62	44	60	S	1.37	82	1475
END-ROAD LEADMAN BARLO-ET	*TL	22	98	84	-0.01	70	2778	58	-0.18	73	303	296	3.23	57	1.8	40	31	37	S	1.14	73	1480
END-ROAD BLACKSTAR MAJIC-ET	*TL	22	98	72	-0.03	79	2528	90	-0.01	79	302	288	3.25	64	2.0	56	31	54	O	1.72	78	1511
DINOMI MELWOOD TOUCH	*TL	21	98	62	-0.07	75	2505	84	-0.03	76	296	268	3.09	61	1.8	49	39	47	S	0.82	76	1348
ARLINDA RAPTURE-ET	*TL	20	98	76	0.01	77	2322	59	-0.11	80	261	263	3.06	65	1.5	46	40	71	S	0.63	83	1324
PATRICK-ORCHARD LABAN ABNER	*TL	20	98	70	0.06	79	1808	72	0.03	82	221	240	3.09	66	3.0	56	49	60	S	0.59	84	1385
DIAMOND-W WIND KADDY-ETS	*TL	20	98	71	0.00	74	2264	72	-0.05	76	264	262	3.33	63	2.1	50	24	49	O	1.78	78	1482
SCHUELLER PRIDE-ET	*TL	20	98	70	-0.03	64	2466	58	-0.14	64	274	260	3.22	51	1.9	38	20	25	M			
PEN-COL EMERY-ET	*TL	19	98	68	0.02	77	2007	71	-0.01	78	239	245	2.99	64	2.0	44	44	65	S	1.40	79	1412
SHEN-VAL NV LM FORMATION-ET	*TL	19	98	68	-0.02	75	2325	46	-0.17	76	252	242	3.06	62	2.4	43	38	53	S	2.22	78	1496
KERNDTWAY GOLDFINGER	*TL	19	98	75	0.05	76	2039	70	-0.02	77	242	257	3.20	61	1.7	42	40	49	S	0.87	76	1396
ZEE-CAL MAESTRO-TW		19	98	50	-0.17	71	2914	67	-0.17	73	322	256	3.14	59	1.6	41	23	42	M	2.06	72	1327
VISTA-VIEW CLEITUS BERT-ET	*TL	18	98	59	-0.07	83	2400	53	-0.15	85	264	236	3.41	73	3.3	65	46	67	S	1.19	84	1311
COASTAL CLEITUS ANDREW	*TL	18	98	65	-0.01	78	2140	84	0.02	78	261	256	3.35	66	1.8	58	33	47	S	0.81	78	1307
SHARISTIBOS SW MO V-ET	*TL	19	98	68	0.05	77	1767	93	0.13	78	232	250	3.13	64	1.5	53	35	44	S	1.11	80	1378
AMELDIN II PONTIAC HUNTER	*TL	19	98	65	-0.01	82	2149	63	-0.07	83	247	241	3.00	70	1.7	61	46	54	S	0.52	80	1278
LOCUST-HILL RTL BRISTOL-ET	*TL	19	97	79	0.05	78	2149	68	-0.05	80	251	266	3.34	65	0.9	54	45	55	S	0.61	80	1401
LUTZ-MEADOWS MARK SAFFRON	*TL	18	97	72	0.02	65	2126	65	-0.05	65	246	253	3.09	55	0.8	50	12	35	O	1.01	62	1404
PEASEDALE LINGO-ET	*TL	18	97	69	-0.02	80	2357	72	-0.06	83	273	263	3.32	69	0.7	63	38	57	S	0.48	84	1264

36. Which bull should do the most to improve type?
a) Formation b) Rapture c) Hunter d) Abner
37. Which bull has the highest ranking on total performance?
a) Bellwood b) Lingo c) Touch d) Majic
38. Which bull's daughters have the most pounds of protein?
a) Zebo b) Barlo c) Bristol d) Goldfinger
39. Which bull has been sampled in the most herds?
a) Rapture b) Bert c) Abner d) Hunter
40. Which bull has the highest proof for net value milk?
a) Andrew b) Saffron c) Pride d) Zebo

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)

①
215650

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

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

215650

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 PU.3 S1.1
FU RH RW UC UD TP TL
+0.6 +2.2 +2.0 +1.2 S1.1 C2.6 L1.0

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 PIT 99%R +250

OSB E SETTLER SHADOW MAGGIE 95%
003459978 OSB 0192

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 4.0 1040 DHIF
5-06 305 2 25000 4.3 1068 4.1 1031 DHIF
6-11 305 2 27340 4.3 1179 4.2 1154 DHIF
8-10 305 2 25870 4.0 1036 3.9 1018 DHIF
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 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% RIP
97%R +1021M +.08% + 60F 65%ILE
97%R +.00% + 38P +146P\$ +163CY\$
AJCA 1/95 292 DAUS 100%USA
PTAT 93%R +4.2 PTI 93%R +304

AMES SILVER SAINT SPARKLE 80%
003658892 A9917 A9917

DHI HERD #42-85-0274 CONTROL #07885
1-11 305 3 15040 5.0 753 3.7 563 DHIF
3-03 305 3 16570 5.7 951 4.0 658 DHIF
305 2X ME AVG 2L 15,310M 817F 586P
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

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

PA +580M +29F +19P +76PS +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 01.6 C1.2 0.0

REG. NUMBER BIRTHDATE TATOO

HIGHLAND MAGIC DUNCAN
 000635862 7J1177

USDA 1/95 10291 DAUS 1473 HRDS 2% RI
 99%R + 773M +.08% + 48F 54%ILE
 99%R +.00% + 28P +111PS +122CY\$
 AJCA 1/95 7876 DAUS 100%US
 PTAT 99%R +2.2 PTI 99%R +222

BERRYS SOLDIER PARADE
 003287540 C722 C722

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

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 +128PS +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 +31PS +4CY\$
 USDA PTA 1/95 1REC 43%R 61%ILE
 + 210M + 13F + 4P +25PS +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% RI
 93%R + 953M -.06% + 35F 50%ILE
 93%R -.11% + 18P +99PS +80CY\$
 AJCA 1/95 122 DAUS 100%US
 PTAT 84%R -0.7 PTI 89%R +152

AMES ROYAL SPARK
 003622692 A9814 A9814

52
 DHI HERD #42-85-0274 CONTROL #0787
 2-04 300 3 10990 5.2 575 4.2 457 DHI
 3-03 232 3 10670 5.3 567 4.0 428 DHI
 4-03 262 3 12120 5.3 639 3.9 473 DHI
 5-02 72 3 3820 4.7 180 4.0 152 DHI
 305 2X ME AVG 3L 11,970M 629F 481
 PPA -1647M - 23F - 33P -152PS -123CY\$
 USDA PTA 1/95 4RECS 53%R 31%ILE
 - 339M - 1F - 4P -25PS -14CY\$
 AJCA 1/95 PTAT 50%R -0.7 PTI 53%R -

OFFICIAL AJCA PERFORMANCE PEDIGREE

DATE ISSUED 05-24-95 (T 383985) 3

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

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

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

REG. NUMBER BIRTHDATE TATOO

ST SR BD DF RA TW RL FA
+2.5 +1.1 +0.7 +0.8 L0.4 +0.6 PO.8 S1.0
FU RH RW UC UD TP TL
+0.6 +1.2 +0.6 +0.5 S1.4 CO.2 L0.3

HIGHLAND MAGIC DUNCAN
000635862 7J177

USDA 1/95 10291 DAUS 1473 HRDS 2X RI
99ZR + 773M +.08% + 48F 54XILE
99ZR +.00% + 28P +111P\$ +122CYS
AJCA 1/95 7876 DAUS 100XUS
PTAT 99ZR +2.2 PTI 99ZR +222

GREENRIDGE FW CHIEF ALTHEA-ET
003507678 GR1868

2-02 305 3 17750 5.0 881 3.9 686 DHI
3-02 305 2 18950 4.7 892 3.8 712 DHI
4-11 305 2 20560 4.7 970 3.9 809 DHI
6-00 305 2 20360 4.5 913 3.8 777 DHI
8-04 41 2 3360 4.3 144 3.7 124 DHI
305 2X ME AVG 4L 20,773M 961F 785
PPA +4234M +205F +183P +619P\$ +736CYS
USDA PTA 1/95 4RECS 85ZR 99XILE
+1433M + 73F + 64P +215P\$ +258CYS
AJCA 1/95 PTAT 51ZR +0.4 PTI 79ZR +3

GREENRIDGE ALTHEAS DUNKER
000650637 9J93

USDA 1/95 74 DAUS 44 HRDS 7X RIP
84ZR + 999M -.06% + 57F 46XILE
84ZR +.01% + 38P +132P\$ +149CYS
AJCA 1/95 40 DAUS 100ZUSA
PTAT 70ZR +1.1 PTI 78ZR +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\$ +394CYS
USDA PTA 1/95 2RECS 49ZR - 98XILE
+ 905M + 39F + 36P +125P\$ +144CYS
AJCA 1/95 PTAT 50ZR +1.5 PTI 49ZR +223

SOLDIERBOY BOOMER SOONER OF CJF
000640211 7J159

USDA 1/95 12403 DAUS 1561 HRDS 11X RI
99ZR +1610M -.34% + 22F 83XILE
99ZR -.11% + 42P +163P\$ +153CYS
AJCA 1/95 8015 DAUS 100XUS
PTAT 99ZR +3.3 PTI 99ZR +250

AMES ROYAL DELLA
003526975 A9691 A9691

DHI HERD #42-85-0274 CONTROL #0786
2-04 292 2 10660 5.6 598 4.1 438 DHI
3-04 305 2 13370 5.5 739 4.2 560 DHI
4-05 305 3 16750 5.5 917 4.0 676 DHI
5-07 299 3 11250 5.4 613 4.1 466 DHI
6-07 50 3 2240 4.8 108 4.0 89 DHI
305 2X ME AVG 4L 12,367M 673F 502
PPA -1439M + 31F - 8P -72P\$ -6CYS
USDA PTA 1/95 5RECS 57ZR 57XILE
- 210M + 26F + 10P +18P\$ +50CYS
AJCA 1/95 PTAT 50ZR -0.4 PTI 56ZR +

OFFICIAL AJCA PERFORMANCE PEDIGREE

DATE ISSUED 05-24-95 (T 383985)

4

FEMALE
 AMES DUNKER PRIDE
 003905416
 BORN 03-31-95
 TATOO A1403 A1403

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

215650
 215650

PA +1026M +34F +34P +125P\$ +132CY\$
 +0.6 TYPE +185PTI

REG. NUMBER BIRTHDATE TATOO

ST SR BD DF RA TW RL FA
 +1.9 +0.7 +0.7 0.0 0.3 +0.2 0.9 1.0
 FU RH RW UC UD TP TL
 +0.5 +0.3 +0.1 -0.3 0.3 0.2 0.3

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 70XR +1.1 PTI 78XR +225

AMES ANDY PRIDE
 003771452 A1105 A1105

DHI HERD #42-85-0274 CONTROL #07905
 1-09 288 3 14780 4.1 610 3.4 506 DHI
 305 2X ME AVG 1L 16,524M 677F 561P
 2-04 82%
 ST SR BD DF RA TW RL FA
 25 23 24 29 15 23 31 16
 FU RH RW UC UD TP TL
 35 33 34 28 31 28 24
 PPA +3037M + 76F + 77P +323P\$ +301CY\$
 USDA PTA 1/95 1REC 44%R 97%ILE
 +1052M + 31F + 29P +118P\$ +115CY\$
 AJCA 1/95 PTAT 45XR +0.0 PTI 44XR +145

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 99XR +2.2 PTI 99XR +222

GREENRIDGE FW CHIEF ALTHEA-ET
 003507678 GR1868

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

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 84XR -0.7 PTI 89XR +152

AMES RELIANT PRIDE
 003622690 A9811 A9811

DHI HERD #42-85-0274 CONTROL #07870
 2-05 299 3 14070 4.2 586 3.6 513 DHI
 3-05 258 3 16980 4.2 710 3.6 616 DHI
 4-04 292 3 17100 4.2 715 3.7 639 DHI
 305 2X ME AVG 3L 16,084M 670F 588F
 PPA +2431M + 41F + 77P +270P\$ +282CY\$
 USDA PTA 1/95 3RECS 57%R 88%ILE
 + 644M + 15F + 24P +79P\$ +89CY\$
 AJCA 1/95 PTAT 50XR -0.4 PTI 56XR +11

1996 Iowa FFA Dairy Cattle Production and Management Test Answer Sheet

Name: Official Chapter (Town): _____
Contestant No: _____

General (2 points)

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

DHIA (5 points)

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

Dairy Problems (5 points)

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

Pedigree
Evaluation
(50 points)

1234	36
1243	34
1324	44
1342	50
1423	40
1432	48
2134	21
2143	19
2314	14
2341	5
2413	10
2431	3
3124	37
3142	43
3214	22
3241	13
3412	34
3421	19
4123	31
4132	39
4213	16
4231	9
4312	32
4321	17

Sire Summary (5 points)

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

Placing
1-3-4-2
^ ^ ^
7 2 6
cuts