2015 Iowa FFA Dairy Cattle Evaluation CDE Test
West Union, Iowa   September 12, 2015

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

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

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

2. How many gallons of manure does an average cow pass every day?
    a. 15 gallons   b. 23 gallons   c. 17 gallons   d. 13 gallons

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

4. Ketosis is a nutritional disease in dairy cows caused primarily by _____ in the diet.
    a. Excess calcium   b. Calcium shortage   c. Excess Protein   d. Energy shortage

5. What is the optimum length of a cow's dry period?
    a. 21 days   b. 30 days   c. 60 days   d. 9 months

6. The only part of a milking machine that touches the cow is the:
    a. Pulsator   b.Vacuum pump   c. Inflation   d. Milk line

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

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

9. Many of the metabolic disorders that occur after calving result from a low intake of what nutrient in the periods immediately before and after calving?
    a. Energy   b. Protein   c. Fiber   d. Potassium

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

11. Dystocia refers to:
    a. Calving ease   b. Mastitis   c. Herd Health   d. Energy Consumption

12. The first milk secreted after calving is called _____.
    a. Clostridia   b. Coliform   c. Collagen   d. Colostrum

13. What is the time period that a cow carried a calf?
    a. Gestation   b.Rumination   c.Lactation   d. Parturition

14. What was the 2014 all-market mailbox price, or the average amount producers received per hundredweight of milk sold in 2014?
    a. $28.33   b. $24.04   c. $19.48   d. $9.00

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

16. Where is oxytocin stored and released?
    a. Ovarian follicle   b. Corpus luteum   c. Pituitary gland   d. Adrenal gland

17. 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. Pasteurization   b. Conception   c. fertilization   d. Homogenization

18. Which of the following represents the largest single cost associated with producing milk?
    a. Facilities   b. Veterinarian & drugs   c. Feed   d. Labor

19. 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

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. 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. Milk production per cow rose 2 percent last year. On average, how much milk did cows in the United States produce in 2014?
    a. 20,183 pounds   b. 27,495 pounds   c. 32,948 pounds   d. 22,258 pounds

23. Cows exposed to sunlight will readily make which vitamin on their own?
    a. Vitamin A   b. Vitamin D   c. Vitamin E   d. Vitamin K

24. 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 D   d. Vitamin A

25. When artificially inseminating what part of the reproductive tract is the target for depositing semen?
    a. Ovary   b. Oviduct   c. Uterine body   d. Vulva

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 rolling yearly herd average for fat on the 8-13-15 test date?
    a. 784   b. 3.4   c. 25653   d. 901

52. What is the projected 305 day ME for milk of first lactation heifers?
    a. 24575   b. 877   c. 25240   d. 25653

53. What is the expected number of milking cows for December?
    a.345   b. 361   c. 364   d. 371

54. What is the average days to first service for all cows all lactations?
    a. 67   b. 68   c. 73   d. 93

55. The major reason that cows left the herd was?
    a. Udder   b. Feet & legs   c. Mastitis   d. Reproduction

Dairy Management Problems -- 5 pts each

56. (Shelled corn -- 56 lb/bu   Ear corn -- 70 lb/bu)
    A concentrate mix consists of 2100 lbs of corn & cob meal, 650 lbs of shelled corn and 575 lbs of 44% soybean oil meal. If shelled corn costs $3.55/bu ear corn at $2.90/bu and soybean meal costs $250/ton, what is the cost per pound of this mix?
    a. $0.0602/lb   b. $0.0711/lb   c. $0.0792/lb   d. $0.0833/lb

57. What is the cost per pound of ground ear corn if ear corn sells for $2.85/bu (70#/bu) and grinding is $.54 per cwt.?
    a. $.0433   b. $.0461   c. $.0492   d. $.0519

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

Barley-Pea silage	900	5.0%
Ground shelled corn	920	8.8%
Whole cottonseed	350	22.2%
Haylage	1440	5.6%
Hay	500	22.9%
Protein Mix	450	44.2%
Minerals	250	0%

a. 11.54%   b. 11.87%   c. 12.11%   d. 12.43%

59. What is the component value of a hundredweight of milk if the farm produces 775,500 pounds of milk with the following:

Components		$Basis Milk Value
Butterfat	4.40%	1.666
Protein	3.98%	4.313
Solids	5.99%	.0801
SCC	280,000	.40

a. $23.11   b. $23.56   c. $24.98   d. $25.38

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	41,280 lbs	$127.50/ton	18.8
Alfalfa 3x4 bales	19,570 lbs	$108/ton	16.5
Grass large round	49,560 lbs	$95/ton	11.5
Grass 3x3 bales	19,180 lbs	$85/ton	10.2

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

Refer to **Appendix B (Top 100 - US PPR Bulls - August 2015)** to answer the following questions.

61. What factors cause the %R to be high?
       a. High number of herds and low number of daughters
       b. High number of herds and high number of daughters
       c. Low number of herds and low number of daughters
       d. Low number of herds and high number of daughters

62. Which bull should have the most impact on combined fat and protein?
       a. Harts Thunder   b. Dandee ET
       c. Reads Driver Kannon   d. Cozy Nook W Manchester

63. Which bull has a Net Merit value of 396?
       a. Hearts Wunder ET   b. Cozy Nook Beamer Torch
       c. Etlar   d. Sun Made Vigor ET

64. Which sire should have the greatest increase in the productive life of his daughters?
       a. Sun Made Vigor ET   b. Ki-Ja-Mar Zoomer ET
       c. RNR Payoff Brookings ET   d. Hilltop Acres H Driver ET

65. Which bull would rank first if you used net merit as the factor to determine the rank?
       a. Hilltop Acres H Driver ET   b. Harts Thunder
       c. Voelkers TD Carter   d. Sun Made Vigor ET

Pedigree Questions -- 5 pts each
Refer to **Appendix C (Heifer pedigrees)** to answer the following questions.
       #1   Lot 24 INNISFAIL CY LADY 343 EXP
       #2   Lot 25 COLD SPRINGS ROYAL LACI
       #3   Lot 29 ROVIN AB VERNA VANELOPE
       #4   Lot 30 CANDY REBEL MONEY of BSF

66. Which heifer has a twin in her pedigree?
       a. #1   b. #2   c. #3   d. #4

67. Which two heifers have similar ancestry?
       a. #1 - #2   b. #2 - #3   c. #3 - #4   d. #4 - #1

68. Which heifer has the least information on her dam?
       a. #1   b. #2   c. #3   d. #4

69. Which heifer has "All-American" selection on the paternal grandsire side of the pedigree?
       a. #1   b. #2   c. #3   d. #4

70. Which heifer has a paternal grand dam that was an "All-American" as a senior three-year-old?
       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 24 INNISFAIL CY LADY 343 EXP
#2   Lot 25 COLD SPRINGS ROYAL LACI
#3   Lot 29 ROVIN AB VERNA VANELOPE
#4   Lot 30 CANDY REBEL MONEY of BSF

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 Chili   #2 Madrid   #3 Mastermind   #4 Vitality

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 8728   #2 Index 8861   #3 Index 8887
#4 Index 8899

HERD SUMMARY

42-77-0074
I O STATE DAIRY
JOE DETRICK

Appendix A

DHI-202

Page 1 of 6

	Test Date	Samples at Lab	Processed
	08-13-2015	08-18-2015	08-19-2015

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	408		389.4	
Cows in Milk	Number	%	Number	%
	364	89	350.5	90
Milk Lbs (All Cows)	67.2		25,653	
Fat Lbs (All Cows)	2.26		901	
Fat %	3.4		3.5	
Protein Lbs (All Cows)	2.02		784	
Protein %	3.0		3.1	
Milk Lbs (Milking Cows)	75.3			

	Milking Cows	All Cows	Lbs Consumed	Lbs Consumed	%ENE
Silage					
Other Succulents or Blended Rations					
Dry Forage					
Other Feeds					
Pasture			Days		%ENE
Concentrates			Lbs Consumed	Lbs Consumed	%ENE
Value of Product $	12.68	11.22	4,956		
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
110	50	69

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
24	13	13	Number Cows		30	21	22
22	12	12	% of Breeding Herd		27	19	20

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	1	126		67	1.9	2.3	12.5	101	< 18	17	1st	338	39	+749
2nd Lact		89		69	2.3	2.8	13.0	116	18 - 24	120	2nd	212	36	+757
3+ Lacts	3	78	1	69	2.5	3.1	13.0	114	36 - 48	252	3rd +	361	27	+765
All Lacts	4	293	1	68	2.2	2.7	12.8	109	Other	54	Total	911	34	+757
% of All 1st Services	1	98			Current Actual Calving Interval		13.0							

Abortions	This Test	Past Year
Actual		1
Apparent	7	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	60	2	90	3	120	19	8	4	3
2+	128	3	103	10	193	19	8	6	3
Total	188	5	193	13	313	38	16	10	3

Cows To Be Milking, Dry, Calving By Month

	Sep	Oct	Nov	Dec	Jan	Feb
* Milking	358	378	362	371	380	391
Dry	47	32	46	51	44	39
Cows to Calve	26	32	22	26	34	29
Heifers to Calve	7	14	7	24	12	16

* Assumes 2.3% 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	59	25	15	103	40	52	172
10-08-14	58	29	19	108	24	53	164
11-19-14	57	30	22	123	36	40	170
12-31-14	62	33	26	125	36	35	175
2-04-15	65	38	30	84	45	46	193
3-17-15	58	37	25	89	43	49	193
4-23-15	58	47	33	90	25	53	185
5-27-15	62	41	28	85	46	30	209
7-09-15	57	31		99	44	39	223
8-13-15	53			72	29	45	212
Averages	59	36	24	97	36	43	192
Totals				875		390	

Miscellaneous Herd Information

	Shipped-Test Day Comparison	
	Test Day	Yearly Avg.
Sum of Test Day Wts	27235	27386
Reported Avg. Daily Bulk Tank Wts		
% Deviation		

	Milking Times	Wgh	Spl
1st	7:51pm	Y	N
2nd	3:54am	Y	N
3rd	12:08pm	Y	Y

Remarks:

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

Stage Of Lactation Profile

			1 - 40	41 - 100	101 - 199	200 - 305	306 +	Total or Average
			Stage of Lactation (Days)					
Number Milking	1st Lact		16	18	49	40	22	145
	2nd Lact		11	6	32	23	20	92
	3+ Lacts		16	25	35	29	19	124
	All Lacts		43	49	116	92	61	361
Average Daily Milk	1st Lact		60	81	75	68	61	70
	2nd Lact		88	100	85	73	46	75
	3+ Lacts		93	102	88	70	54	82
	All Lacts		79	94	82	70	54	75
% Fat & Pro	1st Lact	% Fat	3.7	3.6	3.1	3.2	3.6	3.3
		% Pro	3.2	2.7	3.0	3.2	3.4	3.1
	2nd Lact	% Fat	3.6	3.1	3.4	3.4	3.7	3.5
		% Pro	3.0	2.9	3.0	3.2	3.4	3.1
	3+ Lacts	% Fat	4.1	3.1	3.2	3.4	3.9	3.5
		% Pro	2.8	2.7	3.0	3.1	3.3	3.0
	All Lacts	% Fat	3.8	3.3	3.2	3.3	3.7	3.4
		% Pro	3.0	2.7	3.0	3.2	3.4	3.1
SCC ACT	1st Lact		560	158	105	94	103	152
	2nd Lact		346	454	304	402	112	321
	3+ Lacts		947	414	1089	186	469	656
	All Lacts		668	338	481	198	226	385
SCC ACT >= 200	Number		12	11	23	12	9	67
	Percent		28	22	20	13	15	18

Weighted SCC ACT (Nearest 1,000)

Identification And Genetic Summary

Age Group	Number Animals	Avg. Age (Yr-Mo)	Num. Identified By Sire	Dam	Number ID Changes	Number with Merit $	Average Merit $ Animal	Sire	Herd Merit $ Option
0 - 12	207	0-06	207	207		207	+368	+606	NM
13+	138	1-05	138	138		138	+296	+515	
Replacements	345	0-10	345	345		345	+339	+569	
1st Lact	164	1-11	164	164		149	+206	+373	
2nd Lact	111	2-11	111	111		111	+141	+299	
3+ Lacts	133	4-10	130	127	1	131	+83	+170	
All Lacts	408	3-02	405	402	1	391	+147	+288	

| % Identified (Producing Females) | 99 | 99 | No. Heifers Age Over 30 Months | | DCR Milk | 102 |

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		100	
Number of Bulls Used		14	
Average Merit $	+0	+724	+0
Avg. Percentile Rank (Net Merit)		99	

Production By Lactation Summary

	Number of Cows	Avg. Age (Mo)	Peak Milk	Summit Milk	Proj 305 Day ME Milk	Fat	Pro	Difference From Herdmates Milk	Fat	Pro	Avg. Body Wt.
1st Lact	164	23	88	84	25240	877	742	+1159	+12	+20	1210
2nd Lact	111	35	105	101	25136	879	764	+596	+8	+28	1330
3+ Lacts	133	58	115	110	23254	845	704	-543	+6	-5	1460
All Lacts	408	38	101	96	24575	867	736	+507	+9	+15	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	81	9	4	3	3
2nd Lact	84	2	7	1	6
3+ Lacts	65	9	10	2	14
All Lacts	76	7	7	2	7

Herd Production Lost From SCC This Test Period			
Milk	7,644	Dollars ($)	1,307

Dry Cow Profile

Lact.	Number Dry Periods	Avg. Days Dry	Number Dry by Days < 40	40-70	> 70	Cows Entered Num.	%	Cows Left Num.	%
1						154	40	23	6
2	110	47	13	93	4			24	6
3+	133	56	11	104	18			60	15
All	243	52	24	197	22	154	40	107	27

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
		12	1		1				9
	2	14	4						4
	3	20	9	3		3			22
	5	46	14	3	1	3			35

| 26 | % 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	% 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	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
10-08-14	44	374	193	76.7	85.7	102	91	70.1	3.6	3.2	25942	935	812	73	11	6	4	5	2.5	266	14.8	5	5
11-19-14	42	380	196	78.5	86.7	102	91	71.2	3.4	3.1	25913	926	808	76	10	6	3	6	2.5	204	12.8	3	6
12-31-14	42	382	206	74.8	82.9	96	91	68.3	3.5	3.0	25877	917	802	67	15	6	5	7	3.0	308	12.0		7
2-04-15	35	387	193	78.5	85.4	103	88	69.4	3.4	3.1	25845	912	797	71	13	8	4	5	2.6	247	14.0	6	14
3-17-15	41	398	194	74.2	80.8	93	90	67.1	3.8	3.1	25684	907	788	69	14	10	2	4	2.7	244	12.8	3	
4-23-15	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
Averages	39	393	192	77.8	84.8	100	90	70.3	3.5	3.1				73	11	7	3	6	2.5	265	13.9	35	72

| Test Period Avg. Milk Lbs | Added | 70.0 | Dropped | 70.6 |

Top 100 US PPR Bulls - AUGUST 2015

Rnk	Name	Registration	NAAB Code	PPR	%R	S/Q Sire	%F	%US Daus	No. Herds	No. Daus	%R	Milk	%F	Fat	%P	Prot	PL	SCS	DPR	Net M Merit		%R	PTAT	M	UDC	MO	SCE	%R	DCE	%R
1	HILLTOP ACRES H DRIVER ET *TM	000000000196826	14BS00314	229	96		4.2	90	266	671	98	1227	.07	66	.05	53	+3.7	2.91	+1.3	587	M	96	-0.1	M	-0.06	-0.4	5.1	96	3.9	90
2	READS DRIVER KANNON *TM	000000068123683	14BS00358	216	79	Q	5.6	100	26	63	86	1143	.08	66	.03	45	+3.8	2.91	+0.7	560	G	73	0.3	G	0.62	0.0	6.4	86	4.6	57
3	HARTS WUNDER ET *TM	000000068123590	151BS00224	136	79	Q	6.5	100	19	56	86	900	.00	36	-.02	26	+3.6	2.93	-0.2	349	G	75	0.7	G	0.72	0.6	3.2	85	3.6	61
4	COZY NOOK BEAMER TORCH *TM	000000000198625	54BS00437	135	90	S	6.1	100	59	154	94	228	.11	33	.08	26	+4.3	2.99	+2.0	396	G	91	0.1	G	0.06	-0.3	5.9	92	4.7	75
5	HARTS THUNDER *TM	000000068113037	203BS01137	126	85	S	7.1	100	33	86	90	1169	-.15	11	-.01	36	+1.4	3.06	-0.3	207	G	87	0.5	G	0.74	0.3	3.5	87	4.4	62
6	R N R PAYOFF BROOKINGS ET *TM	000000000198772	54BS00438	121	95	S	7.7	50	618	1233	98	173	.08	26	.08	24	+1.5	2.72	+0.7	300	M	97	0.6	M	0.45	0.5	4.2	97	3.8	95
7	COZY NOOK W MANCHESTER *TM	000000068115207	29BS03812	119	88	S	7.9	77	125	234	94	631	.05	37	.00	20	+3.6	2.83	-1.4	333	M	87	0.7	M	0.87	0.9	5.2	91	4.2	63
8	OAK VIEW ZEUS AUGUST *TM	000000000199293	7BS00826	117	87	S	7.9	100	63	95	92	690	.03	36	-.01	23	+2.0	2.69	-0.8	318	G	86	0.7	G	0.15	1.0	4.4	87	4.6	66
9	COZY NOOK WONDERMENT TRACE *TM	000000068113671	14BS00352	113	86	S	6.7	100	50	120	92	327	.18	53	.03	16	+2.5	2.82	-1.2	321	G	85	0.7	G	0.84	0.3	5.3	85	4.0	71
10	SUN-MADE VIGOR ET *TM	000000000195618	54BS00374	108	99	S	8.6	8	6785	17279	99	325	-.08	-4	.01	13	+6.4	2.70	+1.5	327	M	99	0.3	M	1.22	0.5	5.1	98	4.3	97
11	ETLAR	000000000199469	54BS00504	107	81		4.4	42	70	95	86	1158	-.09	25	-.03	30	+1.5	2.97	+1.1	230	M	79	-0.7	M	-0.91	-0.1				
12	VOELKERS TD CARTER *TM	000000068119645	54BS00482	105	85	S	6.6	100	51	90	90	1053	-.06	28	-.06	22	+1.4	3.06	-1.2	198	G	86	1.3	G	1.08	1.2	5.4	92	4.4	76
13	LITTLE HILL LADYS MVP ET*TM *D	000000470210520	7BS00828	104	87		7.5	100	78	120	92	581	.14	56	.02	23	+1.5	2.96	-1.4	315	G	86	-0.1	G	-0.37	0.0	3.8	83	4.5	62
14	KI-JA-MAR ZOOMER ET *TM	000000000199121	7BS00812	99	86		5.7	55	106	129	90	-282	.08	6	.14	22	-0.5	2.90	+3.3	152	M	82	-0.2	M	0.37	0.1	5.1	79	5.5	60
15	LOST ELM BERRETTA ET *TM	000000068104955	54BS00466	98	84	Q	8.3	100	36	64	89	139	.06	19	.06	17	+4.0	2.80	-1.2	274	G	85	0.5	G	0.78	0.8	5.9	77	5.2	59
	SCHARZ BS PRESIDNT ALIBABA *TM	000120033040506	196BS13193	98	91		6.3	1	5032	9510	93	101	.04	13	.06	15	+5.5	2.93	+1.6	339	M	92	-0.2	M	0.18	0.2	5.2	87	4.6	75
17	TRASKVIEW VIGOR GOLDEN BOY *TM	000000068115385	54BS00350	95	89	Q	7.6	100	139	232	94	330	.05	25	-.01	10	+5.5	2.75	+0.9	329	M	89	0.1	M	0.18	0.2	6.4	91	5.7	74
18	DUNDEE ET *TM	000120062191231	54BS00461	94	79		4.7	24	75	84	84	-253	.07	6	.12	17	+2.2	2.84	+2.3	234	M	69	-0.3	M	0.37	0.3	4.1	61	4.9	57
	ELK CREEK ACE EDDIE ET *TM	000000000196310	1BS00553	94	96		6.4	100	283	718	98	844	-.15	-2	-.04	19	+4.5	2.70	+1.3	285	G	92	-0.2	G	-0.03	0.2	3.8	96	3.6	79
20	KULP-GEN SCIPIO DON *TM	000000000199504	14BS00340	93	84	Q	6.9	100	39	74	90	-57	.17	37	.09	18	-0.1	3.05	+1.2	175	G	77	0.2	G	0.26	0.1	5.9	83	5.8	61
21	ALFA CREEK VIGOR ST NICK ET*TM	000000068108604	54BS00468	91	83		7.3	59	77	101	88	1056	-.22	-9	-.02	31	+2.6	3.11	-0.6	131	M	84	-0.2	M	0.23	0.5	7.0	80	5.8	61
22	PETERS TOP ZOLDO ZEUS	000000000198588	196BS10295	89	96		5.9	2	2282	3352	97	507	-.04	12	.01	19	+1.0	2.95	+2.1	207	M	95	-0.2	M	0.36	-0.4	4.4	93	4.3	92
23	HANNY SWISS ACE WAGOR *TM	000000000199096	196BS11288	88	92		4.9	1	4208	8147	94	501	.06	35	.04	27	-3.2	3.09	+0.3	128	M	91	-0.2	M	0.07	-0.3	3.6	83	5.7	78
	NGG BROOKLYN ET *TM	000000068114729	54BS00470	88	79		5.1	100	27	40	84	609	-.05	14	.02	24	+2.5	3.04	+3.1	223	G	79	-1.2	G	-1.30	-0.8	6.2	72	5.2	66
	TOP ACRES C WONDERMENT ET *TM	000000000196880	54BS00456	88	98	Q	7.3	57	786	1902	99	992	-.02	37	-.04	25	+0.3	2.96	-3.6	158	M	99	0.9	M	0.26	0.9	4.5	97	3.8	96

Lot 24

Innisfail Herd
Stewart Rowe
Davis, CA
707-678-4715

INNISFAIL CY
LADY 343 EXP

68315984   Born: November 29, 2013

Color: RED, WHITE MARKS
Tattoo: 343
Parent Average PPR: -42 PTAT: +0.3
PA: -454m -3f -12p -77NM$

MYSHA MCNUTMEG CYCLONE 468205
PPR: -76 72%R PTAT: +0.2 73%R (12/14)
PTA: -712m -22f -22p -184NM$ 79%R
PTA PL: -0.9 SCS: +2.99 DPR: -0.7 SCE:
32 dau. av. 16366 3.5 567 3.0 495
34 class. dau. av. FS:84.5 UDC:0.60 FLC:-0.80

INNISFAIL RU LADY 7027 360012908
07/05 V86 E90 V87 V88 +82 V86 (09/14)
PPR: -6 51%R 00%R
PTA: -195m +16f -1p +30NM$ 69%$
DEV: -2029m -20f -58p (12/14)
02/05 292d 2X 10760 4.2 449 3.5 374
03/03 305d 2X 13250 4.3 571 3.4 453
05/03 305d 2X 14550 4.2 614 3.2 469

INNISFAIL PRINCE OF DIAMONDS 455825
PPR: -62 89%R PTAT: +0.1 90%R (12/14)
PTA: -350m -6f -12p -161NM$ 93%R
PTA PL: -2.3 SCS: +2.98 DPR: -2.1 SCE:
119 dau. av. 17993 3.6 656 3.1 553
89 class. dau. av. FS:83.5 UDC:-0.51 FLC:-0.86

MYSHA OTHELLOS NUTMEG ET 457218
06/04 2E-E92 E91 E93 E92 E90 E94 (06/10)
PPR: -95 63%R PTAT: +0.2 61%R
PTA: -920m -42f -30p -230NM$ 13%$
DEV: -3534m -182f -130p (12/14)
04/05 305d 2X 23260 3.6 829 3.0 703
06/01 305d 2X 24500 3.2 792 3.0 738
Lifetime: 1717d 118440m 4092f 3553p
• All American Sr 3 Yr Old 2007
• HM All American 4 Yr Old 2008

INNISFAIL RED RUBEN 360010935
PPR: -1 87%R PTAT: +0.8 87%R (12/14)
PTA: +174m -7f +9p -36NM$ 92%R
PTA PL: -0.7 SCS: +3.37 DPR: -0.4 SCE:
125 dau. av. 18758 3.4 644 3.1 578
88 class. dau. av. FS:85.5 UDC:0.22 FLC:-0.05

INNISFAIL BDC LADY 1074-EXP 451669
PPR: -44 54%R 00%R
PTA: -374m +19f -12p -40NM$ 53%$
DEV: -3069m -61f -111p (12/14)
05/06 295d 2X 18760 5.0 931 2.9 552
09/09 365d 2X 21310 3.7 786 3.1 661
Lifetime: 2484d 133650m 5343f 4129p

Lot 25

Bartlett & Kostka
Salisbury, MA
978-729-1491

COLD SPRINGS
ROYAL LACI

68314853   Born: February 02, 2014

Color: RED, LITTLE WHITE
Tattoo: 625
Parent Average PPR: +21 PTAT: +0.3
PA: +31m -4f +3p +51NM$

ECUAFARM KAISER ROYALTY 68307222
Parent Average PPR: +17 PTAT: +0.5
PA: -115m -7f +2p +43NM$
PA: PL +1.8 SCS: +3.11 DPR: +0.3 SCE:

INNISFAIL ST LADY 952 EXP TWIN 68305813
04/11 V87 V85 E90 +84 V86 V87 (07/14)
PPR: +23 41%R PTAT: +0.0 36%R
PTA: +176m +0f +3p +58NM$ 74%$
DEV: -531m -87f -44p (12/14)
02/11 305d 2X 15110 3.2 491 3.1 461

ECUAFARM PERIS KAISER 462555 E91
PPR: -15 85%R PTAT: +0.4 83%R (12/14)
PTA: -69m -15f +0p -62NM$ 90%R
PTA PL: +0.7 SCS: +3.17 DPR: -1.1 SCE:
85 dau. av. 18294 3.6 657 3.1 576
57 class. dau. av. FS:83.5 UDC:0.26 FLC:-0.27

ECUAFARM KOYOTE REINA 460874
09/00 3E-E93 E91 E93 E90 E94 E93 (01/14) *CERT*
PPR: +47 54%R PTAT: +0.6 55%R
PTA: -160m +2f +3p +147NM$ 86%$
DEV: -1188m -41f -24p (12/14)
04/01 305d 3X 22800 3.8 865 3.1 717
05/08 305d 2X 28070 4.1 1155 3.5 971
Lifetime: 2121d 133480m 5390f 4316p

INNISFAIL PERFECT STORM 360012228
PPR: +74 78%R PTAT: +0.4 71%R (12/14)
PTA: +266m +9f +11p +156NM$ 85%R
PTA PL: +1.9 SCS: +2.84 DPR: -0.1 SCE:
57 dau. av. 16877 3.4 580 3.1 519
37 class. dau. av. FS:85.4 UDC:0.78 FLC:0.61

INNISFAIL GA LADY 4027 458969
PPR: -35 51%R 00%R
PTA: -107m -10f -8p -81NM$ 43%$
DEV: -1276m -117f -76p (12/14)
03/00 305d 2X 17180 3.2 542 3.1 529
05/02 296d 2X 18740 2.8 529 2.9 538

Appendix C
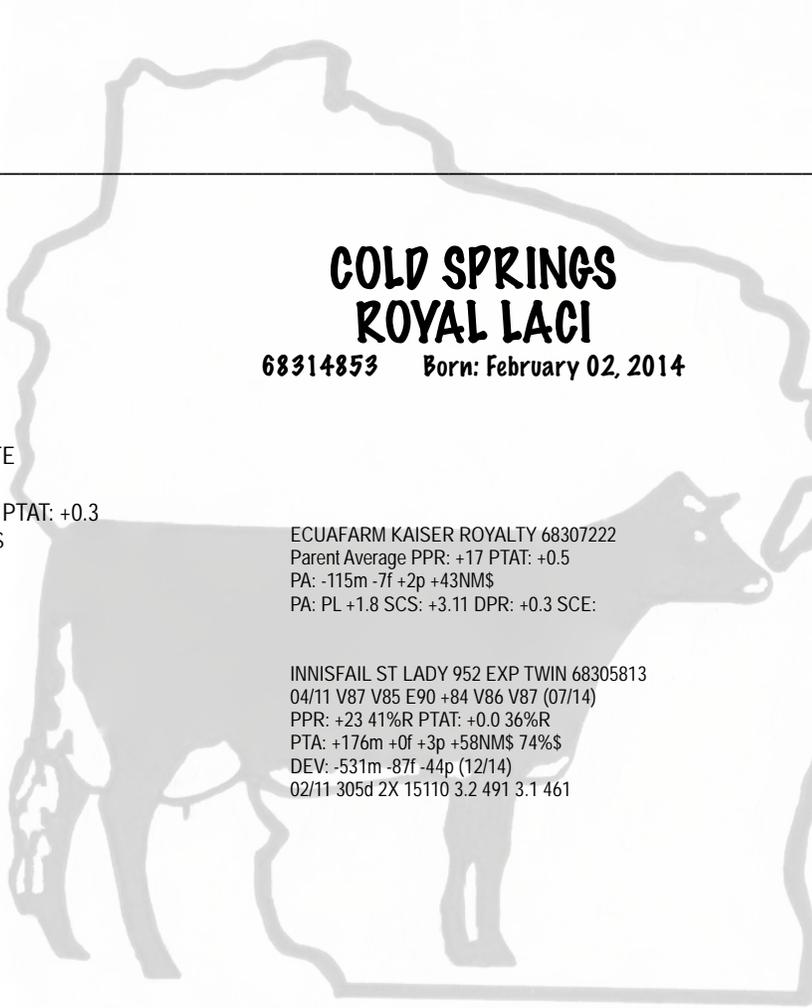
Lot 29

Pat Ruzic
Hixton, WI
715-984-2211

ROVIN AB
VERNA VANELOPE

68316681   Born: March 01, 2014

Color: RED, LITTLE WHITE
Tattoo: 671R
Parent Average PPR: +13 PTAT: +0.3
PA: -55m +16f -3p +62NM$

KUSZMAR MEGADETH 455752 E93
PPR: -21 89%R PTAT: +0.5 91%R (12/14)
PTA: -71m -2f +1p -102NM$ 93%R
PTA PL: -0.7 SCS: +3.50 DPR: -1.3 SCE:
140 dau. av. 19418 3.6 700 3.1 600
131 class. dau. av. FS:85.2 UDC:0.68 FLC:0.41
• All American Yrling Bull 2004

ROVIN MEGA ALL ABNER P 68309795
Parent Average PPR: +7 PTAT: +0.5
PA: +104m +22f +1p +5NM$
PA: PL -0.5 SCS: +3.38 DPR: -0.5 SCE:

ROVIN LIRA ALLISON EXP P 68304647
04/11 E92 E95 E91 E94 E90 E91 (08/14) *CERT*
PPR: +32 49%R PTAT: +0.5 49%R
PTA: +278m +46f +1p +111NM$ 82%$
DEV: +711m +123f -23p (12/14)
02/03 305d 2X 23150 4.3 1005 2.8 640
03/06 305d 2X 22030 4.7 1031 3.0 651
• Res All American Fall Yrling 2012
• HM All American Fall Calf 2011

ROVIN ALT VALUE VERNA 68307649
03/07 V87 +84 V87 E90 V88 V88 (08/14)
PPR: +20 38%R PTAT: +0.0 43%R
PTA: -214m +10f -6p +119NM$ 83%$
DEV: -1712m -36f -70p (12/14)
02/00 305d 2X 16060 3.6 581 2.9 465
03/02 279d 2X 18160 4.3 773 2.9 532

ROVIN ALI TED ALTITUDE ET 68302558
Parent Average PPR: +7 PTAT: -0.3
PA: -197m +18f -6p +79NM$
PA: PL +1.0 SCS: +2.98 DPR: +0.6 SCE:

ROVIN VIV D.SAM VALUE 68301149
03/04 V88 V86 V87 E92 V86 E90 (03/11)
PPR: -1 48%R PTAT: +0.1 52%R
PTA: -382m +0f -6p +25NM$ 68%$
DEV: -2069m -63f -55p (12/14)
04/01 305d 2X 26280 4.1 1073 3.1 811
05/09 305d 2X 20450 3.4 693 3.1 644

Lot 30

Carmen Calhoun
Princeville, IL
309-385-4434

CANDY REBEL
MONEY OF BSF

68316907   Born: April 26, 2014

Color: RED & WHITE
Tattoo: 72
Parent Average PPR: -67 PTAT: -0.3
PA: -332m -22f -10p -167NM$

PINEHURST REBEL 9TH 423595
PPR: -65 95%R PTAT: +0.1 95%R (12/14)
PTA: -485m -23f -19p -88NM$ 97%R
PTA PL: +1.9 SCS: +3.33 DPR: +0.3 SCE:
308 dau. av. 17029 3.5 604 3.0 518
175 class. dau. av. FS:85.8 UDC:0.57 FLC:0.84

HCTH REBELS MONEY-ET 370010790
PPR: -84 80%R PTAT: -0.4 77%R (12/14)
PTA: -270m -24f -5p -234NM$ 86%R
PTA PL: -2.2 SCS: +3.58 DPR: -0.6 SCE:
52 dau. av. 18926 3.5 667 3.1 584
41 class. dau. av. FS:83.9 UDC:0.18 FLC:-0.36

VIKING VALLEY STAR MEGG 360008009
12/05 4E-E94 E95 E90 E96 E90 E90 (07/05)
PPR: -17 65%R PTAT: -0.4 67%R
PTA: -184m +3f +3p -68NM$ 47%$
06/10 365d 2X 25354 4.0 1008 3.4 852
09/03 305d 2X 22900 4.1 950 3.2 735
Lifetime: 2024d 117653m 4789f 4122p

CANDY CANE OF 12 OAKS 68310670
Parent Average PPR: -49 PTAT: -0.2

ROVIN SNOWHT LHILL SNAPPY 68304639
Parent Average PPR: -26 PTAT: -0.5
PA: -181m -13f -10p -11NM$
PA: PL +1.4 SCS: +2.92 DPR: +1.0 SCE:

MAPLE N HONEY OTHELLO LIBBY 453297
Parent Average PPR: -73 PTAT: +0.1
PA: -606m -26f -20p -187NM$
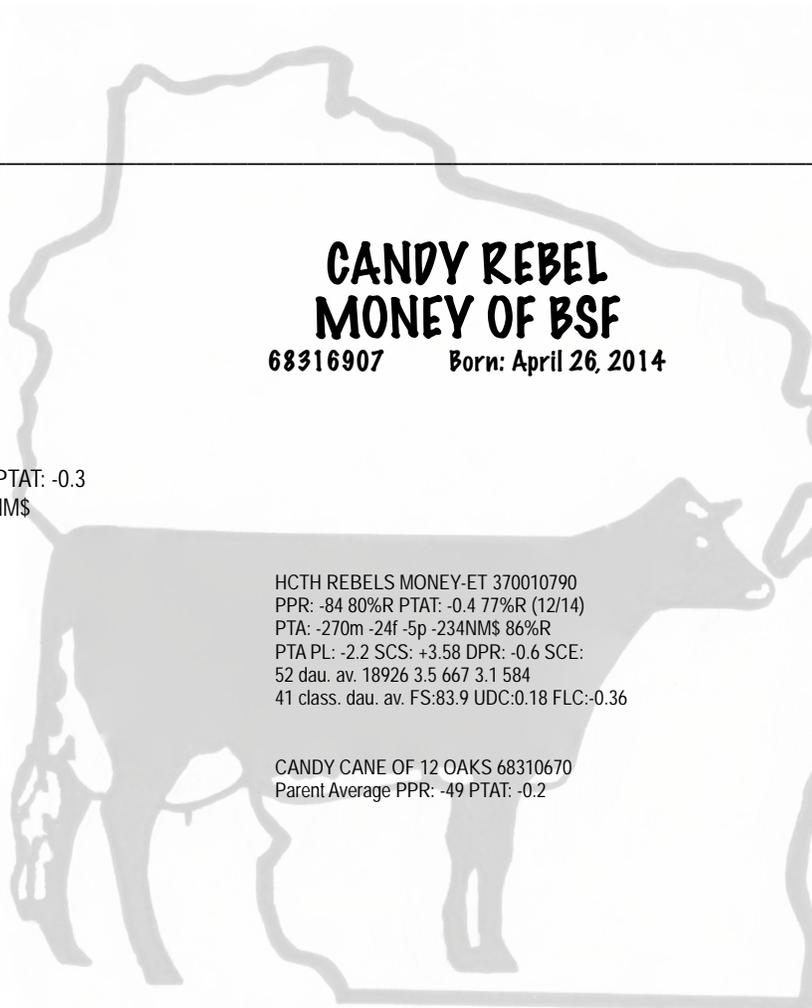
CHILI

29JE3867
ROWLEYS 11 VISIONARY CHILI-ET
118201001
aAa: 5 1 3 DMS: 456,561

#1

Dam: Gabys Maximum Spice-ET VG-85%

Support photos

Sire: ALL LYNNS LEGAL VISIONARY-ET 117222740
Dam: GABYS MAXIMUM SPICE-ET 116027771 VG-85
0302 2X 305d 17,980M 5.2% 935 F 3.5% 630 P
MGS: SUNSET CANYON MAXIMUM-ET 111950696
Third Sire: SC GOLD DUST PARAMOUNT IATOLA-ET 112118277

USDA 08/2015	Dtrs	Herds	PTI+195
	Pounds	%	Rel.
Milk	+816M		
Protein	+42 lbs	0.06	73%
Fat	+49 lbs	0.05	72%
Net Merit	+$490		
Cheese Merit	+522		

Service Sire Stillbirths:	0.00	0% Rel
Daughter Stillbirths:	0.00	0% Rel
Daughter Pregnancy Rate:	-0.50	57% Rel
Somatic Cell Score:	+2.90	68% Rel
Productive Life:	+4.40	61% Rel
RWD® Bull Fertility: Rank **:	1701	Observations

Breed Association 08/2015		0 Dtrs	0Herds					Rel. 72%
Trait	Values		-3	-2	-1	0	1	2	3
Type	1.40								
Udder Composite	14.08								
Stature	1.20	Tall							
Strength	0.60	Strong							
Angularity	1.20	Open							
Thurl Width	0.30	Wide							
Rear Legs-Side Set	0.10	Curved							
Foot Angle	0.60	Steep							
Fore Udder Attachment	1.40	Strong							
Rear Udder Height	1.50	High							
Rear Udder Width	1.20	Wide							
Udder Cleft	0.10	Strong							
Udder Depth	1.20	Shallow							
Front Teat Placement	0.20	Close							
Teat Length	0.30	Long							

MADRID

29JE3919
BLUE MIST MADRID-ET
118405197
aAa: 2 4 3 DMS: 345,234

Support photos

#2

Sire: ALL LYNNS VALENTINO MARVEL 117422971
Dam: BLUE MIST TBONE MADDY 2-ET 117215885 VG-85
0109   2X 305d   15,710M   5.2%   813 F   3.6%   573 P
MGS: RICHIES JACE TBONE A364 113672851
Third Sire: ISDK JAS ARTIST 301607

USDA 08/2015	Dtrs	Herds	PTI+132
	Pounds	**%**	**Rel.**
Milk	+395M		
Protein	+23 lbs	0.04	73%
Fat	+42 lbs	0.11	72%
Net Merit	+$364		
Cheese Merit	+384		

Service Sire Stillbirths:	0.00	0% Rel
Daughter Stillbirths:	0.00	0% Rel
Daughter Pregnancy Rate:	-0.60	57% Rel
Somatic Cell Score:	+2.96	68% Rel
Productive Life:	+3.80	61% Rel
RWD® Bull Fertility: Rank *****:	775	Observations

Breed Association 08/2015	0 Dtrs		0Herds						Rel. 72%
Trait	Values		-3	-2	-1	0	1	2	3
Type	1.00								
Udder Composite	17.43								
Stature	1.40	Tall							
Strength	0.40	Strong							
Angularity	0.30	Open							
Rump Angle	0.90	Sloped							
Thurl Width	0.50	Wide							
Foot Angle	0.70	Steep							
Fore Udder Attachment	1.30	Strong							
Rear Udder Height	1.20	High							
Rear Udder Width	0.90	Wide							
Udder Cleft	0.40	Strong							
Udder Depth	2.00	Shallow							
Front Teat Placement	0.10	Close							
Teat Length	0.50	Long							

MASTERMIND
SUNSET CANYON MASTERMIND-ET
29JE3935
118523004
aAa: 4 3 2 DMS: 246,456
Support photos

Sire: CAL-MART RENEGADE HILARIO-ET 117542312
Dam: SUNSET CANYON IMPULS L MAID 1- 116496681 EX-90
0408   2X 305d   20,230M   5.9%   1187 F   4.1%   828 P
MGS: ISDK Q IMPULS 301592
Third Sire: ISDK FYN LEMVIG 300003

#3

USDA 08/2015	Dtrs	Herds	PTI+132
	Pounds	**%**	**Rel.**
Milk	-347M		
Protein	+15 lbs	0.14	72%
Fat	+52 lbs	0.35	71%
Net Merit	+$434		
Cheese Merit	+475		

Service Sire Stillbirths:	0.00	0% Rel
Daughter Stillbirths:	0.00	0% Rel
Daughter Pregnancy Rate:	+1.40	53% Rel
Somatic Cell Score:	+3.09	66% Rel
Productive Life:	+5.70	59% Rel
RWD® Bull Fertility: Rank : 0 Observations		

Breed Association 08/2015	0 Dtrs	0Herds	Rel. 70%
Trait	Values	-3 -2 -1 0 1 2 3	
Type	0.30		
Udder Composite	15.59		
Stature	0.40	Tall	
Angularity	-0.70	Tight	
Rump Angle	-0.30	High Pins	
Thurl Width	-0.20	Narrow	
Rear Legs-Side Set	-0.40	Straight	
Foot Angle	1.00	Steep	
Fore Udder Attachment	0.90	Strong	
Rear Udder Height	0.50	High	
Rear Udder Width	0.40	Wide	
Udder Cleft	0.30	Strong	
Udder Depth	2.30	Shallow	
Front Teat Placement	-0.40	Wide	

VITALITY

94JE3868
ARETHUSA VITALITY-ET
118031741
aAa: 1 3 5 DMS: 126,246
Support photos

#4

Sire: ISAU BUSHLEA FAXON 587022
Dam: ARETHUSA RESPONSE VIVID-ET 116023067 EX-93
0401   2X 305d   20,280M   5.8%   1175 F   3.6%   729 P
MGS: HOLLYLANE R RESPONSE-ET 660024
Third Sire: SOONER CENTURION ET 655767

USDA 08/2015	Dtrs	Herds	PTI+14
	Pounds	%	Rel.
Milk	-536M		
Protein	-14 lbs	0.03	72%
Fat	+10 lbs	0.19	71%
Net Merit	+$119		
Cheese Merit	+121		

Service Sire Stillbirths:	0.00	0% Rel
Daughter Stillbirths:	0.00	0% Rel
Daughter Pregnancy Rate:	+0.50	55% Rel
Somatic Cell Score:	+3.07	67% Rel
Productive Life:	+2.90	61% Rel
RWD® Bull Fertility: Rank :	0 Observations	

Breed Association 08/2015		0 Dtrs	0Herds						Rel. 70%
Trait	Values		-3	-2	-1	0	1	2	3
Type	1.30								
Udder Composite	24.73								
Stature	0.40	Tall							
Strength	-0.10	Frail							
Angularity	0.20	Open							
Rump Angle	-2.10	High Pins							
Thurl Width	0.60	Wide							
Rear Legs-Side Set	-1.00	Straight							
Foot Angle	0.90	Steep							
Fore Udder Attachment	2.40	Strong							
Rear Udder Height	1.70	High							
Rear Udder Width	1.30	Wide							
Udder Cleft	0.20	Strong							
Udder Depth	2.80	Shallow							
Front Teat Placement	0.50	Close							
Teat Length	1.10	Long							

Barn Name: 8728 Index: 8728

Breed	Country	Identification	Birth Date	Body Wt.	Inbrd. Coef.	DCR Milk
HO	USA	68988721 984000001159329	03-24-11	1460	5.3	

Predicted Transmitting Ability

Milk	%Fat	Fat	%Pro	Pro	$	%Rel	%Rank
+255	-.07	-9	+.00	+9	-83	80	21

Estimated Relative Producing Ability

Milk	Fat	Pro	$
+454	-36	+6	+18

Test Day Data — Lact No. 3 — Calving Date 12-24-14

DIM	8	43	84	121	155	198
Milk	73	107	102	97	89	71
Fat %	5.2	3.4	4.3	2.0	3.9	2.7
Pro %	4.0	3.0	2.7	3.0	3.1	3.0
SCC	303	2425	132	460	460	325

Sire: MY-JOHN KARIK-ET

Breed	Country	Identification	AI Code / Name	Inbrd
HO	USA	61918948	200HO05428 KARIK	4.0

	Milk	%Fat	Fat	%Pro	Pro	$	%Rel	%Rank
PTA	+113	-.04	-6	+.02	+8	+48	99	15

Dam

Breed	Country	Identification	Barn Name / Index	Inbrd
HO	USA	62434473	5-7049	10.4

	Milk	%Fat	Fat	%Pro	Pro	$	%Rel	%Rank
PTA	-47	-.04	-12	+.00	-2	-218	82	5

MGS: RICECREST SHAMROCK-ET

Breed	Country	Identification	AI Code / Name	Inbrd
HO	USA	125841340	29HO09958 SHAMROCK	5.6

	Milk	%Fat	Fat	%Pro	Pro	$	%Rel	%Rank
PTA	+543	-.05	+7	-.01	+15	-250	99	1

Lactation Records

Lact No.	Test Plan	Calving Date	Age at Calving	Days Dry	Days Open	NO. BR.	305 Day Milk	305 %Fat	305 Fat	305 %Pro	305 Pro	Days 3X	DIM	Milk	Fat %	Fat	Pro %	Pro	CAR	ME Milk	ME Fat	ME Pro	HMD Milk	HMD Fat	HMD Pro
1	2	02-06-13	1-10		70	1						302	302	24,455	3.4	823	3.0	735		27,765	953	843	+2112	+6	+55
2	2	01-26-14	2-10	52	53	1						284	284	24,586	3.1	760	3.0	728		25,814	816	755	+961	-71	-9
3	2	12-24-14	3-09	48	114	1						222	222	20,002	3.5	692	3.0	603		22,849	764	707	-1268	-77	-20

LIFETIME

Number of Lactations	Reproductive Efficiency	Average Milk/Day	Days 3X	DIM	Milk	Fat %	Fat	Pro %	Pro	ME Milk	ME Fat	ME Pro	HMD Milk	HMD Fat	HMD Pro
3	107	76	808		69,043	3.3	2275	3.0	2066	25,476	844	768	+602	-47	+9

* Dry thru Test Date: 08-13-15
Dried on 08-03-15
Number of Breedings = 2
Last Bred 04-17-15 To 1HO11545 HO Preg
Prev Bred 03-06-15 To 1HO12094 HO

Index 8728   Barn Name 8728

Barn Name	8728	Index Number	8728	Identification	68988721

Barn Name: 8861   Index: 8861

Breed	Country	Identification	Birth Date	Body Wt.	Inbrd. Coef.	DCR Milk
HO	USA	70340865 / 984000001159344	07-21-11	1330	6.1	

Predicted Transmitting Ability

Milk	%Fat	Fat	%Pro	Pro	$	%Rel	%Rank
+282	-.12	-21	+.01	+12	-66	81	24

Estimated Relative Producing Ability

Milk	Fat	Pro	$
+1156	-210	+30	-164

Test Day Data   Lact No. 2   Calving Date 07-17-14

DIM	40	84	126	168	203	244	281	315	358
Milk	78	110	103	99	102	86	91	84	72
Fat %	2.1	1.9	1.5	2.3	1.9	3.0	1.9	2.6	2.6
Pro %	2.6	2.8	3.1	2.9	3.2	3.1	3.3	3.2	3.2
SCC	20	13	14	29	13	23	27	54	

Sire: MY-JOHN KARIK-ET

Breed	Country	Identification	AI Code / Name	Inbrd
HO	USA	61918948	200HO05428 KARIK	4.0

PTA	Milk	%Fat	Fat	%Pro	Pro	$	%Rel	%Rank
	+113	-.04	-6	+.02	+8	+48	99	15

Dam

Breed	Country	Identification	Barn Name / Index	Inbrd
HO	USA	62434224	6800	5.0

PTA	Milk	%Fat	Fat	%Pro	Pro	$	%Rel	%Rank
	+431	-.12	-18	-.04	+3	-198	83	7

MGS: RICH-J SOSA-ET

Breed	Country	Identification	AI Code / Name	Inbrd
HO	USA	125997863	1HO05588 SOSA	4.1

PTA	Milk	%Fat	Fat	%Pro	Pro	$	%Rel	%Rank
	+1061	-.16	-6	-.08	+10	-71	99	7

Lact No.	Test Plan	Calving Date	Age at Calving	Days Dry	Days Open	NO. BR.	305 Day Milk	% Fat	Fat	% Pro	Pro	Days 3X	DIM	Complete Milk	Fat %	Fat	Pro %	Pro	CAR	ME Milk	ME Fat	ME Pro	HM Milk	HM Fat	HM Pro
1	2	06-04-13	1-10		137	1	21,602	2.4	515	3.2	688	324	324	22,731	2.4	550	3.2	734		25,460	614	805	-638	-347	-10
2	2	07-17-14	2-11	84	183	3	28,447	2.0	582	3.0	856	358	358	32,653	2.1	691	3.0	991		30,479	630	893	+4107	-284	+100

LIFETIME

Number of Lactations	Reproductive Efficiency	Average Milk/Day		Totals						Averages					
2	103	72	682	55,384	2.2	1241	3.1	1725		27,970	622	849	+1735	-316	+45

* Dry thru Test Date: 08-13-15
Dried on 07-10-15
Number of Breedings = 5
Last Bred 01-16-15 To 1HO11090 HO Preg
Prev Bred 12-26-14 To 1HO11373 HO
Prev Bred 12-05-14 To 1HO11545 HO

Prev Bred 10-19-14 To 1HO11071 HO
Prev Bred 09-26-14 To 1HO10853 HO

Index 8861   Barn Name 8861

Barn Name	8861	Index Number	8861	Identification	70340865

Barn Name: 8887   Index: 8887

Breed	Country	Identification	Birth Date	Body Wt.	Inbrd. Coef.	DCR Milk
HO	USA	70340891 984000001159217	08-24-11	1330	10.9	

Predicted Transmitting Ability / Estimated Relative Producing Ability

Milk	%Fat	Fat	%Pro	Pro	$	%Rel	%Rank	Milk	Fat	Pro	$
-750	+.23	+33	+.08	-2	+157	81	76	-2336	+3	-29	-469

Test Day Data — Lact No. 2 — Calving Date 08-19-14

DIM	7	51	93	135	170	211	248	282	325
Milk	59	90	87	77	79	54	53	41	29
Fat %	6.1	4.6	4.4	3.3	3.6	4.4	4.4	5.3	4.7
Pro %	3.6	3.1	3.4	3.2	3.4	3.6	3.8	3.9	4.0
SCC	696	200	57	50	66	62	93	152	93

Sire: LA PRESENTATION KAMIK

Breed	Country	Identification	AI Code / Name	Inbrd
HO	CAN	105585416	200HO06036 KAMIK	6.5

	Milk	%Fat	Fat	%Pro	Pro	$	%Rel	%Rank
PTA	-227	+.13	+26	+.08	+15	+271	99	45

Dam

Breed	Country	Identification	Barn Name / Index	Inbrd
HO	USA	65927965	8097 8097	6.4

	Milk	%Fat	Fat	%Pro	Pro	$	%Rel	%Rank
PTA	-5	+.03	+8	+.00	+1	+50	82	51

MGS: R-E-W BUCKEYE-ET

Breed	Country	Identification	AI Code / Name	Inbrd
HO	USA	130588960	200HO04779 BUCKEYE	3.3

	Milk	%Fat	Fat	%Pro	Pro	$	%Rel	%Rank
PTA	+685	-.08	+2	-.03	+12	+83	99	19

Lactation Records

Lact No.	Test Plan	Calving Date	Age at Calving	Days Dry	Days Open	NO. BR.	305 Day Milk	% Fat	Fat	% Pro	Pro	Days 3X	DIM	Compl. Milk	Fat %	Fat	Pro %	Pro	CAR	ME Milk	ME Fat	ME Pro	HMD Milk	HMD Fat	HMD Pro
1	2	09-01-13	2-00		74	1	20,747	3.8	797	3.4	714	305	305	20,747	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	905	3.4	708	325	325	21,552	4.3	936	3.4	734		22,589	988	747	-4097	+59	-51

LIFETIME

Number of Lactations	Reproductive Efficiency	Average Milk/Day	DIM	Milk	Fat %	Fat	Pro %	Pro	ME Milk	ME Fat	ME Pro	HMD Milk	HMD Fat	HMD Pro
2	103	62	630	42,299	4.1	1733	3.4	1448	23,243	951	772	-3505	+4	-44

Totals / Averages

* Dry thru Test Date: 08-13-15
Dried on 07-10-15
Number of Breedings = 2
Last Bred 11-20-14 To 1HO11090 HO Preg
Prev Bred 10-31-14 To 1HO11071 HO

Index 8887   Barn Name 8887

Barn Name	8887	Index Number	8887	Identification	70340891

Barn Name	Index
8899	**8899**

Breed	Country	Identification	Birth Date	Body Wt.	Inbrd. Coef.	DCR Milk
HO	USA	70340903 984000001157702	09-04-11	1330	6.6	

Predicted Transmitting Ability

Milk	%Fat	Fat	%Pro	Pro	$	%Rel	%Rank
-93	+.05	+10	+.02	+3	+92	81	62

Estimated Relative Producing Ability

Milk	Fat	Pro	$
-1018	+72	-19	-73

Test Day Data — Lact No. 2 — Calving Date 09-18-14

DIM	21	63	105	140	181	218	252	295
Milk	84	100	76	91	77	55	69	36
Fat %	4.6	3.3	3.3	3.3	3.9	3.3	4.2	4.3
Pro %	3.3	2.9	2.8	3.1	3.0	3.2	3.4	3.8
SCC	230	54	29	20	57	66	132	303

Sire — LA PRESENTATION KAMIK

Breed	Country	Identification	AI Code / Name	Inbrd
HO	CAN	105585416	200HO06036 KAMIK	6.5

	Milk	%Fat	Fat	%Pro	Pro	$	%Rel	%Rank
PTA	-227	+.13	+26	+.08	+15	+271	99	45

Dam

Breed	Country	Identification	Barn Name / Index	Inbrd
HO	USA	63428737	7422 7422	5.7

	Milk	%Fat	Fat	%Pro	Pro	$	%Rel	%Rank
PTA	+529	-.12	-12	-.08	-6	-32	82	31

MGS — NORZ-HILL FORM WIZARD-ET

Breed	Country	Identification	AI Code / Name	Inbrd
HO	USA	120754720	1HO06360 WIZARD	5.5

	Milk	%Fat	Fat	%Pro	Pro	$	%Rel	%Rank
PTA	-10	-.08	-21	-.02	-6	+177	99	28

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	DIM	Complete Lactation Milk	Fat %	Fat	Pro %	Pro	CAR	ME Lactation Milk	Fat	Pro	Herdmate Deviation Milk	Fat	Pro
1	2	09-06-13	2-00		101	1	22,796	4.7	1068	3.3	751	335	335	24,469	4.7	1143	3.3	807		26,256	1225	837	-526	+263	+5
2	2	09-18-14	3-00	42	73	2	22,644	3.7	848	3.1	712	273	308	22,744	3.7	852	3.1	716		23,774	888	726	-2528	-48	-61

LIFETIME

Number of Lactations	Reproductive Efficiency	Average Milk/Day		Totals							Averages					
2	100	69	643	47,213	4.2	1995	3.2	1523		25,015	1057	782	-1527	+108	-28

* Dry thru Test Date: 08-13-15
Dried on 07-23-15
Number of Breedings = 2
Last Bred 11-30-14 To 1HO11545 HO Preg
Prev Bred 11-07-14 To 1HO11090 HO

Index **8899** Barn Name **8899**

Barn Name	8899	Index Number	8899	Identification	70340903

2015 Iowa FFA Dairy Cattle Evaluation CDE Key

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

DHIA Questions
51.   D
52.   C
53.   D
54.   B
55.   D

Dairy Management
56.   A
57.   B
58.   D
59.   D
60.   B

Sire Evaluation Questions
61.   B
62.   C
63.   B
64.   A
65.   A

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

Phase E Pedigree Placing
Placing 3 - 2 - 1 - 4   **Cuts 2- 6- 3**

3-   Highest NM$, fat
      Strongest show pedigree (-55)milk
2-   Highest milk (+31)
      Second high NM$
1-   Third NM$ (-77)
      Lowest milk (-454)
      Stronger show information
4-   Lowest NM$ (-167))
      Lowest fat (-22)
      Lacks dam information

Phase F Sire Selection
Placing 1 - 2 - 3- 4   **Cuts 3- 2 - 4**

1-   Highest Milk (+816)
      Highest Cheese & Fluid Merit
      Highest PTI
2-   2 and 3 very similar
      Higher type and Udder Composite
3-   Higher merit than 2
      Negative milk (-347)
4-   Lowest PTI
      Low milk, fat, protein
      High udder composite

Phase G Culling
Placing 1 - 2 - 3 - 4   **Cuts 4 - 2 - 2**

1-   High SCC
      Low $ (-83)
      Production records declining
2-   Low SCC
      Higher protein (849)
      Higher milk production (27970)
      5 breedings to rebreed
3-   Lowest milk (23243)
      Higher fat (95)
      Some high SCC
4   Moderate SCC
      High fat (1057)
      Lower milk (2515)