

2009 Iowa FFA Dairy Cattle Evaluation CDE Test

Mark the appropriate answer on the scantron sheet.

1. Which of the following hormones is responsible for the 'milk letdown' response at the mammary gland?
 - a. adrenalin
 - b. prolactin
 - c. insulin
 - d. oxytocin
 - e. estrogen

2. Which of the following stomach areas is responsible for *initiation* of the movements to cause rumination when roughage particles are detected?
 - a. reticulum
 - b. rumen
 - c. omasum
 - d. abomasum
 - e. rumeno-reticular groove

3. Where is oxytocin stored and released?
 - a. ovarian follicle
 - b. pituitary gland
 - c. adrenal glands
 - d. myoepithelial cells
 - e. corpus luteum

4. Which stomach area absorbs the majority of the volatile fatty acids produced during fermentation?
 - a. reticulum
 - b. rumen
 - c. omasum
 - d. abomasum
 - e. rumeno-reticular groove

5. At birth, which stomach area is the largest in the calf?
 - a. reticulum
 - b. rumen
 - c. abomasum
 - d. omasum
 - e. crop

6. Which of the following structures is responsible for the physical activity that results in 'milk letdown'?
 - a. rumeno-reticular groove
 - b. sustentacular cells
 - c. alveolar cells
 - d. parenchymal foramen
 - e. myoepithelial cells

7. If the following rumen content is 'depressed', fat content of milk is most likely depressed:
 - a. lactic acid
 - b. acetic acid
 - c. urease
 - d. butyric acid
 - e. formalin

8. The act of giving birth in Jerseys is called:
 - a. gestation
 - b. lactation
 - c. parturition
 - d. fruition
 - e. ovulation

9. Which hormone is most responsible for the 'secondary sex character' of a heifer (that which makes a heifer's general appearance different from a bull).
 - a. oxytocin
 - b. testosterone
 - c. estrogen
 - d. prolactin
 - e. adrenalin

10. What is the goal for age to have a well developed heifer calve for the first time?
 - a. 12 months
 - b. 18 months
 - c. 24 months
 - d. 30 months
 - e. 36 months

11. 'UHT' milk is pasteurized at what approximate minimum temperature in degrees Fahrenheit?
 - a. 145
 - b. 161
 - c. 191
 - d. 280
 - e. 363

12. Milk for sale in Iowa does not need to be pasteurized if it is sold directly to the customer at a Grade A farm.
- true
 - false
13. Urea can be fed to lactating cows where it is 'remanufactured' into a _____
- source of protein
 - source of energy
 - source of vitamin A
 - source of vitamin D
 - none of the above, because it is illegal to feed urea to cows
14. Ketosis is a nutritional disease in dairy cows caused primarily by _____ in the diet.
- excess of calcium
 - shortage of calcium
 - excess of protein
 - shortage of protein
 - shortage of energy
15. Which component in colostrum fed during the first day of life is most critical to the health and survival of the calf?
- vitamin A
 - immunoglobulin
 - calcium
 - vitamin D
 - somatic cells
16. How regularly must a Grade A farm be *inspected* in Iowa?
- each time milk is picked up
 - once per week
 - once per month
 - once per six months
 - once per year
17. The lactose in cow's milk is produced in the
- rumen and transported via mammary veins to the udder
 - liver and transported via the mammary veins to the udder
 - small intestine and transported via the mammary veins to the udder
 - small intestine and transported via the arterial system to the udder
 - alveolar cells of the mammary gland

18. 'Parturient paresis' is the name for a disease related to
- calcium status of the cow around the time of calving
 - infection of the mammary gland
 - lack of energy in the diet causing blood acidosis
 - infection of the uterus due to retained placenta
 - difficult calving
19. Which of the following is the major product of fermentation of silage that results in preserving the silage throughout its normal feeding period?
- butyric acid
 - nitric acid
 - acetic acid
 - lactic acid
 - formic acid
20. What type of feed is more of a concern for causing bloat in cattle?
- brome grass hay
 - corn silage
 - corn gluten meal, wet
 - corn gluten meal, dried
 - pastured alfalfa
21. If you mate 200 horned Holstein cows to five different homozygous polled Holstein bulls this year, what percentage of the calf crop from these matings will be horned?
- 0
 - 25
 - 50
 - 75
 - 100
22. You are entered in a contest to win a \$1,000,000 prize by making the most genetic progress (measured as percent change from starting point) in 5 generations in a computer mating game. Which of the following should you choose to change by breeding in order to have the best chance of winning the contest?
- increase twinning percentage
 - decrease twinning percentage
 - improve conception rate in heifers
 - increase percent fat in milk of first calf heifers
 - all of the above are equal because heritability is similar for these traits

23. Which of the following is the main support system holding the udder close to the cow's body wall?
- skin and subcutaneous connective tissue
 - lateral suspensory ligament
 - medial suspensory ligament
 - sustentacular apparatus
 - pelvic girdle tendons
24. Which of the following hormones is produced by the corpus luteum on the ovary and assists in the maintenance of pregnancy?
- progesterone
 - prolactin
 - oxytocin
 - estrogen
 - follicle stimulating hormone
25. Mastitis generally comes from
- micro-organisms that enter the mammary gland from the blood stream across the tissue border
 - somatic cells that mutate in the mammary gland due to acidic conditions
 - micro-organisms that enter via injuries in the skin surface from hock abrasions on the exterior of the mammary gland
 - bacteria that gain entry to the mammary gland through the streak canal
 - viruses that cross the rumen wall from contaminated feedstuffs

Turn Scantron Sheet **Over** to Mark the Appropriate Answers.

DHIA Questions – 5 pts each

Refer to the **Appendix A (DHI-202 (both sides))** to answer the following questions.

51. What is the yearly average linear SCC score?
a. 321,000 b. 3.3 c. 296,000 d. \$1,703
52. Which lactation group has the highest peak and summit milks?
a. 2nd lactation b. all combined c. 1st lactation d. 3+ lactations
53. What was the pregnancy rate for the 3/30/09 date of test?
a. 26% b. 16% c. 44% d. 28%
54. What % of the first lactation animals were culled or left the herd over the past year?
a. 30% b. 17% c. 5% d. 10%
55. What is the average milk production/cow/day for all cows on the 7/28/09 test?
a. 72.4 b. 81.8 c. 61.2 d. 23,395

Dairy Management Problems – 5 pts each

56. Three hundred head of replacement heifers average 850 pounds in weight and consume 5% of their body weight on average. How much feed is consumed per day for the entire group?

- a. 425 lbs. b. 42.5 lbs. c. 1,275 lbs. d. 127,500 lbs. e. 12,750 lbs.

57. You need to formulate a diet containing corn (8% CP) and SBM (48% CP) for a group of heifers requiring a diet that is 13% CP. To mix one ton of feed for these heifers, how many pounds of corn and how many pounds of SBM are required to achieve the necessary level of CP in the final ration?

- a. 1750 lbs. corn and 250 pounds SBM b. 87.5 pounds SBM and 12.5 pounds corn
c. 1750 lbs SBM and 250 lbs. corn d. 87.5 lbs. corn and 12.5 lbs. SBM
e. 875 lbs. corn and 125 lbs. SBM

58. A bunker-type silo is full of corn silage (density of 40 lbs of as fed silage/cu ft). It needs to be emptied in 365 days so it can be re-filled next year. The silo is 3960 cubic feet in capacity. If you are feeding 40 head, how many pounds per head per day will you need to feed to empty the silo on time?

- a. 434 lbs./head/day b. 43.4 lbs/head/day c. 10.8 lbs/head/day d. 108 lbs./head/day
e. 36.5 lbs./head/day

59. Assuming the feed cost is 65% of the total production cost and the feed cost per head is \$1.37/day, calculate the total yearly production cost for 2,000 head.

- a. \$650,065 b. \$1,781 c. \$4,215 d. \$1,538,615 e. \$11.55

60. Calculate the difference in component value per hundred weight of milk for two farms both with 500 head of cows:

FARM A

FARM B

Pounds of milk produced per day: 42,500

Pounds of milk produced per day: 50,000

Components
Butterfat - 4.68%
Protein - 3.74%
Solids - 5.87%

Components
Butterfat - 4.33%
Protein - 3.48%
Solids - 5.84%

SCC - 205,000

SCC - 205,000

BASIS MILK VALUE

Butterfat - 1.621 per pound

Protein - 3.979 per pound

Solids - 0.0407 per pound

SCC - 0.33 per cwt

a. \$23.03

b. \$21.43

c. \$1.06

d. \$1.60

e. \$22.23

Sire Evaluation Questions – 5 pts each

Refer to Appendix B (August 2008 Genetic Evaluations for Production and Type) to answer the following questions.

61. Which of the following sires has the most reliable data for production?
 - a. Tollenaars Impuls Louie 260-ET
 - b. Forest Glen Artist Alexander
 - c. ISDK Q Impuls
 - d. Cave Creek Kanoo-ET

62. Which of the following sires would be expected to sire daughters who would generate the most profit over their lifetime?
 - a. Tollenaars Impuls Louie 260-ET
 - b. Ahlem Lemvig Abe-ET
 - c. ISDK Q Impuls
 - d. Cave Creek Kanoo-ET

63. Which of the following sires would be expected to sire daughters who would produce the most milk?
 - a. Tollenaars Impuls Legal 233-ET
 - b. Oomsdale Jace Gratude Gannon-ET
 - c. ISDK Q Impuls
 - d. Ahlem Lemvig Abe-ET

64. Which of the following sires would be expected to sire daughters who would have the highest rear udder attachments?
 - a. Oomsdale Jace Gratude Gannon-ET
 - b. Forest Glen Meccas Jevon-ET
 - c. Tollenaars Impuls Louie 260-ET
 - d. Schultz Rescue Headline

65. Which of the following sires would be expected to produce the greatest improvement in the type score of his daughters?
 - a. Oomsdale Jace Gratude Gannon-ET
 - b. Forest Glen Meccas Jevon-ET
 - b. Tollenaars Impuls Louie 260-ET
 - d. Schultz Rescue Headline

Pedigree Questions – 5 pts each

Refer to Appendix C (Heifer Pedigrees) to answer the following questions.

- #1 Lot 5
- #2 Lot 7
- #3 Lot 11
- #4 Lot 16

66. Which two heifers have a common ancestor?
- a. 1 & 2
 - b. 1 & 3
 - c. 3 & 4
 - d. 2 & 4
67. Which heifer's sire was born as the result of an embryo transfer?
- a. 1
 - b. 2
 - c. 3
 - d. 4
68. Which heifer's sire has the most daughter information available?
- a. 1
 - b. 2
 - c. 3
 - d. 4
69. Which heifer's dam produced the most milk in the most recent lactation reported on the pedigrees?
- a. 1
 - b. 2
 - c. 3
 - d. 4
70. Which is the name of the maternal grandsire of # 2?
- a. Top Acres Jet Power
 - b. Hill-N-Dale Ensign Sue ET
 - c. R Hart BC Collection *TM
 - d. Wind Mill Ensign Alena ET

HERD SUMMARY DHI-202

REPRODUCTIVE SUMMARY OF CURRENT BREEDING HERD

HELD CODE AND TYPE OF RECORD	DATE TESTED
ST. CO. HERD NO.	MO. DAY YEAR
	7 28 09
DHI-APCS	STRING 1

P A G E E	1
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PRODUCTION, INCOME, & FEED COST SUMMARY

DESCRIPTION	DAILY AVERAGE PER COW ON TEST DAY	ROLLING YEARLY HERD AVERAGES
TOTAL COWS	358	236.6
COWS IN MILK	NUMBER 303	NUMBER 198.7
	% 85	% 84
MILK LBS. (ALL COWS)	61.2	23,395
FAT LBS. (ALL COWS)	2.12	837
FAT PERCENT	3.5	3.6
PROTEIN LBS. (ALL COWS)	1.81	720
PROTEIN PERCENT	3.0	3.1
MILK LBS. (MILKING COWS)	72.4	
	MILKING COWS	
	LBS. CONSUMED	%ENE
SILAGE		
	LBS. CONSUMED	%ENE
OTHER SUPPLEMENTS OR BLENDED RATIONS		
	LBS. CONSUMED	%ENE
DRY FORAGE		
	LBS. CONSUMED	%ENE
OTHER FEEDS		
	LBS. CONSUMED	%ENE
PASTURE		
	PASTURE (YES OR NO)	%ENE
CONCENTRATES		
	LBS. CONSUMED	%ENE
VALUE OF PRODUCT \$	8.23	6.94
TOTAL COST OF CONCENTRATES \$		3,427
TOTAL FEED COST \$		
INCOME OVER FEED COST \$		
FEED COST PER CWT. MILK \$		
MILK BLEND PRICE		

ELECTRONIC METERS

BR. OF HERD	HO	TOTAL COWS IN BREEDING HERD	96
VOLUNTARY WAITING PERIOD (WVP)	60	NUMBER COWS	11
		% OF BREEDING HERD	11

COWS WITH NO SERVICE DATES OR DIAG. OPEN	OPEN OVER 100 DAYS	NUMBER DIAG. OPEN	2
	OPEN OVER 100 DAYS	NUMBER OPEN	7
		NUMBER OPEN	2

COWS BRED BUT NOT DIAG. PREG.	1	27	15	35
DAYS OPEN AT LAST SERVICE	1	28	16	37
DAYS TO 1ST SERVICE				82

REPRODUCTIVE SUMMARY OF TOTAL HERD

DAYS OPEN AT 1ST SERVICE	NUMBER FEWER THAN WVP	NUMBER OVER 100 DAYS	AVG. DAYS TO 1ST SERVICE	SERVICES PER PREGNANCY		PROJECTED (MINIMUM)
				PREG. COWS	ALL COWS	
1ST LACT	2	87	16	2.7	3.9	14.0
2ND LACT	1	57	14	3.0	3.7	14.6
3+ LACTS	1	63	18	91	4.6	14.7
ALL LACTS	3	207	48	87	3.1	4.0
% OF ALL 1ST SERVICES	1	80	19			14.5

SERVICE OR HEAT INTERVALS	NUMBER INTERVALS
LESS THAN 18	115
18-24	275
36-48	90
OTHER	311

SERVICES FOR PAST 12 MONTHS	NUMBER SERVICE	% SUC-CESSFUL	SERVICE SURE MERT \$
1ST	234	24	+435
2ND	172	24	+430
3RD+	510	22	+425
TOTAL	916	23	+429
ABORTIONS THIS MONTH	1		4
ACTUAL	3		25
APPARENT			

BIRTH SUMMARY

DAW'S LACT NUM.	MALES		FEMALES		OFFSPRING BORN				
	ALIVE	DEAD	ALIVE	DEAD	1	2	3	4&5	% 4+5
1	39	3	39	2	54	14	8	2	3
2+	65	5	60	4	87	10	14	9	8
TOTAL	104	8	99	6	141	24	22	11	6

COWS TO BE MILKING, DRY, CALVING, BY MONTH

MONTH	AUG	SEP	OCT	NOV	DEC	JAN
* MILKING	293	280	270	266	256	248
DRY	58	63	66	63	66	66
COWS TO CALVE	17	14	25	26	33	19
HEIFERS TO CALVE						

* ASSUMES 2.5% PER MONTH CULLING RATE.

YEARLY REPRODUCTIVE SUMMARY

DATE OF TEST	% HEAT'S SUCC-ESS-FUL	% PREG RATE	NUMBER SERVICES	NUMBER CONFIRM PREG.	NUMBER CALVING	TOTAL PREGNANT COWS
8-29-08	38	13	5	15	9	56
9-24-08	47	21	8	43	2	59
10-29-08	52	20	14	117	3	48
11-23-08	54	19	13	79	6	51
12-31-08	62	14	12	139	7	50
1-22-09	52	20	15	76	6	52
2-19-09	75	23	23	118	18	131
3-30-09	78	28	26	138	37	144
4-27-09	58	26	18	72	31	151
5-28-09	63	39	25	72	31	167
6-29-09	58			73	26	179
7-28-09	68			69	19	180
AVERAGES	59	23	16	84	16	106
TOTALS				1011		214

MISCELLANEOUS HERD INFORMATION

SHIPPED-TEST DAY COMPARISON	TEST DAY	YEARLY AVERAGE
SUM OF TEST DAY WTS. (LBS)	21828	15109
REPORTED AV. DAILY BULK TANK WTS. (LBS)		
% DEVIATION		

ASSOC. SUPV.	SAMPLES RECV. AT LAB	DRPC MAILED
400	MO. DAY	MO. DAY
97	7 30	7 30

REMARKS:

APPENDIX A

MILKING TIMES	WHL	SP.
1ST OR PRIOR AP	5:00 AM	Y N
2ND	5:00 PM	Y Y
3RD		

HEADCODE	DATE TESTED
	7-28-09

BREED	STRING
HQ	1

STAGE OF LACTATION PROFILE

STAGE OF LACTATION	STAGE OF LACTATION DATES					TOTAL
	1 THRU 30	31 THRU 60	61 THRU 90	91 THRU 120	121 THRU 305	
NUMBER	16	20	36	33	25	130
1ST LACT	5	7	25	17	11	65
2ND LACT	14	18	27	22	27	108
3+ LACTS	35	45	88	72	63	303
AVERAGE	70	77	74	68	55	69
DAILY	100	111	87	57	47	76
MILK	86	99	88	67	47	75
PROD- LACTION	81	91	82	65	50	73
%	4.0	3.2	3.1	3.6	4.1	3.5
1ST LACT	2.9	2.8	3.0	3.2	3.4	3.1
2ND LACT	3.8	3.1	3.2	3.7	3.7	3.5
3+ LACTS	2.8	2.9	2.9	3.2	3.4	3.1
ALL LACTS	4.0	3.3	3.5	3.5	4.0	3.7
PROT.	3.0	2.7	2.9	3.1	3.3	3.0
ALL LACTS	4.0	3.3	3.3	3.6	4.0	3.6
PROT %	2.9	2.8	2.9	3.2	3.4	3.1
1ST LACT	327	115	123	271	184	194
2ND LACT	44	79	465	449	452	357
3+ LACTS	232	196	484	614	276	374
ALL LACTS	236	143	341	415	265	295
SCC	8	10	20	28	24	90
SCORE	23	22	23	39	38	30
> 3.9						

WEIGHTED SCC (NEAREST 1,000)

YEARLY PRODUCTION AND MASTITIS SUMMARY

DATE OF TEST	DAYS TEST PERIOD	NUMBER OF COWS IN TEST DAY	TEST DAY AVERAGES		STANDARDIZED 150 DAY MILK	TEST PERIOD PERSIST INDEX
			MILKING DOWNS	MILK		
MONTH DROPPED	35	118	189	80.5	89.8	104
8-29-08	29	118	191	83.0	93.1	106
9-24-08	26	119	204	83.8	94.3	101
10-29-08	35	118	200	79.6	92.0	95
11-23-08	25	119	197	81.1	91.2	100
12-31-08	38	123	213	74.8	86.5	93
1-22-09	22	126	208	71.4	80.9	98
2-19-09	28	358	196	78.3	86.6	103
3-30-09	39	344	193	77.6	83.7	96
4-27-09	28	342	195	76.4	82.8	99
5-28-09	31	335	205	77.4	85.6	103
6-29-09	32	349	209	70.8	80.8	93
7-28-09	29	358	203	72.4	81.8	102
AVERAGES	30	234	201	77.2	86.6	99

TEST PERIOD	DAYS IN MILK	TEST DAY AVERAGES		% PROT.	ROLLING YEARLY HEUD AVERAGE
		MILK	% FAT		
1ST LACT	80	64.0	3.6	3.1	23926
2ND LACT	89	63	3.6	3.1	24002
3+ LACTS	126	90	7	5.5	24085
ALL LACTATIONS	215	79	23	10.8	24117

TEST PERIOD	DAYS IN MILK	TEST DAY AVERAGES		% PROT.	ROLLING YEARLY HEUD AVERAGE	SOMATIC CELL COUNT SUMMARY										
		MILK	% FAT			3.123	4	5	7.5	Avg. SCC	WT. AVG. ACTUAL SCC	NUMBER LEFT HERD				
1ST LACT	80	64.0	3.6	3.1	23926	914	765	49	15	14	13	9	3.7	455	2	2
2ND LACT	89	63	3.6	3.1	24002	916	768	68	12	8	8	6	3.0	278	1	1
3+ LACTS	126	90	7	5.5	24085	919	769	64	9	10	10	7	3.2	380		
ALL LACTATIONS	215	79	23	10.8	24117	917	770	52	18	12	13	5	3.4	260	1	5

IDENTIFICATION AND GENETIC SUMMARY

AGE GROUP	NUMBER ANIMALS	AVG. AGE	NUM. IDENTIFIED BY	NUMBER	WD. ANIMALS	AVERAGE MERIT \$
0-12						
13+						
1ST LACT	142	2-01	142	142		+225
2ND LACT	89	3-03	89	89		+190
3+ LACTS	127	5-04	127	127		+160
ALL LACTS	358	3-06	358	358		+185
% IDENTIFIED			100	100		

HERD MERIT \$	GENETIC PROFILE
100	PROVEN A.I. Sires
23	AVG. Sires
+469	OTHER Sires
84	ALL OTHER Sires

PRODUCTION BY LACTATION SUMMARY

AGE GROUP	NUMBER OF COWS	AVG. AGE	PEAK MILK	SUMMIT MILK	PROJ ME 305 DAY		DIFFERENCE FROM HERDMATES	BODY WEIGHT
					FAT	PROTEIN		
1ST LACT	142	25	90	84	27165	921	803	+830
2ND LACT	89	39	113	111	28886	991	858	+2104
3+ LACTS	127	64	120	112	26837	949	789	+294
ALL LACTATIONS	358	42	106	101	27498	949	812	+993

YEARLY SUMMARY OF COWS ENTERED AND LEFT THE HERD

TEST PERIOD	DAYS IN MILK	TEST DAY AVERAGES		% PROT.	ROLLING YEARLY HEUD AVERAGE	NUMBER OF COWS LEFT THE HERD										
		MILK	% FAT			ENTERED	LEFT HERD	DAIRY	LOW REPO.	MAST.	UDDER	FEET & OR OTHER				
1ST LACT	80	64.0	3.6	3.1	23926	914	765	49	15	14	13	9	3.7	455	2	2
2ND LACT	89	63	3.6	3.1	24002	916	768	68	12	8	8	6	3.0	278	1	1
3+ LACTS	126	90	7	5.5	24085	919	769	64	9	10	10	7	3.2	380		
ALL LACTATIONS	215	79	23	10.8	24117	917	770	52	18	12	13	5	3.4	260	1	5

% LEFT HERD FOR INVOLUNTARY REASONS

CURRENT SOMATIC CELL COUNT SUMMARY

HERD PRODUCTION	MILK	LOST FROM SCC
14,498	1,703	1,703

Sire Summary Information

August 2009 Genetic Evaluation for Production


Name of Bull	Registration Number	MAAB Code	No. Hds	No. Daus	% RIP	REL %	Milk %	Fat %	Fat Pct	Prot %	Prot Pct	CMS	NMS	FMS	SCS	PL	DPR	EFI	NMS %ile	JPI	JPI REL	
TOLLENAARS IMPULS LOUIE 280-ET	USA 061929276	14JE473	50	87	75	88	2048	-0.05	84	-0.08	57	569	582	597	3.03	4	1.4	5.3	100	288	81	
TOLLENAARS IMPULS LEGAL 233-ET	USA 061929249		19	33	86	77	972	0.04	82	0.04	42	588	560	514	2.8	5.8	1.1	5	99	275	69	
SCHULTZ RESCUE HEADLINE	USA 114114336		23	44	93	83	1731	-0.15	48	-0.08	43	529	551	583	2.85	6.4	0.9	8.3	98	277	76	
OWSDALE JACE GRATITUDE GANNON-ET	USA 067010228	1JE604	49	95	11	92	2245	-0.11	81	-0.11	58	496	519	551	2.78	2.8	-0.1	8.5	97	272	87	
ISDK Q IMPULS	DNK 000301592	236UE3	1,343	11,445	21	98	808	0.2	74	0.12	52	569	510	413	3.1	3.5	1.3	2.2	97	261	98	
FOREST GLEN ARTIST KARL	USA 067037285		9	22	38	92	1503	0.07	82	0	53	519	504	475	3.01	2.7	-0.8	5	97	260	64	
FOREST GLEN ARTIST ALEXANDER	USA 067037158	14JE472	58	102	65	89	714	0.18	65	0.04	32	525	502	464	2.97	5	1.4	5.6	97	228	82	
AHLEM LEWIG ABE-ET	USA 111334898		98	289	3,201	40	99	1154	0.13	77	0.05	51	533	499	441	3.02	4.1	-0.7	6.1	97	243	98
DENKEL JACE LOVABULL-P	USA 114223573	1JE630	44	63	90	83	1153	0.18	87	-0.01	39	503	495	479	2.75	2.6	-0.6	8.1	97	236	72	
FOREST GLEN WECOS JEYON-ET	USA 112797481		6	41	95	9	1433	0.04	73	-0.04	43	491	494	495	2.95	4.5	0.1	6.6	97	232	84	
ISDK JAS BUNGY	DNK 000301617		5	736	7,027	50	471	0.18	54	0.08	32	528	491	429	2.79	4.3	2.6	1.9	95	220	84	
SUNSET CANNON RP MULTIA-ET	USA 111953541		0	98	251	85	709	0.17	63	0.09	41	515	474	405	3.2	4.9	1.5	6	94	238	88	
CAVE CREEK KANOO-ET	USA 114118219		2	6	34	97	72	994	0.15	73	0.05	45	501	469	415	3.14	3.2	1	3.6	94	234	62
SR IMPULS STONE-ET	USA 114332783	1JE634	8	15	87	71	1228	0.05	66	0.04	50	487	461	415	3.01	2.9	0	5.4	92	248	65	
TOLLENAARS ARTIST LYNDON-ET	USA 061929278		8	21	38	89	1318	-0.03	54	-0.03	40	459	459	456	2.96	3.7	0.4	5.4	92	231	70	
CAVE CREEK KWARTZ-ET	USA 114118198	7JEE17	50	90	88	88	1847	-0.04	76	-0.08	50	444	459	478	3.06	2.8	0.8	3.6	92	217	79	
SR ARTIST WARRIOR	USA 114332774	1JE633	12	42	86	80	1930	-0.15	59	-0.09	51	435	453	477	3.04	3.4	-0.1	4.9	92	218	72	
CAL-MART JACE SIMBA	USA 113891423		7	30	82	83	1619	-0.01	72	0.01	59	456	436	398	2.94	1.1	-0.6	8.7	90	222	77	
ALTMONT MH FANTOM	USA 113636848	7JEE42	52	80	12	90	460	0.06	32	0.03	22	434	417	389	2.9	5.9	0.9	6.7	89	213	84	
RICHES JACE TBONE A364	USA 113672851	7JEE1000	32	788	55	94	834	0.19	73	0.09	46	448	403	327	3.04	1.1	-0.9	8.6	84	232	91	

August 2009 Genetic Evaluation for Type

	Type Hds		Type Daus		Type REL		FS	ST	SR	DF	RA	RW	RL	FA	FU	RH	RUW	UC	UD	TP	TL	JU
	Hds	Daus	REL	FS	ST	SR																
TOLLENAARS IMPULS LOUIE 280-ET	32	44	79	1.3	1.8	1.2	1.3	L0.8	0.7	P0.2	S1.0	0.4	1.2	0.7	0.8	0.8	0.0	C0.1	L0.2	2.41		
TOLLENAARS IMPULS LEGAL 233-ET	6	11	63	2	0.7	0.9	H0.8	0.7	P0.2	S1.3	2.4	1.6	0.6	1	S2.5	C2.4	S0.2	L0.2	6.36			
SCHULTZ RESCUE HEADLINE	8	10	69	1.9	1.8	0.4	L1.8	0.3	S0.4	S0.4	2.3	2.9	1.1	0.5	S1.9	C1.2	L0.5	L0.5	7.76			
OWSDALE JACE GRATITUDE GANNON-ET	38	72	88	1.7	4.2	2.5	L1.0	1.9	S0.5	S0.3	0.7	2.2	2.1	1.4	DO.4	CO.4	L2.2	5.09				
ISDK Q IMPULS	694	5,813	99	1	1.6	0.7	L0.4	0.6	P0.5	S0.8	0.7	1.1	-0.6	0.1	S1.2	CO.4	L0.1	L0.1	2.50			
FOREST GLEN ARTIST KARL	5	5	48	1.3	0.1	0.2	L0.2	0.2	0.0	S0.8	1.2	1.5	0.5	0.4	S1.6	CO.5	L0.4	4.59				
FOREST GLEN ARTIST ALEXANDER	42	62	82	1.1	-0.1	-0.4	H1.5	-0.1	S0.1	S0.7	1.2	0.7	0.5	0.2	S1.9	CO.7	S0.2	3.73				
AHLEM LEWIG ABE-ET	183	2,280	99	0.9	-0.3	0.7	L1.4	0.3	S0.3	S0.5	0.8	0.7	0.1	-0.3	S0.1	C1.3	S1.0	1.39				
DENKEL JACE LOVABULL-P	13	16	61	1.9	1.9	0.6	L0.1	0.4	S0.2	S0.8	1.3	1.4	1.2	1.2	S0.9	C1.9	L0.6	4.69				
FOREST GLEN WECOS JEYON-ET	10	32	78	1.1	-0.4	0.5	H0.5	0.1	S0.6	L0.4	0.3	1.8	2.5	1.2	D1.2	CO.6	L1.3	3.80				
ISDK JAS BUNGY	344	3,688	75	0.6	-0.6	1	H1.3	0.5	P0.3	S1.2	0.4	0.7	0.1	0.6	S0.8	W0.3	S0.8	1.75				
SUNSET CANNON RP MULTIA-ET	43	82	87	1.1	3.5	0.6	L0.6	0.6	P0.7	S1.5	-0.2	0.9	0.1	0.9	S1.4	W1.0	L1.1	2.71				
CAVE CREEK KANOO-ET	3	7	52	1.1	0.3	0	0.8	0.0	P0.1	S0.6	0.7	0.9	-0.5	0.8	S1.1	CO.6	L0.3	2.34				
SR IMPULS STONE-ET	3	5	60	1.5	2.1	0.5	L0.3	0.7	S0.1	S0.6	1.2	1.9	1	0.2	S1.4	C2.1	S1.0	5.33				
TOLLENAARS ARTIST LYNDON-ET	4	5	59	1.4	-0.1	0.1	H0.8	0.4	P0.2	S1.3	1.6	1.7	0.7	0.5	S1.5	CO.7	L0.1	5.03				
CAVE CREEK KWARTZ-ET	16	23	71	0.5	1.3	0.5	L0.3	0.5	S0.3	S0.2	-0.3	-0.1	-1.1	0.4	0.0	CO.2	L0.4	-0.99				
SR ARTIST WARRIOR	4	12	66	0.7	-0.9	-0.6	H0.7	-0.4	P0.4	S0.2	0.1	1	0.4	0	DO.4	W0.6	L0.6	1.30				
CAL-MART JACE SIMBA	8	10	66	0.9	0.1	0.4	L0.8	0.1	S0.2	S0.2	0	0.8	0.9	0.4	D1.3	CO.8	L0.8	0.85				
ALTMONT MH FANTOM	29	38	81	1.8	2.3	1.1	L1.4	0.3	P0.8	S1.4	2.2	1.8	0.6	1	S3.3	C1.6	L0.7	7.40				
RICHES JACE TBONE A364	25	637	98	2.3	1.9	0.8	L0.4	0.8	S0.4	S1.2	2	2	1.5	0.7	S1.5	C3.2	L0.7	6.83				

Appendix C – Heifer Pedigrees

#1

\$ _____ Lot 5  Pending ET: Persia X Jet Pilot (M*)

Born: 03/15/2009 Tattoo:
Current Owner:
Jeff Woods & Kevin Winter
Madison, WI

Parent Average: PPR: +87 PTAT: +0.9 (04/09)
PA: +350m +26f +13p +151NM\$

3rd Dam:

SUN-MADE GARBRO G PETAL ET 885643 'E92'
02/04 365d 2X 27070 5.2 1412 3.9 1050 DHIR
04/00 305d 2X 24590 5.1 1265 3.5 855 DHIA

4th Dam:

TOP ACRES PRESENT ET 833043
E94 - Certified - Superior Brood Cow
04/00 365d 2X 40190 4.9 1966 3.5 1405 DHIR

5th Dam:

ARNOLA PEGGY PRISCILLA 717943
E91 - Elite - Superior Brood Cow
04/10 365d 2X 30800 4.4 1348 3.2 974 DHIR
NAI TOTAL PERF 1991

TOP ACRES JET PILOT ET (M*) 191611

Not Classified
PPR: +46 91%R PTAT: +1.1 94%R (04/09)
PTA: +319m +20f +5p +30NM\$ 95%R
PTA PL: +0.2 SCS: +2.95 DPR: -1.8 SCE: +8
193 dau. av. 22596 4.1 917 3.3 741
138 class. dau. av. FS:85.5 UDC:1.08

SUN-MADE GB AGNDA PERSIA ET 951155

Not Classified
Parent Average PPR: +128 PTAT: +0.7
PA: +382m +32f +22p +273NM\$
* ALL AMERICAN FALL HFR CALF 07
* RES ALL AMERICAN FALL YRLG HFR 08
* RES JR CHAMP CENTRAL NATIONAL 07
* 2nd FALL YRLG HFR CENTRAL NATIONAL 08
* 1st FALL YRLG HFR WESTERN NAT CA 08
* 1st FALL HFR CALF CENTRAL NATIONAL 07
* 1st FALL YRLG HFR ROYAL WINTER FAIR 08
* 1st FALL YRLG HFR WESTERN WA FAIR 08

6th Dam:

ARNOLA PAULINE PEGGY 683395
4E90 - Certified - Superior Brood Cow
07/07 365d 2X 28410 3.5 1002 3.2 903 DHIR

FOREST LAWN SIMON JETWAY ET(M) 185301 E90

PPR: -15 99%R PTAT: +0.8 99%R (04/09)
PTA: +189m +3f -3p -163NM\$ 99%R (MACE)
PTA PL: -2.0 SCS: +3.01 DPR: -3.2 SCE: +8

TOP ACRES EMORY PRICE ET 812274

16/00 5E-E94 E95 E96 E97 E94 E93 (05/07) *CERT*
PPR: +47 PTAT: +0.4 *SUPR BRD COW*
PTA: +689m +29f +4p +135NM\$ 58%\$ (04/09)
02/05 365d 2X 27560 4.7 1305 3.6 986 DHIR
04/07 365d 2X 25480 4.9 1258 3.6 920 DHIR
06/00 365d 2X 28890 4.9 1420 3.4 965 DHIR
08/11 365d 2X 33300 5.0 1678 2.9 962 DHIR
Lifetime: 2553d 185638m 8891f 6364p
* AGED COW NOM ALL AMERICAN 01
* 2nd & 2nd BU COMP MERIT COW CENTRAL NAT 01
* 5th AGED COW EASTERN NATIONAL 97
* RES GRAND CHAMP OH STATE FAIR 01

BLESSING BANKER AGENDA ET *TM 194882

Not Classified *QUALIFIED SIRE*
PPR: +113 86%R PTAT: +0.8 82%R (04/09)
PTA: +15m +32f +13p +267NM\$ 91%R (MACE)
PTA PL: +3.7 SCS: +2.82 DPR: -1.0 SCE: +4

SUN-MADE GARBRO EG PATSY ET 920617

05/11 E93 E93 E93 E94 E90 E93 (01/09) *CERT*
PPR: +144 PTAT: +0.5
PTA: +749m +32f +31p +279NM\$ 89%\$ (04/09)
02/05 365d 2X 27870 4.9 1376 3.7 1020 DHIR
05/02 305d 2X 45080 5.0 2258 3.4 1511 DHIR

#2

\$ _____ Lot 7  Voelkers PS Ambrille 68109346

Born: 03/20/2009 Tattoo: 1406 both ears
Current Owner:
VOELKER, SUZANNE
PERRYVILLE MO

Not Classified

Parent Average PPR: +101 PTAT: +1.2
PA: +737m +6f +24p +181NM\$

3rd Dam:

WIND MILL IMPROVER ALANNA 734541
V87 - E90ms *Superior Brood Cow* *Certified*
09/06 365d 2X 27430 3.5 959 3.6 981 DHIR
Lifetime: 2692d 161990m 5844f 5916p

TOP ACRES POWER SURGE *TM 196004 NC

PPR: +63 82%R PTAT: +1.3 80%R (04/09)
PTA: +789m -3f +21p +93NM\$ 89%R
PTA PL: +2.2 SCS: +3.29 DPR: +0.3 SCE: +5
83 dau. av. 23684 3.8 905 3.3 771
33 class. dau. av. FS:84.3 UDC:0.45

VOELKERS COLLECTION AMBER 891914

06/03 2E-E92 E91 E92 E91 E93 E91 (02/06) *CERT*
PPR: +139 PTAT: +1.1
PTA: +684m +15f +27p +268NM\$ 87%\$
DEV: +1884m +47f +71p (04/09)
02/03 302d 2X 17950 3.7 662 3.3 592 DHIR
03/03 360d 2X 22580 3.5 801 3.4 770 DHIR
04/06 323d 2X 22310 4.1 925 3.6 799 DHIR
05/07 323d 2X 24450 4.2 1038 3.4 839 DHIR
06/07 332d 2X 17990 3.9 707 3.4 620 DHIR
08/01 365d 2X 27030 4.5 1229 3.3 897 DHIR
Lifetime: 2039d 132640m 5377f 4530p
* NCM ALL AMERICAN 4 YR OLD 04
* 5th AGED COW SOUTHEAST NATIONAL 06
* 2nd 5 YR OLD SOUTHEAST NATIONAL 05
* 5th 4 YR OLD CENTRAL NATIONAL 04
* 4th SR 3 YR OLD SOUTHEAST NATIONAL 03
* 4th FALL YRLG HFR SOUTHEAST NATIONAL 01
* GRAND CHAMPION MO STATE FAIR 02 03
* HM ALL AMERICAN SR BEST 3 FMLS MEMBER 04
* HM ALL AMERICAN JR BEST 3 FMLS MEMBER 01

TOP ACRES JET POWER ET 191610 NC

PPR: +17 88%R PTAT: +0.3 82%R (04/09)
PTA: +695m +14f +6p +22NM\$ 89%R (MACE)
PTA PL: +0.2 SCS: +3.08 DPR: -0.7 SCE: +6

HILL-N-DALE ENSIGN SUE ET 841967

12/09 3E-E93 E94 E93 E92 E90 E95 (12/06) *CERT*
PPR: +54 PTAT: +1.1
PTA: +479m -15f +12p +128NM\$ 56%\$ (04/09)
03/01 365d 2X 28130 4.2 1170 3.4 950 DHIR
04/04 365d 2X 36360 3.7 1348 3.5 1255 DHIR
06/02 365d 2X 34630 4.8 1656 3.5 1195 DHIR
07/11 266d 2X 26220 4.7 1233 3.1 825 DHIR
Lifetime: 1840d 162010m 6847f 5610p
* ALL AMERICAN 4 & 5 YR OLD 98 99
* RES ALL AMERICAN AGED COW 00
* RES ALL AMERICAN SR 3 YR OLD 97

R HART BC COLLECTION *TM 189182 E93

PPR: +43 98%R PTAT: +0.7 99%R (04/09)
PTA: +445m +22f +19p -48NM\$ 99%R (MACE)
PTA PL: -3.5 SCS: +3.01 DPR: -2.1 SCE: +5

WIND MILL ENSIGN ALENA ET 833750

08/06 2E-E93 E91 E94 E94 E95 E92 (04/02) *CERT*
PPR: +96 PTAT: +0.7
PTA: +289m -9f +15p +255NM\$ 85%\$ (04/09)
03/06 296d 2X 17010 3.8 644 3.7 633 DHIR
04/05 365d 2X 18880 3.8 725 3.7 693 DHIR
06/00 349d 2X 23340 4.2 981 3.7 856 DHIR
07/01 342d 2X 22610 3.9 879 3.6 807 DHIR
Lifetime: 1954d 114160m 4533f 4204p
* RES GRAND CHAMP MO STATE FAIR 01
* RES GRAND CHAMP MID-SOUTH FAIR 00
* 1st AGED COW MO STATE FAIR 01

#3

\$ _____ Lor 11 Vinra Dynasty Charming - pending

Born: 04/07/2009 Tattoo:
Current Owner:
NISLY, CONRAD
HUTCHINSON KS

Parent Average PPR: +47 PTAT: +0.9 (04/09)
PA: +222m +4f +10p +60NM\$

3rd Dam:

SHEN-VAL EMORY CARMEN ET 861291
'V88 - Certified'
04/03 365d 2X 22991 4.4 1019 3.7 855 DHIR
* 1st FALL YRLG HFR OZARK EMPIRE FAIR 97

4th Dam:

SHEN-VAL JADE CRISSY ET 787822
"4E92 - Certified"
11/04 365d 2X 39110 3.8 1471 3.6 1422 DHIR
NAT TOTAL PERF 2001

HILLTOP ACRES EN DYNASTY ET*TM 193371
Not Classified
PPR: +71 98%R PTAT: +1.1 98%R (04/09)
PTA: +935m +10f +25p +55NM\$ 99%R (MACE)
PTA PL: -0.1 SCS: +3.11 DPR: -3.1 SCE: +4
2413 dau. av. 23511 3.9 909 3.2 764
956 class. dau. av. FS:83.7 UDC:0.63

VINRA ZEUS CHARMING 951102

Not Classified
Parent Average PPR: +23 PTAT: +0.8
PA: -490m -1f -5p +65NM\$

4th Dam:

ELM BROOK PROUD CANDACE (W') 717014
"2E90 - Elite"
04/11 365d 2X 32170 4.1 1315 3.4 1107 DHIR
NAT PROTEIN AWARD 1987

R HART SIMON ENSIGN ET 184138 V88
PPR: +66 98%R PTAT: +0.7 99%R (04/09)
PTA: +600m -10f +2p +216NM\$ 99%R (MACE)
PTA PL: +6.2 SCS: +2.96 DPR: -0.4 SCE: +5

HILLTOP ACRES PT DREAMER ET 862391 NC

PPR: +148
PTA: +1445m +55f +48p +193NM\$ 72%\$
DEV: +5805m +215f +174p (04/09)
02/04 267d 2X 23760 4.0 950 3.4 796 DHIR

RED BRAE PRELUDE ZEUS (M) 193849 NC

PPR: +73 94%R PTAT: +1.1 93%R (04/09)
PTA: -475m +6f +3p +182NM\$ 97%R (MACE)
PTA PL: +2.6 SCS: +2.84 DPR: +1.1 SCE: +6

GRIMM PRIMETIME CARMEL ET 936321

03/09 V87 E90 V88 V87 G79 E90 (06/08)
PPR: -25 PTAT: +0.5
PTA: -505m -8f -12p -52NM\$ 14%\$ (04/09)
02/00 337d 3X 16310 4.2 680 3.5 571 DHIR
03/01 320d 3X 16500 3.8 634 3.2 534 DHIR

#4

\$ _____ Lor 16 Frosted Beauty Zeus Sassy 68110677

Born: 03/12/2009 Tattoo: 296
Current Owner:
FROSTED BEAUTY SWISS
EPWORTH IA

Parent Average PPR: +35 PTAT: +0.6 (04/09)
PA: -610m +5f -5p +125NM\$

3rd Dam:

BLESSING KOHL SHIRLEY 761983 '4E90'
10/01 365d 2X 29630 4.7 1382 3.6 1070 DHIR
Lifetime: 2936d 197320m 8523f 7393p

4th Dam:

BLESSING BEAUTICIAN KING SHIRL 674233
"2E90"
08/10 365d 2X 24430 4.1 1004 3.5 856 DHIR

RED BRAE PRELUDE ZEUS (M) 193849

Not Classified
PPR: +73 94%R PTAT: +1.1 93%R (04/09)
PTA: -475m +6f +3p +182NM\$ 97%R (MACE)
PTA PL: +2.6 SCS: +2.84 DPR: +1.1 SCE: +6
514 dau. av. 22055 4.1 909 3.4 740
229 class. dau. av. FS:84.1 UDC:1.85

KULP TERRA JAMES SECRET ET 941396

Not Classified
Parent Average PPR: -3 PTAT: +0.2
PA: -746m +5f -14p +69NM\$
*02/02 305d 2x 16010 4.6 731 3.5 566 DHIA

BETTA VUE EMORY PRELUDE ET 187668 E91
PPR: +7 99%R PTAT: +0.3 99%R (04/09)
PTA: +470m -3f +12p -86NM\$ 99%R (MACE)
PTA PL: -1.4 SCS: +3.10 DPR: -2.2 SCE: +5

RED BRAE PATRICK ZADEVA 838249

04/11 E92 E94 E93 E91 V89 E92 (03/99) *CERT*
PPR: +153 PTAT: +1.0 *SUPR BRD COW*
PTA: +282m +39f +22p +396NM\$ 98%\$ (04/09)
02/02 351d 2X 17970 4.3 768 3.9 698 DHIR
03/02 332d 2X 21420 4.3 929 3.7 800 DHIR
04/03 365d 2X 23960 5.5 1323 3.7 875 DHIR
05/04 365d 2X 27940 4.9 1372 3.7 1033 DHIR
* ALL AMERICAN JR 2 & 3 YR OLD 96, 97
* NOM ALL AMERICAN 4 YR OLD 98
* 4th 4 YR OLD CENTRAL NATIONAL 98
* 1st JR 2 & 3 YR OLD CENTRAL NATIONAL 96, 97

SCF EMORY JAMES 192909 E90

PPR: +31 86%R PTAT: +0.6 92%R (04/09)
PTA: -533m +15f -5p +113NM\$ 91%R
PTA PL: +1.5 SCS: +2.91 DPR: +0.1 SCE:

BLESSING PR SHIRLAN 834448

09/05 3E-E93 E95 E96 E95 E92 E92 (11/02) *CERT*
PPR: -37 PTA: -959m -5f -23p +24NM\$ 28%\$ (04/09)
04/00 305d 2X 24140 5.1 1228 3.7 884 DHIA
05/00 365d 2X 31740 5.7 1804 3.5 1117 DHIR
06/01 365d 2X 28880 4.9 1419 3.8 1092 DHIR
08/02 365d 2X 30440 5.2 1578 3.4 1041 DHIR
Lifetime: 2433d 172140m 8642f 6233p
* NAT TOTAL PERFORMANCE 00
* ALL AMERICAN 5 YR OLD 98
* RES ALL AMERICAN 4 YR OLD 97
* HM ALL AMERICAN AGED COW 01
* HM ALL AMERICAN JR 3 YR OLD 96

Please Use Placing Class Card for the next three sections.

Phase E – Pedigree Evaluation

Refer to Appendix C (Heifer Pedigrees) to rank the animals based on their pedigree and indicate your ranking on the answer sheet.

- #1 Lot 5
- #2 Lot 7
- #3 Lot 11
- #4 Lot 16

Phase F – Sire Evaluation

You are a commercial dairy producer who wants moderate sized cows that have good, well-attached udders and sound feet and legs as these cows do best in your system. Furthermore, you prefer cows with good production and high components to cows with high production but low components. You currently have a large group of breeding age heifers that you would like to breed to the same bull with the hope of being one of the first dairy producers to have several milking daughters of the next “hot” bull. Consequently, you want to use one of the following four sires who only have a genomic proof. Which sire should be your first, second, third, and fourth choice to use on these heifers?

		Sire # 1	Sire # 2	Sire # 3	Sire # 4
		Adam	Brad	Carl	Dave
No.	herd	0	0	0	0
No.	daughters	0	0	0	0
%	Rel	74	73	73	73
PTA	Milk	2182	2060	1360	2258
PTA	Fat	114	58	71	83
PTA	Fat %	0.18	-0.06	0.08	0.00
PTA	Pro	71	68	51	66
PTA	Pro %	0.07	0.02	0.04	0.00
PTA	SCC	2.74	2.88	2.88	2.82
	PL	5.0	7.3	7.3	6.0
	DPR	-1.4	1.9	2.8	0.8
	NM\$	837	825	824	800
PTA	Type	4.34	3.46	3.39	4.00
TPI		2410	2354	2385	2332
SCE		6	8	5	9
DCE		5	7	4	8
UC		3.59	3.58	3.85	3.31
FLC		3.29	3.11	3.74	2.11
PTA	ST	2.98	2.51	3.18	3.91
PTA	SR	2.43	1.23	2.37	2.13
PTA	BD	2.25	0.60	1.89	2.77
PTA	DF	2.82	0.83	1.11	2.87
PTA	RA	-0.13	-0.89	0.70	1.15
PTA	TW	2.56	1.39	2.67	2.07
PTA	RLS	-0.18	0.37	-2.08	0.46
PTA	RLR	3.73	3.04	4.10	2.71
PTA	FA	3.53	3.60	4.93	2.38
PTA	FLScore	3.48	3.42	3.29	2.15
PTA	FU	4.47	4.08	4.91	4.04
PTA	RH	5.62	3.92	4.65	4.03
PTA	RW	5.35	3.52	4.30	3.60
PTA	UC	3.82	3.77	3.54	2.29
PTA	UD	2.43	4.04	3.80	3.41
PTA	FT	3.28	3.26	3.62	1.33
PTA	RT	3.48	3.76	3.56	1.47
PTA	TL	0.97	-1.23	-1.66	0.82


Phase G – Culling Class

You milk in a tie-stall barn and want to keep a milking cow in every stall and not have to shift cows in and out to get them all milked. All dry cows are housed elsewhere. You sell your milk based on components, with really nice premiums paid for selling high quality milk. You had a first-calf heifer calve this morning and you want to cull one of the following four cows to make room for this fresh heifer. Use the attached Cow Pages (Appendix D – 130 Cow Page DHI-230) to place the cows in the order that you would cull them from your herd. The first cow you would cull should be ranked #1 and the last cow you would cull should be ranked #4.

- Cow #1 - Barn Name 5-6355 Index No. 6355 bred 8/7/09 (for 7X)
Most recent test: 55 lb milk, 3.4% F, 3.1% P, 107 SCC
- Cow #2 - Barn Name 7-6618 Index No. 6618 bred 8/21/09 (for 5X)
Most recent test: 90 lb milk, 2.8% F, 2.8% P, 1493 SCC
- Cow #3 - Barn Name 7-6795 Index No. 6795 bred 8/14/09 (for 10X)
Most recent test: 66 lb milk, 3.5% F, 3.2% P, 606 SCC
- Cow #4 - Barn Name 6872 Index No. 6872 bred 8/3/09 (for 5X)
Most recent test: 80 lb milk, 3.2% F, 3.1% P, 606 SCC

Appendix C – Heifer Pedigrees

#1

\$ _____ Lot 5  Pending ET: Persia X Jet Pilot (M*)

Born: 03/15/2009 Tattoo:
Current Owner:
Jeff Woods & Kevin Winter
Madison, WI

Parent Average: PPR: +87 PTAT: +0.9 (04/09)
PA: +350m +26f +13p +151NM\$

3rd Dam:

SUN-MADE GARBRO G PETAL ET 885643 'E92'
02/04 365d 2X 27070 5.2 1412 3.9 1050 DHIR
04/00 305d 2X 24590 5.1 1265 3.5 855 DHIA

4th Dam:

TOP ACRES PRESENT ET 833043
E94 - Certified - Superior Brood Cow
04/00 365d 2X 40190 4.9 1966 3.5 1405 DHIR

5th Dam:

ARNOLA PEGGY PRISCILLA 717943
E91 - Elite - Superior Brood Cow
04/10 365d 2X 30800 4.4 1348 3.2 974 DHIR
NAI TOTAL PERF 1991

TOP ACRES JET PILOT ET (M*) 191611

Not Classified
PPR: +46 91%R PTAT: +1.1 94%R (04/09)
PTA: +319m +20f +5p +30NM\$ 95%R
PTA PL: +0.2 SCS: +2.95 DPR: -1.8 SCE: +8
193 dau. av. 22596 4.1 917 3.3 741
138 class. dau. av. FS:85.5 UDC:1.08

SUN-MADE GB AGNDA PERSIA ET 951155

Not Classified
Parent Average PPR: +128 PTAT: +0.7
PA: +382m +32f +22p +273NM\$
* ALL AMERICAN FALL HFR CALF 07
* RES ALL AMERICAN FALL YRLG HFR 08
* RES JR CHAMP CENTRAL NATIONAL 07
* 2nd FALL YRLG HFR CENTRAL NATIONAL 08
* 1st FALL YRLG HFR WESTERN NAT CA 08
* 1st FALL HFR CALF CENTRAL NATIONAL 07
* 1st FALL YRLG HFR ROYAL WINTER FAIR 08
* 1st FALL YRLG HFR WESTERN WA FAIR 08

6th Dam:

ARNOLA PAULINE PEGGY 683395
4E90 - Certified - Superior Brood Cow
07/07 365d 2X 28410 3.5 1002 3.2 903 DHIR

FOREST LAWN SIMON JETWAY ET(M) 185301 E90

PPR: -15 99%R PTAT: +0.8 99%R (04/09)
PTA: +189m +3f -3p -163NM\$ 99%R (MACE)
PTA PL: -2.0 SCS: +3.01 DPR: -3.2 SCE: +8

TOP ACRES EMORY PRICE ET 812274

16/00 5E-E94 E95 E96 E97 E94 E93 (05/07) *CERT*
PPR: +47 PTAT: +0.4 *SUPR BRD COW*
PTA: +689m +29f +4p +135NM\$ 58%\$ (04/09)
02/05 365d 2X 27560 4.7 1305 3.6 986 DHIR
04/07 365d 2X 25480 4.9 1258 3.6 920 DHIR
06/00 365d 2X 28890 4.9 1420 3.4 965 DHIR
08/11 365d 2X 33300 5.0 1678 2.9 962 DHIR
Lifetime: 2553d 185638m 8891f 6364p
* AGED COW NOM ALL AMERICAN 01
* 2nd & 2nd BU COMP MERIT COW CENTRAL NAT 01
* 5th AGED COW EASTERN NATIONAL 97
* RES GRAND CHAMP OH STATE FAIR 01

BLESSING BANKER AGENDA ET *TM 194882

Not Classified *QUALIFIED SIRE*
PPR: +113 86%R PTAT: +0.8 82%R (04/09)
PTA: +15m +32f +13p +267NM\$ 91%R (MACE)
PTA PL: +3.7 SCS: +2.82 DPR: -1.0 SCE: +4

SUN-MADE GARBRO EG PATSY ET 920617

05/11 E93 E93 E93 E94 E90 E93 (01/09) *CERT*
PPR: +144 PTAT: +0.5
PTA: +749m +32f +31p +279NM\$ 89%\$ (04/09)
02/05 365d 2X 27870 4.9 1376 3.7 1020 DHIR
05/02 305d 2X 45080 5.0 2258 3.4 1511 DHIR

#2

\$ _____ Lot 7  Voelkers PS Ambrille 68109346

Born: 03/20/2009 Tattoo: 1406 both ears
Current Owner:
VOELKER, SUZANNE
PERRYVILLE MO

Not Classified

Parent Average PPR: +101 PTAT: +1.2
PA: +737m +6f +24p +181NM\$

3rd Dam:

WIND MILL IMPROVER ALANNA 734541
V87 - E90ms *Superior Brood Cow* *Certified*
09/06 365d 2X 27430 3.5 959 3.6 981 DHIR
Lifetime: 2692d 161990m 5844f 5916p

TOP ACRES POWER SURGE *TM 196004 NC

PPR: +63 82%R PTAT: +1.3 80%R (04/09)
PTA: +789m -3f +21p +93NM\$ 89%R
PTA PL: +2.2 SCS: +3.29 DPR: +0.3 SCE: +5
83 dau. av. 23684 3.8 905 3.3 771
33 class. dau. av. FS:84.3 UDC:0.45

VOELKERS COLLECTION AMBER 891914

06/03 2E-E92 E91 E92 E91 E93 E91 (02/06) *CERT*
PPR: +139 PTAT: +1.1
PTA: +664m +15f +27p +268NM\$ 87%\$
DEV: +1884m +47f +71p (04/09)
02/03 302d 2X 17950 3.7 662 3.3 592 DHIR
03/03 360d 2X 22580 3.5 801 3.4 770 DHIR
04/06 323d 2X 22310 4.1 925 3.6 799 DHIR
05/07 323d 2X 24450 4.2 1038 3.4 839 DHIR
06/07 332d 2X 17990 3.9 707 3.4 620 DHIR
08/01 365d 2X 27030 4.5 1229 3.3 897 DHIR
Lifetime: 2039d 132640m 5377f 4530p
* NCM ALL AMERICAN 4 YR OLD 04
* 5th AGED COW SOUTHEAST NATIONAL 06
* 2nd 5 YR OLD SOUTHEAST NATIONAL 05
* 5th 4 YR OLD CENTRAL NATIONAL 04
* 4th SR 3 YR OLD SOUTHEAST NATIONAL 03
* 4th FALL YRLG HFR SOUTHEAST NATIONAL 01
* GRAND CHAMPION MO STATE FAIR 02 03
* HM ALL AMERICAN SR BEST 3 FMLS MEMBER 04
* HM ALL AMERICAN JR BEST 3 FMLS MEMBER 01

TOP ACRES JET POWER ET 191610 NC

PPR: +17 88%R PTAT: +0.3 82%R (04/09)
PTA: +695m +14f +6p +22NM\$ 89%R (MACE)
PTA PL: +0.2 SCS: +3.08 DPR: -0.7 SCE: +6

HILL-N-DALE ENSIGN SUE ET 841967

12/09 3E-E93 E94 E93 E92 E90 E95 (12/06) *CERT*
PPR: +54 PTAT: +1.1
PTA: +479m -15f +12p +128NM\$ 56%\$ (04/09)
03/01 365d 2X 28130 4.2 1170 3.4 950 DHIR
04/04 365d 2X 36360 3.7 1348 3.5 1255 DHIR
06/02 365d 2X 34630 4.8 1656 3.5 1195 DHIR
07/11 266d 2X 26220 4.7 1233 3.1 825 DHIR
Lifetime: 1840d 162010m 6847f 5610p
* ALL AMERICAN 4 & 5 YR OLD 98 99
* RES ALL AMERICAN AGED COW 00
* RES ALL AMERICAN SR 3 YR OLD 97

R HART BC COLLECTION *TM 189182 E93

PPR: +43 98%R PTAT: +0.7 99%R (04/09)
PTA: +445m +22f +19p -48NM\$ 99%R (MACE)
PTA PL: -3.5 SCS: +3.01 DPR: -2.1 SCE: +5

WIND MILL ENSIGN ALENA ET 833750

08/06 2E-E93 E91 E94 E94 E95 E92 (04/02) *CERT*
PPR: +96 PTAT: +0.7
PTA: +289m -9f +15p +255NM\$ 85%\$ (04/09)
03/06 296d 2X 17010 3.8 644 3.7 633 DHIR
04/05 365d 2X 18880 3.8 725 3.7 693 DHIR
06/00 349d 2X 23340 4.2 981 3.7 856 DHIR
07/01 342d 2X 22610 3.9 879 3.6 807 DHIR
Lifetime: 1954d 114160m 4533f 4204p
* RES GRAND CHAMP MO STATE FAIR 01
* RES GRAND CHAMP MID-SOUTH FAIR 00
* 1st AGED COW MO STATE FAIR 01

#3

\$ _____ Lor 11 Vinra Dynasty Charming - pending

Born: 04/07/2009 Tattoo:
Current Owner:
NISLY, CONRAD
HUTCHINSON KS

Parent Average PPR: +47 PTAT: +0.9 (04/09)
PA: +222m +4f +10p +60NM\$

3rd Dam:

SHEN-VAL EMORY CARMEN ET 861291
'V88 - Certified'
04/03 365d 2X 22991 4.4 1019 3.7 855 DHIR
* 1st FALL YRLG HFR OZARK EMPIRE FAIR 97

4th Dam:

SHEN-VAL JADE CRISSY ET 787822
"4E92 - Certified"
11/04 365d 2X 39110 3.8 1471 3.6 1422 DHIR
NAT TOTAL PERF 2001

HILLTOP ACRES EN DYNASTY ET*TM 193371
Not Classified
PPR: +71 98%R PTAT: +1.1 98%R (04/09)
PTA: +935m +10f +25p +55NM\$ 99%R (MACE)
PTA PL: -0.1 SCS: +3.11 DPR: -3.1 SCE: +4
2413 dau. av. 23511 3.9 909 3.2 764
956 class. dau. av. FS:83.7 UDC:0.63

VINRA ZEUS CHARMING 951102

Not Classified
Parent Average PPR: +23 PTAT: +0.8
PA: -490m -1f -5p +65NM\$

4th Dam:

ELM BROOK PROUD CANDACE (W') 717014
"2E90 - Elite"
04/11 365d 2X 32170 4.1 1315 3.4 1107 DHIR
NAT PROTEIN AWARD 1987

R HART SIMON ENSIGN ET 184138 V88
PPR: +66 98%R PTAT: +0.7 99%R (04/09)
PTA: +600m -10f +2p +216NM\$ 99%R (MACE)
PTA PL: +6.2 SCS: +2.96 DPR: -0.4 SCE: +5

HILLTOP ACRES PT DREAMER ET 862391 NC

PPR: +148
PTA: +1445m +55f +48p +193NM\$ 72%\$
DEV: +5805m +215f +174p (04/09)
02/04 267d 2X 23760 4.0 950 3.4 796 DHIR

RED BRAE PRELUDE ZEUS (M) 193849 NC

PPR: +73 94%R PTAT: +1.1 93%R (04/09)
PTA: -475m +6f +3p +182NM\$ 97%R (MACE)
PTA PL: +2.6 SCS: +2.84 DPR: +1.1 SCE: +6

GRIMM PRIMETIME CARMEL ET 936321

03/09 V87 E90 V88 V87 G79 E90 (06/08)
PPR: -25 PTAT: +0.5
PTA: -505m -8f -12p -52NM\$ 14%\$ (04/09)
02/00 337d 3X 16310 4.2 680 3.5 571 DHIR
03/01 320d 3X 16500 3.8 634 3.2 534 DHIR

#4

\$ _____ Lor 16 Frosted Beauty Zeus Sassy 68110677

Born: 03/12/2009 Tattoo: 296
Current Owner:
FROSTED BEAUTY SWISS
EPWORTH IA

Parent Average PPR: +35 PTAT: +0.6 (04/09)
PA: -610m +5f -5p +125NM\$

3rd Dam:

BLESSING KOHL SHIRLEY 761983 '4E90'
10/01 365d 2X 29630 4.7 1382 3.6 1070 DHIR
Lifetime: 2936d 197320m 8523f 7393p

4th Dam:

BLESSING BEAUTICIAN KING SHIRL 674233
"2E90"
08/10 365d 2X 24430 4.1 1004 3.5 856 DHIR

RED BRAE PRELUDE ZEUS (M) 193849

Not Classified
PPR: +73 94%R PTAT: +1.1 93%R (04/09)
PTA: -475m +6f +3p +182NM\$ 97%R (MACE)
PTA PL: +2.6 SCS: +2.84 DPR: +1.1 SCE: +6
514 dau. av. 22055 4.1 909 3.4 740
229 class. dau. av. FS:84.1 UDC:1.85

KULP TERRA JAMES SECRET ET 941396

Not Classified
Parent Average PPR: -3 PTAT: +0.2
PA: -746m +5f -14p +69NM\$
*02/02 305d 2x 16010 4.6 731 3.5 566 DHIA

BETTA VUE EMORY PRELUDE ET 187668 E91
PPR: +7 99%R PTAT: +0.3 99%R (04/09)
PTA: +470m -3f +12p -86NM\$ 99%R (MACE)
PTA PL: -1.4 SCS: +3.10 DPR: -2.2 SCE: +5

RED BRAE PATRICK ZADEVA 838249

04/11 E92 E94 E93 E91 V89 E92 (03/99) *CERT*
PPR: +153 PTAT: +1.0 *SUPR BRD COW*
PTA: +282m +39f +22p +396NM\$ 98%\$ (04/09)
02/02 351d 2X 17970 4.3 768 3.9 698 DHIR
03/02 332d 2X 21420 4.3 929 3.7 800 DHIR
04/03 365d 2X 23960 5.5 1323 3.7 875 DHIR
05/04 365d 2X 27940 4.9 1372 3.7 1033 DHIR
* ALL AMERICAN JR 2 & 3 YR OLD 96, 97
* NOM ALL AMERICAN 4 YR OLD 98
* 4th 4 YR OLD CENTRAL NATIONAL 98
* 1st JR 2 & 3 YR OLD CENTRAL NATIONAL 96, 97

SCF EMORY JAMES 192909 E90

PPR: +31 86%R PTAT: +0.6 92%R (04/09)
PTA: -533m +15f -5p +113NM\$ 91%R
PTA PL: +1.5 SCS: +2.91 DPR: +0.1 SCE:

BLESSING PR SHIRLAN 834448

09/05 3E-E93 E95 E96 E95 E92 E92 (11/02) *CERT*
PPR: -37 PTA: -959m -5f -23p +24NM\$ 28%\$ (04/09)
04/00 305d 2X 24140 5.1 1228 3.7 884 DHIA
05/00 365d 2X 31740 5.7 1804 3.5 1117 DHIR
06/01 365d 2X 28880 4.9 1419 3.8 1092 DHIR
08/02 365d 2X 30440 5.2 1578 3.4 1041 DHIR
Lifetime: 2433d 172140m 8642f 6233p
* NAT TOTAL PERFORMANCE 00
* ALL AMERICAN 5 YR OLD 98
* RES ALL AMERICAN 4 YR OLD 97
* HM ALL AMERICAN AGED COW 01
* HM ALL AMERICAN JR 3 YR OLD 96

Hercode	Listed
42-77-0074	7-30-09
I O STATE DAIRY	

COW PAGE DHI-103

Appendix D - Cow # 1

5 - 6 3 5 5		Identification		Breed	Index Number	Birth date		Body wt.
		61528364		HO	6355	1-14-04		1500
P	% Rel	Milk	Fat %	Fat	Prot %	Prot	Merit \$	Rank
T	59	+818	- .03	+22	- .01	+23	+116	40
A		Milk		Fat		Prot	\$ \$	
R								
P		+514						
A								

S		Sire Name		Identification		Brd	NAAB Code
I		PEN-COL DECISION-ET		2217212		HO	29HO07949
P	% Rel	Milk	Fat %	Fat	Prot %	Prot	Merit \$
T	99	+880	+ .02	+37	+ .04	+36	+162
A							17

D		Breed		Barn Name		PTA: Predicted Transmitting Ability	
A		131656446		HO		ERPA: Estimated Relative Producing Ability	
P	% Rel	Milk	Fat %	Fat	Prot %	Prot	Merit \$
T	56	+534	+ .04	+31	+ .02	+22	+94
A							34

M		Maternal Grand sire Name		Identification		Brd	NAAB Code
G		MAR-BIL OSCAR GLENWOOD-ET		2221585		HO	1HO03365
P	% Rel	Milk	Fat %	Fat	Prot %	Prot	Merit \$
T	99	+755	+ .11	+55	+ .09	+43	+227
A							32

Sample Day Data		Lact No.	Fresh Date		8-13-08	
17	43	78	103	141	163	191
82	130	124	123	112	89	101
3.9	3.6	2.5	2.9	2.8	4.0	3.0
2.6	2.6	2.8	2.9	3.1	2.9	2.9
47	76	50	62	47	71	54
						152
						62
						66
						87

Lact No.	Test Plan	Freshening Date	Age	Days Dry	Days Open	No. Serv.	305 Day Actual						3X Days	Complete Lactation						305-2X-ME			Diff. From HerdMates				
							Milk	Fat %	Fat	Prot %	Prot	Prot %		Prot	Prot %	Prot	Prot %	Prot	Prot %	Prot	Prot %	Milk	Fat	Prot			
1	00	1-03-06	1-11		72	1	22284	3.5	788	3.0	665	36	313	22557	3.5	800	3.0	676	27409	961	793	-1598	-84	-69			
2	02	12-19-06	2-11		37	1	25189	3.3	823	2.9	733		344	26790	3.3	887	2.9	788	28212	914	808	+668	-58	-19			
3	02	8-13-08	4-06		259	7	30149	3.2	956	2.9	871		350	32995	3.2	1052	2.9	957	33164	1042	947	+2987	+16	+52			
							TOTALS						1007	82342	3.3	2739	2.9	2421	29595	972	849	+686	-42	-12			
							AVERAGES																				

* LCT IN PROGRESS THRU SMP L 7-28-09
 SMP L M: 54.8 F: 3.4 P: 3.1

Barn Name	5-6355	Index Number	6355	Identification	61528364
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Hercode	Listed
42-77-0074	7-30-09
I O STATE DAIRY	

COW PAGE DHI-103

Appendix D - Cow # 2

7 - 6 6 1 8		Identification		Breed	Index Number	Birth date		Body wt.
61963136		HO		6618	11-12-04		1500	
P	% Rel	Milk	Fat %	Fat	Prot %	Prot	Merit \$	Rank
T	60	+380	-.08	-7	-.01	+10	+82	31
A		Milk		Fat		Prot	\$ \$	
R		+2268		+24		+23	+266	
P								
A								

Sample Day Data		Lact No.	3		Fresh Date		12-30-08	
DIM	2	24	52	91	119	150	182	211
Milk	TOO	103	116	111	113	101	89	90
Fat %	FRSH	3.6	2.6	2.8	2.8	3.4	3.2	2.8
Prot %		2.7	2.5	2.7	2.4	2.7	2.8	2.8
SCC		141	373	187	141	162	152	1493

Sire Name		CARNATION VIRGO-ET		Identification		Brd	NAAB Code	
17391047		HO		14H003154				
P	% Rel	Milk	Fat %	Fat	Prot %	Prot	Merit \$	Rank
T	98	+658	-.07	+7	-.02	+16	+208	27
A								

Barn Name		7-5633		PTA: Predicted Transmitting Ability				
131859634		HO		ERPA: Estimated Relative Producing Ability				
P	% Rel	Milk	Fat %	Fat	Prot %	Prot	Merit \$	Rank
T	63	-499	-.06	-33	+03	-9	-111	3
A								

Maternal Grand sire Name		W A - D E L M A N P O W E R - E T		Identification		Brd	NAAB Code	
2187312		HO		29H007367				
P	% Rel	Milk	Fat %	Fat	Prot %	Prot	Merit \$	Rank
T	98	+1030	-.12	+5	-.03	+26	+70	7
A								

Lact No.	Test Plan	Freshening Date	Age	Days Dry	Days Open	No. Serv.	305 Day Actual				3X Days	Complete Lactation				305-2X-ME				Diff. From HerdMates				
							Milk	Fat %	Fat	Prot %		Prot	Fat %	Fat	Prot %	Prot	Fat %	Fat	Prot %	Prot	Milk	Fat	Prot	Milk
1	00	10-30-06	1-11		93	1	24678	3.5	862	2.9	712	310	25000	3.5	874	2.9	721	31341	1069	873	+2305	+34	+0	
2	31	11-05-07	2-11	61	137	2	28156	3.5	991	3.0	852	340	30700	3.6	1093	3.0	929	31816	1090	930	+4118	+110	+82	
3	02	12-30-08	4-01	81	185	2						211	21687	3.1	663	2.7	580	29107	855	796	+2650	-46	+8	
													TOTALS				AVERAGES							
													861	77387	3.4	2630	2.9	2230	30755	1005	866	+3025	+33	+30

* LCT IN PROGRESS THRU SMP L 7-28-09
 SMP L M: 90.3 F: 2.8 P: 2.8

Barn Name		7-6618		Index Number		6618		Identification		61963136	
7 - 6 6 1 8											

COW PAGE DHI-103

Appendix D - Cow # 3

Hercode	Listed
42-77-0074	7-30-09
I O STATE DAIRY	

7 - 6795		Identification	Breed	Index Number	Birth date	Body wt.
		62434219	HO	6795	7-14-05	1320
P	% Rel	Milk	Fat %	Fat	Prot %	Prot
A	58	+1150	- .07	+23	- .03	+30
E		Milk				+119
R						41
A		+2381		+94		Prot
						\$ \$
						+67
						+280

S I R E		Sire Name	Identification	Brd	NAAB Code	
		CLINITA ZACK FREDERICK-ET	18016881	HO	29H009436	
P	% Rel	Milk	Fat %	Fat	Prot %	Prot
A	99	+1107	- .08	+20	- .03	+28
						+187
						22

D A M		Identification	Breed	Barn Name	PTA: Predicted Transmitting Ability	ERPA: Estimated Relative Producing Ability
		131655931	HO	7-5388		
P	% Rel	Milk	Fat %	Fat	Prot %	Prot
A	75	+591	- .09	-3	- .02	+14
						-160
						1

M G S		Maternal Grand sire Name		Identification	Brd	NAAB Code
		ETAZON MAPLELEAF DUKE-ET		21494891	HO	14H001906
P	% Rel	Milk	Fat %	Fat	Prot %	Prot
A	97	+72	- .05	-10	- .03	-4
						-240
						0

Sample Day Data		Lact No.	2	Fresh Date	7-26-08
DIM	6	35	61	96	121
Milk	66	119	119	119	108
Fat %	4.1	3.3	3.3	3.4	3.9
Prot %	3.8	2.9	2.8	3.0	3.1
SCC	696	38	22	31	66
					41
					44
					47
					57
					123
					162

SCC TO THE NEAREST 1,000

Lact No.	Test Plan	Freshening Date	Age	Days Dry	Days Open	No. Serv.	305 Day Actual					3X Days	Complete Lactation					305-2X-ME			Diff. From HerdMates					
							Milk	Fat %	Fat	Prot %	Prot		Days	Milk	Fat %	Fat	Prot %	Prot	A	R	Milk	Fat	Prot	Milk	Fat	Prot
1	31	8-14-07	2-01		72	1	24078	3.7	894	3.2	762	315	24755	3.7	922	3.2	785		31301	1135	948	-251	-12	+3		
2	02	7-26-08	3-00	32	344	1	30951	3.6	1112	3.0	942	368	35165	3.6	1262	3.0	1072		37141	1312	1082	+7357	+294	+196		
							365	34966	3.6	1255	3.0	1066														
							TOTALS					683	59920	3.6	2184	3.1	1857		34221	1224	1015	+3553	+141	+100		
							AVERAGES																			

* LCT IN PROGRESS THRU SMP L 7-28-09
 SMP L M: 66.5 F: 3.5 P: 3.2

Barn Name	7-6795	Index Number	6795	Identification	62434219
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7 - 6795

Hercode	Listed
42-77-0074	7-30-09
I O STATE DAIRY	

COW PAGE DHI-103

Appendix D - Cow # 4

6 8 7 2		Identification		Breed		Index Number		Birth date		Body wt.	
		62434296		HO		6872		10-14-05		1650	
P	% Rel	Milk	Fat %	Fat	Prot %	Prot	Merit \$	Rank			
T	55	+1694	- .01	+60	+ .03	+61	+548	99			
A		Milk		Fat		Prot	\$ \$				
R		+2927		+88		+108	+344				
P											
A											

S		Sire Name		Identification		Brd		NAAB Code	
I		O-BEE MANFRED JUSTICE-ET		122358313		HO		7HQ06417	
P	% Rel	Milk	Fat %	Fat	Prot %	Prot	Merit \$	Rank	
T	99	+1101	+ .14	+77	+ .11	+59	+779	99	
A									

D		Breed		Barn Name		PTA: Predicted Transmitting Ability		
A		62891323		HO		ERPA: Estimated Relative Producing Ability		
P	% Rel	Milk	Fat %	Fat	Prot %	Prot	Merit \$	Rank
M	54	+1232	- .11	+15	- .04	+30	+105	37
A								

M		Maternal Grand sire Name		Identification		Brd		NAAB Code	
G		CREST-VIEW-ACRES		17231440		HO		7HQ06042	
P	% Rel	Milk	Fat %	Fat	Prot %	Prot	Merit \$	Rank	
S	99	+1344	- .12	+17	- .07	+27	+119	13	
A									

Sample Day Data		Lact No.	2	Fresh Date	2-05-09
DIM	15	54	82	113	145
Milk	74	108	105	96	85
Fat %	5.1	3.4	3.4	3.5	3.2
Prot %	4.0	3.2	3.0	3.0	3.1
SCC	566	1131	857	1300	1213
606					

Lact No.	Test Plan	Freshening Date	Age	Days Dry	Days Open	No. Serv	305 Day Actual				3X Days	Complete Lactation						305-2X-ME				Diff. From HerdMates		
							Milk	Fat %	Fat	Prot %		Prot	C A R	Milk	Fat	Prot	Milk	Fat	Prot	Milk	Fat	Prot		
1	02	2-29-08	2-04		70	1	30980	3.4	1044	3.1	956	307	31095	3.4	1050	3.1	961	36247	1211	1104	+8633	+231	+267	
2	02	2-05-09	3-03	35	157	1						174	15939	3.6	580	3.2	511	24955	879	794	+104	+32	+56	
							TOTALS										AVERAGES							
							481	47034	3.5	1630	3.1	1472	30601	1045	949	+4369	+132	+162						

* LCT IN PROGRESS THRU SMP L 7-28-09
 SMP L M: 80.2 F: 3.2 P: 3.1

Barn Name	6872	Index Number	6872	Identification	62434296
6 8 7 2					

2009 Iowa FFA Dairy Cattle Evaluation CDE Key

Test Key

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

DHIA Questions

51. B
52. D
53. A
54. C
55. C

Dairy Management

56. E
57. A
58. C
59. D
60. D

Sire Summary

61. A
62. A
63. B
64. D
65. D

Pedigree Evaluation

66. C
67. C
68. C
69. B
70. C

Phase F – Sire Evaluation

1 – 3 – 2 – 4 Cuts 6 – 2 – 5

- 1 - Highest in components, NM\$, TPI, and FLScore, 2nd in PTA milk, SCE, UC, FLC, and 2nd shortest (moderate size)
- 3 - Best SCE (virgin heifers), UC, FLC
- 2 - Most moderate size, lowest fat, 2ndNM\$, 3rd TPI, SCE, UC, FLC
- 4 - Lowest NM\$, TPI, UC, FLC, tallest, highest SCE (highest % difficult births)

Phase G – Culling Class

4 – 2 – 1 – 3 Cuts 7 - 1 – 1

- 4 - Persistent high SCC for the entire lactation, although 2nd highest current milk/day. Lowest 305-2x-ME and lowest difference from herdmates,
- 2 - High SCC on last test and SCCs on earlier test dates higher than 1 or 3, highest current milk/day makes this close between her and the two cows placed below her
- 1 - Lowest current milk/day, and 2nd longest DIM
- 3 - 2nd lowest current milk/day, most DIM (>365 DIM as of 7/28/09 test date), high 1st test SCC but low since, highest ME and highest diff from herdmates.

Pedigree Placing

2 – 1 – 3 – 4 Cuts 5 – 5 – 2

- 2 - Highest PPR – NM\$ - PA milk – PA pro – PTAT, 2nd highest PA fat
- 1 - 2nd highest PPR – NM\$ - PA milk – PA pro – PTAT, Highest PA fat
- 3 - 2nd lowest PPR – PA milk – PA pro - PTAT
Lowest NM\$ - PA fat
- 4 - Lowest PPR – PA milk - PA pro - PTAT
2nd lowest NM\$ - PA fat