

2016 Iowa FFA Dairy Cattle Evaluation CDE Test
West Union, Iowa September 10, 2016

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

25 Objective Questions -- 2 pts. each

1. At birth, which stomach area is the largest in the calf?
a. Abomasum b. Omasum c. Reticulum d. Rumen
2. What is the name of milk sugar?
a. Dextrose b. Fructose c. Lactose d. Sucrose
3. How does a robotic milker find the teats of a cow ready to be milked?
a. Lasers or vision cameras b. Milk detection sensors
c. Sonomatic cell sensors d. Teat sphincter sensors
4. When using automated teat scrubbers, it takes approximately how many seconds of contact time to complete cleaning?
a. 1-2 seconds b. 2-4 seconds c. 4-5 seconds d. 6-8 seconds
5. Washing the udder prior to milking stimulates the release of _____ which induces milk letdown.
a. Adrenaline b. Estrogen c. Oxytocin d. Testosterone
6. Ninety-eight percent of micro-organisms that call the rumen home are what type of microbe?
a. Archaea b. Bacteria c. Fungi d. Protozoa
7. This substance forms in the tip of each teat when the cow is dry. It aids in sealing the teats to prevent infection in the udder.
a. Keratin b. Mucus c. Opaque d. Skin
8. Dystocia refers to:
a. Calving ease b. Energy Consumption c. Herd Health d. Mastitis
9. 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
10. Which of the following feeds usually contains the most protein?
a. Alfalfa hay b. Corn grain c. Corn silage d. Soybean oil meal
11. In order for effective fermentation to occur in a silage pile, what element must be absent?
a. Carbon b. Hydrogen c. Nitrogen d. Oxygen
12. The time period that a cow carries a calf is called?
a. Gestation b. Lactation c. Parturition d. Rumination

13. Which single characteristic is most strongly associated with dairy strength?
a. Chest width b. Foot angle c. Muscularity d. Udder depth
14. Until how many hours old will a calf's intestine absorb the disease-fighting ingredients of colostrum?
a. 4 b. 12 c. 24 d. 48
15. The first milk secreted after calving is called _____.
a. Clostridia b. Collagen c. Coliform d. Colostrum
16. When artificially inseminating, what part of the reproductive tract is the target for depositing semen?
a. Ovary b. Oviduct c. Uterine body d. Vulva
17. Cows exposed to sunlight will readily make which vitamin on their own?
a. A b. D c. E d. K
18. The amount of time a cow ruminates or chews her cud can be an indicator of cow health. Healthy cows tend to ruminate how many minutes per day?
a. 60-120 minutes b. 250-350 minutes c. 450-550 minutes d. 620-720 minutes
19. Which component in colostrum fed during the first day of life is most critical to the health and survival of the calf?
a. Immunoglobulin b. Somatic cells c. Vitamin A d. Vitamin D
20. Statistically we get how many lactations from a dairy cow before she leaves the herd?
a. Less than 3 b. Less than 5 c. 7 d. 10
21. In what process is the nucleus removed from an unfertilized oocyte and replaced by a nucleus of another cell?
a. Conception b. Cloning c. Embryo transfer d. In-vitro fertilization
22. Where is oxytocin stored and released:
a. Adrenal gland b. Corpus luteum c. Ovarian follicle d. Pituitary gland
23. "UHT" milk is pasteurized at what approximate minimum temperature in degrees Fahrenheit?
a. 145 b. 161 c. 191 d. 280
24. What component causes the yellow color in milk from certain breeds of dairy cattle?
a. Beta carotene b. Beta hydroxybutyrate c. Lactose d. Protein
25. In March, 2016, US inventories of what dairy products climbed to their highest level since June, 1984, reaching 1.2 million pounds in storage?
a. Butter b. Cheese c. Dry milk d. Milk

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 main reason that cows left the herd?
a. Died b. Feet and legs c. Low production d. Reproduction
52. What is the number of cows in herd on the test day of 05-05-16?
a. 379 b. 403 c. 405 d. 414
53. What was the dollar herd production loss from SCC during the test period?
a. 11.52 b. 1428 c. 4144 d. 9778
54. What was the rolling yearly herd average for fat on 01-06-16?
a. 894 b. 903 c. 909 d. 912
55. What was the total number of pregnant cows on 05-05-16?
a. 147 b. 193 c. 198 d. 414

Dairy Management Problems -- 5 pts each

56. A cow consumes 75 pounds of corn silage that contains 58% moisture. How many pounds of dry matter does it contain?
a. 29.5 b. 31.5 c. 43.5 d. 45.5
57. You want to make a 16.5% protein ration using 8.9% protein corn and 42.5% protein soybean meal. How many pounds of soybean meal are needed to make a two-ton ration?
a. 450.5 b. 905 c. 1547.5 d. 3095
58. What is the percent protein in the following ration?
- | | | |
|---------------------|------|-------|
| Corn silage | 1000 | 3.8% |
| Ground shelled corn | 850 | 9.1% |
| Whole cottonseed | 400 | 23.4% |
| Haylage | 1700 | 6.1% |
| Hay | 450 | 21.7% |
| Protein Mix | 400 | 41.5% |
| Minerals | 300 | 0% |
- a. 9.98% b. 10.78% c. 11.30% d. 11.78%

59. What is the component value of a hundredweight of milk if the farm produces 415,000 pounds of milk with the following:

Components		\$Basis Milk Value
Butterfat	4.84%	1.574
Protein	4.12%	4.217
Solids	5.77%	.0782
SCC	260,000	.41

- a. \$22.27 b. \$23.92 c. \$24.06 d. \$25.85

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	40,700 lbs	\$110.00/ton	19.1
Alfalfa 3x4 bales	21,650 lbs	\$98/ton	16.3
Grass large round	57,540 lbs	\$75/ton	12.7
Grass 3x3 bales	26,500 lbs	\$70/ton	11.6

- 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 (ST Genetics- All Milking Shorthorn Sires--13 results)** to answer the following questions.

61. What factor would put Romeo as the highest ranking sire on this sire report?

- a. %fat b. PL c. PTA type d. SCS

62. What two bulls should raise the component value of fat and protein?

- a. Adam-P and Bon Jovi b. Bon Jovi and Prince
c. Romeo and Logic d. Snoopy and Romeo

63. Which bull should be considered if you are interested in raising the type score of the daughters?

- a. Famous b. Millionaire c. Prince d. Royalty

64. What factor has put Bon Jovi as the highest ranking sire on this sire report?

- a. PL b.PTA-milk c. PTA-type d. SCS

65. What factor would make the bull Millionaire a suitable choice?

- a. Net Merit b. PPR c. PTA-Milk d. %Protein

Pedigree Questions -- 5 pts each

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

- #1 Lot 22 Lee-Anns Gib Sangria
- #2 Lot 23 Lee-Anns Frosty Pleasure
- #3 Lot 24 Fanfare Torch Flame
- #4 Lot 25 Trout Run Jean P ET

66. Which heifer did not originate in Iowa?

- a. #1
- b. #2
- c. #3
- d. #4

67. Which pedigree showcased the greatest show ring winnings and other honors?

- a. #1
- b. #2
- c. #3
- d. #4

68. Which heifer is an embryo transfer?

- a. #1
- b. #2
- c. #3
- d. #4

69. What breed is represented by these pedigrees?

- a. Ayrshire
- b. Brown Swiss
- c. Holstein
- d. Jersey

70. What is the name of the paternal grandfather of heifer #2?

- a. Jo-Lane Frosty ET
- b. Oak Forest Premium Flora
- c. RNP Payoff Brookings ET
- d. Top Acres GM Brock

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 22 Lee-Anns Gib Sangria
- #2 Lot 23 Lee-Anns Frosty Pleasure
- #3 Lot 24 Fanfare Torch Flame
- #4 Lot 25 Trout Run Jean P ET

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 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 Avon
- #2 Bonanza
- #3 Dandee
- #4 Leonel

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 freshen 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 8785
- #2 Index 8806
- #3 Index 8887
- #4 Index 9729

HERD SUMMARY

Test Date Samples at Lab Processed
05-05-2016 05-06-2016 05-06-2016

42-77-0074
IO STATE DAIRY
JOE DETRICK

DHI-202

Electronic Meters	Breed	HO	Type Test	DHI-APCS	Assoc.	400	Supv.	97	String	1
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Production, Income & Feed Cost Summary

	Daily Average per Cow on Test Day		Rolling Yearly Herd Averages			
	Number	%	Number	%		
Total Cows	414		405.0			
Cows in Milk	379	92	360.5	89		
Milk Lbs (All Cows)	74.9		25769			
Fat Lbs (All Cows)	2.68		912			
Fat %	3.6		3.5			
Protein Lbs (All Cows)	2.20		795			
Protein %	2.9		3.1			
Milk Lbs (Milking Cows)	81.9					
	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 \$	11.52	10.46	4144			
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	Cows With No Service Dates or Diag. Open			Cows Bred But Not Diag. Preg.			
			Open VWP to 100 Days	Open Over 100 Days	Number Diag. Open	Days Open at Last Service			
147	50	70	37	11	12	Number Cows	49	26	24
			25	7	8	% of Breeding Herd	33	18	16

Reproductive Summary Of Total Herd

	Days Open at 1st Service			Avg. Days to 1st Service	Services per Pregnancy		Projected Minimum		Service or Heat Interval		Services for Past 12 Months			
	Number Under VWP	Number VWP to 100	Number Over 100		Preg. Cows	All Cows	Calving Interval	Days Open	Interval Length	Number Intervals	Service Number	Number Services	Conception Rate	Service Sire Merit \$
1st Lact	2	109		68	2.0	2.5	12.5	99	< 18	25	1st	393	43	+726
2nd Lact		88		70	2.0	2.5	12.6	104	18 - 24	106	2nd	217	30	+722
3+ Lacts		105		71	2.1	3.2	12.9	112	36 - 48	206	3rd +	293	34	+722
All Lacts	2	302		69	2.0	2.7	12.7	105	Other	62	Total	903	37	+724
% of All 1st Services	1	99			Current Actual Calving Interval		12.7				Abortions	This Test	Past Year	
											Actual		1	
											Apparent	5	33	

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	3	98	6	99	20	18	9	6
2+	143	6	136	5	217	19	22	10	4
Total	187	9	234	11	316	39	40	19	5

Cows To Be Milking, Dry, Calving By Month

	Jun	Jul	Aug	Sep	Oct	Nov
* Milking	364	370	382	368	378	353
Dry	46	40	32	42	38	59
Cows to Calve	19	26	29	24	29	27
Heifers to Calve	8	11	15	6	17	7

* Assumes 2.6% 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	58	47	33	90	25	53	185
5-27-15	62	41	29	86	46	30	209
7-09-15	57	36	25	99	44	39	223
8-13-15	53	22	15	72	29	45	212
9-16-15	70	28	25	98	27	36	201
10-21-15	57	40	29	87	26	43	190
11-18-15	62	40	34	68	29	35	187
1-06-16	58	32	23	109	45	69	185
2-17-16	62	44	28	105	35	52	182
3-23-16	64	24		92	42	50	193
5-05-16	57			118	31	35	193
Averages	60	34	26	93	35	43	198
Totals				934		434	

Miscellaneous Herd Information

	Shipped-Test Day Comparison		Milking Times	Wgh	Spl
	Test Day	Yearly Avg.			
Sum of Test Day Wts	30817	28551	1st	12:03pm	Y N
Reported Avg. Daily Bulk Tank Wts			2nd	8:08pm	Y N
% Deviation			3rd	4:15am	Y Y

Remarks:

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

Herd Code 42-77-0074 Test Date 05-05-2016 Breed HO String 1

Identification And Genetics (Genetic Data Source: CDCB)

Stage Of Lactation Profile

		Stage of Lactation (Days)						Total or Average
		1 - 40	41 - 100	101 - 199	200 - 305	306 +		
Number Milking	1st Lact	9	32	41	32	17	131	
	2nd Lact	12	25	35	34	10	116	
	3+ Lacts	5	24	44	35	21	129	
	All Lacts	26	81	120	101	48	376	
Average Daily Milk	1st Lact	78	88	86	74	56	79	
	2nd Lact	97	106	92	72	46	86	
	3+ Lacts	96	109	93	64	52	82	
	All Lacts	90	100	90	70	52	82	
% Fat & Pro	1st Lact	% Fat	4.4	3.3	3.4	3.6	4.3	3.6
		% Pro	3.0	2.8	2.9	3.1	3.5	3.0
	2nd Lact	% Fat	4.5	3.6	3.4	3.4	4.2	3.6
		% Pro	3.1	2.7	2.9	3.1	3.4	3.0
	3+ Lacts	% Fat	4.8	3.5	3.7	3.6	4.0	3.7
		% Pro	3.3	2.8	2.9	3.2	3.3	3.0
	All Lacts	% Fat	4.5	3.5	3.5	3.5	4.1	3.7
		% Pro	3.1	2.8	2.9	3.1	3.4	3.0
SCC ACT	1st Lact	364	60	113	90	206	119	
	2nd Lact	120	157	96	101	954	156	
	3+ Lacts	85	156	266	436	115	251	
	All Lacts	190	122	165	201	302	175	
SCC ACT >= 200	Number	6	11	20	19	14	70	
	Percent	23	14	17	19	29	18	

Weighted SCC ACT (Nearest 1,000)

Age Group	Number Animals	Avg. Age (Yr-Mo)	Num. Ident. By		Number ID Changes	No. Animals with Merit \$	Average Merit \$		Herd Merit \$ Option	Genetic Profile of Service Sires			
			Sire	Dam			Animal	Sire		A.I. Progeny Tested	A.I. Genomic Tested	All Other A.I. Bulls	Non A.I. Bulls
0 - 12	224	0-06	224	224		224	+403	+652	NM				
13+	132	1-05	132	132		132	+337	+544					
Replacements	356	0-10	356	356		356	+378	+611					
1st Lact	151	1-11	151	151		102	+268	+482			98		2
2nd Lact	124	2-11	124	124		124	+178	+325			17		
3+ Lacts	139	4-10	137	134	6	138	+102	+209					
All Lacts	414	3-02	412	409	6	364	+175	+344					102
% Identified (Producing Females)			100	99	No. Heifers Age Over 30 Months						98		

Production By Lactation Summary

Lactation	Number of Cows	Avg. Age (Mo)	Peak Milk	Summit Milk	Proj 305 Day ME			Difference From Herdmates			Avg. Body Wt.
					Milk	Fat	Pro	Milk	Fat	Pro	
1st Lact	151	23	88	85	25345	878	769	+1180	+29	+32	1210
2nd Lact	124	35	107	103	25528	894	772	+1275	+46	+32	1330
3+ Lacts	139	58	113	107	23258	865	716	-1143	+14	-31	1460
All Lacts	414	38	102	98	24659	878	751	+366	+28	+9	1330

Somatic Cell Summary

% Cows SCC Score					
0,1,2,3	4	5	6	7,8,9	
Below 142,000	142,000 283,000	284,000 565,000	566,000 1.13 M	Over 1.13 M	
82	11	3	1	2	
74	10	5	8	3	
66	11	14	6	3	
74	11	8	5	3	
Herd Production Lost From SCC This Test Period					
Milk	9778	Dollars (\$)	1428		

Dry Cow Profile

Lact.	Number Dry Periods	Avg. Days Dry	Number Dry by Days		
			< 40	40-70	> 70
1					
2	124	51	4	119	1
3+	139	57	11	109	19
All	263	54	15	228	20

Yearly Summary Of Cows Entered And Left The Herd

Lact.	Cows Entered	Cows Left	Number of Cows Left the Herd															
			Num.	%	Num.	%	Dairy	Low Prod	Repro	Mast	Udder	Feet & Legs	Injury Other	Disease	Died	Not Rptd		
1	152	38	27	7														
2	1	32	8															
3+	8	2	86	21														
All	161	40	145	36														
			35 % 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)		150 Day Milk	Test Period Persist. Index	Test Day Averages (All Cows)				Rolling Yearly Herd Average			Somatic Cell Count Summary					MUN	Number Left Herd			
			DIM	Milk			% In Milk	Milk	%Fat	%Pro	Milk	Fat	Pro	% Cows SCC Score						Avg. SCC Linear Score	Wt. Avg. Actual SCC	Died	Sold
								0,1,2,3	4	5	6	7,8,9											
					Below 142,000	142,000 283,000	284,000 565,000	566,000 1.13 M	Over 1.13 M														
Test Dropped	37	398	180	80.5	85.5	104	92	74.4	3.3	3.0	25617	907	784	75	10	5	5	5	2.4	246	13.0	6	21
5-27-15	34	403	184	80.6	85.7	102	91	72.9	3.9	3.0	25642	908	783	74	11	5	3	7	2.5	290	19.5	3	5
7-09-15	43	405	193	81.4	88.4	103	89	72.5	3.2	3.0	25675	906	784	76	11	6	3	4	2.2	191	14.9	3	7
8-13-15	35	408	191	75.3	82.4	96	89	67.2	3.4	3.0	25653	901	784	76	7	7	2	7	2.4	385	11.4	6	7
9-16-15	34	402	192	75.3	83.3	102	89	66.8	3.4	3.0	25537	894	780	73	10	6	5	7	2.7	277	12.5	5	8
10-21-15	35	399	186	78.0	85.9	103	89	69.3	3.8	3.2	25478	895	778	78	8	2	5	6	2.4	270	15.3	8	13
11-18-15	28	393	181	76.5	83.3	97	89	68.0	3.7	3.1	25435	899	777	75	10	7	3	5	2.5	263	15.4	3	11
1-06-16	49	403	170	81.7	86.9	102	88	71.6	3.6	3.2	25404	903	778	77	9	5	3	5	2.4	229	12.7	5	13
2-17-16	42	406	171	77.9	82.5	95	90	70.3	3.5	3.1	25490	906	784	77	11	6	3	4	2.3	177	12.5	4	10
3-23-16	35	416	173	80.8	85.6	104	93	75.1	3.5	3.2	25637	909	790	75	11	6	4	5	2.6	201	11.9	3	15
5-05-16	43	414	179	81.9	87.3	100	92	74.9	3.6	2.9	25769	912	795	74	11	8	5	3	2.4	175	16.6	1	15
Averages	38	405	182	78.9	85.1	100	90	70.9	3.5	3.1				76	10	6	4	5	2.4	246	14.3	41	104

Test Period Avg. Milk Lbs Added 75.1 Dropped 71.4

Appendix B



Displaying All Milking Shorthorn Sires (13 Results)

Like 2 Share PRINT

Compare	NAAB	Name	Sire Status	Sexed	PPR	Net Merit	PTA Milk	Fat %	Prot. %	PL	SCS	PTA Type
<input type="checkbox"/>	160MS01000	BON JOVI	MACE-G	No	209	\$485	883	0.25	0.12	1.3	3.32	-0.7
<input type="checkbox"/>	76MS00444	BOLERO	Genomic	No	54	\$165	238	0.00	0.00	2.1	3.09	0.5
<input type="checkbox"/>	76MS00445	CODY-P	Genomic	No	51	\$164	-57	0.00	0.00	1.2	2.87	-0.4
<input type="checkbox"/>	76MS00443	ROMEO	Genomic	No	19	\$2	-196	0.00	0.00	0.2	2.80	0.3
<input type="checkbox"/>	76MS00049	FAMOUS	Proven	No	11	\$12	-74	-0.02	0.02	0.8	3.07	0.0
<input type="checkbox"/>	76MS00437	R. SUPREME	Proven	No	1	\$49	-259	-0.06	0.02	2.0	2.83	0.1
<input type="checkbox"/>	76MS00442	ROYALTY	Genomic	No	-3	\$61	-8	-0.02	-0.03	2.3	3.06	0.7
<input type="checkbox"/>	76MS00432	LOGIC	MACE	No	-22	\$64	-601	0.18	0.01	3.0	3.12	0.2
<input type="checkbox"/>	76MS00436	LILYHILL	Proven	No	-56	\$-154	-21	-0.10	-0.05	-0.5	3.13	-0.2
<input type="checkbox"/>	76MS00439	ADAM-P	MACE	No	-98	\$-227	-1282	0.21	0.11	-3.5	3.29	0.0
<input type="checkbox"/>	76MS00441	PRINCE	Proven	No	-101	\$-278	-696	0.00	0.01	-2.2	3.19	-0.2
<input type="checkbox"/>	76MS00440	SNOOPY	Genomic	No	-120	\$-228	-970	-0.01	-0.01	0.2	3.16	0.4
<input type="checkbox"/>	76MS00435	MILLIONAIRE	Proven	No	-137	\$-394	-1324	0.03	0.09	-5.1	3.21	-0.7

Records 1 to 13 of 13

Previous

1

Next

\$ **LOT 21** * **Olsons Carl Francesca 68160523**

Born: 06/02/2014 Tattoo: 5702
Consignor: JOHNSON, THOMAS
BUFFALO MN

Parent Average PPR: +23 PTAT: +0.1
PA: +229m +4f +12p -4NM\$

Bred 2/12/2016 to:
R HART V A ALIMONEY ET *TM 68118669
PPR: +25 86%R PTAT: +0.3 73%R (04/16)
PTA: -121m -22f -6p +131NM\$ 94%R (GEN)
PTA PL: +4.5 SCS: +2.62 DPR: +1.9 SCE: +4.9

SDF ETVEI CARLE ET *TM 68102151

Not Classified
PPR: +49 84%R PTAT: +0.1 80%R (04/16)
PTA: +203m +12f +20p +34NM\$ 88%R (MACE)
PTA PL: -2.5 SCS: +3.02 DPR: -1.4 SCE: +5.6
131 dau. av. 23955 4.0 952 3.4 808
84 class. dau. av. FS:83.0 UDC:6.09 FLC:-0.18

CIE OLSONS MAP FRANCES 68160520

Not Classified
PPR: -5 38%R
PTA: +252m -4f +9p -42NM\$ 24%\$

ETVEI *TM 198479

PPR: +23 96%R PTAT: -0.3 96%R (04/16)
PTA: +206m +5f +4p +24NM\$ 97%R (MACE)
PTA PL: +0.0 SCS: +2.94 DPR: +1.5 SCE: +6.2
18005 dau. av. 23392 4.0 947 3.3 783

MILE AWAY ZOLDO CASEY 905908

08/03 2E-E91 E93 E92 V88 V89 E91 (08/09)
PPR: +25 72%R PTAT: -0.1 79%R
PTA: -120m -2f +17p -23NM\$ 28%\$
02/03 311d 2X 21170 4.5 948 3.5 735 DHIA
03/03 305d 2X 27600 4.5 1248 3.6 1002 DHIA
04/06 305d 2X 32980 4.8 1572 3.5 1167 DHIA
07/05 365d 2X 39801 5.8 2319 3.5 1412 DHIA
Lifetime: 1557d 137340m 6857f 492p

OLSONS DYN MUSICS MAP ET 68113688

PPR: +64 68%R 00%R
PTA: +470m +11f +12p +215NM\$ 73%R
PTA PL: +3.9 SCS: +2.91 DPR: -1.9 SCE:
14 dau. av. 26990 4.0 1086 3.2 871

IE OLSONS CONDOR FRAN 68160519 NC

PPR: -11 34%R
PTA: +285m +2f +8p -126NM\$ 11%\$

Appendix C

#1
\$ **LOT 22** * **Lee-Anns Gib Sangria 68166147**

Born: 06/22/2014 Tattoo: L500
Consignor: LEE-ANNS SWISS L.L.C.
DE WITT IA

Parent Average PPR: -4 PTAT: +0.5
PA: -149m -7f -2p -35NM\$

Bred 12/4/2015 to:
CUTTING EDGE THUNDER *TM 68121893
PPR: -3 87%R PTAT: +0.4 88%R (04/16)
PTA: -481m -2f -12p +70NM\$ 92%R (GEN)
PTA PL: +2.7 SCS: +2.89 DPR: +1.0 SCE: +5.7

3rd Dam: **CJGW PS SAMMI JO 946172 'V86'**
2/03 333d 2X 20760 4.2 867 3.3 693 DHIA
4/05 322d 2X 21930 4.2 914 3.6 779 DHIA
5/05 343d 2X 20710 4.1 856 3.5 733 DHIA

4th Dam: **TOP ACRES M BOND SIMEO 917228 'V85'**

2/03 365d 2X 18420 4.2 766 3.5 647 DHIR

5th Dam: 'E90 - E91ms'

TOP ACRES M COLL SIMA ET 900175

2/02 365d 2X 22380 5.1 1130 3.4 763 DHIR

NOMINATED ALL AMERICAN WINTER YRLG 2001

BLESSING MORT GARBRO GIB ET *TM 68135492 NC

PPR: +16 62%R PTAT: +0.7 67%R (04/16)
PTA: -39m +1f -2p +24NM\$ 64%R (GEN)
PTA PL: +1.8 SCS: +3.08 DPR: +0.0 SCE: +5.4
0 dau. av.

LEE-ANNS GATEWAY SAVANNAH 68141692

04/01 V86 V86 V85 V88 V85 V87 (04/16)
PPR: -21 42%R PTAT: +0.3 50%R PTA: 15%\$
02/03 365d 2X 20490 4.1 842 3.7 760 DHIR
*03/09 182d 2X 15384 4.1 630 3.5 545 (RIP)

6th Dam: **TOP ACRES JETWAY SIMONE ET 853904**

6/02 "2E93" E93 E96 E92 E90 E92 "Certified"
5/01 365d 2X 33520 4.7 1566 3.2 1064 DHIR
HON. MEN. ALL AMERICAN SPRING YEARLING 1996
RESERVE ALL AMERICAN JR. 2 YEAR OLD 1997
HON. MEN. ALL AMERICAN JR. 3 YEAR OLD 1998

7th Dam: **TOP ACRES J SADIE 736207 "2E90"**

9/00 319d 2X 30550 4.9 1493 3.8 1158 DHIR
RESERVE ALL AMERICAN WINTER HEIFER CALF 1985
GRAND CHAMPION, SOUTHEAST NATIONAL 1989

8th Dam: **TOP ACRES ELEGANT STYLE 655719 "2E90"**

7/00 365d 2X 19030 4.4 840 3.7 701 DHIR

TOP ACRES C WONDERMENT ET *TM 196880

E90 *QUALIFIED SIRE *
PPR: +78 98%R PTAT: +0.9 99%R (04/16)
PTA: +922m +34f +23p +110NM\$ 99%R (MACE)
PTA PL: -0.5 SCS: +2.98 DPR: -3.3 SCE: +4.6
* ALL AMERICAN JR YRLG BULL 2003
TOP ACRES PILOT GROOVY ET 944304
09/01 3E-E93 E91 E93 E93 E94 E92 (10/14)
PPR: -8 59%R PTAT: +0.6 66%R PTA: 32%\$
02/08 331d 2X 20530 4.4 908 3.3 669 DHIA
03/09 365d 2X 27060 4.3 1168 3.4 922 DHIR
05/09 365d 2X 33740 4.9 1638 3.3 1100 DHIR
08/08 365d 2X 31090 4.8 1488 3.4 1049 DHIR
Lifetime: 1573d 121210m 5614f 4073p
* ALL AMERICAN SR 3 YR OLD 2009
* MEMBER RES ALL AMERICAN PROD OF DAM 2011
* NOM ALL AMERICAN 5 YR OLD 2011
* INT CHAMPION CENTRAL NATIONAL 2009

TOP ACRES GATEWAY ET 198455 E90

PPR: -113 80%R PTAT: +0.8 84%R (04/16)
PTA: -837m -29f -28p -347NM\$ 86%R
PTA PL: -3.3 SCS: +3.05 DPR: -1.5 SCE:
LEE-ANNS DENZEL SAHARA 68117512
05/08 V86 V87 E91 V88 V86 +83 (08/15)
PPR: +13 45%R PTAT: -0.3 57%R
PTA: +48m -4f +10p +28NM\$ 40%\$
02/03 365d 2X 19630 4.3 839 3.6 713 DHIR
03/05 359d 2X 20090 4.3 861 3.8 763 DHIR
04/06 364d 2X 26850 4.5 1219 3.8 1011 DHIR
05/07 344d 2X 24010 4.4 1060 4.0 956 DHIR

#2
\$ **LOT 23** * **Lee-Anns Frosty Pleasure 68166130**

Born: 08/05/2014 Tattoo: L511
Consignor: LEE-ANNS SWISS L.L.C.
DE WITT IA

Parent Average PPR: +55 PTAT: +0.4
PA: +176m +11f +10p +161NM\$

Bred 12/8/2015 to:
HILLTOP ACRES CP SCOTLAND *TM 68144008
PPR: +67 61%R PTAT: +0.4 67%R (04/16)
PTA: +481m +25f +12p +221NM\$ 64%R (GEN)
PTA PL: +3.0 SCS: +3.13 DPR: +0.0 SCE: +4.0

3rd Dam:

LEE-ANNS POCAHONTAS 854893 'V86'

4/04 365d 2X 21093 4.2 895 3.5 738 DHIR

5/08 365d 2X 24513 4.2 1030 3.4 843 DHIR

8/05 365d 2X 22929 4.2 952 3.3 749 DHIR

Lifetime: 2754d 151,353m 6481f 5311p

4th Dam:

ANETT SIMON PRINCESS 807406 'V85'

7/05 321d 2X 20597 3.6 743 3.3 679 DHIR

JO-LANE FROSTY ET *TM 69812267

Not Classified
PPR: +78 62%R PTAT: +0.2 67%R (04/16)
PTA: +219m +23f +11p +286NM\$ 64%R (GEN)
PTA PL: +3.1 SCS: +2.70 DPR: -0.6 SCE: +3.9
0 dau. av.

LEE-ANNS BROCK PINATA 68108057

05/03 2E-E90 E91 E92 E90 E90 V88 (08/13) *CERT*
PPR: +29 49%R PTAT: +0.6 62%R
PTA: +132m -2f +8p +35NM\$ 42%\$
02/01 365d 2X 23800 3.8 913 3.3 781 DHIR
03/06 365d 2X 29470 4.4 1289 3.4 1011 DHIR
04/08 365d 2X 31310 4.3 1348 3.4 1057 DHIR
06/02 57d 2X 880 3.8 33 3.3 29 DHIA

R N R PAYOFF BROOKINGS ET *TM 198772

Not Classified *SUPERIOR SIRE *
PPR: +158 97%R PTAT: +0.7 98%R (04/16)
PTA: +265m +30f +29p +422NM\$ 98%R (MACE)
PTA PL: +4.4 SCS: +2.73 DPR: +1.6 SCE: +3.9
OAK FOREST PREMIUM FLORA 933866
06/06 2E-E91 E91 E93 E90 E92 E91 (05/11) *CERT*
PPR: +52 64%R PTAT: +0.4 72%R PTA: +223NM\$ 83%\$
03/06 365d 2X 34030 4.9 1684 3.3 1133 DHIR
04/06 307d 2X 26060 4.3 1123 3.1 809 DHIR
06/02 365d 3X 35830 4.3 1543 2.9 1056 DHIR
Lifetime: 1650d 130780m 5914f 4150p
* 2nd 4 YR OLD IA STATE FAIR 2009
* 2nd BU 4 YR OLD IA STATE FAIR 2009

TOP ACRES GM BROCK *TM 196879

PPR: -48 93%R PTAT: +0.0 94%R (04/16)
PTA: -303m -17f -4p -192NM\$ 95%R (GEN)
PTA PL: -2.7 SCS: +3.11 DPR: -0.1 SCE: +4.5
LEE-ANNS G KING POINSETTA 946098
05/05 V89 V89 E90 E90 V86 E90 (05/11)
PPR: +43 50%R PTAT: +0.0 61%R
PTA: +45m -4f +4p +165NM\$ 73%\$
02/04 317d 2X 22120 4.1 909 3.4 750 DHIA
03/04 305d 2X 26030 3.8 980 3.4 892 DHIA
04/09 365d 2X 25960 4.1 1053 3.6 937 DHIR
06/02 365d 2X 30280 4.0 1206 3.4 1040 DHIR
07/05 318d 2X 23860 3.8 910 3.4 820 DHIR
Lifetime: 1974d 147760m 5765f 5182p

\$ #3 LOT 24 * Fanfare Torch Flame 68165492

Born: 09/16/2014 Tattoo: T522
Consignor: REICHENBACHER, MAYA
HOKAH MN

Parent Average PPR: +68 PTAT: -0.2
PA: +57m +0f +13p +198NM\$

Bred 4/20/2016 to:
COZY NOOK WONDERMENT TRACE *TM 68113671
* SUPERIOR SIRE *

PPR: +118 88%R PTAT: +0.7 87%R (04/16)
PTA: +371m +56f +18p +297NM\$ 93%R (GEN)
PTA PL: +1.5 SCS: +2.84 DPR: -1.0 SCE: +5.0

COZY NOOK BEAMER TORCH *TM 198625

Not Classified * SUPERIOR SIRE *
PPR: +118 92%R PTAT: +0.0 93%R (04/16)
PTA: +136m +30f +23p +336NM\$ 95%R (GEN)
PTA PL: +3.5 SCS: +3.00 DPR: +1.9 SCE: +6.1
212 dau. av. 23630 4.1 974 3.4 803
95 class. dau. av. FS:83.2 UDC:-0.06 FLC:0.25

CIE FANFARE VIGOR FAME 68165491

04/01 +83 +80 +81 +83 +82 V85 (08/15)
PPR: +15 46%R PTAT: -0.4 49%R PTA: +60NM\$ 48%\$
03/02 365d 3X 33200 3.5 1158 3.5 1161 DHIR

EMIC GORD BEAMER *TW *TM 196031

PPR: +47 97%R PTAT: -0.7 97%R (04/16)
PTA: -684m +12f +14p +75NM\$ 98%R (MACE)
PTA PL: -1.8 SCS: +2.77 DPR: +2.0 SCE: +5.5
COZY NOOK PRONTO TWYLIGHT 928080
12/02 4E-E92 E92 E94 E90 E90 E93 (05/16)
PPR: +115 81%R PTAT: +0.4 86%R *SUPR BRD COW*
PTA: +308m +35f +12p +370NM\$ 97%\$ (GEN)
03/00 365d 2X 34630 4.4 1530 3.5 1199 DHIR
04/01 365d 2X 39680 4.0 1569 3.3 1303 DHIR
06/03 365d 2X 35790 4.2 1514 3.2 1140 DHIR
08/06 365d 2X 36080 4.2 1532 3.5 1275 DHIR
Lifetime: 3249d 283850m 12141f 9895p
* 2nd COMP MERIT WI STATE FAIR 2009
* 2nd JR 2 YR OLD WI STATE SHOW & FAIR 2006

SUN-MADE VIGOR ET *TM 195618

Not Classified * QUALIFIED SIRE *
PPR: +97 99%R PTAT: +0.3 99%R (04/16)
PTA: +264m -5f +12p +291NM\$ 99%R (MACE)
PTA PL: +5.9 SCS: +2.71 DPR: +0.9 SCE: +5.1
IE FANFARE MONACO FAVOR 379325065 NC
PPR: -71 49%R PTA: 4%\$
03/01 312d 2X 21500 4.2 911 3.3 716 DHIA
04/01 362d 2X 31910 3.8 1197 3.2 1035 DHIA
05/03 358d 2X 29320 3.2 934 3.3 967 DHIA
07/04 305d 2X 22430 3.7 837 3.3 745 DHIA
08/09 286d 3X 23140 3.8 875 3.3 759 DHIA
Lifetime: 2414d 175320m 6524f 5785p

Appendix C

\$ #4 LOT 25 * Trout Run Jean P ET 68163845

Born: 11/16/2014 Tattoo: 363
Consignor: RODECAP, JOHN J.
DECORAH IA

PPR: -27 57%R PTAT: -0.6 61%R
PTA: +91m +1f -7p -83NM\$ 17%\$ (GEN)

Bred 1/5/2016 to:
BMG LUST GET LUCKY ET *TM 68170100
PPR: +230 57%R PTAT: +0.6 61%R (04/16)
PTA: +2044m +63f +58p +430NM\$ 60%R (GEN)
PTA PL: +1.2 SCS: +3.09 DPR: +0.6 SCE:

Lot's Full Siblings:

TROUT RUN JILL P ET 68143315 'V85'
03/00 312d 3X 18449 4.8 885 3.4 627 DHIA
TROUT RUN JAX PP ET *TM in AI at ABC Genetics

3rd Dam:

TROUT RUN EAGLE JOY 916673 'V88'
02/05 365d 3X 31900 3.8 1212 3.3 1067 DHIA
04/03 365d 3X 36035 3.4 1221 3.2 1158 DHIA
* 1st WINTER HFR CALF IA STATE FAIR 2003

CROATT ANDY NP 197093 E90

PPR: -65 63%R 00%R
PTA: -259m -8f -17p -183NM\$ 71%R
PTA PL: -2.7 SCS: +2.97 DPR: +1.3 SCE:
14 dau. av. 20470 4.0 820 3.2 656

TROUT RUN PARADE JULIA NP 68115904

05/01 V85 V87 V85 V85 V85 V85 (12/14)
PPR: +11 68%R PTAT: -0.4 73%R
PTA: +79NM\$ 53%\$ (GEN)
02/01 305d 2X 17170 4.1 701 3.3 566 DHIA
03/04 305d 2X 19190 4.8 913 3.6 686 DHIA
04/06 305d 2X 20270 4.9 998 3.6 724 DHIA
05/09 179d 2X 8970 4.1 369 3.5 315 DHIA

4th Dam:

TROUT RUN BLEND JANICE 880849 'V88'
02/03 355d 2X 23490 4.4 1036 3.5 826 DHIR
03/04 362d 3X 27260 4.4 1199 3.6 985 DHIR
04/06 323d 3X 23120 4.7 1085 3.6 835 DHIR
06/06 348d 3X 24680 4.5 1115 3.7 920 DHIR
07/07 319d 3X 22550 5.0 1122 3.7 824 DHIR
Lifetime: 2563d 167200m 7670f 6078p

TWIN SPRINGS MARTI ANDY ET 189551

PPR: +40 92%R PTAT: -0.3 88%R (04/16)
PTA: +368m +17f +8p +66NM\$ 96%R (GEN)
PTA PL: -0.4 SCS: +3.03 DPR: +2.3 SCE: +4.4

CROATT DEMI NP 887992

04/03 V88 E90 V86 V88 V88 V88 (11/03)
PPR: -87 42%R PTAT: +0.0 53%R PTA: 1%\$
04/01 198d 2X 11260 4.5 507 3.4 379 DHIA
05/08 94d 2X 3870 4.9 189 2.6 100 DHIA

FRIEDENS PARADE NP 197880

PPR: +27 75%R PTAT: -0.7 76%R (04/16)
PTA: -69m +1f +7p +112NM\$ 80%R (GEN)
PTA PL: +1.9 SCS: +2.86 DPR: -0.3 SCE:

TROUT RUN DYNASTY JULIE ET 938752

05/03 V88 E94 E90 V87 V88 +84 (08/10)
PPR: -36 71%R PTAT: +0.0 78%R PTA: 12%\$ (GEN)
02/03 365d 3X 27350 4.4 1206 3.5 960 DHIR
03/06 313d 3X 22070 4.5 990 3.6 796 DHIR
04/05 365d 3X 30940 4.7 1447 3.7 1135 DHIR
06/02 205d 3X 16100 5.3 851 3.3 533 DHIR
Lifetime: 1414d 104000m 4848f 3714p

\$ LOT 26 * RF Curvecrest Jaguar 68176271

Born: 12/31/2014 Tattoo: 455
Consignor: EBERHARD, ROBERT B.
GLENCOE MN

PPR: +44 25%R

Bred 3/14/2016 to:
PIT-CREW PEPPER PROTEGE *TM 68159838
PPR: +87 61%R PTAT: +0.9 66%R (04/16)
PTA: +747m +18f +20p +199NM\$ 64%R (GEN)
PTA PL: +2.5 SCS: +2.89 DPR: -2.7 SCE:

3rd Dam: 'V85 - V86ms' *Certified*

CURVECREST PUNCH JELLYBEAN 883227
02/05 365d 2X 21600 3.9 839 3.3 720 DHIR
03/05 306d 2X 21810 3.9 841 3.3 711 DHIA
04/05 277d 2X 22640 3.7 827 3.1 709 DHIA
05/04 365d 2X 30090 3.8 1135 3.3 1006 DHIA
06/09 304d 2X 27130 3.9 1051 3.2 868 DHIA
07/09 355d 2X 30100 3.9 1184 3.3 995 DHIA
08/10 314d 2X 29630 4.0 1166 3.4 998 DHIA
09/10 305d 2X 27260 3.8 1038 3.4 920 DHIA
Lifetime: 3082d 240750m 9287f 7974p

 SIRE: REGISTERED HOLSTEIN

SCENIC-VISTA POD RAE-ET USA 64787290

100%RHA-NA TV TL TY +1915 G 50K GTPI 93%R
4-07 85 VV++ 14HO06054
PTA +733M +15F +18P 95%R 4/2016
PTA +222NM -.05%F -.01%P 100%US
PTA +2.2PL 2.96SCS +3DPR 7.8%DCE
PTA +1.08T +43UDC +1.22FLC 93%R 4/2016
DAV 27267M 3.7%F 1022F 3.0%P 822P 80.1T

CURVECREST PAYOFF JARVIS 68118975

Not Classified
PPR: +89 50%R
PTA: +352m +26f +20p +260NM\$ 88%\$
02/03 305d 3X 23170 4.1 955 3.6 836 DHIA
03/10 351d 3X 24120 5.0 1204 3.9 938 DHIA
* 2nd WINTER HFR CALF MN STATE FAIR 2010
* 2nd WINTER HFR CALF MN STATE SHOW 2010

WINDY-KNOLL-VIEW PRONTO-ET USA 132815961

5-08 95 EEEE 03/01/2002 50K GTPI 99%R +1723 G
PTA +271M -1F -1P 99%R 4/2016 TR TV TL TY TD
PTA +57NM -04%F -08%P 75%US
PTA +2.7PL 3.29SCS +1.9DPR 8.8%DCE
PTA +.79T +16UDC +1.10FLC 99%R 4/2016
SCENIC-VISTA DURHAM RUBIN USA 61582067
4-10 90 VEGVE DOM 10/14/2003 CTPI 71%R
PTA +614M -4F +30P 72%R 4/2016 TR TV +1951
PTA +191NM -10%F +04%P
PTA +1.3PL 2.82SCS -2DPR 8.1%DCE
PTA +1.51T +59UDC +2.15FLC 68%R 4/2016
*** 2-02 2x 365d 25430 3.8 961 3.2 825
*** 3-04 2x 365d 40150 3.1 1250 3.3 1315
*** 4-06 2x 365d 41020 3.6 1493 3.4 1383
*** 6-07 2x 365d 34660 3.4 1188 3.1 1066
LIFE 2232d 190990m 3.5 6741f 3.3 6361p

TRIANGLE ACRES PO PAYOFF ET *TM 193627

PPR: +29 98%R PTAT: +0.0 98%R (04/16)
PTA: +318m +3f +16p -14NM\$ 99%R (MACE)
PTA PL: -2.5 SCS: +2.99 DPR: -0.6 SCE: +4.9
CURVECREST MARK JOLLY 914481
02/04 +82 +81 +82 +83 V86 +81 (08/04)
PPR: +74 47%R PTAT: -0.1 49%R
PTA: +478m +19f +13p +268NM\$ 89%\$
02/02 325d 2X 20380 4.4 892 3.5 717 DHIA
03/03 365d 2X 19750 4.2 836 3.7 722 DHIA
04/03 362d 2X 26040 4.2 1106 3.5 908 DHIA
05/04 305d 2X 23880 4.4 1047 3.5 846 DHIA
06/04 305d 2X 23110 4.3 998 3.4 784 DHIA
Lifetime: 1954d 133460m 5578f 4681p

Appendix D

Jersey Sire Summary

	NAAB	Name	JPI	DWP	NMS	CMS	PTAM	PTAF	PTAF%	PTAP	PTAP%	CFP	MREL	PL	Liv	LivRel	SCS	DPR	HCR	CCR	Robot	PTAT	JUI	MO	EvalDate	SIRE x MGS x MGGS
#1	014JE00673	Avon	276		639	655	1665	54	-0.13	58	0.00	112	68	5.4	2.2	44	2.90	1.3	3.9	3.0	236	1.30	26.7		201608	Visionary x Action x
	014JE00652	Marlo	262		696	729	1106	89	0.18	52	0.06	141	74	4.8	2.9	46	2.94	1.9	1.2	0.8	161	1.10	14.8		201608	Hilario x Action x
	014JE00704	Calvin	230		594	620	1176	54	-0.01	46	0.03	100	72	5.6	0.3	41	2.76	1.0	1.8	2.5	84	0.80	9.5		201608	Harris x Renegade x Blade
	014JE00707	Campeone	226		601	619	1075	48	-0.01	39	0.00	87	72	7.1	3.6	48	2.80	0.1	1.8	0.9	259	1.90	28.5		201608	Marvel x Valentino x Action
#4	014JE00648	Leonel	222		544	570	1176	60	0.02	48	0.02	108	70	4.2	2.9	39	2.86	0.3	-0.7	0.9	178	1.00	17.2		201608	Levy x Do Right x Hadyn
	014JE00726	Breaker	217		515	525	1451	46	-0.11	46	-0.02	92	66	5.0	2.7	33	2.81	0.6	1.9	1.6	145	1.10	12.2		201608	Leonel x Visionary x Dale
	014JE00722	Aguero	212		546	570	1251	72	0.06	49	0.02	121	71	4.1	-2.0	39	2.83	-1.5	-1.5	-0.9	118	1.10	7.8		201608	Harris x Fastrack x Plus
	014JE00666	Method	208		528	561	940	45	0.00	44	0.06	89	74	5.8	1.4	52	2.75	-1.8	1.8	-0.1	218	1.10	15.6		201608	Visionary x Valentino x Artist
	014JE00672	Boudreaux	204		568	597	799	84	0.24	41	0.07	125	74	3.8	2.6	46	3.01	0.4	-0.1	-0.9	37	0.80	12.5		201608	Hilario x Target x Action
	014JE00705	Pitbull	204		557	579	854	61	0.11	35	0.02	96	74	5.4	2.2	49	2.80	-0.2	1.1	0.7	288	1.40	21.2		201608	Marvel x Apparition x Do Right
	014JE00724	Kaka	203		576	594	1061	69	0.09	41	0.02	110	68	5.3	1.8	40	2.92	-1.3	1.2	-1.0	157	1.50	14.4		201608	Draper x Irwin x Action
	014JE00651	Bunk	203		477	477	1313	33	-0.14	38	-0.04	71	70	4.8	3.4	44	2.89	3.1	1.1	3.6	131	0.70	20.4		201608	Marvel x Do Right x Hadyn
	014JE00662	Regency	201		486	518	1025	41	-0.04	47	0.06	88	74	4.1	-2.7	54	2.87	-1.4	1.7	0.1	110	1.50	18.0		201608	Visionary x Plus x Lexington
	014JE00650	Cheez	199		477	484	1434	39	-0.14	46	-0.02	85	72	4.1	2.7	46	2.91	0.3	0.8	1.1	99	0.70	13.4		201608	Marvel x Do Right x Hadyn
	014JE00721	Maccoy	198		472	500	1340	69	0.01	58	0.05	127	70	2.0	-3.3	47	3.04	-2.8	-1.2	-2.8	22	1.30	6.8		201608	Mackenzie x Plus x Louie
	014JE00739	Stub	195		541	575	612	67	0.19	37	0.07	104	72	4.7	0.4	43	2.91	0.2	1.4	1.7	150	0.90	9.0		201608	Harris x Allstar x Impuls
	014JE00732	Pilot	195		501	533	957	48	0.01	45	0.06	93	70	4.7	0.8	45	2.90	-1.2	2.1	0.2	97	1.00	9.1		201608	Method x Golda x Jupiter
#2	014JE00692	Bonanza	193		469	480	1301	57	-0.03	45	0.00	102	72	3.6	0.0	47	2.96	-0.1	3.4	1.5	29	0.50	1.1		201608	Blade x Victory x Matinee
	014JE00715	Miamimark	193		469	483	1249	47	-0.06	44	0.00	91	68	3.7	-0.2	42	2.90	0.6	1.6	2.1	148	0.10	5.3		201608	Volcano x Impuls x
	014JE00740	Zenon-P	169		432	465	567	48	0.10	36	0.08	84	70	3.6	-1.6	48	3.00	-0.9	2.2	0.7	106	1.50	17.0		201608	Regency x Critic-P x T-Bone
	014JE00607	Rumble	167		426	454	667	30	-0.02	34	0.05	64	84	4.6	1.1	51	2.85	1.7	1.1	2.2	9	0.10	4.8		201608	Vaughn x Alexander x Matinee
	014JE00671	Robert	165		458	502	163	42	0.18	26	0.10	68	72	4.7	0.5	45	2.76	1.9	0.9	2.1	83	0.30	8.6		201608	Power x Alexander x Impuls
	014JE00685	Fearless	160		382	395	1209	49	-0.05	45	0.02	94	74	2.5	-0.9	54	3.06	-2.1	0.8	-2.5	17	0.80	7.4		201608	Paul x Zipper x Allstar
	014JE00670	Lemonhead	159		420	448	375	49	0.15	27	0.07	76	74	4.0	3.0	49	2.97	0.6	0.1	0.9	229	2.00	22.4		201608	Samson x Renegade x Hallmark
	014JE00633	Marshall	157		353	404	243	43	0.16	37	0.15	80	76	1.9	-0.6	53	2.97	0.5	1.9	0.1	58	0.50	9.2		201608	Dimension x T-Bone x Impuls
	014JE00674	Stringer	155		389	410	654	31	0.00	30	0.04	61	74	4.2	3.3	48	2.88	0.5	1.2	0.9	167	0.80	14.4		201608	Marvel x Apparition x Kendall
	014JE00649	Don Eladio	153		445	483	346	78	0.31	34	0.11	112	73	2.2	-3.4	48	3.04	-2.3	-1.1	-2.6	115	1.10	14.3		201608	Topeka x Renegade x Maximum
	014JE00640	Summary	153		401	415	816	50	0.06	34	0.03	84	72	3.9	2.1	44	3.05	0.2	0.4	0.5	113	0.30	4.7		201608	Fastrack x Dale x Impuls
	014JE00661	Snapdragon	152		399	414	842	51	0.05	32	0.01	83	74	3.6	1.1	49	2.88	-2.8	0.6	-2.7	210	2.00	18.9		201608	Samson x Sparky x Rasmus
	014JE00600	Decoy	149		393	397	1086	25	-0.13	33	-0.03	58	97	5.8	2.6	68	2.85	-2.5	1.1	-2.6	75	1.70	13.8		201608	Valentino x Restore x Impuls
	014JE00719	Knight	146		363	387	441	42	0.11	27	0.05	69	70	3.9	0.3	43	2.96	-1.4	0.8	-1.1	224	2.10	26.4		201608	Jumbo x Ballard x Celebrity
	014JE00683	Lanny	145		326	336	1181	50	-0.03	42	0.00	92	72	0.6	-3.4	50	3.04	-2.3	-1.1	-2.2	116	1.40	14.8		201608	Plus x Golda x Retreat-P
014JE00710	Monster-P	142		407	425	511	56	0.16	25	0.04	81	72	3.2	1.1	46	2.97	-1.1	1.0	-1.8	178	1.80	21.3		201608	Mantis x Venerable x Mercedes	
014JE00694	Talents	142		359	385	598	54	0.13	32	0.05	86	72	2.3	-0.5	42	2.88	-1.1	0.0	-1.9	84	0.50	6.7		201608	Amazing x Gerry x T-Bone	
#3	014JE00560	Dandee	141		374	382	859	54	0.07	29	-0.01	83	92	2.1	1.4	61	2.92	0.8	0.8	0.8	87	0.80	1.3		201608	Lotto x Handiman x Paramount
	014JE00686	Glenn	137		349	361	966	61	0.08	40	0.03	101	74	1.7	-2.4	46	3.24	-2.0	0.8	-1.8	-29	1.20	3.8		201608	Awesome x Celebrity x Iatola

COW PAGE
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Test Date: 07-20-2016
Processed: 07-21-2016

42-77-0074
IO STATE DAIRY

Appendix E #1

String	1
Inbrd	5.2
%Rel	99
%Rank	35

Index

8785

Breed	Country	Identification	Body Wt.	Inbrd.	Coef.	DCR Milk
HO	USA	70340789	1460	5.9		
		984000001157690				
Predicted Transmitting Ability						
Milk	%Fat	%Pro	%Rel	%Rank	Milk	Fat
-532	-01	+02	-12	+95	82	55
Estimated Relative Producing Ability						

Test Day Data	Lact No.			Calving Date		
	36	70	105	133	182	224
DIM	36	70	105	133	182	224
Milk	94	84	73	74	65	54
Fat %	5.2	9.8	3.7	3.1	3.2	3.7
Pro %	2.7	3.7	3.2	3.3	3.2	2.9
SCC	76	3200	2599	1393	1131	460

Breed	Country	Identification	Barn Name / Index	Inbrd
HO	USA	63429008	7693	5.3
Milk				

Breed	Country	Identification	AI Code / Name	Inbrd
HO	USA	130953504	7HO07135 DAKOTA	3.5
Milk				

Lact No.	Test Plan	Calving Date	Age at Calving	Days Dry	Days Open	NO. BR.	305 Day Lactation			Days 3X	Complete Lactation			ME Lactation			Herdmate Deviation					
							Milk	% Fat	% Pro		Milk	Fat %	Pro %	Milk	Fat	Pro	Milk	Fat	Pro	Milk	Fat	Pro
1	2	05-18-13	1-11	166	1	20,077	3.8	769	3.1	621	396	24,847	3.8	948	3.1	774	22,766	889	696	-3476	-60	-119
2	2	07-23-14	3-02	72	5	20,321	4.8	980	3.2	645	365	23,382	3.8	891	3.1	727	21,504	754	663	-4978	-157	-132
3	2	07-09-15	4-01	122	1	20,321	4.8	980	3.2	645	302	20,644	3.4	704	3.1	641	19,786	989	638	-5907	+72	-143
LIFETIME							98	59			1048	66,963	4.0	2680	3.1	2099	21,352	877	666	-4787	-48	-131

* Dry thru Test Date: 07-20-16		Number of Lactations		Reproductive Efficiency		Average Milk/Day	
Dried on 06-23-16		98		59		59	
Number of Breedings = 3							
Last Bred 11-08-15 To 1HO12152 HO Preg							
Prev Bred 10-22-15 To 1HO12152 HO							
Prev Bred 09-03-15 To 1HO11373 HO							
Barn Name		8785		Index Number		8785	
Barn Name		8785		Identification		70340789	

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Test Date: 07-20-2016
Processed: 07-21-2016

42-77-0074
IO STATE DAIRY

Appendix E #2

String
1

Breed		Country		USA		70340810		06-06-11		1460		5.5		DCR Milk	
Breed		Country		USA		98400001156132		06-06-11		1460		5.5		DCR Milk	
Breed		Country		USA		8806		06-06-11		1460		5.5		DCR Milk	

Breed		Country		USA		70340810		06-06-11		1460		5.5		DCR Milk	
Breed		Country		USA		98400001156132		06-06-11		1460		5.5		DCR Milk	
Breed		Country		USA		8806		06-06-11		1460		5.5		DCR Milk	

Breed		Country		USA		70340810		06-06-11		1460		5.5		DCR Milk	
Breed		Country		USA		98400001156132		06-06-11		1460		5.5		DCR Milk	
Breed		Country		USA		8806		06-06-11		1460		5.5		DCR Milk	

Breed		Country		USA		70340810		06-06-11		1460		5.5		DCR Milk	
Breed		Country		USA		98400001156132		06-06-11		1460		5.5		DCR Milk	
Breed		Country		USA		8806		06-06-11		1460		5.5		DCR Milk	

Breed		Country		USA		70340810		06-06-11		1460		5.5		DCR Milk	
Breed		Country		USA		98400001156132		06-06-11		1460		5.5		DCR Milk	
Breed		Country		USA		8806		06-06-11		1460		5.5		DCR Milk	

Breed		Country		USA		70340810		06-06-11		1460		5.5		DCR Milk	
Breed		Country		USA		98400001156132		06-06-11		1460		5.5		DCR Milk	
Breed		Country		USA		8806		06-06-11		1460		5.5		DCR Milk	

Breed		Country		USA		70340810		06-06-11		1460		5.5		DCR Milk	
Breed		Country		USA		98400001156132		06-06-11		1460		5.5		DCR Milk	
Breed		Country		USA		8806		06-06-11		1460		5.5		DCR Milk	

Breed		Country		USA		70340810		06-06-11		1460		5.5		DCR Milk	
Breed		Country		USA		98400001156132		06-06-11		1460		5.5		DCR Milk	
Breed		Country		USA		8806		06-06-11		1460		5.5		DCR Milk	

Breed		Country		USA		70340810		06-06-11		1460		5.5		DCR Milk	
Breed		Country		USA		98400001156132		06-06-11		1460		5.5		DCR Milk	
Breed		Country		USA		8806		06-06-11		1460		5.5		DCR Milk	

Breed		Country		USA		70340810		06-06-11		1460		5.5		DCR Milk	
Breed		Country		USA		98400001156132		06-06-11		1460		5.5		DCR Milk	
Breed		Country		USA		8806		06-06-11		1460		5.5		DCR Milk	

* Dry thru Test Date: 07-20-16
Dried on 06-23-16
Number of Breedings = 4
Last Bred 12-11-15 To 1HO11645 HO Preg
Prev Bred 11-19-15 To 1HO12152 HO
Prev Bred 10-08-15 To 1HO11379 HO

Prev Bred 08-28-15 To 1HO12094 HO

Barn Name
8806
Index
8806

Barn Name	8806
Index	8806
Barn Name	8806
Index Number	8806
Identification	70340810

LIFETIME	3	100	60	1061	68,966	4.2	2908	3.3	2256	930	702	-4057	-86
	Averages												

Lact No.	Test Plan	Calving Date	Age at Calving	Days Dry	Days Open	NO. BR.	305 Day Lactation			Days SX	Complete Lactation			ME Lactation			Herdmate Deviation							
							Milk	% Fat	% Pro		Milk	Fat %	Pro %	Milk	Fat	Pro	Milk	Fat	Pro	Milk	Fat	Pro		
1	2	04-26-13	1-10	162	162	1	19,191	4.2	805	3.1	604	391	22,922	4.2	973	3.2	740	21,933	938	694	-3650	-25	-109	
2	2	07-06-14	3-01	45	75	4		21,935	4.2	927	3.2	703	365	21,935	4.2	927	3.2	703	21,396	915	678	-5087	+6	-117
3	2	06-17-15	4-00	48	177	1	23,122	4.2	964	3.3	772	372	25,716	4.2	1089	3.4	868	21,702	938	734	-3433	+45	-31	

Breed		Country		USA		70340810		06-06-11		1460		5.5		DCR Milk	
Breed		Country		USA		98400001156132		06-06-11		1460		5.5		DCR Milk	
Breed		Country		USA		8806		06-06-11		1460		5.5		DCR Milk	

Breed		Country		USA		70340810		06-06-11		1460		5.5		DCR Milk	
Breed		Country		USA		98400001156132		06-06-11		1460		5.5		DCR Milk	
Breed		Country		USA		8806		06-06-11		1460		5.5		DCR Milk	

COW PAGE
DHL-103

Test Date: 07-20-2016
Processed: 07-21-2016

42-77-0074
IO STATE DAIRY

Appendix E #3

String
1

Breed		Country		Identification		Body Wt.		Inbrd. Coef.		DCR Milk	
HO		USA		70340891		1460		10.9			
984000001159217											
Predicted Transmitting Ability						Estimated Relative Producing Ability					
Milk	%Fat	Pro	%Rel	%Rank	Milk	Fat	Pro	%Rel	%Rank	\$	
-803	+24	+08	-3	+158	82	70	-3895	-31	-69	-722	

String	1
Inbrd	6.5
%Rank	48
Milk	-169
%Fat	+13
Fat	+29
Pro	+08
%Pro	+17
\$	+300
%Rel	99

Test Day Data		Lact No.		Calving Date		08-25-15	
DIM	23	58	135	177	212	255	296
Milk	97	76	81	68	47	30	21
Fat %	4.5	3.7	4.2	4.4	4.6	5.0	5.2
Pro %	2.8	3.1	3.3	3.6	3.9	3.7	3.7
SCC	200	1300	1393	3430	7880	1131	746
							1600

Breed	Country	Identification	Barn Name / Index	Inbrd
HO	USA	65927965	8097	6.4
Milk	%Fat	Fat	Pro	%Rel
-7	+02	+6	+00	+0
\$				+35
%Rank				83

Breed	Country	Identification	AI Code / Name	Inbrd
HO	USA	130588960	200HO04779 BUCKEYE	3.3
Milk	%Fat	Fat	Pro	%Rel
+665	-08	+2	-03	+11
\$				+78
%Rank				99

Lact No.	Test Plan	Calving Date	Age at Calving	Days Dry	Days Open	NO. BR.	305 Day Lactation			Days SA	Pro	Complete Lactation			ME Lactation	Herdmate Deviation						
							Milk	% Fat	% Pro			Milk	Fat %	Pro %		Milk	Fat	Pro	Milk	Fat	Pro	
1	2	09-01-13	2-00	74	93	1	20,747	3.8	3.4	714	305	797	3.8	797	3.4	714	23,896	914	796	-2912	-51	-37
2	2	08-19-14	2-11	47	93	1	20,909	4.3	3.4	708	325	936	4.3	936	3.4	734	22,589	988	747	-4100	+60	-50
3	2	08-25-15	4-00	98	98	2	17,710	4.5	3.4	605	324	808	4.5	808	3.4	619	17,555	803	606	-8567	-132	-188
LIFETIME				3	100	57	60,374	4.2	3.4	2067	954	2541	4.2	2541	3.4	2067	21,347	902	716	-5193	-41	-92
															Totals			Averages				

* Dry thru Test Date: 07-20-16	
Dried on 07-14-16	
Number of Breedings = 2	
Last Bred 12-01-15 To 1HO11881 HO Preg	
Prev Bred 11-05-15 To 1HO11373 HO	
Barn Name	8887
Index	8887
Barn Name	8887
Index Number	8887
Identification	70340891

Appendix E #4

String
1

Barn Name
9729

Breed Cou
HO US

Index
9729

Inbrd
4.4

Breed	Country	Identification	Body Wt.	Inbrd. Coef.	DCR Milk
HO	USA	71589353	1210	6.3	
		984000001156161			

Site	Milk	%Fat	Fat	%Pro	Pro	\$	%Rel	%Rank
	-348	+0.3	-6	+0.4	+0	+213	99	30

Predicted Transmitting Ability				Estimated Relative Producing Ability					
Milk	%Fat	%Pro	\$	%Rel	%Rank	Milk	Fat	Pro	\$
-290	+1.1	+0.7	+328	81	93	-1956	+11	-10	-262

Breed	Country	Identification	Barn Name / Index	Inbrd
HO	USA	65927969	8101	7.1
		984000001157616	8101	

Test Day Data		Lact No.	1	Calving Date	07-22-15
DIM	23	57	92	120	169
Milk	67	75	55	62	68
Fat %	4.1	3.4	4.9	3.9	4.2
Pro %	3.0	3.1	3.1	3.6	3.8
SCC	115	54	81	100	47

305 Day Lactation		Milk	17,919	Fat	4.3	Pro	3.5
Days 3X		337	337	337	337	337	337
Days Open		116	116	116	116	116	116
Days Dry		81	81	81	81	81	81
Age at Calving		1-10	1-10	1-10	1-10	1-10	1-10

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

Lact No.	1	2	07-22-15	1-10	116	1	305 Day Lactation			Days 3X			Complete Lactation			ME Lactation			Herdmate Deviation		
	Milk						Fat	Pro	% Fat	% Pro	Milk	Fat	Pro	% Fat	% Pro	Milk	Fat	Pro	% Fat	% Pro	Milk
1	17,919	4.3	764	3.5	627	337	337	19,142	4.3	819	3.5	670	21,759	939	759	-3912	+21	-20			

LIFETIME	1	109	57	337	19,142	4.3	819	3.5	670	21,759	939	759	-3912	+21	-20
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* Dry thru Test Date: 07-20-16
Dried on 06-23-16

Number of Breedings = 3

Last Bred 11-15-15 To 1HO12152 HO Preg

Prev Bred 10-26-15 To 1HO12152 HO

Prev Bred 10-01-15 To 1HO11373 HO

Barn Name	9729
Index	9729
Identification	71589353

Barn Name	9729	Index Number	9729	Identification	71589353
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2016 Iowa FFA Dairy Cattle Evaluation CDE Key

Test Key

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

DHIA Questions

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

Dairy Management

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

Sire Evaluation Questions

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

Pedigree Evaluation

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

Phase E Pedigree Placing

Placing 3 - 2 - 4 - 1

Cuts 2- 7- 2

- 3- Highest NM, Highest PTA sire
Highest dam production record
- 2- High sire PTA, Second high NM
Second highest dam production record
- 4- Bred to highest PTA-NM (430\$)
Lowest NM
Lower dam production record
- 1- Low NM
Bred to lowest PTA bull (NM)

Phase F Sire Selection

Placing 1 - 4 - 2- 3

Cuts 4- 2 - 4

- 1- Highest JPI (276)
Highest milk (1665)
Net Merit \$ (639)
- 4- Second high JPI (222)
Higher NM\$ (544)
Superior mammary traits
- 2- Third high JPI (193)
Second milk (1301)
Deeper udder
- 3- Lowest JPI (141)
Lowest NM\$ (374)

Phase G Culling

Placing 3 - 1 - 2 - 4

Cuts 2 - 4 - 6

- 3- High SCC consistently
ME - lower each year
Lowest negative herd mate difference
- 1- High SCC - then lower
Negative herd mate difference
Low %Fat, %Protein
Close placing
- 2- Lower SCC scores
Higher %Fat, %Protein
4 breedings - low reproduction efficiency
- 4- Younger cow
+21 fat difference