Dairy Cattle Career Development Event-2003

Mark the <u>best</u> answer in the proper blank on the Scantron sheet.

<u>25 Objective Questions—2pts. Each</u>

1. Milk sugar is called _____.
   a. dextrose b. fructose c. sucrose d. lactose

2. All of the following are parts of the ruminant stomach except:
   a. rumen b. reticulum c. abomasum d. cecum

3. The first milk secreted after calving is called _____.
   a. clostridia b. coliform c. collagen d. colostrum

4. 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

5. Calf starter should be offered to calves by the end of the first week of life in order to:
   a fill up the calves belly so that they will not bellow as much
   b. provide long fiber for them to chew
   c stimulate development of their rumen
   d. provide a source of high quality casein

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

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

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

9. The primary criteria for deciding when a heifer should be bred is:
   a. age b. body weight c breed d. service sire to be used

10. Which of the following represents the largest single cost associated with producing milk?
    a. facilities b. feed c. labor d. veterinarians & drugs

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

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

13. Washing the udder prior to milking stimulates the release of _____which induces milk letdown.
    a. adrenaline b. testosterone c. oxytocin d estrogren

14 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

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

16. Which of the following hormones is not directly associated with reproduction?
   a. estrogren b. testosterone c. progesterone d. adrenaline

17. The only part of a milking machine that touches the cow is the:
   a. vacuum pump b. pulsator c. milk line d. inflation

18. 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 minutes d. 5 minutes

19. 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

20. Which of the following feeds usually contain the most protein?
   a. alfalfa hay b. corn silage c. corn grain d. soybean oil meal

21. What is the name of the process where warm milk is forced through tiny holes in order to break the fat particles into tiny pieces?
   a homogenization b pasteurization c. fertilization d conception

22. In artificial insemination, the optimum site for semen deposition is in the _____
   a vagina b. uterine body c. ovary d placenta

23. 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

24. Soybean oil meal is about what percent protein?
   a 10 b. 27 c. 44 d. 60

25. What are the symptoms of Johne's disease?
   a diarrhea b. lameness c displaced abomasum d. warts

<u>DHIA Questions—5 pts. Each</u>

Refer to the **DHIA Herd Summary** to answer the following questions.

26. The actual SCC is highest for what stage of lactation?
   a. 1-40 days b. 41-100 days c. 101-199 days d. 200-305 days e. over 306 days

27 What is the average herd merit in dollars by using proven A I sires?
   a. $312 b. $364 c. $395 d $405

28. What is the average days to first service for second lactation cows?
   a. 121 b. 189 c. 129 d. 143

29. What is the average pounds of milk production for all milking cows?
a. 54.1 b. 41.8 c. 22.3 d. 65.8

30. What is the average age in months for all lactating cows?
a. 61 b. 43 c. 25 d. 41

Dairy Management Problems—5 pts. Each

31. You can purchase protein from four different sources. Which one is the better value?
   a. 44% SBM @ $190
   b. 30% cottonseed @ $165
   c 35% linseed meal @ $172
   d. 48% SBM @ $210

32. What is the cost per ton of the following ration? 15% protein ration using 7.8% protein corn costing $2.10 per bushel and 48% protein SBM costing $205 per ton.
a. $103.42 b $78.95 c. $98.29 d $95.27

33. You can buy hay from 4 sources Which is the best buy assuming the quality is the same and that you could handle the hay in any given size?
   a. 1000# bale @ $52 per bale
   b. 50# bale @ $2.30 per bale
   c. 1 ton round bale @ $91 per round bale
   d 300# large squares @ $12 per square

34 How much additional income would be generated for a producer selling 250,000 pounds of milk if they decreased their average SCC from 360,000 to 140,000 ? Assume an adjustment of $0.015 per cwt. for every 10,000 SCC below 400,000.
a. $300 b. $350 c $400 d. $450

35. A 1,000# Jersey cow is fed a 32% moisture total mixed ration. Assuming she can consume 3.7% of her body weight in dry matter, how much of this ration can she consume?
a. 32# b 62# c. 54# d. 37#

Sire Evaluation Questions—5 pts Each

Refer to **Appendix B** to answer the following sire evaluation questions.

36 Which sire is a carrier of CVM?
   a. Andacres Hunter Orion
   b. Mara-Thon BN Marshall
   c. Co-op Bristol Oneida
   d. Timlynn Adam

37. If your primary objective was to increase pounds of fat produced, then the first choice of sire service would be?
   a. Sikkema-Star Zenith
   b. Etazon Addison
   c. Timlynn Adam
   d. Welcome Garter

38. Which sire would increase type the fastest?
   a. Andacres Hunter Orion
   b. Mr. Millennium
   c. Regancrest Ethon Durham
   d. Hilmar Rick Lateral

39 Which sire has the highest reliability for milk and type?
   a. Jafral Duster Forrest
   b Andacres Hunter Orion
   c. Nor-som Stormy
   d. Wa-Del Convincer

40. Which sire has the highest predicted transmitting ability for milk?
   a. Windsor-Manor Machoman
   b. Welcome Garter
   c. Vision-Gen Ozzie
   d. Coop-Bristol Oneida

Pedigree Questions—5 pts Each

Refer to **Appendix A** to answer the following pedigree questions

41. On Appendix A, number 18 denotes:
   a. Information about the maternal granddam
   b. Information about the maternal grandsire
   c. Information about the paternal granddam
   d. Information about the paternal grandsire

42. On Appendix A, which number indicates information about the sire?
   a. 7 b. 8 c 12 d 17

43. On Appendix A, which number indicates information about the linear evaluation scores of O. F. Lester Ladyslipper.
   a 4 b. 6 c. 7 d. 10

44 On Appendix A, referring to number 16, what is the most milk produced by Highland Noble O Miss Letty?
   a 14790 b. 16330 c 20680 d. 13670

45 On Appendix A, what is the name of the sire of O. F. Lester Ladyslipper?
   a. Highland Magic Duncan
   b. Soldierboy Boomer Sooner
   c. O. F. Sooner Orchid
   d. Highland Duncan Lester

Make sure to evaluate the pedigree and mark your placing on the appropriate section on the scantron sheet.

HERD SUMMARY DHI-202

True Protein Values Effective May 1, 2000

HERD CODE AND TYPE OF RECORD			SCHED ULING DAY	DATE TESTED		
ST.	CO.	HERD NO.		MO.	DAY	YEAR
42	17	0044		7	20	01
DHI-AP						

PAGE 1

PRODUCTION, INCOME, & FEED COST SUMMARY

DESCRIPTION	DAILY AVERAGE PER COW ON TEST DAY		ROLLING YEARLY HERD AVERAGES	
TOTAL COWS	22		23.7	
COWS IN MILK	NUMBER	%	NUMBER	%
	17	77	19.1	81
MILK LBS. (ALL COWS)	41.8		16,700	
FAT LBS. (ALL COWS)	1.17		571	
FAT PERCENT	2.8		3.4	
PROTEIN LBS. (ALL COWS)	1.20		496	
PROTEIN PERCENT	2.9		3.0	
MILK LBS. (MILKING COWS)	54.1			
	MILKING COWS	ALL COWS		
SILAGE	LBS. CONSUMED		LBS CONSUMED	%ENE
	20	20	7,328	
OTHER SUCCULENTS OR BLENDED RATIONS	LBS. CONSUMED		LBS CONSUMED	%ENE
DRY FORAGE	LBS. CONSUMED		LBS CONSUMED	%ENE
	25	24	8,762	
OTHER FEEDS	LBS. CONSUMED		LBS CONSUMED	%ENE
PASTURE	PASTURE (YES OR NO)		DAYS	%ENE
	NO	NO		
CONCENTRATES	LBS. CONSUMED		LBS CONSUMED	%ENE
	24	19	7,552	
VALUE OF PRODUCT $	7.29	5.63	1,935	
COST OF CONCENTRATES $	1.31	1.08	367	
TOTAL FEED COST $	2.67	2.40	857	
INCOME OVER FEED COST $	4.62	3.23	1,078	
FEED COST PER CWT. MILK $	4.93	5.74	5.13	

MILK BLEND PRICE	PER CWT	%FAT	%PROT	PER CWT	%FAT	%PROT
	15.23	3.5	3.0	12.10	3.6	3.1

REPRODUCTIVE SUMMARY OF CURRENT BREEDING HERD

BR. OF HERD	TOTAL COWS IN BREEDING HERD
H	7

VOLUNTARY WAITING PERIOD (VWP)
45

	COWS WITH NO SERVICE DATES OR DIAG. OPEN		
	OPEN VWP TO 100 DAYS	OPEN OVER 100 DAYS	NUMBER DIAG. OPEN
NUMBER COWS	1	2	
% OF BREEDING HERD	14	29	

COWS BRED SINCE 5-16			
DAYS OPEN AT LAST SERVICE			
FEWER THAN VWP	VWP TO 100 DAYS	OPEN 100 TO 130 DAYS	OPEN OVER 130 DAYS
			4
			57

DAYS TO 1ST SERVICE
132

REPRODUCTIVE SUMMARY OF TOTAL HERD

	DAYS OPEN AT 1ST SERVICE			AVG. DAYS TO 1ST SERVICE	SERVICES PER PREGNANCY		PROJECTED MINIMUM	
	NUMBER FEWER THAN VWP	NUMBER FROM VWP TO 100 DAYS	NUMBER OVER 100 DAYS		PREG. COWS	ALL COWS	CALVING INTERVAL	DAYS OPEN
1ST LACT		3	3	121	1.7	2.3	14.6	164
2ND LACT			4	189	1.6	1.6	16.4	218
3+ LACTS		2	2	129	2.0	4.0	17.7	256
ALL LACTS		5	9	143	1.7	2.2	15.9	204
% OF ALL 1ST SERVICES		36	64		CURRENT CALVING INTERVAL	ACTUAL	16.4	

SERVICE OR HEAT INTERVALS	
INTERVAL LENGTH	NUMBER INTERVALS
LESS THAN 18	
18-24	2
36-48	
OTHER	7

SERVICES FOR PAST 12 MONTHS			
SERVICE NUMBER	NUMBER SERVICE	% SUCCESSFUL	SERVICE SIRE MERIT $
1ST	12	67	+373
2ND	6	50	+339
3RD+	5	80	+141
TOTAL	23	65	+305

ABORTIONS	THIS MONTH	PAST YEAR
ACTUAL		
APPARENT		

BIRTH SUMMARY

DAM'S LACT NUM.	OFFSPRING BORN									
	MALES		FEMALES		CALVING DIFFICULTY SCORE					
	ALIVE	DEAD	ALIVE	DEAD	1	2	3	4	5	% 4+5
1	5		5	1						
2+	6		5							
TOTAL	11		10	1						

YEARLY REPRODUCTIVE SUMMARY

DATE OF TEST	% HEATS OBS.	NUMBER SERVICES	% SUCCESSFUL	NUMBER CONFIRM PREG.	NUMBER CALVING	TOTAL PREGNANT COWS
MONTH DROPPED	18	2	50		1	10
8-17-00						10
9-18-00		2	100		2	12
11-08-00	8	2	100		5	8
12-29-00	21	5	60		5	7
1-31-01	25	5	80		2	6
3-06-01						9
4-10-01	20	4	25		1	11
5-17-01	16	2	100			10
6-19-01	10	1			4	9
7-20-01	48	3			2	10
AVERAGES	21	2	65		2	9
TOTALS		24			21	

COWS TO BE MILKING, DRY, CALVING, BY MONTH

MONTH	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
* MILKING	17	16	19	20	20	18	16	17
DRY	4	5	4	1	2	3	5	3
COWS TO CALVE	1	2	3	1		1	2	2
HEIFERS TO CALVE			3		1			1

* ASSUMES 4.3% PER MONTH CULLING RATE.

MISCELLANEOUS HERD INFORMATION

SHIPPED-TEST DAY COMPARISON	TEST DAY	YEARLY AVERAGE
SUM OF TEST DAY WTS (LBS)	920	1080
REPORTED AV. DAILY BULK TANK WTS (LBS)	869	1040
% DEVIATION	+5.9	+3.8

ASSOC.	SAMPLES RECV. AT LAB		DRPC MAILED	
SUPV.	MO.	DAY	MO.	DAY
400				
64	7	24	7	26

	MILKING TIMES	WGH	SPL
1ST OR PRIOR AP	5:30 AM	N	N
2ND	5:00 PM	Y	Y
3RD			

REMARKS:

HERDCODE	DATE TESTED	BREED	STRING
42-17-0044	7-20-01	H	

IDENTIFICATION AND GENETIC SUMMARY

AGE GROUP	NUMBER ANIMALS	AVG. AGE YR-MO	NUM. IDENTIFIED BY SIRE	NUM. IDENTIFIED BY DAM	NUMBER ID. CHANGES	NO. ANIMALS WITH MERIT $	AVERAGE MERIT $ ANIMAL	AVERAGE MERIT $ SIRE
0-12	11	0-05	9	11		10	+161	+268
13+	10	1-07	3	10		10	+56	+247
REPLACE-MENTS	21	1-00	12	21		20	+109	+264
1ST LACT	9	2-01	7	9		5	+84	+225
2ND LACT	7	3-07	7	7		7	+78	+107
3+ LACTS	6	5-01	6	6		6	-17	+37
ALL LACTS	22	3-05	20	22		18	+48	+116
%IDENTIFIED (PRODUCING FEMALES)			91	100		NUMBER HEIFERS IN 13+ AGE GROUP OVER 30 MONTHS OF AGE		

HERD MERIT $ OPTION	GENETIC PROFILE OF SERVICE SIRES: PROVEN A.I. SIRES	A.I. YOUNG SIRES	ALL OTHER SIRES
NM			
% OF HERD BRED TO	86	7	7
NUMBER OF BULLS USED	4	1	1
AVERAGE MERIT $	+364		
AV. PERCENTILE RANK (NET MERIT)	64		

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	2			5	1	8
	2ND LACT	1	1	2			4
	3+ LACTS	1	1	1	2		5
	ALL LACTS	4	2	3	7	1	17
AVERAGE DAILY MILK PROD-UCTION	1ST LACT	55			46	56	50
	2ND LACT	49	52	69			60
	3+ LACTS	68	35	76	54		57
	ALL LACTS	57	44	71	48	56	54
% FAT & PROT. 1ST LACT	FAT %	3.0			2.9	2.8	2.9
	PROT %	3.0			2.9	2.9	2.9
% FAT & PROT. 2ND LACT	FAT %	2.7	3.3	3.0			3.0
	PROT %	2.4	3.3	2.9			2.9
% FAT & PROT. 3+ LACTS	FAT %	2.9	1.9	2.7	2.3		2.4
	PROT %	3.1	3.0	3.0	2.9		3.0
% FAT & PROT. ALL LACTS	FAT %	2.9	2.6	2.9	2.7	2.8	2.8
	PROT %	2.9	3.2	2.9	2.9	2.9	2.9
SCC ACT	1ST LACT	205			850	919	681
	2ND LACT	107	373	107			165
	3+ LACTS	566	200	38	1190		616
	ALL LACTS	292	303	82	957	919	525
SCC SCORE > 3.9	NUMBER	2	2		3	1	8
	PERCENT	50	100		43	100	47

WEIGHTED SCC (NEAREST 1,000)

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
1ST LACT	9	25	62	20195	663	553	+1151	+20	+23	1210
2ND LACT	7	43	76	20566	672	600	+2250	+42	+61	1380
3+ LACTS	6	61	76	19246	600	539	+1373	-18	+25	1520
ALL LACTATIONS	22	41	71	20055	648	565	+1550	+17	+35	1350

CURRENT SOMATIC CELL COUNT SUMMARY

HERD PRODUCTION LOST FROM SCC THIS TEST PERIOD: MILK = 1,501; $ = 228

	% COWS SCC SCORE 0,1,2,3 BELOW 142,000	4 142,000-283,000	5 284,000-565,000	6 566,000-1,130,000	7,8,9 OVER 1,130,000
1ST LACT	36	13	25	13	13
2ND LACT	50	25	25		
3+ LACTS	40	20		20	20
ALL LACTATIONS	40	18	18	12	12

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	7	106	1	2	4
3+ LACTS	6	78	1	2	3
ALL LACTATIONS	13	93	2	4	7

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	DIS-EASE	DIED	NOT RPTD
1ST LACT	11	46	5	21			3					1		1
2ND LACT			4	17			2				1		1	
3+ LACTS			3	13			2				1			
ALL LACTATIONS	11	46	12	51			7				2	1	1	1

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	TEST DAY AVERAGES (MILKING COWS) 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	6 566,000 1.13 M	7,8,9 OVER 1.13 M	AVG. SCC SCORE	WT. AVG. ACTUAL SCC	NUMBER LEFT HERD DIED	SOLD
MONTH DROPPED	34	23	201	57.3	65.2	91	83	46.9	3.1	2.8	17625	609	546	46	24	12	18		3.7	331		
8-17-00	23	21	233	51.8	59.9	95	86	44.4	3.1	2.9	17757	611	548	28	33	22	11	6	4.0	390	1	1
9-18-00	32	23	204	51.8	58.5	104	70	36.0	3.6	2.9	17663	607	541	36	19	13	13	19	4.2	720		
11-08-00	51	26	200	55.7	62.4	111	81	44.1	3.8	3.1	17485	602	531	39	22	11	11	17	4.3	717		
12-29-00	51	26	197	58.5	65.4	103	85	49.5	3.4	3.1	17378	596	523	26	14	32	5	23	4.7	874		4
1-31-01	33	26	198	60.5	65.3	105	88	53.2	3.4	3.0	17299	591	518	35	14	23	14	14	4.3	583		
3-06-01	34	25	239	54.6	60.1	91	88	48.1	3.3	3.1	17236	587	514	31	9	32	14	14	4.3	609		1
4-10-01	35	25	249	57.2	64.9	112	88	50.3	3.6	2.9	17265	587	515	22	14	27	14	23	4.9	787		
5-17-01	37	22	238	56.0	65.5	99	77	43.3	3.2	2.8	17232	587	512	34	12	24	6	24	4.6	630		3
6-19-01	33	21	153	59.7	65.4	96	71	41.8	3.3	2.9	16882	576	501	28	13	13	13	33	5.1	773		2
7-20-01	31	22	165	54.1	58.6	96	77	41.8	2.8	2.9	16700	571	496	40	18	18	12	12	3.9	526		
AVERAGES	36	24	208	56.0	62.6	101	81	45.3	3.3	3.0				31	17	22	11	19	4.4	661	1	11

TEST PERIOD AV. MILK LBS. ADDED: 43.5

TEST PERIOD AV. MILK LBS. DROPPED: 49.8

Appendix A

OFFICIAL AJCA PERFORMANCE PEDIGREE

FEMALE 1 DHI HERD # 35490017

O.F. LESTER LADYSLIPPER

USA 003825681

BORN 06/11/1993 CONTROL # 2128 2

3 TATTOO N082

PPA 2989M 162F 136P 4

YD 2552M 134F 113P

USDA PTA 08/01/2000 4RECS 62%R 99%ILE

5 918M 46F 39P 443CM$ 422NM$ 345FM$

AJCA 08/01/2000 PTAT 60%R 2.8 PTI 62%R 241

ST	SR	BD	DF	RA	TW	RL	FA
3.0	1.6		3.1	L0.9	1.4	P0.5	S1.3
FU	RH	RW	UC	UD	TP	TL	
3.1	4.1	3.4	1.5	S2.1	C2.1	L0.8	

6

1-10	305	2	14500	5.2	757	4.2	603	DHIR 1964C
3-02	305	2	19390	5.1	991	4.2	822	DHIR 2661C
4-11	305	2	18670	5.2	967	3.8	713	DHIR 2320C
6-00	305	2	20680	4.7	976	3.9	809	99DCR 2617C
305 2X ME AVG			4L	20675M		1030F		823P 2672C

7 2-01 88% 3-07 93% 6-07 94%

ST	SR	BD	DF	RA	TW	RL	FA	FU	RH	RW	UC	UD	TP	TL
29	19	23	43	32	19	22	32	41	42	42	37	32	31	24

OWNER: 280281 11 ISSUE DATE 8/21/2000

OWENS FARMS INC
315 355TH AVENUE
FREDERIC, WI 54837

13

BREEDER: 280281 12

OWENS FARMS INC
315 355TH AVENUE
FREDERIC, WI 54837

LAST 10 OF 18 PROGENY FOR USA 003825681

USA	110884886	M	06/16/1999	A9999
USA	110884934	M	05/23/1999	A9799
USA	110884943	M	05/18/1999	A9699
USA	110990516	F	05/07/1999	W1022
USA	110990507	F	05/05/1999	W1021
USA	110972596	F	05/04/1999	W1019
USA	110990440	F	05/02/1999	W1018
USA	110990431	F	05/01/1999	W1017
USA	110885047	M	04/27/1999	A9199
USA	110437431	F	05/13/1998	U806

14

HIGHLAND MAGIC DUNCAN

USA 000635862 YSP 7JE177 15

USDA 08/01/2000 10578DAUS 1509HRDS 1%RIP
99%R 111M 0.13% 25F 3%ILE
99%R 0.00% 4P 99CM$ 98NM$ 93FM$

AJCA 08/01/2000 7361DAUS
PTAT 99%R 0.5 PTI 99%R 53

HIGHLAND NOBLE O MISS LETTY 87%

USA 003093852 P061

16

PPA -2115M -54F -67P
YD -1446M -23F -45P
USDA PTA 08/01/2000 4RECS 68%R 11%ILE
-749M -13F -20P -144CM$ -146NM$ -164FM$
AJCA 11/01/1997 PTAT 42%R -1.3 PTI 62%R -74

4-03	305	2	14030	5.0	698	3.9	546	DHIR 1777C
5-03	305	2	14720	5.3	777	3.9	569	DHIR 1852C
6-06	305	2	13700	4.9	671	3.9	528	DHIR 1718C
7-11	305	2	14790	5.2	773	4.0	595	DHIR 1937C
305 2X ME AVG			6L	14562M		736F		458P 1787C

HIGHLAND DUNCAN LESTER

USA 000645454 YSP 29JE2875 8

USDA 08/01/2000 10581DAUS 1506HRDS 8%RIP
99%R 485M -0.05% 13F 5%ILE
99%R -0.01% 16P 136CM$ 132NM$ 123FM$

AJCA 08/01/2000 6981DAUS
PTAT 99%R 1.2 PTI 99%R 85

O.F. SOONER ORCHID

USA 003637743 J636 9

DHI HERD # 35490017 CONTROL # 1666

PPA 1694M 110F 72P
YD 1434M 99F 62P
USDA PTA 08/01/2000 3RECS 62%R 92%ILE
407M 28F 18P 239CM$ 228NM$ 189FM$
AJCA 08/01/2000 PTAT 61%R 2.1 PTI 63%R 146

2-04	305	2	16030	5.1	820	3.9	620	DHIR 2018C
3-07	305	2	16330	5.4	886	4.1	673	DHIR 2192C
4-08	305	2	15680	4.6	726	3.7	579	DHIR 1883C
305 2X ME AVG			3L	18205M		906F		697P 2268C

2-08 90% 4-05 91%

ST	SR	BD	DF	RA	TW	RL	FA	FU	RH	RW	UC	UD	TP	TL
37	31	38	42	26	28	25	28	37	40	37	34	37	34	25

10

SOLDIERBOY BOOMER SOONER OF CJF

USA 000640211 YSP 7JE159 17

USDA 08/01/2000 19639DAUS 2052HRDS 3%RIP
99%R 862M -0.24% -1F 2%ILE
99%R -0.10% 15P 63CM$ 79NM$ 154FM$

AJCA 08/01/2000 11988DAUS
PTAT 99%R 1.4 PTI 99%R 46

O.F. JEREMY IVY

USA 003342434 C848 18

PPA -2086M -37F -40P
YD -2474M -30F -49P
USDA PTA 08/01/2000 5RECS 68%R 10%ILE
-1120M -11F -24P -149CM$ -161NM$ -228FM$
AJCA 11/01/1997 PTAT 36%R -0.4 PTI 64%R -69

6-01	290	2	10930	5.6	611	4.3	470	DHIR 1532C
7-00	305	2	10600	5.3	566	4.2	449	DHIR 1463C
8-02	305	2	13670	5.4	738	4.1	554	DHIR 1804C
9-02	305	2	12050	5.2	621	4.1	492	DHIR 1602C
10-02	305	2	12820	5.4	695	4.3	545	DHIR 1776C
12-01	305	2	12390	5.7	708	3.9	485	DHIR 1579C
305 2X ME AVG			6L	12306M		664F		505P 1643C

7-11 88% 9-05 88%

ST	SR	BD	DF	RA	TW	RL	FA	FU	RH	RW	UC	UD	TP	TL
41	36	42	36	17	41	21	26	36	41	36	36	30	21	22

HOLSTEIN ASSOCIATION

HIGH RANKING SIRE REPORT - AUGUST 2002

Domestic U.S. Reliabilities at least 75% for production and 70% for type. No requirement for Semen Status.

NAME		% RHA	NAAB #	SIRE/MGS	SP CD	PROTEIN PTA	PROTEIN %	FAT PTA	FAT %	PTAM	%R	SCS	PL	PTAT	%R	UDC	FLC	TPI™
WINDSOR-MANOR MACHOMAN-ET	CV TL	100-NA	29HO09558	RUDOLPH x ELTON	S	65	-.01	73	-.04	2330	86	3.04	3.3	2.21	84	1.59	1.76	1839
CAROL PRELUDE MTOTO-ET	TV	100-NA	206HO00004	PRELUDE x BLACKSTAR		49	-.02	75	.04	1826	97	2.53	3.6	2.36	94	1.75	2.61	1797M
STOUDER MORTY-ET	TV TL	100-NA	200HO00044	FORMATION x AEROSTAR	S	49	-.04	50	-.09	1988	85	2.94	2.4	3.18	83	3.19	2.95	1784
WELCOME GARTER-ET	TV TL	100-NA	1HO06149	RICK x MOUNTAIN	S	80	-.01	88	-.06	2819	87	3.38	1.0	1.34	83	1.03	1.22	1773
COYNE-FARMS PATRON BEAVER	TV TL	100-NA	9HO02704	PATRON x PRELUDE	S	52	.05	71	.09	1367	76	3.19	2.5	2.28	70	2.19	2.70	1749
RICECREST MARSHALL-ET	TV TL	100-NA	11HO04662	MANDEL x SOUTHWIND	S	79	.02	72	-.07	2479	91	3.02	0.1	1.66	88	1.45	1.22	1738
NOR-SOM STORMY	TV	100-NA	100HO09000	CELSIUS x SLOCUM	S	55	.02	79	.08	1652	78	3.14	1.6	2.10	79	1.89	2.28	1718
VISION-GEN OZZIE-ET	CV TL	100-NA	29HO09685	LORD LILY x BELLWOOD	S	73	-.03	99	.00	2735	84	2.86	0.7	1.32	80	0.48	0.37	1718
SIKKEMA-STAR ZENITH-ET	TV TL	100-NA	11HO05128	DUSTER x MASCOT	S	72	.11	32	-.10	1543	90	3.01	2.9	1.71	87	1.52	0.35	1715
SIKKEMA-STAR AIR MAGNA-ET	TV TL	100-NA	7HO05851	AIRLINER x THOR	S	59	.03	86	.09	1748	84	3.01	1.1	2.21	82	0.86	1.55	1699
SILDAHL BW DUTCH BOY-ET	TV TL	100-NA	14HO02958	BELLWOOD x USA2115255	S	70	.02	74	-.02	2211	90	2.91	1.0	1.74	88	0.47	0.91	1689
MCCLOE-POND TRENT	TV TL	100-NA	1HO06158	BELLWOOD x MOUNTAIN	S	74	.08	95	.12	1821	87	3.05	1.0	0.87	83	0.30	0.31	1686
GLEN-TOCTIN PIPPEN-ET	CV TL	100-NA	29HO09155	ELTON x SLOCUM	S	58	.05	63	.03	1508	88	3.09	1.7	1.89	85	1.53	2.11	1678
MR SHIPSHOLM GLENWOOD-ET	TV TL	100-NA	1HO06248	DUSTER x AEROSTAR	S	65	-.01	60	-.08	2265	84	3.05	2.7	1.05	82	1.83	-0.62	1673
ETAZON ADDISON-ET	TV TL	100-NA	97HO00060	MOUNTAIN x ELTON		72	.01	41	-.18	2383	95	2.84	2.1	1.25	80	0.90	1.36	1671M
WA-DEL LABELLE COMET-ET	CV TL	100-NA	1HO06345	LABELLE*BL x CONVERSE	S	59	.08	67	.07	1370	76	3.07	1.6	1.95	70	0.87	1.86	1665
DIAMOND-OAK DUSTER DANTE-ET	TV TL	100-NA	29HO09495	DUSTER x LUKE	S	41	-.06	54	-.07	1946	88	2.91	3.5	1.84	85	2.21	2.12	1652
DE-MATT RUDOLPH TEAMSTER-ET	TV TL	100-NA	7HO06025	RUDOLPH x MASCOT	S	64	.02	60	-.05	2012	85	3.16	1.4	1.70	81	1.76	-0.65	1643
PAGEN-ERNWOOD DANE-ET	TV TL	100-NA	7HO05710	ZEBO x MASCOT	S	59	.02	80	.06	1834	91	2.89	0.9	1.34	85	1.36	1.33	1639M
CEDARWAL HARMONIZE-ET	TV TL	100-NA	200HO00048	RUDOLPH x MASCOT	S	55	.01	55	-.03	1724	86	3.10	1.9	1.96	84	1.95	0.37	1637
WA-DEL CONVINCER-ET	CV TL	100-NA	29HO08343	ELTON x CLEITUS	S	55	.00	75	.03	1871	99	3.36	1.2	1.81	97	1.52	1.31	1634M
JAFRAL DUSTER FORREST-ET	TV	100-NA	122HO01354	DUSTER x PRELUDE	S	53	.02	50	-.03	1612	78	2.96	2.9	1.62	76	1.12	1.07	1622
HILMAR RICK LATERAL-ET	TV	100-NA	1HO05353	RICK x MASCOT	S	67	.11	80	.12	1373	92	3.12	1.5	0.44	86	0.52	1.08	1619M
LEXVOLD LUKE HERSHEL-ET	TV TL	100-NA	11HO04623	LUKE x MASCOT	S	66	-.02	49	-.14	2372	90	3.07	0.5	1.64	88	1.33	1.72	1617
PECKENSTEIN PATRON DUANE-ET	TV TL	100-NA	9HO02498	PATRON x ELTON	S	67	.03	64	-.04	2035	78	3.15	1.0	1.12	73	1.56	-0.54	1612
GLEN-D-HAVEN RUDOLPH JETTA	CV TL	100-NA	9HO02517	RUDOLPH x BLACKSTAR	S	45	-.02	36	-.10	1661	87	2.87	3.1	2.22	85	2.13	0.33	1611
TIMLYNN ADAM-ET	TV TL	100-NA	11HO05183	RUDOLPH x WINKEN	S	52	.05	18	-.12	1326	88	3.00	3.0	1.85	85	2.43	1.23	1611
HOLSTEIN-FORUM LANDLORD-ET	TV TL	100-NA	7HO05992	LORD LILY x MASCOT	S	54	.06	55	.03	1342	82	2.84	1.2	2.02	75	1.78	0.52	1608
SANDY-VALLEY FORBIDDEN-ET	TV TL	100-NA	7HO05687	EMORY x MASCOT	S	55	.03	57	.00	1564	89	3.17	-0.1	2.33	85	2.49	1.18	1608
ALTAGEN-I MERCHANT-ET	TV	100-NA	11HO05549	WADE x BELLWOOD	S	36	-.03	39	-.06	1467	87	3.05	1.7	3.09	83	3.33	1.37	1607
APPLENOTCH CELSIUS CONGO-ET	TV TL	100-NA	7HO05439	CELSIUS x BLACKSTAR	S	60	.03	61	-.01	1752	89	3.24	3.1	0.79	83	-0.33	1.95	1602
TIDY-BROOK J STEVEN TCG-ET	TV	100-NA	1HO05210	JABOT x ELTON	S	63	.07	75	.07	1557	91	2.92	0.7	0.77	84	1.52	0.62	1601M
MARKWELL RAMSES-ET	TL	100-NA	200HO00047	RUDOLPH x BLACKSTAR	S	52	.05	44	-.02	1369	81	3.13	1.9	2.23	72	1.41	1.04	1600
CO-OP BRISTOL ONEIDA-CRI-ET	TV TL	100-NA	1HO05485	BRISTOL x HUNTER	S	68	-.03	71	-.09	2572	88	3.00	0.7	1.06	82	0.82	-0.37	1598
MR MILLENNIUM-ET	TV TL	100-NA	7HO06194	RUDOLPH x MARK	S	52	.02	66	.03	1630	85	2.82	2.3	1.42	74	1.17	-0.12	1597
EASTVIEW NBO REVENUE MATTIE	TV TL	100-NA	29HO09568	RUDOLPH x OSCAR	S	30	.01	55	.09	939	90	3.04	3.3	2.25	86	2.74	1.20	1596
KEMVIEW BEAUTY-ET	TV TL	100-NA	1HO06024	CELSIUS x BLACKSTAR	S	56	.05	62	.04	1463	90	3.22	1.9	1.08	84	0.76	2.56	1594
ANDACRES HUNTER ORION	CV TL	100-NA	1HO06020	HUNTER x LEADMAN	S	51	.08	90	.21	1081	84	3.06	1.7	0.87	78	0.64	2.01	1593
MARA-THON BW MARSHALL-ET	TV TL	100-NA	7HO05375	BELLWOOD x ELTON	S	51	-.04	52	-.08	2029	88	3.21	0.2	2.59	83	1.97	1.78	1590
REGANCREST ELTON DURHAM-ET	CV TL	100-NA	7HO05157	ELTON x MARK	S	41	.08	2	.10	718	99	2.88	1.9	3.15	98	3.07	2.75	1590

***NAAB has changed its sampling code program. Please be sure to read the explanation on the attached document.**

This is NOT the Official Holstein Association Top 100 TPI bulls List. The official list has the same reliability criteria, but in addition has Semen Status ACTIVE or LIMITED only

Appendix B

THE UNIVERSITY of TENNESSEE KNOXVILLE

#1

LOT 1 U-T FREEDOM DEE USA 113213274

BORN 12/01/2002 TATTOO T001 / T001 P5
FEMALE EFI 8 0%

PA 1068M 26F 27P 211CM$ 220NM$ 237FM$
PA TYPE 1 4 JPI 136

ST	SR	DF	RA	TW	RL	FA
1 2	1.1	1.7	LO 4	0.6	PO 6	SO 9
FU	RH	RW	UC	UD	TP	TL
1 0	1 6	1 3	0 0	SO 1	WO 0	L1 2

SELLING OPEN

UNIVERSITY OF TENNESSEE DAIRY BREEDER & OWNER
KNOXVILLE TN 37996-4500

SIRE:
MOLLY BROOK GLNWOOD FREEDOM-ET
000662338 7JE424
USDA 08/01/2003 1318DAUS 288HRDS 81%RIP
98%R 1104M -0.06% 40F 20%ILE
98%R -0.12% 18P 184CM$ 212NM$ 264FM$
AJCA 08/01/2003 747DAUS
JPI 97%R 145 PTAT 98%R 2 2

DAM:
U-T DECLO MIA
111879805 TATTOO T948 / T948
DHI HERD #63-03-0022 CONTROL #948
2-00 239 2 15630 4 0 620 3 4 530 RIP
24170 --- 990 --- 840 PME

2-00 76% 2-07 80%

ST	SR	DF	RA	TW	RL	FA	FU	RH	RW	UC	UD	TP	TL
25	35	40	25	34	25	29	31	38	39	24	16	31	34

PPA 2522M 36F 84P
YD 3413M 25F 111P
USDA PTA 08/01/2003 1RECS 50%R 79%ILE
1033M 13F 36P 238CM$ 228NM$ 210FM$
AJCA 08/01/2003 PTAT 47%R 0 5 JPI 49%R 128

SELLING AS LOT 948

DUNCAN DUKE OF GLENWOOD
USA 000649231 29JE2910
USDA 08/01/2003 6363DAUS 1592HRDS 4%RIP
99%R 901M -0.04% 34F 4%ILE
99%R -0.09% 16P 76CM$ 97NM$ 135FM$
AJCA 08/01/2003 3122DAUS
JPI 99%R 73 PTAT 99%R 0 5

MOLLY BROOK SOONER FAME-ET 91%
USA 003633390 TATTOO HK44
2-00 305 2 17110 5.5 939 3 9 669 DHIR 2177C
3-00 305 2 21490 5.5 1180 3 9 844 DHIR 2747C
305 2X ME AVG 2L 23029M 1231F 879P 2860C
PPA 3526M 233F 142P
YD 3252M 276F 154P
USDA PTA 08/01/2003 2RECS 87%R 99%ILE
1215M 81F 50P 472CM$ 447NM$ 399FM$
AJCA 08/01/2003 PTAT 85%R 2 0 JPI 86%R 301

BARBS MBSB DECLO
USA 000660532 7JE386
USDA 08/01/2003 2468DAUS 593HRDS 28%RIP
99%R 1197M -0.24% 14F 45%ILE
99%R 0% 43P 322CM$ 308NM$ 283FM$
AJCA 08/01/2003 1726DAUS
JPI 99%R 191 PTAT 99%R 1 5

U-T KENT JULIA 83%
USA 110524775 TATTOO T897 / T897
2-00 269 2 14630 4 4 640 3 5 512 94DCR 1733C
2-11 305 2 17620 4 5 795 3 5 618 97DCR 2127C
305 2X ME AVG 2L 29786M 902F 724P 2445C
PPA 1297M 48F 46P
YD 864M 23F 30P
USDA PTA 08/01/2003 3RECS 59%R 44%ILE
442M 13F 15P 105CM$ 102NM$ 96FM$
AJCA 08/01/2003 PTAT 53%R -0.3 JPI 58%R 31
SIRE: GREENWOOD SKYLINE KENT-ET JPI 97 14%ILE

SELLING AS LOT 897

#2

THE UNIVERSITY of TENNESSEE KNOXVILLE

LOT 3 U-T BARKLY SARAH USA 113418811

BORN 04/13/2003 TATTOO T003 / T003 P1
FEMALE EFI 7 4%

PA 612M 23F 14P 134CM$ 144NM$ 160FM$
PA TYPE 0 9 JPI 84

ST	SR	DF	RA	TW	RL	FA
0 6	0.4	1.6	LO 3	0.4	SO 2	LO 2
FU	RH	RW	UC	UD	TP	TL
0 0	0 8	1 0	0 0	DO 1	CO 1	SO 2

SELLING OPEN

SISTER(S):
U-T KENT SISSY 77%
3-09 305 2 19900 4 9 971 3 6 708 96DCR 2447C
U-T BOLD SUSAN 80%
2-00 305 2 19640 3 9 773 3 3 653 97DCR 2140C
SELLING AS LOT 917
U-T BOLD DARBY 80%
1-11 280 2 16970 5 2 890 3 7 620 RIP
SELLING AS LOT 947

SIRE:
LONG DISTANCE BARBER BARKLY
000665195 7JE488
USDA 08/01/2003 50DAUS 42HRDS 6%RIP
86%R 1525M -0.15% 44F 61%ILE
86%R -0.11% 36P 329CM$ 347NM$ 381FM$
AJCA 08/01/2003 31DAUS
JPI 84%R 204 PTAT 77%R 1 6

DAM:
U-T SOONER SPOT
003876241 TATTOO T808 / T808
DHI HERD #63-03-0022 CONTROL #808

1-11 305 2 11000 4 7 517 3 7 405 DHIR 1317C
2-11 286 2 16790 4 8 808 3 8 641 DHIR 2086C
3-10 305 2 16870 4 7 788 3 7 617 DHIR 2006C
4-10 305 2 15940 4 3 693 3 6 567 99DCR 1843C
5-11 276 2 12370 5.0 620 3 6 442 93DCR 1528C
305 2X ME AVG 5L 16660M 762F 599P 1965C

2-00 70% 3-05 84%

ST	SR	DF	RA	TW	RL	FA	FU	RH	RW	UC	UD	TP	TL
36	35	35	35	29	28	35	26	29	31	32	16	24	25

PPA -927M -22F -39P
YD -1229M -15F -40P
USDA PTA 08/01/2003 5RECS 67%R 11%ILE
-301M 2F -9P -60CM$ -60NM$ -60FM$
AJCA 08/01/2003 PTAT 58%R 0 2 JPI 65%R -36

SELLING AS LOT 808

UNIVERSITY OF TENNESSEE DAIRY BREEDER & OWNER
KNOXVILLE TN 37996-4500

WF/L&M DUNCAN BARBER-ET
USA 000654500 7JE290
USDA 08/01/2003 9457DAUS 1733HRDS 12%RIP
99%R 799M 0.02% 40F 32%ILE
99%R -0.05% 20P 253CM$ 260NM$ 274FM$
AJCA 08/01/2003 5824DAUS
JPI 99%R 147 PTAT 99%R 1 4

LONG DISTANCE SKY LINE BABE IV-ET 87%
USA 003806871 TATTOO W123
1-09 305 2 16080 4 1 659 3 5 561 DHIR 1784C
3-04 305 2 19340 3 9 753 3 5 679 DHIR 2089C
4-04 305 2 19130 4 0 756 3 7 703 DHIR 2127C
6-07 305 2 18230 4 1 752 3 4 624 100DCR 2013C
7-09 305 2 18680 4 1 760 3 4 638 100DCR 2099C
305 2X ME AVG 5L 20374M 802F 702P 2101C
PPA 3365M 53F 91P
YD 3461M 61F 99P
USDA PTA 08/01/2003 5RECS 72%R 87%ILE
1457M 26F 40P 258CM$ 265NM$ 277FM$
AJCA 08/01/2003 PTAT 67%R 0 2 JPI 70%R 140

SOLDIERBOY BOOMER SOONER OF CJF
USA 000640211 7JE159
USDA 08/01/2003 20697DAUS 2284HRDS 3%RIP
99%R 851M -0.24% -1F 1%ILE
99%R -0.09% 14P 37CM$ 59NM$ 99FM$
AJCA 08/01/2003 12559DAUS
JPI 99%R 40 PTAT 99%R 1 2

U-T BRIGADIER SPOT 76%
USA 003680865 TATTOO T725 / T725
1-11 305 2 10100 5 7 572 4 1 414 DHIR 1348C
3-01 298 2 11270 6.3 713 4 1 457 DHIR 1488C
305 2X ME AVG 2L 13021M 753F 514P 1672C
PPA -3170M -9F -90P
YD -2691M 5F -81P
USDA PTA 08/01/2003 2RECS 62%R 2%ILE
-1176M 2F -29P -194CM$ -205NM$ -227FM$
AJCA 08/01/2003 PTAT 57%R -0 9 JPI 61%R -140
SIRE: BUSH RIVER BRIGADIER-ET JPI 9 0%ILE

THE UNIVERSITY of TENNESSEE KNOXVILLE

#3

LOT 4 U-T FREEDOM MEGGIE USA 113479917

BORN 07/27/2003 TATTOO T004 / T004 P5
FEMALE EFI 7 9%

PA 1222M 44F 27P 232CM$ 250NM$ 284FM$
PA TYPE 1 7 JPI 158

ST	SR	DF	RA	TW	RL	FA
0 9	0.8	2.4	HO 2	0.5	SO 3	SO 4
FU	RH	RW	UC	UD	TP	TL
0 7	1 9	1 8	0 6	SO 1	CO 3	LO 5

SELLING OPEN

SIRE:
MOLLY BROOK GLNWOOD FREEDOM-ET
000662338 7JE424
USDA 08/01/2003 1318DAUS 288HRDS 81%RIP
98%R 1104M -0.06% 40F 20%ILE
98%R -0.12% 18P 184CM$ 212NM$ 264FM$
AJCA 08/01/2003 747DAUS
JPI 97%R 145 PTAT 98%R 2 2

DAM:
U-T BOLD MEG
112704467 TATTOO T966 / T966

PA 1340M 47F 36P 280CM$ 289NM$ 305FM$
PA TYPE 1 2 JPI 171
SELLING AS LOT 966

UNIVERSITY OF TENNESSEE DAIRY BREEDER & OWNER
KNOXVILLE TN 37996-4500

DUNCAN DUKE OF GLENWOOD
USA 000649231 29JE2910
USDA 08/01/2003 6363DAUS 1592HRDS 4%RIP
99%R 901M -0.04% 34F 4%ILE
99%R -0.09% 16P 76CM$ 97NM$ 135FM$
AJCA 08/01/2003 3122DAUS
JPI 99%R 73 PTAT 99%R 0 5

MOLLY BROOK SOONER FAME-ET 91%
USA 003633390 TATTOO HK44
2-00 305 2 17110 5 5 939 3 9 669 DHIR 2177C
3-00 305 2 21490 5 5 1180 3 9 844 DHIR 2747C
305 2X ME AVG 2L 23029M 1231F 879P 2860C
PPA 3526M 233F 142P
YD 3252M 276F 154P
USDA PTA 08/01/2003 2RECS 87%R 99%ILE
1215M 81F 50P 472CM$ 447NM$ 399FM$
AJCA 08/01/2003 PTAT 85%R 2 0 JPI 86%R 301

MVF BOLD VENTURE DANIEL
USA 000656178 1JE1325
USDA 08/01/2003 3922DAUS 660HRDS 19%RIP
99%R 1722M -0.11% 60F 82%ILE
99%R -0.07% 49P 382CM$ 386NM$ 395FM$
AJCA 08/01/2003 2520DAUS
JPI 99%R 221 PTAT 99%R 0 7

U-T MONTANA CLAIRE 82%
USA 111122613 TATTOO T915 / T915
2-00 305 2 12410 4 8 601 3 2 398 97DCR 1373C
2-11 305 2 18480 5 0 921 3 5 646 97DCR V 2233C
305 2X ME AVG 2L 19397M 924F 644P 2222C
PPA 1469M 60F 37P
YD 1091M 45F 23P
USDA PTA 08/01/2003 2RECS 56%R 70%ILE
957M 34F 22P 179CM$ 192NM$ 215FM$
AJCA 08/01/2003 PTAT 53%R 1.7 JPI 55%R 121
SIRE: ROCK MAPLE BROOK MONTANA-ET JPI 196 48%ILE

SISTERS(S):
U-T MARCUS GLENNA 83%
2-11 305 2 15280 4 2 638 3 1 472 97DCR 1628C
U-T BERRETTA LAURIE 84%

NEXT DAM:
U-T BARBER DENISE 85%
3-01 305 2 19980 4.6 913 3.6 721 99DCR 2344C
SIRE: WF/L&M DUNCAN BARBER-ET JPI 147 32%ILE

4TH DAM:
U-T MAJOR REGINA 87%
4-06 305 2 21020 3 9 814 3 5 734 DHIR 2258C

#4

THE UNIVERSITY of TENNESSEE KNOXVILLE

LOT 5 U-T RUEBEN MARGIE USA 113479926

BORN 08/02/2003 TATTOO T005 / T005 P7
FEMALE EFI 7 7%

PA 1672M 44F 43P 272CM$ 286NM$ 310FM$
PA TYPE 0 8 JPI 190

ST	SR	DF	RA	TW	RL	FA
0 0	0.5	2.3	HO 8	0.6	SO 9	LO 2
FU	RH	RW	UC	UD	TP	TL
-0 2	1 2	1 8	0 2	D1 4	WO 4	SO 7

SELLING OPEN

SIRE:
SUNBOW RUEBEN
000666362 29JE3216
USDA 08/01/2003 58DAUS 41HRDS 12%RIP
85%R 1993M -0.28% 41F 53%ILE
85%R -0.1% 52P 322CM$ 336NM$ 363FM$
AJCA 08/01/2003 31DAUS
JPI 82%R 244 PTAT 75%R 1 7

DAM:
U-T MANNIX MARGIE
111749300 TATTOO T933 / T933
DHI HERD #63-03-0022 CONTROL #933

1-11 289 2 16710 4 3 725 3 1 510 97DCR 1759C
305 2X ME AVG 1L 24228M 1020F 731P 2520C

2-03 82%
ST SR DF RA TW RL FA FU RH RW UC UD TP TL
27 32 25 25 31 25 32 25 33 33 30 27 27 22

PPA 2990M 107F 73P
YD 3644M 139F 79P
USDA PTA 08/01/2003 1RECS 47%R 81%ILE
1352M 48F 34P 223CM$ 236NM$ 258FM$
AJCA 08/01/2003 PTAT 48%R 0 0 JPI 47%R 137
SELLING AS LOT 933

SISTERS(S):
U-T PEREGRINE KIM 81%
2-10 305 2 20380 4 1 828 3 5 705 97DCR 2301C

UNIVERSITY OF TENNESSEE DAIRY BREEDER & OWNER
KNOXVILLE TN 37996-4500

MVF BOLD VENTURE DANIEL
USA 000656178 1JE1325
USDA 08/01/2003 3922DAUS 660HRDS 19%RIP
99%R 1722M -0.11% 60F 82%ILE
99%R -0.07% 49P 382CM$ 386NM$ 395FM$
AJCA 08/01/2003 2520DAUS
JPI 99%R 221 PTAT 99%R 0 7

SUNBOW POSEIDON RUBY 89%
USA 003911680 TATTOO S580 / S580
2-01 305 2 20790 4.3 886 3 8 780 DHIR 2435C
305 2X ME AVG 1L 27443M 1143F 1006P 3140C
PPA 3954M 116F 121P
YD 4967M 136F 152P
USDA PTA 08/01/2003 1RECS 66%R 88%ILE
1472M 32F 45P 271CM$ 270NM$ 266FM$
AJCA 08/01/2003 PTAT 59%R 2 1 JPI 64%R 225

ROCK MAPLE BROOK MANNIX
USA 000660210 140JE330
USDA 08/01/2003 3768DAUS 816HRDS 44%RIP
99%R 1513M -0.09% 55F 48%ILE
99%R -0.06% 43P 308CM$ 312NM$ 320FM$
AJCA 08/01/2003 2519DAUS
JPI 99%R 194 PTAT 99%R 1 3

U-T KHAN EFFIE 50%
USA 004024367 TATTOO T868 / T868
2-01 297 2 14480 4 5 658 3 4 490 99DCR 1591C
3-00 186 2 11600 4 4 505 3 2 373 83DCR V 1210C
305 2X ME AVG 2L 19534M 851F 641P 2081C
PPA 1496M 44F 23P
YD 1546M 47F 21P
USDA PTA 08/01/2003 2RECS 60%R 47%ILE
876M 26F 21P 105CM$ 115NM$ 133FM$
AJCA 08/01/2003 PTAT 57%R -1 3 JPI 59%R 43
SIRE: GREENWOOD SOONER KHAN JPI 164 37%ILE

NEXT DAM:
U-T CHARLIE ETTA 78%
3-00 305 2 17190 4.7 811 3 6 617 DHIR 2006C
SIRE: GOODTIMES CHARLIE-ET JPI 48 4%ILE

4TH DAM:
U-T BRIGADIER ERIKA 72%
5-11 305 2 18620 5 1 941 3 8 716 DHIR 2330C

Dairy Cattle Career Development Event
2003 Answer key

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

DHIA questions-5 points each
26.D
27.B
28.B
29.A
30.D

Problem solving-5 points each
31.A
32.C
33.D
34. ~~B~~ A
35.C

Sire evaluation questions-5 points each
36.A
37.D
38.C
39.D
40.B

Pedigree questions-5 points each
41.A
42.B
43.C
44.A
45.D

Pedigree Ranking
4-3-1-2
Cuts 2-4-6