Dairy Cattle Career Development Event

Mark the best answer in the proper blank on the Scantron sheet.

25 Objective Questions – 2 pts. each

1. The best source of fat for milk replacer is from _____ _____.
   a. soy oil b. artificial fate c. canola oil d. animal fat

2. Washing the udder prior to milking stimulates the release of _____ which induces milk letdown.
   a. adrenaline b. testosterone c. oxytocin d. estrogen

3. Baby calves should be weaned at what age?
   a. 3 days b. 5-7 days c. 4-6 weeks d. 13-15 months

4. This substance forms in the tip of each teat when the cow is dry. It aids in sealing the teats to prevent infection of the udder.
   a. mucus b. keratin c. skin d. opaque

5. In the udder, the milk is formed in tiny sacs known as _____.
   a. alveoli b. mammary sacs c. lobules d. udder cisterns

6. bST (bovine Somatropin) has been shown to increase milk production.
   a. however injections of bST have also been shown to increase bST levels in the milk.
   b. and does not affect the chemical composition of the milk.
   c. and dramatically increase profitability.
   d. improve a cow's ability to breed back.

7. Soybeans are often heat-treated (roasted or extruded) in order to
   a. kill any bacteria that might be present on the outside of the beans.
   b. improve digestibility.
   c. provide a source of antibodies for the immune system.
   d. boil off excess fat or oil that is present in the beans.

8. What nutrient supplies the majority of energy in a cow's ration?
   a. minerals b. water c. protein d. carbohydrate

9. Ruminants are unique because of their ability to utilize cheaper sources of roughage as
   a. protein supplements b. nitrogen c. protein d. energy

10. Proteins are composed of carbon, hydrogen, oxygen and _____. Bacteria in the ruminant gut can utilize sources of this chemical element to build protein. This helps explain why ruminants can utilize non-protein feedstuffs, such as urea, which are of low value to monogastrics.
    a. Carbon b. Sulfur c. Nitrogen d. Phosphorus

11. Dystocia refers to
    a. herd health b. energy consumption c. calving difficulty d. mastitis

12. Off-flavors in milk can be caused because odors can be absorbed by
    a. fat globules in the milk.
    b. teat sphincter muscles.
    c. casein in the milk.
    d. tissue linings of the teat cistern.

13. Which of the following is <u>not</u> an effective means of controlling off-flavors in milk?
    a. provide clean, dry bedding for cows.
    b. control mastitis
    c. provide adequate ventilation in dairy facilities
    d. select sires which are low in this trait

Dairy Cattle Career Development Event

14. How soon after calving should cows be re-bred?
a. 21-30 days b. 50-70 days c. 305 days d. 365 days

15. Body condition scoring of dairy cattle is best used to
a. decide which animals to cull
b. decide when to dry off a cow
c decide which cows to breed
d. evaluate the overall nutrition and feed program

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

17. 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 seconds b. 45-60 seconds c. 3 min. d 5 min.

18. Which part of the body secretes bovine somatotropin?
a pituitary
b. liver
c. lymph nodes
d. none, it must be injected

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

20. Heifers should be bred so they calve at what age?
a. 13-15 months b 21-24 months c. 27-30 months d. 30-33 months

21. Cattle can make their own Vitamin _____ if they are exposed to direct sunlight.
a A b. B c C d D

22. This compartment of the ruminant stomach is called a "true" stomach and functions similarly to a monogastric's stomach.
a. rumen b. reticulum c. abomasum d. omasum

23. Retained placenta (retained fetal membranes) can lead to ..
a mastitis b. metritis c hardware disease d. displaced abomasum

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

25. What is the first milk secreted after calving called?
a. clostridia b coliform c. collagen d colostrum

DHIA Questions – 5 pts. Each

26. What is the current rolling herd average milk production for this herd?
a. 18,286 b. 182.5 c. 21,766 d. 20716

27. During what month was the average SCC score the lowest?
a. January b. February c. April d. June

28. How many cows are expected to calve in September?
a. 19 b. 6 c.12 d. 18

Dairy Cattle Career Development Event

29 Over the past year, what percent of breeding services were successful the first time?
a. 29 % b. 34 % c. 37 % d. 39 %

30 Which cow has the highest 305 production record for total pounds of milk?
a. cow # 14555872 b. cow # 14789616 c. cow # 14789621 d. cow # 14696589

Dairy Management Problems – 5 pts. Each

31 A load of hay consisting of small square bales averaging 60 lbs./bale costs $2.40 per bale. What is the cost of one ton of this hay?
a. $50.00 b. $80.00 c. $100.00 d. $144.00

32 You can purchase corn from four different producers. The following information shows the cost per bushel and the respective protein contents:

Farmer A's Corn:	$2.00 per bu.	8 % protein
Farmer B's Corn:	$2.10 per bu.	9 % protein
Farmer C's Corn:	$1.95 per bu.	7.5 % protein
Farmer D's Corn:	$1.75 per bu.	7 % protein

If protein is your most expensive nutritional input, which corn is a better value?
a. Famer A's Corn b. Farmer B's Corn c. Farmer C's Corn d. Farmer D's Corn

33 A 1400 pound cow is fed a total mixed ration that is 35 % moisture. Assuming she can physically consume 3.5 % of her body weight in dry matter, how much of this ration can she consume daily?
a. 17.15 lbs. b. 31.85 lbs. c. 75.38 lbs. d. 490 lbs.

34 You grind a 14 % protein ration by grinding 7% protein corn and 44 % protein soybean meal. Assuming that corn is $2.00 per bushel and SBM is $150 per ton, what is the cost per ton of this ration?
a. $75.70 b. $116.30 c. $95.35 d. $86.30

35 How much additional income would be generated for a producer selling 150,000 lbs. of milk if they decrease their average SCC from 400,000 SCC to 200,000 SCC?
Assume an adjustment of $0.01 per cwt. for every 10,000 SCC below 400,000.
a. $3 b. $30 c. $300 d. $3000

Sire Evaluation Questions – 5 pts. Each

36 If a herd owners primary selection objective was to increase pounds of protein produced then the first choice of sire service would be:
a. Hol-Steins Be Dennis
b. 250 Swind Gimmick-ET
c. 250 Gibbon
d. Green Aero

37 If herd owners are primarily interested in increasing pounds of milk produced then their first choice of service sire would be:
a. Hol-Steins Be Dennis
b. Dixie-Lee Leadman Sid-ET
c. Markwell Twomar-ET
d. 250 Fatal

38 Which sire has the greatest number of daughters?
a. Long-Haven Sambo-ET
b. Del Santo Corsaro
c. Markwell Twomar-ET
d. Rothrock Lennon-ET

Dairy Cattle Career Development Event

39. Daughters of which sire would be expected to generate the most income?
   a. Hol-Steins Be Dennis
   b. Dixie-Lee Leadman Sid-ET
   c. Markwell Twomar-ET
   d. 250 Fatal

40 Which bull would be the least likely to reduce calving difficulties in heifers?
   a. Long Haven Sambo-ET
   b. Startmore Rudolph-ET
   c. 528 Bernard
   d. Markwell Twomar-ET

Pedigree Questions – 5 pts. Each

If a herd owners primary selection objective was to increase pounds of protein produced then the first choice of service sire would be:

41. Who is the maternal grandsire of Ames Berretta Sparkle?
   a. Mason Boomer Sooner Berretta
   b. Soldierboy Boomer Sooner of CJF
   c. Molly Brook Brass Major
   d. Ames Silver Saint Sparkle

42. What is Ames Dunker Della's maternal granddam's greatest one-time production record for pounds of milk produced?
   a. 17,850
   b. 16,750
   c. 10,660
   d 1610 M

43 Which heifer has the dam with the highest one-time production record for pounds of milk produced?
   a 1 b. 2 c. 3 d 4

44. What breed of cattle are these four heifers?
   a. Guernsey
   b. Jersey
   c Holstein
   d. Brown Swiss

45. Which of the four sires represented on the pedigrees would probably generate the greatest herd improvement if you were selling milk on component pricing to a cheese processing plant.
   a. sire of heifer #1
   b. sire of heifer #2
   c. sire of heifer #3
   d. sire of heifer #4

HERD SUMMARY DHI-202

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

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UNIVERSITY DAIRY FARM

123 KILDEE HALL

AMES IA 50011

REPRODUCTIVE SUMMARY OF CURRENT BREEDING HERD

BR OF HERD	TOTAL COWS IN BREEDING HERD
X	51

VOLUNTARY WAITING PERIOD (VWP)
50

COWS WITH NO SERVICE DATES OR DIAG. OPEN			
	OPEN VWP TO 100 DAYS	OPEN OVER 100 DAYS	NUMBER DIAG. OPEN
NUMBER COWS	15	4	15
% OF BREEDING HERD	29	8	29

COWS BRED BUT NOT DIAG. PREG. DAYS OPEN AT LAST SERVICE			
	VWP TO 100 DAYS	OPEN 101 TO 120 DAYS	OPEN OVER 120 DAYS
1	11	4	10
2	22	8	31

DAYS TO 1ST SERVICE
79

PRODUCTION, INCOME, & FEED COST SUMMARY

DESCRIPTION	DAILY AVERAGE PER COW ON TEST DAY		ROLLING YEARLY HERD AVERAGES	
TOTAL COWS	195		182.5	
COWS IN MILK	NUMBER 160	% 82	NUMBER 160.6	% 88
MILK LBS. (ALL COWS)	44.2		18,286	
FAT LBS. (ALL COWS)	1.54		740	
FAT PERCENT	3.5		4.0	
PROTEIN LBS. (ALL COWS)	1.39		598	
PROTEIN PERCENT	3.2		3.3	
MILK LBS. (MILKING COWS)	54.4			

	MILKING COWS	ALL COWS	LBS CONSUMED	%ENE
SILAGE				
OTHER SUCCULENTS OR BLENDED RATIONS				
DRY FORAGE				
OTHER FEEDS				
PASTURE	PASTURE (YES OR NO)		DAYS	%ENE
CONCENTRATES				
VALUE OF PRODUCT $	6.77	5.24	2,937	
COST OF CONCENTRATES $				
TOTAL FEED COST $				
INCOME OVER FEED COST $				
FEED COST PER CWT. MILK $				

MILK BLEND PRICE	PER CWT	%FAT	%PROT	PER CWT	%FAT	%PROT
	12.85	3.7	3.2	15.91	3.9	3.3

REPRODUCTIVE SUMMARY OF TOTAL HERD

	DAYS OPEN AT 1ST SERVICE: NUMBER FEWER THAN VWP	NUMBER FROM VWP TO 100 DAYS	NUMBER OVER 100 DAYS	AVG. DAYS TO 1ST SERVICE	SERVICES PER PREGNANCY: PREG. COWS	ALL COWS	PROJECTED MINIMUM: CALVING INTERVAL	DAYS OPEN
1ST LACT	5	33	13	82	2.0	2.4	13.2	122
2ND LACT	3	31	6	77	2.3	3.0	13.2	121
3+ LACTS		34	5	83	2.2	2.8	13.6	134
ALL LACTS	8	98	24	81	2.2	2.7	13.3	125
% OF ALL 1ST SERVICES	6	75	19		CURRENT ACTUAL CALVING INTERVAL		13.0	

SERVICE OR HEAT INTERVALS	
INTERVAL LENGTH	NUMBER INTERVALS
LESS THAN 18	26
18-24	67
30-48	55
OTHER	103

SERVICES FOR PAST 12 MONTHS			
SERVICE NUMBER	NUMBER SERVICE	% SUCCESSFUL	SERVICE SIRE PTA $
1ST	174	39	+243
2ND	107	37	+244
3RD+	167	29	+329
TOTAL	459	34	+302

ABORTIONS	THIS MONTH	PAST YEAR
ACTUAL		
APPARENT		13

BIRTH SUMMARY

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

YEARLY REPRODUCTIVE SUMMARY

DATE OF TEST	% HEATS OBS.	NUMBER SERVICES	% SUCCESSFUL	NUMBER CONFIRM PREG.	NUMBER CALVING	TOTAL PREGNANT COWS
MONTH DROPPED						
8-27-98	49	34	18	9	30	70
10-05-98	72	79	22	3	25	55
11-05-98	69	55	44	18	11	63
12-10-98	56	51	33	27	16	80
1-05-99	51	33	52	14	8	90
2-03-99	57	37	38	21	8	102
3-12-99	47	36	33	20	19	107
4-07-99	47	22	41	9	19	103
5-06-99	63	31	45	12	6	112
6-09-99	57	35	43	17	15	120
7-07-99	57	27		8	14	116
8-04-99	30	11		10	34	103
AVERAGES	55	38	34	14	17	93
TOTALS		451			205	

COWS TO BE MILKING, DRY, CALVING, BY MONTH

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

ASSUMES 3.0% PER MONTH CULLING RATE.

MISCELLANEOUS HERD INFORMATION

SHIPPED-TEST DAY COMPARISON	TEST DAY	YEARLY AVERAGE
SUM OF TEST DAY WTS (LBS)	8526	9082
REPORTED AV. DAILY BULK TANK WTS (LBS)	7680	8669
% DEVIATION	+11.0	+4.8

ASSOC.	SAMPLES RECV. AT LAB		ORPC MAILED	
SUPV.	MO.	DAY	MO.	DAY
400				
97	8	5	8	5

	MILKING TIMES	WDN	BFL
1ST OR PRIOR AP	4:00 PM	Y	N
2ND	4:40 AM	Y	Y
3RD			

REMARKS:

IA-99

HERDCODE	DATE TESTED	BREED	STRING
42-85-0273	8-04-99	X	ALL

STAGE OF LACTATION PROFILE

		STAGE OF LACTATION (DAYS) 1 THRU 40	41 THRU 100	101 THRU 199	200 THRU 305	306 +	TOTAL OR AVERAGE
NUMBER MILKING	1ST LACT	13	7	18	13	10	61
	2ND LACT	13	9	14	8	8	52
	3+ LACTS	12	5	10	11	9	47
	ALL LACTS	38	21	42	32	27	160
AVERAGE DAILY MILK PRODUCTION	1ST LACT	50	65	60	51	32	52
	2ND LACT	64	73	64	46	31	58
	3+ LACTS	63	65	67	45	36	55
	ALL LACTS	59	68	63	48	33	55
% FAT & PROT.	1ST LACT FAT %	4.0	3.5	3.2	3.4	4.0	3.6
	1ST LACT PROT %	3.0	2.8	3.1	3.2	3.6	3.1
	2ND LACT FAT %	3.7	3.5	3.7	3.8	4.0	3.7
	2ND LACT PROT %	3.2	3.0	3.2	3.5	3.8	3.3
	3+ LACTS FAT %	3.8	3.9	2.9	3.6	3.4	3.5
	3+ LACTS PROT %	3.2	3.0	3.1	3.4	3.5	3.3
	ALL LACTS FAT %	3.8	3.7	3.3	3.6	3.8	3.6
	ALL LACTS PROT %	3.1	3.0	3.1	3.3	3.6	3.2
SCC ACT	1ST LACT	548	150	586	601	460	506
	2ND LACT	696	548	255	651	513	511
	3+ LACTS	411	131	822	879	637	601
	ALL LACTS	564	328	533	703	539	538
SCC SCORE > 3.9	NUMBER	16	7	12	17	18	70
	PERCENT	42	33	29	53	67	44

WEIGHTED SCC (NEAREST 1,000)

IDENTIFICATION AND GENETIC SUMMARY

AGE GROUP	NUMBER ANIMALS	AVG. AGE YR-MO	NUM. IDENTIFIED BY SIRE	NUM. IDENTIFIED BY DAM	NUMBER NO. CHANGES	NO. ANIMALS WITH PTA$ / PA$	AVERAGE PTA$ / PA$ ANIMAL	AVERAGE PTA$ / PA$ SIRE
0-12	107	0-06	102	107		106	+116	+162
13+	93	1-07	92	93		93	+121	+158
REPLACEMENTS	200	1-00	194	200		199	+118	+156
1ST LACT	71	2-00	71	71		33	+106	+147
2ND LACT	66	3-01	66	66	4	65	+98	+130
3+ LACTS	58	5-03	58	58		58	+86	+100
ALL LACTS	195	3-04	195	195	4	156	+95	+127
%IDENTIFIED (PRODUCING FEMALES)			100	100		NUMBER HEIFERS IN 13+ AGE GROUP OVER 30 MONTHS OF AGE		

HERD PTA $ OPTION	GENETIC PROFILE OF SERVICE SIRES: PROVEN A.I. SIRES	A.I. YOUNG SIRES	ALL OTHER SIRES
NM			
% OF HERD BRED TO	85	12	3
NUMBER OF BULLS USED	35	9	2
AVERAGE PTA$ OR PA$	+186	+182	
AV. PERCENTILE RANK (NET MERIT)	79		

CURRENT SOMATIC CELL COUNT SUMMARY

HERD PRODUCTION LOST FROM SCC THIS TEST PERIOD	MILK = 12,768
	$ = 1,640

PRODUCTION BY LACTATION SUMMARY

	NUMBER OF COWS	AVERAGE AGE MONTHS	SUMMIT MILK	PROJ ME 305 DAY MILK	PROJ ME 305 DAY FAT	PROJ ME 305 DAY PROTEIN	DIFFERENCE FROM HERDMATES MILK	DIFFERENCE FROM HERDMATES FAT	DIFFERENCE FROM HERDMATES PROTEIN	BODY WEIGHT	% COWS SCC SCORE 0,1,2,3 BELOW 142,000	4 142,000-283,000	5 284,000-565,000	6 565,000-1,130,000	7,8, OVER 1,130,0
1ST LACT	71	24	65	21020	789	641	+187	-37	-7	1210	43	25	21	3	
2ND LACT	66	37	80	21323	848	687	+1558	+45	+60	1230	51	13	13	8	1
3+ LACTS	58	63	87	20804	826	656	+52	+7	+10	1380	32	15	13	20	2
ALL LACTATIONS	195	40	76	21059	820	661	+578	+2	+19	1270	43	18	16	9	1

DRY COW PROFILE

	NUMBER DRY PERIODS	DAYS DRY	NUMBER DRY LESS THAN 40 DAYS	NUMBER DRY 40-70 DAYS	NUMBER DRY OVER 70 DAYS
1ST LACT					
2ND LACT	66	57	4	58	4
3+ LACTS	58	63	1	50	7
ALL LACTATIONS	124	60	5	108	11

YEARLY SUMMARY OF COWS ENTERED AND LEFT THE HERD

	COWS ENTERED HERD NUM.	COWS ENTERED HERD %	COWS LEFT HERD NUM.	COWS LEFT HERD %	NUMBER OF COWS LEFT THE HERD: DAIRY	LOW PROD.	REPO.	MAST.	UDDER	FEET & LEGS	INJURY OR OTHER	DISEASE	DIED	NOT RPTD
1ST LACT	77	42	20	11		4	3	2	2		2	2	5	
2ND LACT			19	10	1	6	7			2			1	
3+ LACTS			27	15		2	3	3	4		1	3	10	
ALL LACTATIONS	77	42	66	36	1	12	13	5	6	2	3	5	16	

YEARLY PRODUCTION AND MASTITIS SUMMARY

DATE OF TEST	DAYS IN TEST PERIOD	NUMBER COWS IN HERD ON TEST DAY	TEST DAY AVERAGES (MILKING COWS) DAYS IN MILK	MILK	STANDARDIZED 150 DAY MILK	TEST PERIOD PERSIST. INDEX	TEST DAY AVERAGES (ALL COWS) % IN MILK	MILK	% FAT	% PROT.	ROLLING YEARLY HERD AVERAGE MILK	FAT	PROT.	SOMATIC CELL COUNT SUMMARY % COWS SCC SCORE 0,1,2,3 BELOW 142,000	4 142,000-283,000	5 284,000-565,000	6 565,000-1.13 M	7,8,9 OVER 1.13 M	AVG. SCC SCORE	WT. AVG ACTUAL SCC	NUMBER LEFT HERD DIED	SOLD
MONTH DROPPED																						
8-27-98	34	192	141	55.9	58.7	98	85	47.7	4.0	3.1	21766	900	704	55	18	10	7	10	3.4	374	2	
10-05-98	39	184	149	60.6	63.8	108	92	55.4	4.2	3.3	21060	872	682	54	14	13	10	9	3.5	321	2	1
11-05-98	31	179	159	60.3	63.4	99	92	55.2	4.1	3.3	20805	862	676	53	18	13	8	8	3.5	349		
12-10-98	35	178	163	62.1	65.4	102	92	56.8	4.0	3.3	20716	858	674	61	12	12	5	10	3.2	364	1	
1-05-99	26	179	172	59.8	63.6	95	89	53.1	4.4	3.3	20560	852	670	53	18	11	11	7	3.4	296	1	
2-03-99	29	176	186	55.5	60.0	93	88	48.5	4.1	3.3	20227	838	660	55	14	16	7	8	3.4	310	2	
3-12-99	37	175	195	57.0	61.9	100	93	52.8	4.3	3.3	19715	815	644	58	17	11	8	6	3.2	305	3	
4-07-99	26	182	194	56.5	61.8	99	93	52.3	4.0	3.1	19365	801	632	59	16	9	9	7	3.1	319	2	
5-06-99	29	180	202	54.7	60.4	95	89	48.7	4.0	3.3	19002	786	620	53	13	12	14	8	3.5	409		
6-09-99	34	183	197	55.4	62.4	96	79	43.5	3.7	3.2	18580	764	606	64	10	13	5	8	2.9	353	1	
7-07-99	28	185	194	56.1	65.9	99	78	43.7	3.7	3.2	18432	752	602	44	19	10	12	15	4.1	459		
8-04-99	28	196	165	54.4	62.2	94	82	44.2	3.6	3.2	18286	740	598	43	18	16	9	14	3.9	536	2	
AVERAGES	31	182	176	57.4	62.5	98	88	50.2	4.0	3.2				54	16	12	9	9	3.4	366	16	5

TEST PERIOD AV. MILK LBS. ADDED 43.3

TEST PERIOD AV. MILK LBS. DROPPED

IA-

MONTHLY REPORT DHI-220

NIVERSITY DAIRY FARM — PAGE 1

Herdcode	Breed	Assoc.	Supervisor	Record Plan	Sample Date
2-85-0273	X	400	97	22 DHIRAPCS	8-04-99

Test Interval			Received at Lab
Cow Months	Length	From	
175.0	28	7-08	8-05

Condition Affecting Record

1 - Sold Feet and Legs; 2 - Sold Dairy; 3 - Sold Low Production; 4 - Sold Reproductive Prob.; 5 - Sold Injury or Other; 6 - Died; 7 - Sold Mastitis; 8 - Sold Disease; 9 - Sold Udder; X - Sold Reason Not Reported; S - Rec. Started or Ended By Abortion; C - 305 Day Rec. Has Been Computed; A - Abnormal; E - Estimated; F - % B Fat Estimated By Supervisor; H - In Heat On Test Day; I - Injected Prior or During Milking; L - % B Fat Estimated By Lab

Due Date Codes: * Conf. Preg. ~ Not Conf. Preg

Action Codes: B = To Breed; D = To Dry; F = Lead Feed; P = Preg. Check

Breed	Cow Identification / Sire Identification	SCC Actual & Milk Wts. by Test Day: Test Date 2-03 (Milk / SCCA)	Test Date 3-12 (Milk / SCCA)	Test Date 4-07 (Milk / SCCA)	Test Date 5-06 (Milk / SCCA)	Test Date 6-09 (Milk / SCCA)	Test Date 7-07 (Milk / SCCA)	Sample Day Data: Milk Pounds / SCCA	Fat %	Prot %	Income/ Feed Cost / Summit Milk	Born / Name / Index Number	Lact. No. / Days Dry	Fresh Date / Age	Days in Milk / Days 3X	Milk Pounds / ERPA $ Deviation	Fat Lbs. / Fat %	Prot. Lbs. / Prot. %	CAR / Rel.	Income/ Feed Cost / Persist. %	305-2X-ME Difference From Herdmates: Milk	Fat	Prot.	Times Bred / Service Sire Identification	Date Bred	Due Date / Action Needed
H	14555872	28	50	45	34	23	14	DRY					5	3-20							27566	1154	882	7 12-16		9*22
9	1H492	174	174	174	1213	152	303					1027	10	6-08		+145			A		+3402	+164	+135	7H4930		F 9 08
H	14789616	83	101	90	88	68	63	49.6	36				6	11-14	264	21980	753	673			23195	788	719	1 2-02		11*09
	9H1057	1715	5972	2599	2986	429	325	746	30		97	1045	68	7-01		+126	3.4	3.1	C	99	-1227	-92	-19	11H3243		D 9 10
H	14789621	76	80	73	66	51	45	18.6	31				5	6-16	415	29444	1046	806			24341	881	660	1 1-02		10*09
	1H492	303	460	325	460	13	650	985	36		82	1048	57	6-07		+227	3.6	2.7	C	100	+1779	+14	-20	11H3562		D 8 10
H	14696589	57	55	48	40	27	10	DRY					5	10-03							13914	597	465	1 12-19		9*25
9	9H1057	303	608	174	650	264	566					1068	10	6-09		-21			E		-10571	-300	-269	7H4985		F 9 11
H	14872865	DRY	DRY	T-F	100	109	111	99.7	34				5	4-05	122	12409	416	353			23841	855	719	2 6-25		3-31
	11H1847				76	87	38	33	28		109	1118	69	8-08		-102	3.4	2.8	C	101	+1349	+46	+51	1H4480		P 8 09
H	14872899	97	87	78	49	45	33	DRY					5	8-19							28292	1045	857	2 12-14		9*20
9	9H924	400	54	1715	746	2425	1600					1126	17	5-11		+204			A		+4493	+149	+131	11H3562		F 9 06
A	987502	64	46	63	62	49	35	32.5	38				5	11-13	265	15349	655	466			16223	672	485	1 1-19		10*28
	73A241	23	20	27	27	14	187	132	32		79	1128	88	6-02		+101	4.3	3.0	C	101	-735	-22	-43	76A710		D 8 29
H	15012443	75	68	58	45	35	DRY	DRY					5	7-28							24646	1027	775	2 11-23		8*30
9	9H1057	174	152	264	373	400						1153	31	5-07		+272			A		+1141	+144	+64	7H4637		F 8 16
3	827464	24	19	13	5	DRY		83.3	42				5	7-06	30	2174	100	69			BWT:	1400				
	9866	857	44	566	857			47	28			1166	60	6-05		-84	4.6	3.2								B 8 25
1	3813405	42	33	31	25	DRY	DRY	65.7	47				5	7-22	14	736	37	30			BWT:	1100				
	29J2875	81	132	115	303			123	38			1194	69	6-03		+230	5.0	4.1								B 9 10
1	15132936	48	44	40	39	27	30	DRY					4	7-02							16851	582	536	4 12-20		9*26
0	1H414	54	76	33	152	87	132					1204	10	5-01		-116			E		-7067	-313	-181	7H5891		F 9 12
5	3011227	35	38	30	DRY	DRY	66	56.3	40				5	6-16	50	2967	109	95			14919	664	493			
	7G204	1131	230	429			606	174	30		61	1213	58	7-02		-116	3.7	3.2	C		-801	-59	-25			B 8 05
1	15152867	118	110	108	105	72	80	60.4	37				4	9-19	320	33990	1286	1044			34654	1289	1045	5 6-27		4-02
	1H414	107	400	919	2425	1493	919	985	36		129	1221	54	5-02		+555	3.8	3.1	A	100	+10455	+382	+311	7H5953		P 8 11
1	3832127	52	48	49	35	32	30	DRY					4	9-26							16162	764	598	1 12-09		9*14
1	29J2865	2111	606	373	2786	373	2425					1222	17	5-02		+266			C		+1750	+66	+75	7J254		F 8 31
1	15152874	67	67	70	63	52	52	44.1	36				4	7-10	391	28247	1191	956			25639	1092	852			
	14H1160	71	93	62	4851	246	187	1213	38		95	1225	60	4-11		+52	4.2	3.4	A	100	+2161	+211	+144			
1	3832128	62	58	54	52	45	29	21.7	45				4	11-24	254	13071	663	501			13904	686	522	1 2-04		11*10
	11J521	22	25	13	200	31	57	76	38		65	1227	49	5-04		-150	5.1	3.8	D	98	-1199	-47	-27	7J284		D 9 11
1	15152877	82	70	76	80	57	41	DRY					4	9-16							25739	1050	765	1 12-25		10*01
1	11H1882	746	100	2111	284	100	606					1232	3	5-01		+383			A		+1257	+135	+22	1H4480		F 9 17
1	15152878	60	81	80	73	67	56	51.1	34				4	8-18	352	27948	1173	954			27604	1157	928	9 6-07		3*13
	14H1160	246	857	1838	606	325	429	528	35		98	1234	60	5-00		+541	4.2	3.4	A	100	+3786	+284	+204	7H6094		

Billing for period following 8-04-99 | DRPC Fees 63.61 | State Fees 28.35 | Lab Fees 56.00 | Local Fees 5.85 | Total Amount 153.81

SOMATIC CELL COUNT PROFILE DHI-520

IA-99

11/96

HERDCODE: 42850273 UNIVERSITY DAIRY FARM

SCC OPTION: SCORE/ACTUAL — ACTUAL (NEAREST 1000)

DATE OF TEST: 08 04 99

HERD AVG. SCC COUNT: 536

SCC SCORE TO ACTUAL CONVERSION CHART

SCC Score	Cell Cnt (1000)	SCC Score	Cell Cnt (1000)	SCC Score	Cell Cnt (1000)
0	0-18	4	141-283	8	2,363-4,823
1	19-36	5	284-566	9	4,824-9,999
2	36-71	6	566-1,130		
3	72-141	7	1,131-2,262		

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.
	PREVIOUS	CURRENT	TEST DATE 03-12	TEST DATE 04-07	TEST DATE 05-06	TEST DATE 06-09	TEST DATE 07-07	THIS TEST									
1607	80	74			54	50	857	7352	CHR	11	474	4.9	4	2	117		1
1334	57	41	230	2111	4223	6860	650	6860	CHR	5	443	7.3	6	6	183	1-19-00	3
9988								6400	NEW	5	443	9.0	1	1	0		7
1332	33	32	1300	1213	1393	1715	1300	6400	CHR	4	419	7.1	6	6	302	12-09-99	3
1553		56						3940	NEW	4	394	8.3	1	1	18		2
1473	62	61	1715	606	746	919	1213	3200	CHR	4	373	6.2	6	6	239	4-24-00	2
1597	68	72	1056	303	650	283	2986	2786	CHR	4	351	5.8	6	6	254	3-03-00	1
1661		58						2599	NEW	3	334	7.7	1	1	23		1
1493	110	79					2111	2425	CHR	3	313	7.5	2	2	58		2
1462	83	67		264	606	400	985	2263	CHR	3	296	5.8	5	5	128		2
1570								5199	NEW	2	296	8.7	1	1	0		2
1356	104	55	14	22	606	857	400	1970	CHR	2	284	4.2	6	4	174	1-18-00	3
1513	80	87					3430	1213	CHR	2	273	7.4	2	2	41		2
1501		99					2111	1056	CHR	2	263	6.9	2	2	34		2
1504	18	16	492	2599	4851	4223	5572	4526	CHR	1	254	6.1	6	6	486	8-30-99	1
1324	25	22	1970	857	857	429	3676	2425	CHR	1	247	7.1	6	6	299	11-23-99	3
1328		61						1493	NEW	1	237	6.9	1	1	9		4
1427		47						1393	NEW	1	230	6.8	1	1	19		3
1572	51	39	27	29	47	33	230	1300	CHR	1	224	2.7	6	2	286	12-10-99	
1225	52	44	93	62	4851	246	187	1213	CHR	1	218	4.0	6	3	391		
1400	48	45	800	566	696	1300	1131	1213	CHR	1	212	6.9	6	6	393		2
1388	78	55	132	50	100	29	264	1131	CHR	1	204	3.4	6	2	167	2-01-00	3
1569		61						1131	NEW	1	196	6.5	1	1	18		2
9911	58	49	400	283	857	985	696	1056	CHR	1	190	5.2	6	6	278	11-09-99	7
1221	80	60	400	919	2425	1493	919	985	CHR	1	184	5.4	6	6	320	4-02-00	4
1342	61	67	246	187	283	373	857	919	CHR	1	176	4.4	6	5	245		3
1048	45	19	460	325	460	13	650	985	CHR	0	174	4.5	6	5	415	10-09-99	5
1283								985	NEW	0	174	6.3	1	1	0		4
1292	29	36	57	13	174	696	857	985	CHR	0	170	4.0	6	3	183	2-17-00	4
1434	28	22	1715	606	696	606	857	800	CHR	0	168	6.4	6	6	379	12-19-99	2
9921	37	29	746	264	528	264	2425	800	CHR	0	165	5.7	6	6	335	12-31-99	7
1045	63	50	5972	2599	2986	429	325	746	CHR	0	161	6.9	6	6	264	11-09-99	6
1675								746	NEW	0	161	5.9	1	1	0		1
1289		36						696	NEW	0	158	5.8	1	1	16		4
1555		66						650	NEW	0	153	5.7	1	1	13		2
1449	52	33	246	746	566	303	400	606	CHR	0	151	4.8	6	6	343	10-23-99	2
1563	45	40	174	325	115	123	566	566	CHR	0	148	4.0	6	3	373	10-28-99	1
1234	56	51	857	1838	606	325	429	528	CHR	0	145	5.7	6	6	352	3-13-00	4
1505	36	29	132	38	71	44	41	528	NEW	0	143	1.8	6	1	440	11-28-99	1
1535	17	23	71	187	246	152	1838	528	CHR	0	142	3.5	6	3	378	10-12-99	4
1575	51	52	174	1300	303	2111	2425	528	CHR	0	139	5.7	6	5	253	12-01-99	
1632	70	67				174	214	528	CHR	0	135	4.4	3	2	91		1
1657								528	NEW	0	135	5.4	1	1	0		1
1404		61						492	NEW	0	131	5.3	1	1	18		3
1549								492	NEW	0	131	5.3	1	1	0		2

NAAB CODE	SIRE NAME		%RHA	NM $$	RK		MILK	FAT LBS	FAT %	PRO LBS	PRO %	YD R	MF $$	MFP $$	SCS	R	PL	R	SAMPLING INFO. NO. HRDS	NO. DAUS		PTAT	R	TPI™	NAAB C.E. % DB	R
97HO52	HOL-STIENS BE DENNIS	*TL	96 -I	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	3.25	41	0.7	39	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	3.25	18	1.4	18	158	185	M	0.85	62	1388		
2139	250 W-M-DRW NB ELMSPRING-ET		100 -NA	193	90	M	2553	59	-0.15	82	0.01	83	290	290	3.18	36	-0.9	36	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	3.34	41	1.2	39	129	140	M	1.54	62	1442		
199HO2	S FERMO AEOSTAR RAVEN		100 -NA	190	88	M	1087	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	3.06	53	1.5	48	280	374	M	1.21	75	1314	10	92
220HO9601	HELDOSTAR		99 -I	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	3.08	36	1.2	34	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	3.16	34	0.6	34	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	3.26	42	1.3	39	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	3.25	31	-0.9	31	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	3.14	37	1.6	35	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	3.10	38	1.5	38	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	3.17	42	0.3	39	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	3.18	36	0.2	36	102	110	M	0.78	66	1316		
2139	250 RUSSELDALE GAINSAY-ET		100 -NA	167	70	M	1273	82	0.16	60	0.09	79	187	225	3.19	42	0.8	41	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	3.09	34	1.4	33	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	3.26	38	1.0	37	135	157	M	2.42	69	1440	7	97
97HO22	528 BERNARD	*TL	99 -I	163	67	M	2138	48	-0.13	60	-0.03	84	242	225	3.46	26	1.2	19	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	3.36	40	-1.5	38	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	3.25	45	-0.9	43	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	3.09	39	0.6	38	137	150	M	1.63	68	1358	10	94
220HO9600	250 FATAL	*BL	96 -I	160	63	M	1260	51	0.02	72	0.15	82	161	224	3.22	16	0.3	16	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	3.22	36	1.4	36	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	3.20	35	0.2	34	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	3.10	44	1.2	42	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	3.34	41	-0.2	41	70	71	M	0.42	56	1267		

INTERBULL/USDA GENETIC EVALUATIONS
PREDICTED TRANSMITTING ABILITIES

BREED ASSOC TYPE DATA

OFFICIAL AJCA PERFORMANCE PEDIGREE

DATE ISSUED 05-24-99 (T 383985) (1)

FEMALE
AMES BERRETTA SPARKLE
003905412
BORN 02-10-99
TATOO A1386 A1386

PA +1067M +41F +47P +150PS +180CYS
+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

OWNER
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

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 +198PS +243CYS
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 +219PS +253CYS
USDA PTA 1/95 1REC 44%R 94%ILE
+ 653M + 46F + 27P +102PS +118CYS
AJCA 1/95 PTAT 46%R +2.5 PTI 44%R +204

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 +163PS +153CYS
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 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 977P
PPA +4489M +197F +197P +649PS +779CYS
USDA PTA 1/95 5RECS 71%R 99%ILE
+1031M + 42F + 55P +162PS +210CYS
AJCA 1/95 PTAT 51%R +0.8 PTI 68%R +29

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 +146PS +163CYS
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 #07885
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 586P
PPA +1632M +166F + 67P +284PS +322CYS
USDA PTA 1/95 3RECS 53%R 79%ILE
+ 300M + 34F + 14P +57PS +67CYS
AJCA 1/95 PTAT 50%R +0.5 PTI 53%R +

OFFICIAL AJCA PERFORMANCE PEDIGREE

DATE ISSUED 05-24-99 (T 383985) (2)

FEMALE
AMES MALCOLM SPARK
003905413
BORN 03-01-99
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 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 TATOO

HIGHLAND MAGIC DUNCAN
000635862 7J177
USDA 1/95 10291 DAUS 1473 HRDS 2% RI
99%R + 773M +.08% + 48F 54%ILE
99%R +.00% + 28P +111P$ +122CY$
AJCA 1/95 787o DAUS 100%US
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 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 +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 +

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% RI
93%R + 953M -.06% + 35F 50%ILE
93%R -.11% + 18P +99P$ +80CY$
AJCA 1/95 122 DAUS 100%US
PTAT 84%R -0.7 PTI 89%R +152

AMES ROYAL SPARK 52
003622692 A9814 A9814
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 -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 -

OFFICIAL AJCA PERFORMANCE PEDIGREE

DATE ISSUED 05-24-99 (T 583965) (3)

FEMALE
AMES DUNKER DELLA
003905414
BORN 03-05-99
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 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 TATOO

GREENRIDGE ALTHEAS DUNKER
000650637 9J93
USDA 1/95 74 DAUS 44 HRDS 7% RIP
84%R + 999M -.06% + 57F 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

HIGHLAND MAGIC DUNCAN
000635862 7J177
USDA 1/95 10291 DAUS 1475 HRDS 2% RI
99%R + 773M +.08% + 48F 54%ILE
99%R +.00% + 28P +111P$ +122CY$
AJCA 1/95 7876 DAUS 100%US
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 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$ +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 +3

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

AMES ROYAL DELLA 77
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$ -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 +

OFFICIAL AJCA PERFORMANCE PEDIGREE

DATE ISSUED 05-24-99 (T 383985) (4)

FEMALE
AMES DUNKER PRIDE
003905416
BORN 03-31-99
TATOO A1403 A1403

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

ST	SR	BD	DF	RA	TW	RL	FA
+1.9	+0.7	+0.7	0.0	L0.3	+0.2	P0.9	S1.0

FU	RH	RW	UC	UD	TP	TL
+0.5	+0.3	+0.1	-0.3	S0.3	W0.2	L0.3

OWNER 215650
DAIRY SCIENCE DEPT
123 KILDEE HALL
AMES IA 50011-0001
BREEDER 215651
DAIRY SCIENCE DEPT
123 KILDEE HALL
AMES IA 50011-0001

REG NUMBER BIRTHDATE TATOO

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 ANDY PRIDE
003771452 A1105 A1105
DHI HERD #42-85-0274 CONTROL #07905
1-09 288 3 14780 4.1 610 3.4 506 DHIR
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 45%R +0.0 PTI 44%R +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%US
PTAT 99%R +2.2 PTI 99%R +222

GREENRIDGE FW CHIEF ALTHEA-ET 92
003507678 GR1863
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$ +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

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 +99P$ +80CY$
AJCA 1/95 122 DAUS 100%US
PTAT 84%R -0.7 PTI 89%R +152

AMES RELIANT PRIDE 60
003622690 A9811 A9811
DHI HERD #42-85-0274 CONTROL #0787
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 588
PPA +2431M + 41F + 77P +270P$ +282CY$
USDA PTA 1/95 3RECS 57%R 88%ILE
+ 644M + 15F + 24P +79P$ +89CY$
AJCA 1/95 PTAT 50%R -0.4 PTI 56%R +1