2014 Iowa FFA Dairy Cattle Evaluation CDE Test

West Union, Iowa September 6, 2014

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

<u>25 Objective Questions -- 2 pts. each</u>

1. What components make up the hindgut of the digestive system?
   a. Rumen, reticulum, omasum b. Rumen, rectum, esophagus
   c. Cecum, colon, rectum d. Abomasum, small intestine, large intestine

2. Which of the following is a source of non-protein nitrogen?
   a. Linseed meal b. Corn grain c. Soybean meal d. Urea

3. At what age do dairy cattle develop upper incisors?
   a. Birth b. 3 days c. 3 months d. Never

4. What nutrient supplies the majority of energy in a cow's ration?
   a. Minerals b. Water c. Carbohydrate d. Protein

5. Which of the following hormones is not directly associated with reproduction?
   a. Testosterone b. Adrenaline c. Estrogen d. Progesterone

6. Which stomach area absorbs the majority volatile fatty acids produced during fermentation?
   a. Reticulum b.Rumen c. Omasum d. Abomasum

7. Washing the udder prior to milking stimulates the release of ____ which induces milk letdown.
   a. Estrogen b. Testosterone c. Adrenaline d. Oxytocin

8. What is the name of milk sugar?
   a. Dextrose b. Fructose c. Lactose d. Sucrose

9. The average herd size in the US grew by nine cows this past year. What is the nation's current average herd size?
   a. 102 b. 196 c. 573 d. 1198

10. What is the term given to a heifer born twin to a bull?
   a. Displaced abomasums b. Gomer c. Freemartin d. Metritis

11. Which of the following feeds usually contains the most protein?
   a. Alfalfa hay b. Corn silage c. Soybean oil meal d. Corn grain

12. The only part of a milking machine that touches the cow is the ?

a. Pulsator b. Vacuum pump c. Inflation d. Milk line

13. Fat has how many times as much energy per pound as carbohydrates?

a. .75 b.1.25 c. 2.25 d. 4.40

14. At birth, which stomach area is the largest in a calf?

a. Abomasum b. Omasum c. Rumen d. Reticulum

15. If the following rumen content is “depressed”, fat content of milk is most likely depressed.

a. Lactic Acid b. Acetic Acid d. Butyric Acid d. Formalin

16. Where is oxytocin stored and released?

a. Ovarian follicle b. Corpus luteum c. Pituitary gland d. Adrenal gland

17. How does a robotic milker find the teats of a cow ready to be milked?

a. Teat sphincter sensors b. Milk detection sensors
c. Sonomatic cell sensors d. Lasers or vision cameras

18. Consumption of which dairy product hit a 44-year high in 2013?

a. Butter b. Cottage Cheese c. Ice Cream d. Fluid milk

19. Cows exposed to sunlight will readily make which vitamin on their own?

a. A b. D c. E d. K

20. What is the main support system holding the udder close to the cow’s body wall?

a. Skin & subcutaneous connective tissue b. Medial suspensory ligament
c. Sustentacular apparatus d. Lateral suspensory ligament

21. “UHT” milk is pasteurized at what approximate minimum temperature in degrees Fahrenheit?

a.145 b. 161 c. 191 d. 280

22. What is the time period that a cow carried a calf?

a. Gestation b. Lactation c. Parturition d. Rumination

23. What component causes the yellow color in milk from certain breeds of dairy cattle?

a. Protein b. Lactose c. Beta hydroxybutyrate d. Beta carotene

24.Pregnancy can be detected by milk or blood samples or transrectal ultrasound how many days after insemination?

a. 10-12 days b. 28-30 days c. 35 days d. 47 days

25. 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. Conception b. Fertilization c. Homogenization d. Pasteurization

Turn the Scantron Sheet Over to mark the appropriate answers beginning with Number 51

DHIA Questions -- 5 points each

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

51. What is the days to first service for all cows in the breeding herd?

a. 50 b. 65 c. 70 d. 78

52. What was the percentage of cows leaving the herd due to involuntary reasons?

a. 9 b. 19 c. 29 d. 39

53. What is the rolling yearly herd average for protein on 8/25/14?

a. 812 b. 936 c. 1577 d. 25889

54. What is the total number of females born live?

a. 141 b. 153 c. 168 d. 181

55. What was the dollar loss from SCC during this test period?

a. $18.38 b. $2012 c. $2732 d. $6136

Dairy Management Problems -- 5 pts each

56. (Shelled corn -- 56 lb/bu Ear corn -- 70 lb/bu) A concentrate mix consists of 1700 lbs of corn & cob meal, 680 lbs of shelled corn and 625 lbs of 44% soybean oil meal. If shelled corn costs $3.80/bu, ear corn at $3.05/bu and soybean meal costs $410/ton, what is the cost per pound of this mix?

a. $0.0826/lb b. $0.0912/lb c. $0.0987/lb d. $0.1002/lb

57. What is the cost per pound of ground ear corn if ear corn sells for $3.15/bu (70#/bu) and grinding is $.52 per cwt.?

a. $.0451 b. $.0492 c. $.0502 d. $.0512

58. What is the percent protein in the following ration?

Corn silage	1350	3.6%
Ground shelled corn	920	9.1%
Whole cottonseed	550	21.5%
Haylage	1250	5.8%
Hay	500	20.2%
Protein Mix	500	44%
Minerals	200	0%

a. 13.91% b. 12.22% c. 11.97% d. 11.22%

59. What is the component value of a hundredweight of milk if the farm produces 414,000 pounds of milk with the following:

Components		$Basis Milk Value
Butterfat	4.50%	1.789
Protein	4.11%	4.426
Solids	5.82%	.0825
SCC	295,000	.42

a. $25.78 b. $27.14 c. $28.16 d. $29.57

60. You purchased the following hay at the Rock Valley Hay Auction. Which hay costs the least per pound of protein?

			%protein
Alfalfa large round	44,000 lbs	$145/ton	19.2
Alfalfa 3x4 bales	57,000 lbs	$130/ton	16.6
Grass large round	40,500 lbs	$81/ton	11.2
Grass 3x3 bales	33,000 lbs	$60/ton	7.8

a. Alfalfa large round b. Alfalfa 3x4 bales
c. Grass large round d. Grass 3x3 bales

Sire Evaluation Questions -- 5 pts each

Refer to **Appendix B (Accelerated Genetics--40 Bulls--USA Proof Criteria)** to answer the following questions.

61. Which bull should have the most impact on daughters producing high quality milk?
    a. Gambler b. Joclassic c. Magnum d. Chops

62. Which trait could you look at if you wanted to know characteristics about the mammary system?
    a. DCE b. FLC c. PTAT d. UDC

63. Which bull should raise the component value of fat and protein?
    a. Chops b. Gifian c. Gambler d. Frost

64. What factor has put Supershot as the highest ranking sire on this sire report?
    a. FLC b. TPI c. PTAF d. SCS

65. If PTAF determined the ranking order, which bull would be listed first?
    a. Supershot b. Belair c. Hunk d. Mookie

Pedigree Questions -- 5 pts each

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

#1	Lot 15	Hard Core Kaiser Firefly
#2	Lot 16	Hard Core Premium Fire Maid EXP
#3	Lot 26	Hard Core Royal Rhythum
#4	Lot 27	Hard Core Playboy Royals

66. Which heifer is the oldest?
    a. #1 b. #2 c. #3 d. #4

67. Which heifer has a grandmother that classified excellent 95?
    a. #1 b. #2 c. #3 d. #4

68. Which heifer's dam and sire were both an embryo transfer?
    a. #1 b. #2 c. #3 d. #4

69. Which heifer's sire was classified as an excellent 91 points?
    a. #1 b. #2 c. #3 d. #4

70. Which heifer has the least similar genetics?
    a. #1 b. #2 c. #3 d. #4

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 15	Hard Core Kaiser Firefly
#2	Lot 16	Hard Core Premium Fire Maid EXP
#3	Lot 26	Hard Core Royal Rhythum
#4	Lot 27	Hard Core Playboy Royals

Phase F -- Sire Evaluation

You are a Jersey dairy producer who wants cows that have good, well-attached udders, sound feet and legs and a long productive life as these cows do best in your system. Furthermore, you prefer cows with high production and high combined fat and protein. You may want to show some heifers as your children are now in 4-H and FFA. 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 on the next "hot" bull. Consequently you want to use one of the following four sires who only have a genomic proof. Using **Appendix D** which sire should be your first, second, third and fourth choice to use on these heifers.

#1 Recognize #2 Grant #3 Neal #4 Crosby

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 high volumes of high quality milk with emphasis on reproductive efficiency. 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 DHI-103 Cow Pages (**Appendix E**) 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.

#1 Index 7705 #2 Index 7898 #3 Index 7966
#4 Index 8083

HERD SUMMARY

Test Date	Samples at Lab	Processed
08-25-2014	08-27-2014	08-27-2014

42-77-0074
I O STATE DAIRY
JOE DETRICK

DHI-202

Electronic Meters

Breed	HO	Type Test	DHI-APCS	Assoc.	400	Supv.	97	String	1

Production, Income & Feed Cost Summary

	Daily Average per Cow on Test Day		Rolling Yearly Herd Averages	
Total Cows	361		398.1	
Cows in Milk	Number	%	Number	%
	328	91	354.3	89
Milk Lbs (All Cows)	68.8		25,889	
Fat Lbs (All Cows)	2.40		936	
Fat %	3.5		3.6	
Protein Lbs (All Cows)	2.03		812	
Protein %	3.0		3.1	
Milk Lbs (Milking Cows)	75.8			
	Milking Cows	All Cows		
Silage	Lbs Consumed		Lbs Consumed	%ENE
Other Succulents or Blended Rations	Lbs Consumed		Lbs Consumed	%ENE
Dry Forage	Lbs Consumed		Lbs Consumed	%ENE
Other Feeds	Lbs Consumed		Lbs Consumed	%ENE
Pasture			Days	%ENE
Concentrates	Lbs Consumed		Lbs Consumed	%ENE
Value of Product $	18.38	16.50	6,136	
Cost of Concentrates $				
Total Feed Cost $				
Income Over Feed Cost $				
Feed Cost per CWT Milk $				

Milk Blend Price	Per CWT	% Fat	% Pro	Per CWT	% Fat	% Pro

Reproductive Summary Of Current Breeding Herd

Total Cows Breeding Herd	Voluntary Waiting Period (VWP)	Days to 1st Service
102	50	65

Cows With No Service Dates or Diag. Open				Cows Bred But Not Diag. Preg.			
				Days Open at Last Service			
Open VWP to 100 Days	Open Over 100 Days	Number Diag. Open		Under VWP	VWP to 100 Days	101 to 130 Days	Over 130 Days
11	4	4	Number Cows		37	11	39
11	4	4	% of Breeding Herd		36	11	38

Reproductive Summary Of Total Herd

	Days Open at 1st Service			Avg. Days to 1st Service	Services per Pregnancy		Projected Minimum	
	Number Under VWP	Number VWP to 100	Number Over 100		Preg. Cows	All Cows	Calving Interval	Days Open
1st Lact	4	96	1	67	2.7	3.4	13.2	120
2nd Lact	5	76		64	2.2	3.2	13.0	114
3+ Lacts	5	76		65	3.0	4.3	13.3	125
All Lacts	14	248	1	66	2.6	3.6	13.1	120
% of All 1st Services	5	94			Current Actual Calving Interval		13.2	

Service or Heat Interval	
Interval Length	Number Intervals
< 18	66
18 - 24	146
36 - 48	244
Other	90

Services for Past 12 Months			
Service Number	Number Services	Conception Rate	Service Sire Merit $
1st	353	27	+796
2nd	257	28	+788
3rd +	444	28	+782
Total	1054	28	+788

Abortions	This Test	Past Year
Actual	1	1
Apparent	8	46

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	44	7	53	5	78	11	8	6	6
2+	124	9	128	12	209	19	12	3	1
Total	168	16	181	17	287	30	20	9	3

Cows To Be Milking, Dry, Calving By Month

	Sep	Oct	Nov	Dec	Jan	Feb
* Milking	330	323	328	319	320	317
Dry	28	34	27	31	40	43
Cows to Calve	24	15	22	19	21	19
Heifers to Calve	14	13	12	9	24	14

* Assumes 3.9% per month culling rate.

Yearly Reproductive Summary

Test Date	% Heats Obs.	Conception Rate	Preg Rate	Number Services	Number Confirm Preg	Number Calving	Total Preg Cows
Test Dropped	62	28	18	117	34	41	188
10-09-13	75	24	23	120	32	37	195
11-13-13	75	26	25	124	30	32	196
12-11-13	69	21	20	90	34	25	202
2-13-14	65	27	21	193	58	81	193
3-26-14	65	33	26	102	29	54	182
4-30-14	65	24	17	99	40	32	193
6-04-14	63	34	22	104	30	34	187
7-11-14	61	31		105	37	30	183
8-25-14	59			102	40	52	172
Averages	66	28	22	115	37	42	189
Totals				1039		377	

Miscellaneous Herd Information

	Shipped-Test Day Comparison	
	Test Day	Yearly Avg.
Sum of Test Day Wts	24602	27782
Reported Avg. Daily Bulk Tank Wts		
% Deviation		

	Milking Times	Wgh	Spl
1st	12:02pm	Y	N
2nd	8:00pm	Y	N
3rd	4:20am	Y	Y

Remarks:

Cows milked 3 times daily for all or part of this yearly period.

Herd Code	42-77-0074	Test Date	08-25-2014	Breed	HO	String	1

Stage Of Lactation Profile

		Stage of Lactation (Days)					
		1 - 40	41 - 100	101 - 199	200 - 305	306 +	Total or Average
Number Milking	1st Lact	13	8	34	29	22	106
	2nd Lact	13	15	32	26	18	104
	3+ Lacts	15	21	32	24	22	114
	All Lacts	41	44	98	79	62	324
Average Daily Milk	1st Lact	59	83	77	74	54	70
	2nd Lact	87	102	82	67	47	76
	3+ Lacts	93	99	91	70	56	82
	All Lacts	80	97	83	70	53	76
% Fat & Pro	1st Lact % Fat	4.4	3.5	3.5	3.2	4.1	3.7
	1st Lact % Pro	2.9	2.7	2.9	3.0	3.4	3.0
	2nd Lact % Fat	4.0	3.0	3.5	3.7	3.9	3.6
	2nd Lact % Pro	2.9	2.8	3.0	3.2	3.3	3.1
	3+ Lacts % Fat	4.3	3.1	3.2	3.6	3.7	3.5
	3+ Lacts % Pro	2.8	2.7	2.9	3.1	3.3	3.0
	All Lacts % Fat	4.2	3.1	3.4	3.5	3.9	3.6
	All Lacts % Pro	2.9	2.7	2.9	3.1	3.3	3.0
SCC ACT	1st Lact	175	76	155	85	68	116
	2nd Lact	216	79	132	63	117	117
	3+ Lacts	902	297	567	292	236	463
	All Lacts	497	184	295	140	144	248
SCC ACT >= 200	Number	13	8	20	10	16	67
	Percent	32	18	20	13	26	20

Weighted SCC ACT (Nearest 1,000)

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	194	0-06	194	194		193	+456	+677
13+	155	1-06	155	155		155	+387	+580
Replacements	349	0-11	349	349		348	+425	+633
1st Lact	130	1-11	130	130		124	+325	+478
2nd Lact	110	3-00	109	107	2	109	+311	+438
3+ Lacts	121	4-10	117	113		117	+193	+294
All Lacts	361	3-03	356	350	2	350	+277	+405
% Identified (Producing Females)			99	97	No. Heifers Age Over 30 Months			

Herd Merit $ Option
NM

Genetic Profile of Service Sires	A.I. Progeny Tested	A.I. Genomic Tested	All Other A.I. Bulls	Non A.I. Bulls
% of Herd Bred to	2	98		
Number of Bulls Used	2	15		
Average Merit $	+728	+827	+0	
Avg. Percentile Rank (Net Merit)	98	99		

DCR Milk	102

Production By Lactation Summary

	Number of Cows	Avg. Age (Mo)	Peak Milk	Summit Milk	Proj 305 Day ME Milk	Proj 305 Day ME Fat	Proj 305 Day ME Pro	Difference From Herdmates Milk	Difference From Herdmates Fat	Difference From Herdmates Pro	Avg. Body Wt.
1st Lact	130	23	91	87	26256	911	792	+1753	+21	+42	1210
2nd Lact	110	36	105	101	24683	916	766	+364	+49	+23	1330
3+ Lacts	121	58	119	114	23634	856	717	-412	-16	-17	1460
All Lacts	361	39	104	100	24926	895	760	+666	+18	+18	1330

Somatic Cell 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
1st Lact	84	8	4	3	1
2nd Lact	78	12	4	5	2
3+ Lacts	58	14	11	7	11
All Lacts	73	11	6	5	5

Herd Production Lost From SCC This Test Period			
Milk	11,070	Dollars ($)	2,732

Dry Cow Profile

Lact.	Number Dry Periods	Avg. Days Dry	Number Dry by Days < 40	40-70	> 70	Cows Entered Num.	Cows Entered %	Cows Left Num.	Cows Left %
1						115	29	29	7
2	109	48	17	87	5			45	11
3+	120	62	13	78	29			87	22
All	229	56	30	165	34	115	29	161	40

Yearly Summary Of Cows Entered And Left The Herd

Number of Cows Left the Herd	Dairy	Low Prod	Repro	Mast	Udder	Feet & Legs	Injury Other	Disease	Died	Not Rptd
		2	16	2		1	2	1	5	
		1	15	8	1	2	12		6	
		2	30	24	3	2	9	2	15	
		5	61	34	4	5	23	3	26	

39	% Left Herd For Involuntary Reasons

Yearly Production And Mastitis Summary

Test Date	Days In Test Period	Number Cows In Herd On Test Day	Test Day Averages (Milking Cows) DIM	Milk	150 Day Milk	Test Period Persist. Index	Test Day Averages (All Cows) % In Milk	Milk	%Fat	%Pro	Rolling Yearly Herd Average Milk	Fat	Pro	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 Linear Score	Wt. Avg. Actual SCC	MUN	Number Left Herd Died	Sold
Test Dropped	42	408	202	75.4	84.2	99	91	68.3	3.7	3.2	25906	938	792	67	13	8	4	8	2.8	378	10.8	2	8
10-09-13	35	420	208	79.5	89.3	107	89	70.5	3.6	3.2	25927	942	795	71	12	5	6	6	2.6	318	11.2	4	
11-13-13	35	407	208	81.3	91.1	99	89	72.2	3.8	3.3	26063	952	804	71	14	5	5	5	2.7	250	12.1	2	20
12-11-13	28	398	202	81.7	89.8	98	87	71.1	3.8	3.3	26146	960	810	71	14	6	3	7	2.8	315	10.6	2	14
2-13-14	64	402	195	79.3	87.0	95	90	70.9	3.6	3.2	26098	957	816	64	17	7	6	6	3.0	378	10.7	7	15
3-26-14	41	409	190	80.8	86.2	99	90	72.6	3.6	3.2	26100	953	819	70	13	7	5	5	2.8	260	11.1	2	10
4-30-14	35	400	195	83.3	88.4	103	90	74.7	3.3	3.1	26077	947	820	72	10	9	4	4	2.7	216	14.1	2	16
6-04-14	35	393	194	79.7	85.6	96	90	71.3	3.9	3.0	25997	943	817	74	11	6	4	5	2.6	240	14.0	2	13
7-11-14	37	367	194	80.8	87.2	101	90	72.7	3.4	3.0	25914	942	814	81	8	4	3	4	2.0	161	13.8		30
8-25-14	45	361	194	75.8	84.4	97	91	68.8	3.5	3.0	25889	936	812	73	11	6	5	5	2.5	248	15.7	5	17
Averages	39	395	198	80.2	87.7	99	90	71.6	3.6	3.1				72	12	6	5	5	2.6	265	12.6	26	135

Test Period Avg. Milk Lbs	Added	70.6	Dropped	70.2

Appendix B

NAAB	Name	TPI	NM$	PTAM	PTAF	PTAF%	PTAP	PTAP%	MREL	PL	SCS	DPR	PTAT	UDC	FLC	SCE	DCE	EvalDate	SIRE x MGS x MGGS
224HO02881	Supershot	2616	1038	2503	96	0.02	84	0.03	73	7.3	2.69	2.1	2.20	1.66	1.56	6.3	4.3	201408	Supersire x Super x Shottle
014HO07303	Gambler	2501	867	2023	69	-0.02	60	0.00	75	6.3	2.54	1.0	3.16	2.92	2.62	7.2	5.3	201408	Mogul x Atwood x AltaThrone
202HO00995	Mikkel	2496	789	1616	74	0.06	64	0.06	75	4.5	2.70	2.9	2.79	2.29	2.80	7.9	5.1	201408	Mixer x Super x Shottle
014HO07418	Belair	2493	840	2013	97	0.08	79	0.07	74	4.9	3.05	0.6	2.82	2.37	2.24	6.4	4.8	201408	Supersire x Bookem x Dex
014HO07337	Chops	2491	793	1142	88	0.18	56	0.09	75	4.1	2.87	0.8	3.60	3.63	3.12	6.0	5.2	201408	Mogul x Man-O-Man x Mac
014HO07381	Barkley	2477	831	1094	72	0.12	46	0.05	75	6.1	2.67	1.4	3.16	3.26	3.15	6.2	4.0	201408	Mogul x Bowser x Mac
014HO07324	Gifian	2468	812	2500	92	0.00	76	0.00	75	4.0	2.74	0.2	2.95	2.47	2.38	7.8	6.2	201408	Mogul x Boxer x AltaJuryman
224HO03002	Paramount	2466	827	1228	75	0.11	55	0.07	74	5.5	2.55	1.5	2.65	2.59	3.27	6.6	5.0	201408	Mogul x Man-O-Man x Goldwyn
014HO07336	Kuhn	2463	775	1405	73	0.08	68	0.10	75	4.0	2.70	1.5	2.91	2.58	2.84	8.2	5.4	201408	Mixer x Man-O-Man x M-Leader BL
014HO07387	Zyke	2462	894	1910	89	0.07	63	0.02	73	5.7	2.61	0.7	2.45	2.50	2.17	7.6	6.0	201408	Headliner x Dorcy BY x O Man
014HO07328	Mookie	2458	901	1098	105	0.25	53	0.07	75	5.9	2.73	1.3	2.46	2.68	1.74	5.7	5.4	201408	Mogul x Observer x Shottle
014HO07340	Payton	2458	825	1455	72	0.07	62	0.07	75	4.7	2.63	2.1	2.47	2.71	2.30	5.8	5.1	201408	Mogul x Man-O-Man x Shottle
202HO01018	Joclassic	2455	855	1833	82	0.06	65	0.04	72	6.2	2.90	1.5	2.37	2.26	2.28	7.4	5.0	201408	Supersire x Beacon x Jango
014HO07296	Racer	2421	812	1462	59	0.02	58	0.06	74	5.7	2.60	1.7	2.80	2.74	1.84	5.8	4.9	201408	Lexor x Observer x Ramos
014HO07420	Idaho	2408	785	663	77	0.19	37	0.06	74	5.8	2.59	1.6	3.24	3.15	1.82	6.8	4.4	201408	Numero Uno x Robust x Zenith
014HO07451	Hunk	2407	788	1485	88	0.12	65	0.08	74	4.5	2.81	1.3	2.42	2.10	1.87	6.1	4.5	201408	Supersire x Man-O-Man x Shottle
014HO07488	Halt	2403	827	622	71	0.19	41	0.08	74	6.2	2.52	1.2	2.89	3.19	1.74	5.9	3.9	201408	Predestine x Man-O-Man x Goldwyn
014HO07341	Rawlins	2402	827	1049	64	0.11	44	0.05	75	6.8	2.64	1.8	2.50	3.10	1.93	6.6	4.8	201408	Mogul x Observer x Shottle
014HO07349	Fairfax	2396	887	871	79	0.18	46	0.08	74	6.7	2.67	2.4	1.77	2.45	1.79	5.8	4.7	201408	Mogul x Freddie x Lancelot
014HO07313	Frost	2380	749	1335	65	0.07	43	0.01	75	5.2	2.52	0.3	3.24	3.48	2.60	6.4	5.2	201408	Mogul x Domain x Shottle
014HO07368	Magnum	2376	765	2181	80	0.00	64	-0.01	74	5.2	2.92	1.1	2.83	2.04	1.49	7.6	4.8	201408	Supersire x Planet x Shottle
014HO07432	Merritt	2370	731	1796	86	0.08	54	0.00	75	3.2	2.81	1.2	2.89	2.66	1.93	5.7	3.0	201408	Mccutchen x Mac x O Man
014HO07407	Niklaus	2370	728	1414	67	0.06	43	0.00	74	5.3	2.81	2.2	3.13	3.03	1.82	7.8	5.3	201408	Numero Uno x Observer x Toystory
014HO07292	Cotty	2361	823	827	50	0.08	34	0.03	76	6.8	2.41	3.0	2.41	2.56	1.61	5.0	3.8	201408	Ecoyne Isy x Man-O-Man x Mac
014HO07427	Lindy	2357	744	1934	65	-0.02	65	0.03	76	3.8	2.47	1.3	2.33	2.16	1.79	6.7	5.9	201408	Mascalese x O-Style x Nifty
014HO07223	Shakespeare	2330	720	1015	66	0.11	39	0.03	78	5.6	2.48	0.5	3.06	2.81	2.53	8.0	6.4	201408	Epic x Shottle x Debut
014HO07269	Lance	2328	673	697	48	0.08	33	0.05	75	5.3	2.59	2.3	3.26	3.26	2.13	7.8	5.7	201408	Numero Uno x Goldwyn x Zenith
014HO07485	All Day*RC	2327	739	1576	69	0.05	49	0.01	74	5.4	2.61	0.4	2.68	2.47	2.53	7.2	5.9	201408	Day x Snowman x Shottle
014HO07184	Triton	2327	713	1811	72	0.02	65	0.04	76	4.2	2.87	1.3	2.24	1.82	2.17	7.6	5.3	201408	Peoti x Super x Colby
014HO07281	Iceberg	2326	766	519	21	0.01	29	0.06	76	7.9	2.26	3.0	2.28	2.28	2.82	6.3	3.7	201408	Epic x Garrett x Goldwyn

Lot 15 DOB: 6/03/2013 HARD CORE KAISER FIREFLY 68314411 H195

Ecuafarm Peris Kaiser
USA 462555 EX91
PTA: +661M +16F +21P
PTAT: +2.8

Hard Core Snoopy Firebug-EXP
USA 68309901 VG-88
1-11 284 12844 3.6 468 3.3 422
RIP

Gold Mine Frost Kourt
USA 454143
PTA: +40M +11F +8P
PTAT: +4.8

Kingsdale Peri 149th
USA 449185 EX-90 2E
2-00 347 25670 3.3 855 3.0 782
3-02 309 25530 3.3 835 3.1 786
4-02 365 33800 3.1 1045 3.0 1017
5-05 305 24730 3.3 825 3.5 854

Hard Core Othello Snoopy-ET
USA 68303119
PA: -215M -11F -9P
PA PTAT: +1.4

Springhill Firepower-ET
USA 360012235 EX-92 2E
3-00 315 21790 3.8 819 3.1 686
4-01 328 20380 3.8 784 3.2 651
5-03 295 16000 4.1 651 3.5 556
6-02 283 14020 3.5 496 3.4 474

3rd Dam:
Sunshine Now You See Fireball EX-90 2E
7-10 274 19980 3.2 648 2.9 588
Resv AA Fall Yearling 2003
Res AA Fall Heifer 2002

4th Dam:
Sunshine Fig's Frosty EX90
5-05 305 20580 3.6 738 3.1 637
342 22520 3.5 797 3.1 700
6-05 305 19680 3.4 664 3.1 605
352 21090 3.4 717 3.1 651

Lot 16 DOB: 9/03/2013 HARD CORE PREMIUM FIRE MAID-EXP 68314413 H198

Springville Logic Premium-ET
USA 68306847
PA: +103M +19F +4P
PA PTAT: +1.8

Springhill Firepower-ET
USA 360012235 EX-92 2E
3-00 315 21790 3.8 819 3.1 686
4-01 328 20380 3.8 784 3.2 651
5-03 295 16000 4.1 651 3.5 556
6-02 283 14020 3.5 496 3.4 474

GMC Rebel Logic-ET
USA 456757 EX90
PTA: +74M +36F +3P
PTAT: +2.8

Tex-Star Othello Peri
USA 459561 EX-94 2E
4-07 348 18220 3.7 676 3.1 565
5-11 291 19000 3.7 710 3.3 632
6-09 363 20760 3.6 755 3.4 706
2010 WDE Grand Champion

STBVQ Rubens-ET RC
USA 5844883
PTA: -561M -19F +1P
PTAT: +1.32

Sunshine Now You See Fireball
USA 452512 EX-90 2E
7-10 274 19980 3.2 648 2.9 588
Resv AA Fall Yearling 2003
Res AA Fall Heifer 2002

Maternal Sister to Lot 12,14

3rd Dam:
Sunshine Fig's Frosty EX90
5-05 305 20580 3.6 738 3.1 637
342 22520 3.5 797 3.1 700
6-05 305 19680 3.4 664 3.1 605
352 21090 3.4 717 3.1 651

LOT 26 DOB: 9/01/2012 HARD CORE ROYAL RHYTHYM 68312409 H183

Sells Open

Ecuafarm Kaiser Royalty
USA 68307222
PTA: +822M +29F +29P
PTAT: +3.1

Ecuafarm Peris Kaiser
USA 462555 EX91
PTA: +643M +14F +21P
PTAT: +3.2

Ecuafarm Koyote Reina
USA 460874 EX-93 2E
3-01 298 20212 4.3 865 3.3 657
4-01 365 25770 3.7 965 3.2 816
5-08 362 30730 4.2 1286 3.4 1059

3rd Dam:
Hard Core Othello Rozella EX93 2E

4th Dam:
Horizon Enhancer Rozlyn-EXP EX90-2E

Hard Core MRB Rockstar
USA 68307669 VG-85
2-00 305 12235 3.6 444 3.1 380
330 13139 3.6 478 3.1 408
3-01 175 8768 3.9 339 3.0 265 RIP
305 13503 3.9 522 3.1 413 Proj

HCTH Margaritas Rebel-ET
USA 457509
PTA: +97M -9F -3P
PTAT: +0.9

Hard Core Acad Rowan
USA 468557 EX-90
2-02 298 16280 3.5 562 3.1 501
3-01 311 18540 3.7 682 3.3 604
4-01 331 17990 3.3 600 3.2 571
Resv AA Jr. 3 Yr old 2010

LOT 27 DOB: 9/29/2013 HARD CORE PLAYBOY ROYALS 68314558 H203

Spungold-R CD Playboy-ET
USA 68302215
PTA: -938M -34F -25P
PTAT: -0.5

Bar-D Krauses Fawns C.D.
USA 454666
PTA: -49M +1F -4P
PTAT: -2.4

Gold Mine Poppys OT Kay
USA 446516 EX-95 2E
3-10 305 26713 4.1 1085 3.1 841
4-10 365 46666 3.3 1544 3.1 1427
5-10 365 43840 3.4 1484 3.1 1340
7-11 365 46980 3.4 1587 3.1 1437
LIFE: 230009M 7888F 7044P

Hard Core Money Remington
USA 68301987 EX-91
2-02 305 14680 4.5 656 3.6 522
343 15660 4.5 710 3.6 562
3-03 285 11810 4.3 510 3.7 435
4-02 255 10320 4.5 465 3.6 372
Nom AA Jr 2 yr old 2010

HCTH Rebels Money-ET
USA 370010790
PTA: +368M -7F +13P
PTAT: -0.5

Hard Core Othello Rozella
USA 451283 EX-93 2E
3-07 365 24090 3.7 902 3.4 814
4-10 343 25950 3.8 996 3.2 842
5-11 325 21890 3.8 832 3.3 721
6-10 365 26360 3.7 984 3.2 852
8-01 365 23590 3.6 849 3.2 759
9-04 335 26320 3.8 990 3.1 824
10-05 365 26430 3.7 987 3.2 851

3rd Dam:
Horizon Enhancer Rozlyn-EXP EX90-2E

APPENDIX D

SUPER SAMPLERs

RECOGNIZE

7JE1261 CINNAMON RIDGE V RECOGNIZE-ET
USA118120117 JH1F

Sire: All Lynns Legal Visionary-ET
Dam: Cinnamon Ridge Artis Praise (VG-87%)
5-0 305d 26,960M 4.9% 1,331F 3.6% 970P
MGS: ISDK Jas Artist
MGD: Woodstock Hallmark Louisa (VG-88%)

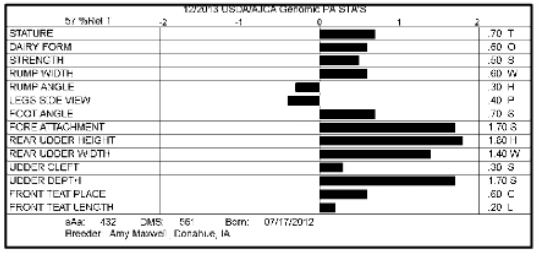
FeedPRO

USDA-CDCB Genomic Eval. (12/13)

(Rel 61%)	+1,491Milk	% Test	Lbs.	Net Merit (Rel 56%)	+$ 524
Protein		- .01	+ 50	Cheese Merit	+$ 558
Fat		- .06	+ 57	Fluid Merit	+$ 498

USDA/AJCA Genomic Evaluation (12/13)
+1.7Type Rel 57% GJPI +218
Jersey Udder Index +4.01
SCS 2.83 (Rel 55%) PL +3.5 (Rel 47%) DPR +0.0 (Rel 45%)

- Expect consistent performance with this Visionary son
- His Very Good (87%) Artist dam has two records over 25,000 pounds of milk
- Five generations of Excellent and Very Good dams with regular calving intervals



#1

GRANT

7JE1301 TRANS OVA CRITIC GRANT F655-ET
8403008897846 JH1C

Sire: Schultz Legal Critic-P
Dam: Tollenaar Louie 6528
MGS: Tollenaars Impuls Louie 260-ET
MGD: Tollenaar Matinee 4741 (VG-85%)

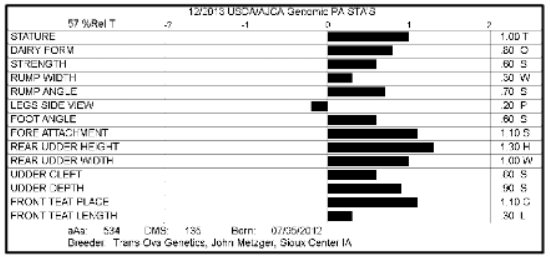
HEALTHMARK
FeedPRO

USDA-CDCB Genomic Eval. (12/13)

(Rel 61%)	+1,246Milk	% Test	Lbs.	Net Merit (Rel 56%)	+$ 498
Protein		- .05	+ 35	Cheese Merit	+$ 499
Fat		- .11	+ 39	Fluid Merit	+$ 500

USDA/AJCA Genomic Evaluation (12/13)
+1.2Type Rel 57% GJPI +185
Jersey Udder Index +2.92
SCS 2.88 (Rel 55%) PL +5.3 (Rel 48%) DPR +1.5 (Rel 46%)

- One of Critic's highest Milk sons
- Built for all milk markets – with high merit numbers
- Positive for PL, DPR and low SCS with solid Type



#2

NEAL

7JE1300 TRANS OVA BROILER NEAL F539-ET
USA118082729 JH1F

Sire: Isdk DJ Broiler
Dam: Tollenaar Louie 6528
MGS: Tollenaars Impuls Louie 260-ET
MGD: Tollenaar Matinee 4741 (VG-85%)

HEALTHMARK

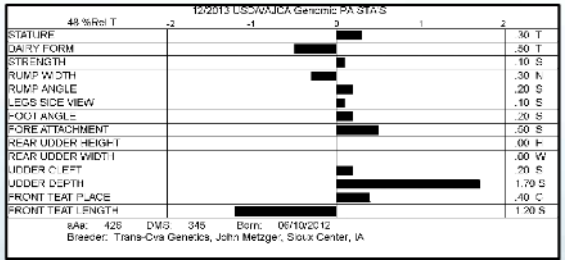
FeedPRO

USDA-CDCB Genomic Eval. (12/13)

(Rel 57%)	+253Milk	% Test	Lbs.	Net Merit (Rel 52%)	+$ 467
Protein		+ .04	+ 17	Cheese Merit	+$ 519
Fat		+ .18	+ 45	Fluid Merit	+$ 414

USDA/AJCA Genomic Evaluation (12/13)
+0.3Type Rel 48% GJPI +141
Jersey Udder Index +2.06
SCS 2.75 (Rel 49%) PL +5.2 (Rel 42%) DPR +1.4 (Rel 40%)

- An early Broiler son that offers low GFI
- High Merit values and positive components
- A good source of PL, DPR and low SCS



#3

CROSBY-P

SUPER SAMPLERs

7JE1277 DUTCH HOLLOW CROSBY-P-ET
USA67184843 JH1C

Sire: Schultz Legal Critic-P
Dam: Dutch Hollow Louie Charity (VG-86%)
MGS: Tollenaars Impuls Louie 260-ET
MGD: Dutch Hollow Gm Cherish (E-90%)

Polled

FeedPRO

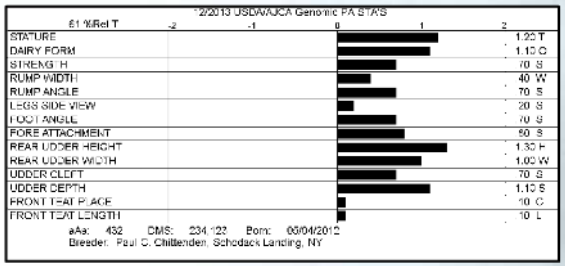
USDA-CDCB Genomic Eval. (12/13)

(Rel 65%)	+1,282Milk	% Test	Lbs.	Net Merit (Rel 60%)	+$ 392
Protein		- .01	+ 44	Cheese Merit	+$ 422
Fat		- .03	+ 51	Fluid Merit	+$ 371

USDA/AJCA Genomic Evaluation (12/13)
+1.1Type Rel 61% GJPI +174
Jersey Udder Index +3.01
SCS 2.90 (Rel 59%) PL +2.2 (Rel 52%) DPR -0.6 (Rel 49%)

DUTCH HOLLOW LOUIE CHARITY (VG-86%)
2-10 305d 3X 26,150M 4.7% 1,232F 3.4% 896P

- Two generations of 26,000 pounds actual milk
- One of Critic's highest sons for PTA Milk and CFP
- Polled genetics from Dutch Hollow



#4

COW PAGE DHI-103 | Test Date: **07-11-2014** Processed: **07-14-2014** | **42-77-0074** **I O STATE DAIRY** | String 1

Barn Name	Index
7705	**7705**

Breed	Country	Identification	Birth Date	Body Wt.	Inbrd. Coef.	DCR Milk
HO	USA	63429020 985000001159272	05-20-08	1460	8.2	

Predicted Transmitting Ability								Estimated Relative Producing Ability			
Milk	%Fat	Fat	%Pro	Pro	$	%Rel	%Rank	Milk	Fat	Pro	$
-765	+.01	-26	+.02	-19	-234	58		-5137	-164	-168	-2204

Test Day Data					Lact No.		4	Calving Date			09-08-13	
DIM	32	67	95	159	200	235	270					
Milk	99	107	98	87	75	65	49					
Fat %	3.2	4.1	3.2	2.0	3.6	3.0	4.0					
Pro %	2.5	2.7	3.0	2.7	2.9	2.9	3.0					
SCC	1715	606	230	200	187	696	81					

Sire — ELM ELDWIN

Breed	Country	Identification	AI Code / Name	Inbrd
HO	USA	17281340	1HO05502 ELDWIN	8.7

PTA	Milk	%Fat	Fat	%Pro	Pro	$	%Rel	%Rank
	-385	-.09	-36	+.05	+2	-139	99	

Dam

Breed	Country	Identification	Barn Name / Index	Inbrd
HO	USA	133195930	2197	4.6

PTA	Milk	%Fat	Fat	%Pro	Pro	$	%Rel	%Rank
	-555	+.00	-20	-.02	-23	-196	63	

MGS — NUNESDALE KISMET ELATION-ET

Breed	Country	Identification	AI Code / Name	Inbrd
HO	USA	2280338	7HO06247 ELATION	3.0

PTA	Milk	%Fat	Fat	%Pro	Pro	$	%Rel	%Rank
	+322	-.07	-7	-.04	-1	-38	99	2

Lact No.	Test Plan	Calving Date	Age at Calving	Days Dry	Days Open	NO. BR.	305 Day Lactation Milk	% Fat	Fat	% Pro	Pro	Days 3X	Complete Lactation DIM	Milk	Fat %	Fat	Pro %	Pro	CAR	ME Lactation Milk	Fat	Pro	Herdmate Deviation Milk	Fat	Pro
1	2	06-09-10	2-00		101	1							301	17,087	4.0	688	3.1	534		21,870	875	657	-5717	-52	-181
2	2	05-23-11	3-00	47	96	2						269	269	15,770	3.4	537	2.9	461		16,206	576	476	-9929	-365	-299
3	2	05-14-12	3-11	88	206	3	20,534	3.6	731	2.9	596	402	402	24,973	3.6	892	2.9	735		18,913	704	565	-5830	-180	-176
													365	23,497	3.6	838	2.9	689							
4	2	09-08-13	5-03	80	59	5						291	291	23,953	3.2	769	2.8	676		22,667	744	650	-4108	-220	-182
LIFETIME		4 Number of Lactations			95 Reproductive Efficiency					55 Average Milk/Day			1263 Totals	81,783	3.5	2886	2.9	2406		19,914 Averages	725	587	-6396	-204	-209

* Dry thru Test Date: 07-11-14
Dried on 06-26-14
Number of Breedings = 1
Last Bred 11-06-13 To 1HO10989 HO Preg

Barn Name **7705** Index **7705**

Barn Name	7705	Index Number	7705	Identification	63429020

COW PAGE DHI-103 | Test Date: 07-11-2014 | Processed: 07-14-2014 | 42-77-0074 | I O STATE DAIRY | String 1

Barn Name	Index
7898	7898

Breed	Country	Identification	Birth Date	Body Wt.	Inbrd. Coef.	DCR Milk
HO	USA	65927766 984000001159230	01-25-09	1460	5.3	

Predicted Transmitting Ability								Estimated Relative Producing Ability			
Milk	%Fat	Fat	%Pro	Pro	$	%Rel	%Rank	Milk	Fat	Pro	$
+1074	+.02	+44	-.02	+27	+331	82	84	+2477	+126	+45	+979

Test Day Data					Lact No.		3	Calving Date		05-10-13	
DIM	35	76	118	153	188	216	280	321	356	391	
Milk	132	118	106	111	102	90	82	72	64	46	
Fat %	4.5	3.6	4.0	3.9	3.6	3.3	3.3	3.9	3.5	4.3	
Pro %	2.8	2.6	2.8	2.9	3.2	3.2	3.1	3.1	3.0	3.1	
SCC	50	2786	3430	1493	2986	3200	152	87	100	132	

Sire — HONEYCREST RUFFIAN-ET

Breed	Country	Identification	AI Code / Name	Inbrd
HO	USA	132135953	11HO07871 RUFFIAN	3.8

PTA	Milk	%Fat	Fat	%Pro	Pro	$	%Rel	%Rank
	+1586	-.04	+46	-.01	+45	+371	99	45

Dam

Breed	Country	Identification	Barn Name / Index	Inbrd
HO	USA	63428625	7310	16.4

PTA	Milk	%Fat	Fat	%Pro	Pro	$	%Rel	%Rank
	+1114	-.06	+24	-.03	+26	+201	82	56

MGS — HA-HO CUBBY MANFRED-ET

Breed	Country	Identification	AI Code / Name	Inbrd
HO	USA	2183007	14HO02090 MANFRED	5.2

PTA	Milk	%Fat	Fat	%Pro	Pro	$	%Rel	%Rank
	+834	-.02	+25	+.00	+26	+264	99	26

Lact No.	Test Plan	Calving Date	Age at Calving	Days Dry	Days Open	NO. BR.	305 Day Lactation					Days 3X	Complete Lactation						CAR	ME Lactation			Herdmate Deviation		
							Milk	% Fat	Fat	% Pro	Pro		DIM	Milk	Fat %	Fat	Pro %	Pro		Milk	Fat	Pro	Milk	Fat	Pro
1	2	12-27-10	1-11		136	1	23,192	3.5	816	2.9	667	71	367 365	27,321 27,215	3.6 3.5	970 966	2.9 2.9	792 788		28,247	982	798	+1654	+55	-8
2	2	02-13-12	3-00	46	177	3	30,056	3.5	1063	2.8	835	409	409 365	37,442 34,716	3.6 3.6	1348 1240	2.8 2.8	1065 982		29,001	1063	810	+5834	+240	+126
3	2	05-10-13	4-03	43	160	3	31,640	3.9	1221	3.0	936	391	391 365	37,129 35,753	3.8 3.8	1427 1373	3.0 3.0	1105 1063		28,587	1154	873	+2418	+208	+60
LIFETIME		3 Number of Lactations			94 Reproductive Efficiency						81 Average Milk/Day		1167 Totals	101,892	3.7	3745	2.9	2962		28,612 Averages	1066	827	+3302	+168	+59

* Dry thru Test Date: 07-11-14
Dried on 06-05-14
Number of Breedings = 3
Last Bred 10-17-13 To 1HO10598 HO Preg
Prev Bred 09-05-13 To 1HO10696 HO
Prev Bred 07-25-13 To 1HO10824 HO

Barn Name	7898	Index Number	7898	Identification	65927766

Barn Name 7898 Index 7898

COW PAGE DHI-103 | Test Date: 07-11-2014 | Processed: 07-14-2014 | 42-77-0074 | I O STATE DAIRY | String 1

Barn Name	Index
7966	7966

Breed	Country	Identification	Birth Date	Body Wt.	Inbrd. Coef.	DCR Milk
HO	USA	65927834 985000001159349	04-01-09	1460	4.7	

Predicted Transmitting Ability								Estimated Relative Producing Ability			
Milk	%Fat	Fat	%Pro	Pro	$	%Rel	%Rank	Milk	Fat	Pro	$
+54	-.02	-4	+.04	+12	+212	81	58	-881	-169	+9	-405

Test Day Data					Lact No.		3	Calving Date		07-12-13		
DIM	13	55	90	125	153	217	258	293	328			
Milk	94	56	93	88	73	65	61	61	50			
Fat %	3.7	2.5	1.5	2.4	2.2	2.6	2.6	2.6	4.0			
Pro %	3.0	3.2	3.3	3.5	3.7	3.5	3.5	3.5	3.1			
SCC	696	3940	132	566	746	857	1838	429	200			

Sire — HONEYCREST BOMBAY NIFTY-ET

Breed	Country	Identification	AI Code / Name	Inbrd
HO	USA	132135971	14HO04148 NIFTY	2.9

PTA	Milk	%Fat	Fat	%Pro	Pro	$	%Rel	%Rank
	+354	-.06	-3	+.05	+22	+571	99	89

Dam

Breed	Country	Identification	Barn Name / Index	Inbrd
HO	USA	63428653	7-7338 7338	6.0

PTA	Milk	%Fat	Fat	%Pro	Pro	$	%Rel	%Rank
	-379	-.01	-17	+.03	-3	-47	83	8

MGS — REGANCREST-HHF MALIN-ET

Breed	Country	Identification	AI Code / Name	Inbrd
HO	USA	127549271	29HO10370 MALIN	5.2

PTA	Milk	%Fat	Fat	%Pro	Pro	$	%Rel	%Rank
	-107	+.01	-1	+.03	+4	+117	99	11

Lact No.	Test Plan	Calving Date	Age at Calving	Days Dry	Days Open	NO. BR.	305 Day Lactation					Days 3X	Complete Lactation						CAR	ME Lactation			Herdmate Deviation		
							Milk	% Fat	Fat	% Pro	Pro		DIM	Milk	Fat %	Fat	Pro %	Pro		Milk	Fat	Pro	Milk	Fat	Pro
1	2	04-10-11	2-00		164	1	22,690	3.1	708	3.1	709	137	396 365	28,502 26,707	3.3 3.2	928 853	3.2 3.1	906 840		27,413	852	830	+1183	-77	+49
2	2	07-01-12	3-03	52	100	5	25,399	2.9	743	3.3	837	305	333	26,755	2.9	784	3.3	887		26,590	790	862	+873	-133	+82
3	2	07-12-13	4-03	43	130	3	22,098	2.3	511	3.4	749	363	363	24,944	2.5	618	3.4	840		21,323	511	736	-5580	-464	-94
LIFETIME	3 Number of Lactations			94 Reproductive Efficiency			67 Average Milk/Day						1092	80,201	2.9	2330	3.3	2633		25,109	718	809	-1175	-225	+12
													Totals							Averages					

* Dry thru Test Date: 07-11-14
Dried on 07-10-14
Number of Breedings = 3
Last Bred 11-19-13 To 1HO10915 HO Preg
Prev Bred 11-07-13 To 1HO10915 HO
Prev Bred 09-26-13 To 1HO10218 HO

Barn Name 7966 | Index 7966

Barn Name	7966	Index Number	7966	Identification	65927834

COW PAGE DHI-103 | Test Date: 07-11-2014 | Processed: 07-14-2014 | 42-77-0074 | I O STATE DAIRY | String 1

Barn Name	Index
8083	8083

Breed	Country	Identification	Birth Date	Body Wt.	Inbrd. Coef.	DCR Milk
HO	USA	65927951 984000001159347	08-08-09	1460	3.3	

Predicted Transmitting Ability								Estimated Relative Producing Ability			
Milk	%Fat	Fat	%Pro	Pro	$	%Rel	%Rank	Milk	Fat	Pro	$
+275	-.05	-3	+.01	+10	+116	82	34	+2310	+8	+45	+788

Test Day Data					Lact No.		3	Calving Date		07-02-13		
DIM	23	65	100	135	163	227	268	303	338			
Milk	112	108	114	113	105	96	84	73	52			
Fat %	3.1	3.1	2.6	2.9	3.6	3.3	3.0	3.4	4.2			
Pro %	2.9	2.7	2.8	3.3	3.2	3.2	3.3	3.4	3.4			
SCC	31	13	47	13	17	23	33	38	71			

Sire J-K-R BW-MARSHLL BILLION-ET

Breed	Country	Identification	Al Code / Name	Inbrd
HO	USA	132035749	14HO04099 BILLION	3.6

PTA	Milk	%Fat	Fat	%Pro	Pro	$	%Rel	%Rank
	+774	-.11	-1	+.04	+34	+326	99	36

Dam

Breed	Country	Identification	Barn Name / Index	Inbrd
HO	USA	61963142	5-6624	1.5

PTA	Milk	%Fat	Fat	%Pro	Pro	$	%Rel	%Rank
	-143	+.04	+5	+.01	-2	-32	82	9

MGS HOSKING RUDOLPH LEVI-ET

Breed	Country	Identification	Al Code / Name	Inbrd
HO	USA	120566918	29HO09545 LEVI	3.8

PTA	Milk	%Fat	Fat	%Pro	Pro	$	%Rel	%Rank
	+1110	-.06	+24	+.02	+38	-2	96	3

Lact No.	Test Plan	Calving Date	Age at Calving	Days Dry	Days Open	NO. BR.	305 Day Lactation Milk	% Fat	Fat	% Pro	Pro	Days 3X	Complete Lactation DIM	Milk	Fat %	Fat	Pro %	Pro	CAR	ME Lactation Milk	Fat	Pro	Herdmate Deviation Milk	Fat	Pro
1	2	07-08-11	1-11		56	1						46	286	20,405	3.4	685	2.9	586		28,387	941	780	+1544	-20	-9
2	2	06-02-12	2-09	44	117	1	27,555	3.2	875	2.9	793	348	348	30,869	3.2	991	2.9	906		28,785	931	815	+3942	+38	+66
3	2	07-02-13	3-10	47	114	2	30,826	3.1	966	3.1	953	345	345	33,209	3.2	1057	3.1	1034		30,556	984	949	+3752	+14	+121
LIFETIME	3 Number of Lactations			104 Reproductive Efficiency			79 Average Milk/Day						979	84,483	3.2	2733	3.0	2526		29,243	952	848	+3079	+11	+59
													Totals							Averages					

* Dry thru Test Date: 07-11-14
Dried on 06-12-14
Number of Breedings = 2
Last Bred 10-24-13 To 1HO11014 HO Preg
Prev Bred 09-12-13 To 1HO10989 HO

Barn Name	8083	Index Number	8083	Identification	65927951

Barn Name 8083 Index 8083

2014 Iowa FFA Dairy Cattle Evaluation CDE Key

Test Key

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

DHIA Questions

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

Dairy Management

56. A
57. C
58. B
59. B
60. C

Sire Evaluation Questions

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

Pedigree Evaluation

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

Phase E Pedigree Placing

Placing 2 - 3 - 1 - 4 **Cuts 2- 1- 4**

2- Highest milk, fat, protein on the dam side
Excellent dam, not as good sire info

3- Close middle pair,
Sire had higher milk, fat, protein than #1
Higher PTAT
Dam records similar

1- Close to #3

4- Lowest PTA milk, fat, protein (sire)
Lowest PTAT, Excellent grandmothers
Lowest dam production

Phase F Sire Selection

Placing 1 - 2 - 4 - 3 **Cuts 4- 3 - 4**

1- Highest JPI (218)
Highest Net Merit
Highest Cheese & Fluid
Highest Type & JUI
PL (3.5)

2- 2nd high JPI
2nd high Net Merit
2nd high Cheese & Fluid
Highest PL (5.3)

4- 3rd JPI
Lower DPR, Low PL (2.2)

3- Fourth JPI
High PL (5.2)
Small teat size
Lowest NM, Cheese & Fluid

Phase G Culling

Placing 1 - 3 - 2 - 4 **Cuts 3 - 3 - 4**

1- Lowest milk, fat, protein
Biggest difference from herd mates
Med SCC
95 Reproductive Efficiency

3- Negative herd mate differential
Higher SCC
(Not consistent-SCC)
94 Reproductive Efficiency

2- Positive herd mate differential
High SCC, early in lactation
94 Reproductive Efficiency

4 Second highest herd mate differential
Superior in SCC & Reproductive Efficiency
Low SCC
104 Reproductive Efficiency