

**2013 Iowa FFA Dairy Cattle Evaluation CDE Test**  
**West Union, Iowa September 7, 2013**

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

**25 Objective Questions -- 2 pts. each**

1. What term describes the removal of an animal from a herd?  
a. calving                      b. colostrum                      c. conception                      d. culling
2. Which vitamin can carotene be substituted for?  
a. A                                  b. B                                  c. C                                  d. D
3. 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
4. What is the name of milk sugar?  
a. dextrose                      b. fructose                      c. lactose                      d. sucrose
5. 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
6. Dystocia refers to:  
a. calving ease                      b. energy consumption                      c. herd health                      d. mastitis
7. This substance forms in the tip of each teat when the cow is dry. It aids in sealing the teats to prevent infection of the udder.  
a. keratin                      b. mucus                      c. opaque                      d. skin
8. At birth, which stomach area is the largest in the calf?  
a. abomasum                      b. omasum                      c. rumen                      d. reticulum
9. What is the time period that a cow carried a calf?  
a. gestation                      b. lactation                      c. parturition                      d. rumination
10. 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
11. 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

12. Which of the following hormones is not directly associated with reproduction?  
a. adrenaline      b. estrogen      c. progesterone      d. testosterone
13. At what age do dairy cattle develop upper incisors?  
a. birth      b. 3 days      c. 3 months      d. never
14. "UHT" milk is pasteurized at what approximate minimum temperature in degrees Fahrenheit?  
a. 145      b. 161      c. 191      d. 280
15. Milk fever is a major cause of cows going down. What mineral deficiency most commonly causes it?  
a. calcium      b. iron      c. magnesium      d. zinc
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. What are the two types of mastitis infections?  
a. innate and acquired      b. chromosomes and genes  
c. contagions and environmental      d. passive and active
18. At the end of 2012, what was the average herd size in the US.  
a. 73 cows      b. 187 cows      c. 569 cows      d. 1034 cows
19. Farmers are often hesitant to add distiller's grain to their ration because it may cause what?  
a. acidosis      b. milkfat depressions      c. pinkeye      d. stillbirths
20. Cow conception rate (CCR) is highly correlated (0.86) with which genetic index?  
a. bovine leukosis virus (BLU)      b. Daughter Pregnancy Rate (DPR)  
c. heifer conception rate (HCR)      d. net merit dollars (NM\$)
21. 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
22. When a calf is born, it's body is approximately what percent water?  
a. 10%      b. 30%      c. 50%      d. 70%
23. What is the all-market mailbox price in 2012?  
a. \$11.42      b. \$16.34      c. \$18.59      d. \$26.38
24. In late March an agreement was signed to gradually transition genetic evaluations from the USDA to which organization?  
a. Center for Disease Control      b. Council on Dairy Cattle Breeding  
c. Food and Drug Administration      d. National Genome Research Institute

25. When cows are milked 3 times a day how long should the interval be from when the prep process starts to when milking units are attached?
- a. 10 to 15 seconds
  - b. 60 to 90 seconds
  - c. 90 to 120 seconds
  - d. 150 to 180 seconds

**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. Which lactation period has the highest SCC Score?
- a. 1st lactation
  - b. 2nd lactation
  - c. 3rd lactation
  - d. none
52. What was the number of cows leaving the herd due to mastitis?
- a. 3
  - b. 19
  - c. 41
  - d. 78
53. What is the rolling yearly herd average for milk on 7/24/13?
- a. 767
  - b. 919
  - c. 23697
  - d. 24846
54. What is the number of heifers to calve in September?
- a. 8
  - b. 11
  - c. 14
  - d. 20
55. What was the dollar loss from SCC during this test period?
- a. \$21.45
  - b. \$3736
  - c. \$17306
  - d. \$23775

**Dairy Management Problems -- 5 pts each**

56. (Shelled corn -- 56 lb/bu Ear corn -- 70 lb/bu)

A concentrate mix consists of 1615 lbs of corn & cob meal, 550 lbs of shelled corn and 510 lbs of 44% soybean oil meal. If shelled corn costs \$5.55/bu, ear corn at \$4.85/bu and soybean meal costs \$435/ton, what is the cost per pound of this mix?

- a. \$0.1717/lb      b. \$0.1161/lb      c. \$0.1037/lb      d. \$0.0975/lb

57. You want to make a 17.5% protein ration using 8.4% protein corn and 43% protein soybean meal. How many pounds of corn are needed to make a three-ton ration?

- a. 5120 lbs      b. 4422 lbs      c. 1578 lbs      d. 1474 lbs

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

Corn silage	1150	3.4%
Ground shelled corn	890	8.7%
Whole cottonseed	275	22.1%
Haylage	1350	5.5%
Hay	525	18.7%
Protein Mix	475	45%
Minerals	175	0%

- a. 13.56%      b. 12.21%      c. 11.64%      d. 10.79%

59. What is the component value of a hundredweight of milk if the farm produces 327,000 pounds of milk with the following:

<u>Components</u>		<u>\$Basis Milk Value</u>
Butterfat	4.70%	1.287
Protein	4.12%	2.987
Solids	5.69%	.0462
SCC	259,000	.30

- a. \$18.92      b. \$18.51      c. \$18.01      d. \$17.56

60. You purchased the following hay at the Rock Valley Hay Auction. What is the average cost per hundredweight?

Alfalfa large round	47,700 lbs	\$185/ton
Alfalfa 3x4 bales	51,720 lbs	\$172.50/ton
Grass large round	47,560 lbs	\$145/ton

- a. \$11.75      b. \$10.11      c. \$9.19      d. \$8.38

**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 the productive life of his daughters?  
a. Alexander                      b. Vito                      c. Patriot                      d. Dollar
62. Which trait could you look at if you wanted to have cattle that had higher classification scores?  
a. CFP                      b. DPR                      c. PTAT                      d. PL
63. Which bull should raise the component value of fat and protein?  
a. Vito                      b. Justice                      c. Dennis                      d. Zeek
64. What factor has put Mariachi as the highest ranking sire on this sire report?  
a. PTA-protein                      b. SCS                      c. JPI                      d. PTA-milk
65. If NM\$ determined the ranking order, which bull would be listed first?  
a. Mariachi                      b. Rumble                      c. Hardwood                      d. Justice

**Pedigree Questions -- 5 pts each**

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

- |    |       |                              |
|----|-------|------------------------------|
| #1 | Lot 3 | Viking Valley Goldenboy Tala |
| #2 | Lot 4 | North Star Dragon Trinket    |
| #3 | Lot 7 | Sun-Made HP Jetway Vanna ET  |
| #4 | Lot 8 | Sun-Made Dalley Trickle      |
66. Which heifer is the youngest?  
a. #1                      b. #2                      c. #3                      d. #4
67. What is the name of the maternal granddam of #4?  
a. Milk & Honey Tonis Tessa                      b. Groves-Sun Supreme Tasia  
c. Genesis Dominate Veva                      d. Kulp-Gen EM Daffodil ET
68. Which heifer's dam was not an embryo transfer?  
a. #1                      b. #2                      c. #3                      d. #4
69. Which heifer's sire was classified as an excellent 90 points?  
a. #1                      b. #2                      c. #3                      d. #4
70. Which heifer has an "All American Aged Cow 2001" in her pedigree?  
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 3	Viking Valley Goldenboy Tala
#2	Lot 4	North Star Dragon Trinket
#3	Lot 7	Sun-Made HP Jetway Vanna ET
#4	Lot 8	Sun-Made Dalley Trickle

### 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 JC

#2 Marvel

#3 Vernon

#4 Voltage

### 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 8097

#3 Index 8101

#4 Index 8148

# HERD SUMMARY

42-77-0074

DHI-202

Test Date      Samples at Lab      Processed  
**07-24-2013      07-26-2013      07-26-2013**

**IO STATE DAIRY**  
**JOE DETRICK**

Appendix A

Page 5 of 6

Electronic Meters

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

### Production, Income & Feed Cost Summary

	Daily Average per Cow on Test Day		Rolling Yearly Herd Averages			
	Number	%	Number	%		
Total Cows	<b>441</b>		<b>440.5</b>			
Cows in Milk	402	91	383.2	87		
Milk Lbs (All Cows)	<b>70.6</b>		<b>24,846</b>			
Fat Lbs (All Cows)	<b>2.51</b>		<b>919</b>			
Fat %	<b>3.6</b>		<b>3.7</b>			
Protein Lbs (All Cows)	<b>2.13</b>		<b>767</b>			
Protein %	<b>3.0</b>		<b>3.1</b>			
Milk Lbs (Milking Cows)	<b>77.5</b>					
	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 \$	16.20	14.76	5,268			
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
	21.59	3.8	3.1	21.40	3.8	3.1

### 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			
						Under VWP	VWP to 100 Days	101 to 130 Days	Over 130 Days
137	50	66	26	15	15	Number Cows			
			19	11	11	% of Breeding Herd			
			1	26	11	32			

### 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	8	112	1	65	2.5	3.8	13.1	120	< 18	114	1st	428	26	+735
2nd Lact	4	90		65	2.5	3.6	13.0	116	18 - 24	205	2nd	321	25	+738
3+ Lacts	1	93	1	71	2.7	4.2	13.5	132	36 - 48	304	3rd +	592	23	+734
All Lacts	13	295	2	67	2.6	3.9	13.2	122	Other	141	<b>Total</b>	<b>1341</b>	<b>24</b>	<b>+735</b>
% of All 1st Services	4	95	1		Current Actual Calving Interval			13.3			Abortions	This Test		Past Year
											Actual	8		
											Apparent	6		44

### 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	66	13	64	6	102	18	9	8	6
2+	152	15	144	9	250	19	6	7	2
<b>Total</b>	<b>218</b>	<b>28</b>	<b>208</b>	<b>15</b>	<b>352</b>	<b>37</b>	<b>15</b>	<b>15</b>	<b>4</b>

### Cows To Be Milking, Dry, Calving By Month

	Aug	Sep	Oct	Nov	Dec	Jan
* Milking	403	398	400	402	385	392
Dry	42	56	51	46	63	57
Cows to Calve	15	12	33	27	23	33
Heifers to Calve	14	20	8	8	11	12

\* Assumes 2.4% 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	26	22	160	27	51	205
8-15-12	55	18	14	117	37	29	204
9-18-12	65	23	18	126	24	25	199
10-23-12	64	34	27	109	35	42	210
11-29-12	55	26	17	88	39	59	196
1-16-13	65	23	19	163	32	63	190
2-28-13	62	30	21	155	42	59	191
4-03-13	72	17	15	142	41	51	191
5-08-13	75	28	22	160	24	29	186
6-13-13	73	28		146	49	43	199
7-24-13	63			113	46	51	201
Averages	65	25	19	132	37	45	197
Totals				1319		451	

### Miscellaneous Herd Information

	Shipped-Test Day Comparison			Milking Times	Wgh	Spl
	Test Day	Yearly Avg.				
Sum of Test Day Wts	31089	29939		1st	12:07pm	Y   N
Reported Avg. Daily Bulk Tank Wts	29716	28389		2nd	8:01pm	Y   N
% Deviation	+4.6	+5.5		3rd	4:10am	Y   Y

### Remarks:

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

**Appendix A**

**Stage Of Lactation Profile**

		Stage of Lactation (Days)						Total or Average
		1 - 40	41 - 100	101 - 199	200 - 305	306 +		
Number Milking	1st Lact	13	22	46	49	21	151	
	2nd Lact	18	23	46	23	14	124	
	3+ Lacts	20	15	30	44	18	127	
	All Lacts	51	60	122	116	53	402	
Average Daily Milk	1st Lact	67	86	74	70	61	72	
	2nd Lact	88	96	84	71	63	82	
	3+ Lacts	83	104	89	72	61	80	
	All Lacts	81	94	81	71	62	78	
% Fat & Pro	1st Lact	% Fat 3.9	% Pro 2.9	3.2	3.6	3.8	4.2	3.7
	2nd Lact	% Fat 3.9	% Pro 3.1	3.4	3.5	3.8	4.0	3.7
	3+ Lacts	% Fat 4.3	% Pro 3.1	3.4	3.4	3.7	3.8	3.7
	All Lacts	% Fat 4.1	% Pro 3.0	3.3	3.5	3.8	4.0	3.7
	1st Lact	185	86	78	62	267	105	
	2nd Lact	254	288	289	108	450	268	
3+ Lacts	422	464	206	687	602	474		
All Lacts	307	269	193	313	429	278		
SCC ACT	Number	18	11	20	28	21	98	
SCC ACT >= 200	Percent	35	18	16	24	40	24	

Weighted SCC ACT (Nearest 1,000)

**Identification And Genetic Summary**

Age Group	Number Animals	Avg. Age (Yr-Mo)	Num. Identified 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	190	0-05	190	190		190	+387	+631	NM				
13+	132	1-06	132	131		132	+332	+518					
Replacements	322	0-10	322	321		322	+364	+584	% of Herd Bred to		99		1
1st Lact	166	1-11	164	162		92	+242	+398	Number of Bulls Used	1	18		
2nd Lact	136	3-00	123	113	1	122	+188	+306	Average Merit \$	+247	+731	+0	
3+ Lacts	139	5-01	139	139	1	139	+116	+185	Avg. Percentile Rank (Net Merit)	37	98		
All Lacts	441	3-03	426	414	2	353	+174	+302	DCR Milk		103		
% Identified (Producing Females)			96	94	No. Heifers Age Over 30 Months								

**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	166	23	86	82	24505	
2nd Lact	136	36	105	101	24162	896	730	+687	+14	+17	1300
3+ Lacts	139	61	106	102	22470	847	698	-542	-40	-13	1390
All Lacts	441	39	98	94	23775	891	725	+222	+5	+6	1290

**Somatic Cell Summary**

Lactation	% 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
1st Lact	81	13	3	1	2
2nd Lact	71	9	9	4	7
3+ Lacts	50	15	13	12	10
All Lacts	68	12	8	5	6
Herd Production Lost From SCC This Test Period					
Milk		17,306	Dollars (\$)		3,736

**Dry Cow Profile**

Lact.	Number Dry Periods	Avg. Days Dry	Number Dry by Days			Cows Entered		Cows Left	
			< 40	40-70	> 70	Num.	%	Num.	%
1						149	34	44	10
2	133	55	12	107	14			43	10
3+	137	67	8	85	44			88	20
All	270	61	20	192	58	149	34	175	40

**Yearly Summary Of Cows Entered And Left The Herd**

Lact.	Number Dry Periods	Avg. Days Dry	Number Dry by Days	Cows Entered	Cows Left	Number of Cows Left the Herd										
						Dairy	Low Prod	Repro	Mast	Udder	Feet & Legs	Injury Other	Disease	Died	Not Rptd	
1				149	34	44	10	1		22	8	1	2	1		9
2	133	55	12	107	14			43	10	10	1	16	4	1	5	6
3+	137	67	8	85	44			88	20	7		40	7	1	6	26
All	270	61	20	192	58	149	34	175	40	18	1	78	19	3	3	12
						35 % Left Herd For Involuntary Reasons										

**Yearly Production And Mastitis Summary**

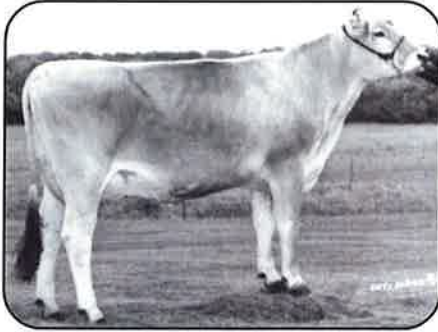
Test Date	Days In Test Period	Number Cows In Herd On Test Day	Test Day Averages (Milking Cows)		150 Day Milk	Test Period Persist. Index	Test Day Averages (All Cows)				Rolling Yearly Herd Average			Somatic Cell Count Summary					MUN	Number Left Herd			
			DIM	Milk			% In Milk	Milk	%Fat	%Pro	Milk	Fat	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	42	467	209	66.6	74.6	98	91	60.4	3.3	3.0	23697	854	720	61	17	12	4	7	3.1	343	10.6	2	12
8-15-12	35	447	198	76.2	82.6	113	83	62.9	3.7	3.0	23424	847	711	63	14	9	6	8	3.0	347	12.6	8	16
9-18-12	34	433	205	78.4	85.5	107	84	65.4	3.4	3.1	23351	848	709	68	11	9	4	8	2.8	290	11.0	3	13
10-23-12	35	424	200	76.8	83.8	99	85	64.9	3.8	3.1	23328	849	709	68	13	8	5	7	2.8	302	12.7	7	21
11-29-12	37	418	191	72.8	78.8	95	90	65.2	3.5	3.2	23265	843	708	69	12	7	6	6	2.8	280	11.7	1	19
1-16-13	48	440	193	76.9	82.4	105	88	67.6	3.9	3.1	23328	841	712	69	14	7	4	7	2.9	339	11.5	2	8
2-28-13	43	459	189	79.2	84.1	103	88	69.3	3.7	3.0	23453	845	718	69	13	6	5	6	2.9	333	10.1	4	
4-03-13	34	454	187	78.6	83.2	102	93	72.6	3.9	3.1	23676	856	727	69	10	8	6	6	2.9	327	12.4	7	16
5-08-13	35	440	196	83.6	88.2	108	89	74.6	3.7	3.1	24014	876	740	67	12	6	5	9	2.8	364	11.8	2	24
6-13-13	36	441	191	84.5	89.8	104	88	74.3	3.8	3.0	24419	898	753	85	5	4	2	4	2.1	180	13.8	4	7
7-24-13	41	441	192	77.5	83.3	93	91	70.6	3.6	3.0	24846	919	767	68	12	8	5	6	2.7	278	10.0	3	10
Averages	38	440	194	78.5	84.2	103	88	68.7	3.7	3.1				70	12	7	5	7	2.8	304	11.8	41	134

Test Period Avg. Milk Lbs Added 72.0 Dropped 62.0



## Appendix B: Accelerated Genetics USA Proof Criteria

<input type="checkbox"/>	NAAB	Name	JPI	NM\$	CM\$	PTAM	PTAF	PTAF%	PTAP	PTAP%	CFP	MREL	PL	SCS	DPR	PTAT	JUI	SIRE x MGS
<input type="checkbox"/>	014JE00634	Mariachi	221	496	518	1547	79	0.04	52	-0.02	131	56	3.1	3.14	0.5	2.10	4.26	Charnesa x Gannon-PR
<input type="checkbox"/>	014JE00615	Marksman	218	550	608	1164	56	0.01	46	0.03	102	56	4.5	2.84	0.1	1.90	4.52	Visionary x Impuls
<input type="checkbox"/>	014JE00606	Prince	218	507	561	1422	53	-0.06	54	0.02	107	61	3.9	2.98	-0.1	2.10	4.23	Visionary x Impuls
<input type="checkbox"/>	014JE00576	Samson	208	472	507	1370	65	0.01	47	-0.02	112	68	2.8	2.89	-1.0	2.70	6.12	Valentino x Iatola
<input type="checkbox"/>	014JE00607	Rumble	203	523	563	1123	42	-0.05	42	0.01	84	61	5.1	2.97	1.0	1.10	3.29	Vaughn x Alexander
<input type="checkbox"/>	014JE00611	Amazing	199	498	583	644	65	0.20	39	0.09	104	60	3.6	2.93	0.5	1.80	4.82	Critic-P x Renegade
<input type="checkbox"/>	014JE00589	Power	197	555	654	441	48	0.15	34	0.10	82	59	5.3	2.79	1.4	0.20	2.32	Zuma x Impuls
<input type="checkbox"/>	014JE00555	Roy	193	519	612	757	70	0.19	43	0.08	113	65	3.5	2.87	0.5	1.00	1.32	Impuls x Jace
<input type="checkbox"/>	014JE00604	Justice	190	564	635	579	68	0.22	33	0.07	101	65	4.9	2.95	1.5	0.90	2.87	Alexander x Impuls
<input type="checkbox"/>	014JE00572	Vegas	190	472	521	1419	84	0.10	52	0.01	136	70	1.9	2.89	-1.2	1.00	0.61	Lotto x Paramount
<input type="checkbox"/>	014JE00574	Dennis	187	467	489	1344	60	0.00	45	-0.01	105	67	3.2	3.03	0.2	1.60	1.88	Plus x Restore
<input type="checkbox"/>	014JE00608	Armor	183	480	510	1078	51	0.01	38	-0.01	89	60	4.6	2.93	0.3	1.30	2.53	Redhot x Dale
<input type="checkbox"/>	014JE00591	Zeek	183	478	549	767	52	0.10	37	0.05	89	64	3.5	2.77	0.6	0.30	2.25	Zuma x Louie
<input type="checkbox"/>	014JE00600	Decoy	180	371	391	1582	50	-0.12	51	-0.02	101	69	1.7	2.99	-1.3	2.40	3.19	Valentino x Restore
<input type="checkbox"/>	014JE00539	Maddix	179	372	422	1544	85	0.07	61	0.03	146	92	-0.2	3.32	0.4	0.70	-1.33	Blueprint x Impuls
<input type="checkbox"/>	014JE00612	Anthem-P	177	495	539	858	55	0.09	34	0.02	89	60	4.4	2.89	0.8	1.50	2.89	Critic-P x Renegade
<input type="checkbox"/>	014JE00582	Hardwood	173	468	539	457	48	0.15	29	0.06	77	65	3.9	2.90	1.5	1.40	3.63	Renegade x Impuls
<input type="checkbox"/>	014JE00595	Patriot	171	396	428	1176	62	0.04	43	0.01	105	67	2.1	3.08	0.2	1.40	2.14	Abbott x Impuls
<input type="checkbox"/>	014JE00602	Florino	167	396	434	905	52	0.07	35	0.03	87	67	2.9	2.99	-0.8	1.80	4.51	Merchant x Rebel
<input type="checkbox"/>	014JE00533	Vito	167	280	301	2386	54	-0.27	74	-0.06	128	95	-0.8	2.94	-3.4	0.60	-2.31	Restore x Paramount
<input type="checkbox"/>	014JE00581	Hebo	164	464	522	488	48	0.14	28	0.05	76	64	4.2	2.94	1.2	1.30	3.37	Renegade x Impuls
<input type="checkbox"/>	014JE00592	Dollar	163	411	467	805	61	0.13	38	0.05	99	67	2.6	3.07	0.3	1.60	2.12	Champ x Jupiter
<input type="checkbox"/>	014JE00605	Spitfire	161	341	351	991	41	-0.03	31	-0.03	72	63	1.7	2.98	-0.1	2.50	6.42	Golda x Iatola
<input type="checkbox"/>	014JE00537	Lotto	157	506	532	820	75	0.20	26	-0.02	101	97	4.1	2.72	0.8	0.80	0.72	Jevon x Jace
<input type="checkbox"/>	014JE00544	Dazzle	157	313	306	1671	31	-0.23	48	-0.06	79	90	2.3	3.09	0.0	0.90	1.96	Dale x Rescue
<input type="checkbox"/>	014JE00473	Louie	156	446	434	1312	61	0.01	34	-0.06	95	99	3.9	2.92	0.5	0.60	0.88	Impuls x Khan
<input type="checkbox"/>	014JE00472	Alexander	106	379	416	132	37	0.17	12	0.04	49	98	4.6	2.93	1.4	0.30	1.00	Artist x Bold



**Sun-Made Jetway Twirl ET 'E91 - E91ms'**  
4/01 365D 2X 42040 3.6 1503 3.1 1307 DHIR  
MGD of Lot 3



**Sun-Made Prelude Topaz ET 'E92 - E92ms'**  
4/08 365D 3Xs 43100 4.0 1733 3.5 1522 DHIR  
SR 4 Yr OLD MILK & PROTEIN HONOR ROLLS  
MGD of Lot 4



**Mort Matt Tammy 'E90 - Certified'**  
5/02 365D 2X 24950 4.4 1093 3.6 898 DHIR  
NOM ALL AMERICAN 5 Yr OLD 1990  
\*SBC\* - 4th Dam of Lots 3 & 4

**\$ #1 LOT 3 \* Viking Valley Goldenboy Tala 68147772**

Born: 10/20/2012 Tattoo: 1369  
Consignor: BRATLAND, DURON & DARIN  
SPRING GROVE MN

Parent Average PPR: +98 PTAT: +0.3  
PA: +609m +18f +21p +229NM\$

3rd Dam:

**SUN-MADE BLEND TRISHA ET 821748**  
'2E91 - 2E90ms' \*Superior Brood Cow\*  
05/01 365d 2X 33880 4.1 1382 3.5 1177 DHIR  
Res All American Summer Yrfg Hfr 1993  
Member All American Prod Of Dam 1997

4th Dam:

**MORT MATT TAMMY 736173**  
\*3E90 - Certified - Superior Brood Cow\*  
05/02 365d 2X 24950 4.4 1093 3.6 898 DHIR  
Nom All American 5 Yr Old 1990

5th Dam:

**MORT IMPROVER LORI 676890 "3E90"**  
08/05 365d 2X 26020 5.0 1297 3.6 929 DHIR

**TRASKVIEW VIGOR GOLDEN BOY \*TM 68115385**

Not Classified  
PPR: +165 59%R PTAT: +0.4 62%R (04/13)  
PTA: +721m +30f +29p +458NM\$ 62%R (GEN)  
PTA PL: +5.5 SCS: +2.75 DPR: +0.4 SCE: +8  
0 dau. av.

**VIKING VALLEY DENM TALLY ET 68106566**

04/03 +83 +80 V87 +84 +84 +82 (11/12)  
PPR: +29 57%R PTAT: +0.1 60%R  
PTA: +497m +6f +13p +0NM\$ 26%\$  
02/02 324d 2X 20130 4.0 801 3.5 695 DHIR  
03/02 354d 2X 31220 2.9 909 3.4 1067 DHIR

**SUN-MADE VIGOR ET \*TM 195618**

Not Classified \* SUPERIOR SIRE \*  
PPR: +137 97%R PTAT: +0.5 98%R (04/13)  
PTA: +402m +1f +19p +415NM\$ 98%R (MACE)  
PTA PL: +6.0 SCS: +2.69 DPR: +1.0 SCE: +6

**TRASKVIEW ACE ANN 928127**

07/08 2E-E91 E92 E94 E91 V88 E91 (08/11) \*CERT\*  
PPR: +150 71%R PTAT: +0.3 74%R  
PTA: +844m +40f +32p +377NM\$ 96%\$ (GEN)  
02/02 365d 2X 22310 4.3 949 3.5 772 DHIR  
03/09 296d 2X 21270 4.5 963 3.5 746 DHIR  
05/09 365d 2X 25770 4.1 1061 3.5 902 DHIR  
07/04 365d 2X 27270 4.5 1223 3.4 916 DHIR  
Lifetime: 2026d 133690m 5855f 4721p

**R HART TC DENMARK ET 189181 E90**

PPR: +27 99%R PTAT: +0.2 99%R (04/13)  
PTA: -100m -6f +2p +85NM\$ 99%R (MACE)  
PTA PL: -0.1 SCS: +2.65 DPR: +0.4 SCE: +4

**SUN-MADE JETWAY TWIRL ET 870264**

04/08 E91 E90 E95 V88 V88 E91 (05/02)  
PPR: -49 70%R PTAT: +0.8 76%R  
PTA: +275m -5f -6p -295NM\$ 0%\$  
02/00 365d 2X 20360 3.7 763 3.3 677 DHIR  
03/01 347d 2X 33890 3.8 1282 3.1 1061 DHIR  
04/01 365d 2X 42040 3.6 1503 3.1 1307 DHIR

**\$ #2 LOT 4 \* North Star Dragon Trinket 68136470**

Born: 09/15/2011 Tattoo: N112  
Consignor: KEUNE, TODD & JILL & JOHN &  
DEBORAH FRANKE, WYKOFF MN

Parent Average PPR: +29 PTAT: +0.6  
PA: +47m +15f +8p -19NM\$

Breeding Info Sale Date

3rd Dam:

**SUN-MADE DOTSON TATUM ET 814809**  
"2E90 - Certified"  
04/10 359d 2X 38970 5.0 1929 3.6 1386 DHIR

4th Dam:

**MORT MATT TAMMY 736173**  
\*3E90 - Certified - Superior Brood Cow\*  
05/02 365d 2X 24950 4.4 1093 3.6 898 DHIR  
Nom All American 5 Yr Old 1990

5th Dam:

**MORT IMPROVER LORI 676890 "3E90"**  
08/05 365d 2X 26020 5.0 1297 3.6 929 DHIR

**KULP GEN DYNASTY DRAGON 197610**

Not Classified \* QUALIFIED SIRE \*  
PPR: +80 87%R PTAT: +0.8 85%R (04/13)  
PTA: +482m +35f +21p +16NM\$ 90%R (MACE)  
PTA PL: -1.5 SCS: +3.14 DPR: -2.8 SCE: +7  
199 dau. av. 24304 4.1 1004 3.3 808  
159 class. dau. av. FS:82.8 UDC:0.62 FLC:0.27

**NORTH STAR FSF TINKERBELL 68118512**

03/08 V89 V88 V88 V87 V87 E90 (06/13)  
PPR: -23 44%R PTAT: +0.3 52%R  
PTA: -388m -6f -5p -53NM\$ 16%\$  
01/11 261d 2X 12890 4.4 561 3.6 458 DHIA

**HILLTOP ACRES EN DYNASTY ET \*TM 193371 NC**

PPR: +31 99%R PTAT: +0.8 99%R (04/13)  
PTA: +614m -2f +13p -42NM\$ 99%R (MACE)  
PTA PL: -0.4 SCS: +3.13 DPR: -2.5 SCE: +4

**KULP-GEN EM DAFFODIL ET 897058**

04/05 E91 E91 E91 V88 E90 E91 (10/04) \*CERT\*  
PPR: +63 78%R PTAT: +0.4 83%R  
PTA: -248m +32f +13p +73NM\$ 43%\$  
02/04 365d 2X 22490 5.9 1319 3.7 829 DHIR  
04/03 365d 2X 27710 5.8 1597 3.8 1058 DHIR

**FASHION STAR FROSTY ET (M) 197103 NC**

PPR: -88 82%R PTAT: +0.3 87%R (04/13)  
PTA: -1418m -27f -31p -121NM\$ 85%R (GEN)  
PTA PL: +0.6 SCS: +3.17 DPR: +1.7 SCE:

**SUN-MADE PRELUDE TOPAZ ET 889693**

12/08 2E-E92 E92 E96 E91 E91 E92 (02/12) \*CERT\*  
PPR: +44 64%R PTAT: +0.3 73%R  
PTA: +399m +10f +16p +27NM\$ 32%\$  
02/06 365d 3X 29400 3.6 1067 3.4 985 DHIR  
04/08 365d 3X 43100 4.0 1733 3.5 1522 DHIR  
08/00 365d 3X 24090 3.6 865 3.3 788 DHIR  
10/04 346d 3X 21800 3.9 856 3.2 693 DHIR  
Lifetime: 2551d 176820m 6876f 6033p  
5th Sr 4 YR OLD 365 3X MILK HONOR ROLL 2005  
5th Sr 4 YR OLD 365 3X PROTEIN HONOR ROLL 2005  
4th Sr 4 YR OLD 305 3X PROTEIN HONOR ROLL 2004



**Kulp Gen Zoldo Veronica ET '2E91 - E90ms \*Certified\***  
3/10 365D 2X 36940 4.5 1666 3.6 1334 DHIR  
Dam of Lot 7



**Milk & Honey Tonis Tessa '22E92 - E92ms'**  
4/07 365D 2X 22500 4.4 992 3.1 697 DHIR  
RESERVE ALL AMERICAN 4 Yr Old 2011  
MGD of Lot 8

**\$ #3 LOT 7 \* Sun-Made HP Jetway Vanna ET 68151851**

Born: 03/19/2013 Tattoo: HZ84  
Consignor: SUNSHINE ASSOCIATES LLC & HILLPOINT PARTNERS, WHITEWATER WI

Parent Average PPR: +4 PTAT: +0.5  
PA: +44m +5f -1p -90NM\$

3rd Dam:  
**GENESIS EVEN VICTORIA ET 857348**  
"3E93 - Certified"  
06/05 365d 2X 36530 4.3 1558 3.7 1348 DHIR

4th Dam:  
**GENESIS PRESTON VERONICA 837824**  
"2E90 - Certified - Superior Brood Cow"  
07/06 365d 3X 30030 3.7 1124 3.0 887 DHIR

5th Dam:  
**VICTORY ACRES TRAD VIVIAN ET 817407**  
"V85 - Certified - Superior Brood Cow"  
04/08 305d 3X 22100 3.7 807 3.7 807 DHIA

**FOREST LAWN SIMON JETWAY ET(M) 185301**  
E90  
PPR: -58 99%R PTAT: +0.5 99%R (04/13)  
PTA: -127m -8f -13p -304NM\$ 99%R (MACE)  
PTA PL: -2.4 SCS: +3.01 DPR: -3.2 SCE: +8  
26540 dau. av. 21318 4.0 845 3.2 691  
13453 class. dau. av. FS:84.9 UDC:0.20 FLC:0.32

**KULP GEN ZOLDO VERONICA ET 907910**  
11/00 2E-E91 E94 E92 V87 E90 E90 (09/12) \*CERT\*  
PPR: +67 63%R PTAT: +0.4 72%R  
PTA: +215m +17f +11p +125NM\$ 56%\$ (04/13)  
02/04 365d 2X 28940 4.2 1214 3.6 1045 DHIR  
03/10 365d 2X 36940 4.5 1666 3.6 1334 DHIR

**TOP ACRES ELEGANT SIMON 176173 V87**  
PPR: -32 98%R PTAT: -0.6 99%R (04/13)  
PTA: -632m -20f -18p +16NM\$ 99%R (GEN)  
PTA PL: +3.2 SCS: +2.81 DPR: -1.4 SCE:

**IDYL WILD IMPROVER JINX (M) 664521**  
09/11 3E-E90 E90 E90 E90 E90 (09/88) \*SBC\*  
PPR: -66 87%R PTAT: +0.6 91%R PTA: 4%\$  
03/06 365d 2X 25940 4.0 1040 DHIR  
04/09 365d 2X 21980 4.8 1048 DHIR  
06/05 365d 2X 25830 4.5 1172 3.5 915 DHIR  
07/10 365d 2X 29840 4.3 1284 3.6 1060 DHIR  
Lifetime: 2250d 140380m 6101f 2546p  
\* ALL AMERICAN AGED COW 1985  
\* GRAND CHAMPION CENTRAL NATIONAL 1985

**EMORY TAMMYS ZOLDO \*TW 192805 NC**  
PPR: +25 96%R PTAT: +0.0 96%R (04/13)  
PTA: +187m +8f +5p +23NM\$ 97%R (MACE)  
PTA PL: -1.8 SCS: +3.01 DPR: +0.9 SCE:

**GENESIS DOMINATE VEVA 878185**  
07/10 2E-E90 E92 E90 E90 E90 V89 (04/06) \*CERT\*  
PPR: -31 84%R PTAT: +0.4 88%R  
PTA: -199m +7f -4p -157NM\$ 5%\$ (GEN)  
02/00 365d 3X 26800 5.2 1404 3.7 981 DHIR  
03/11 365d 2X 28340 4.8 1365 3.4 977 DHIR  
05/07 305d 2X 24730 4.2 1051 3.5 857 DHIR  
07/03 365d 2X 20990 4.2 875 3.6 748 DHIR  
Lifetime: 2156d 131060m 6119f 4801p

**\$ #4 LOT 8 \* Sun-Made Dally Trickle 68150559**

Born: 03/04/2013 Tattoo: SG718 / SG718  
Consignor: SUNSHINE ASSOCIATES LLC WHITEWATER WI

Parent Average PPR: +85 PTAT: +0.9  
PA: +194m +2f +12p +162NM\$



3rd Dam: Toni '3E94 - Certified'

**KULP GEN PRONTO DALLY ET \*TM 197305**  
Not Classified \* SUPERIOR SIRE \*  
PPR: +132 89%R PTAT: +0.9 83%R (04/13)  
PTA: +366m +14f +25p +262NM\$ 93%R (MACE)  
PTA PL: +2.7 SCS: +2.89 DPR: +0.1 SCE: +8  
265 dau. av. 23629 3.9 919 3.3 770  
143 class. dau. av. FS:83.2 UDC:1.31 FLC:1.20

**GROVES-SUN SUPREME TASIA ET 68131205**  
02/08 V85 V85 +83 +83 V85 V87 (06/13)  
Parent Average PPR: +35 PTAT: +0.8  
PA: +22m -10f -2p +61NM\$

3rd Dam:  
**TIMBERLINE JETWAY TONI (M\*) 842826**  
09/04 3E94 3E95 3E96 3E95 3E91 3E94 \*Certified\*  
05/11 305d 2X 25110 5.0 1258 3.5 884 DHIA  
Lifetime: 2201d 142620m 6471f 5235p  
All American Aged Cow 2001  
All American Sr 2, 3, 4 Yr Old 1997, 1998, 1999  
Res All American Aged Cow 2004

**SUN-MADE GAR BRO PRONTO ET \*TM 191184**  
V88 \* SUPERIOR SIRE \*  
PPR: +120 98%R PTAT: +0.3 98%R (04/13)  
PTA: +470m +17f +15p +369NM\$ 99%R (MACE)  
PTA PL: +5.4 SCS: +2.79 DPR: +0.3 SCE: +8

**KULP-GEN EM DAFFODIL ET 897058**  
04/05 E91 E91 E91 V88 E90 E91 (10/04) \*CERT\*  
PPR: +63 78%R PTAT: +0.4 83%R  
PTA: -248m +32f +13p +73NM\$ 43%\$  
02/04 365d 2X 22490 5.9 1319 3.7 829 DHIR  
04/03 365d 2X 27710 5.8 1597 3.8 1058 DHIR

**OLD MILL WDE SUPREME ET \*TM 197920**  
Not Classified \* QUALIFIED SIRE \*  
PPR: +95 94%R PTAT: +0.9 95%R (04/13)  
PTA: +442m +17f +16p +145NM\$ 97%R (GEN)  
PTA PL: +0.0 SCS: +2.91 DPR: +0.2 SCE: +8

**MILK & HONEY TONIS TESSA 956795**  
06/08 2E-E92 E92 E91 E90 E93 E92 (06/13)  
PPR: -20 68%R PTAT: +0.7 73%R PTA: 21%\$  
02/05 365d 2X 21400 4.4 941 3.3 698 DHIR  
04/07 365d 2X 22500 4.4 992 3.1 697 DHIR  
\* RES ALL AMERICAN 4 YR OLD 2011  
\* 3rd 4 YR OLD INTERNATIONAL 2011  
\* JR CHAMPION OZARK EMPIRE FAIR 2007  
\* 2nd FALL HFR CALF MO STATE FAIR 2007  
\* 1st FALL HFR CALF OZARK EMPIRE FAIR 2007





**JC**  
**011JE01054**

**FOREST GLEN ACTION JC**  
Action x Mecca x Bold  
Reg USA 000067282647  
DOB 10/01/2009  
aAa 132546 DMS 135  
Kappa Casein BB  
Haplotype:



Grandam: Forest Glen Jades Jasmine-ET



GGrandam: Havs Chief Berretta Jade

**GENOMIC USDA SIRE SUMMARY, 08/2013**

<b>MILK</b>	<b>+1347Lbs</b>	69% Rel	<b>GFI</b>	+7.9%	
<b>PROTEIN</b>		-0.07%	+34 Lbs	<b>DPR</b>	+0.0
<b>FAT</b>		-0.14%	+35 Lbs	<b>SCS</b>	3.20
<b>CHEESE MERIT</b>	\$+240	<b>NM\$</b>	+274	<b>PL</b>	+2.5
<b>HEALTH</b>	+0.35	<b>FM\$</b>	+320	<b>Alta Value</b>	\$278
Dtrs/ Herds	100% US Dtrs	%	%		

**GENOMIC TYPE SUMMARY, 08/2013**

**PA TYPE +1.5**    0 Clsfd Dtrs    **JUI +3.73**    65% Rel    **JPI 134**  
PA TYPE +1.5, 0 Dtrs/ 0 Herds Reliability 65%

<b>Linear 08/2013</b>	-2	-1	1	2	
Stature					+1.6 Tall
Strength					+0.8 Strong
Dairy Form					+2.0 Open
Rump Angle					+0.4 Sloped
Thurl Width					+0.3 Wide
R. Legs-S View					+0.9 Sickie
Foot Angle					-0.2 Low
F. Udder Att.					+1.2 Strong
R. Udder Ht.					+2.2 High
R. Udder Wid.					+1.7 Wide
Udder Cleft					+1.2 Strong
Udder Depth					+0.5 Shallow
F. Teat Place					+0.4 Close
Teat Length					+1.3 Long

**Sire:** Forest Glen Avery Action-ET  
**Dam:** Forest Glen Meccas Jacey-ET EX-91%  
4-08 305d 2x 30,640m 4.2% 1282f 3.3% 1017p  
**MGS:** Sunset Canyon Mecca-ET  
**MGD:** Forest Glen Jades Jasmine-ET EX-91%  
3-08 305 2x 23,790m 4.0% 946f 3.5% 823p  
**MGGS:** MVF Bold Venture Daniel  
**MGGD:** Havs Chief Berretta Jade EX-95%  
4-02 305d 2x 23,570m 3.5% 820f 3.8% 894p



# MARVEL

011JE01118

ALL LYNN'S VALENTINO MARVEL  
Valentino x Impuls x Country



Reg USA 000117422971  
DOB 11/25/2010

aAa 432561 DMS 246,126  
Haplotype: JH1



MGD: BW Country Monica

GENOMIC USDA SIRE SUMMARY, 08/2013

<b>MILK</b>	<b>+1609Lbs</b>	65% Rel	<b>GFI</b>	<b>+6.4%</b>
<b>PROTEIN</b>		+0.00%	<b>DPR</b>	<b>-0.9</b>
<b>FAT</b>		+56 Lbs	<b>SCS</b>	<b>2.81</b>
<b>CHEESE MERIT</b>	<b>+\$633</b>	-0.04%	<b>PL</b>	<b>+4.1</b>
<b>HEALTH</b>	<b>+1.76</b>	<b>NM\$</b>	<b>Alta Value</b>	<b>\$519</b>
		<b>FM\$</b>		
		<b>+584</b>		
Dtrs/ Herds	100% US Dtrs	%	%	

GENOMIC TYPE SUMMARY, 08/2013

**PA TYPE +2.2**    0 Clsfd Dtrs    **JUI +5.75**    61% Rel    **JPI 248**  
PA TYPE +2.2, 0 Dtrs/ 0 Herds Reliability 61%

Linear 08/2013	-2	-1	1	2	
Stature					+1.2 Tall
Strength					+0.5 Strong
Dairy Form					+1.8 Open
Rump Angle					+0.6 Sloped
Thurl Width					+0.6 Wide
R. Legs-S View					-0.2 Posty
Foot Angle					+0.6 Steep
F. Udder Att.					+1.9 Strong
R. Udder Ht.					+2.9 High
R. Udder Wid.					+2.3 Wide
Udder Cleft					+1.0 Strong
Udder Depth					+1.8 Shallow
F. Teat Place					+1.1 Close
Teat Length					+0.1 Long

**Sire:** All Lynns Louie Valentino-ET  
**Dam:** Impuls Monicas Marvel-ET

**MGS:** ISDK Q Impuls  
**MGD:**

**MGGs:** BW Country-ET



# VERNON

011JE01109

AHLEM LEGAL VERNON-ET  
Legal x Jace x Berretta



Reg USA 000068951356  
DOB 08/06/2010  
aAa 531246 DMS 345,456  
Kappa Casein AB  
Haplotype:



## GENOMIC USDA SIRE SUMMARY, 08/2013

<b>MILK</b>	<b>+1013Lbs</b>	67% Rel	<b>GFI</b> +7.6%
<b>PROTEIN</b>		-.01% +34 Lbs	<b>DPR</b> +0.9
<b>FAT</b>		-.06% +32 Lbs	<b>SCS</b> 2.88
<b>CHEESE MERIT</b>	\$+478	<b>NM\$</b> +453	<b>PL</b> +4.2
<b>HEALTH</b>	+2.35	<b>FM\$</b> +432	<b>Alta Value</b> \$406
Dtrs/ Herds	100% US Dtrs	% %	

## GENOMIC TYPE SUMMARY, 08/2013

**PA TYPE +1.7** 0 Clsfd Dtrs **JUI +4.90** 63% Rel **JPI 179**  
PA TYPE +1.7, 0 Dtrs/ 0 Herds Reliability 63%

Linear 08/2013	-2	-1	1	2	
Stature					+0.8 Tall
Strength					+0.5 Strong
Dairy Form					+1.4 Open
Rump Angle					-0.4 High Pins
Thurl Width					+0.3 Wide
R. Legs-S View					-0.2 Posty
Foot Angle					+1.1 Steep
F. Udder Att.					+1.5 Strong
R. Udder Ht.					+1.9 High
R. Udder Wid.					+1.5 Wide
Udder Cleft					+0.8 Strong
Udder Depth					+2.1 Shallow
F. Teat Place					+0.9 Close
Teat Length					-0.2 Short

**Sire:** Tollenaars Impuls Legal 233-ET  
**Dam:** Ahlem Jace Vette 16366-ET VG-89  
2-10 276d 3x 23,850m 4.4% 1038f 3.6% 849p  
**MGS:** Windy Willow Montana Jace  
**MGD:** Ahlem MBSB Vette 7612 EX-93  
6-02 305d 3x 30,490m 4.4% 1341f 3.5% 1057p  
**MGGS:** Mason Boomer Sooner Berretta





# VOLTAGE

011JE01091

ALL LYNN'S CELEBRITY VOLTAGE-ET  
Celebrity x Paramount x Abe



Reg USA 000117123881  
DOB04/14/2010  
aAa 162354 DMS 126, 561  
Kappa Casein BB  
Haplotype:



Dam: D&E Paramount Violet



Grandam: D&E Abe Violet

### GENOMIC USDA SIRE SUMMARY, 08/2013

<b>MILK</b>	<b>+1331Lbs</b>	71% Rel	<b>GFI</b>	<b>+9.1%</b>
<b>PROTEIN</b>		-.03%	<b>DPR</b>	<b>-1.1</b>
<b>FAT</b>		-.04%	<b>SCS</b>	<b>3.13</b>
<b>CHEESE MERIT</b>	<b>+\$329</b>	<b>NM\$</b>	<b>PL</b>	<b>+1.9</b>
<b>HEALTH</b>	<b>-0.51</b>	<b>FM\$</b>	<b>Alta Value</b>	<b>\$277</b>
Dtrs/ Herds	100% US Dtrs	%	%	

### GENOMIC TYPE SUMMARY, 08/2013

**PA TYPE +1.2**    0 Clsfd Dtrs    **JUI +1.68**    69% Rel    **JPI 147**  
PA TYPE +1.2, 0 Dtrs/ 0 Herds Reliability 69%

Linear 08/2013	-2	-1	1	2	
Stature					+0.6 Tall
Strength					+0.0 Strong
Dairy Form					+1.2 Open
Rump Angle					+1.1 Sloped
Thurl Width					+0.3 Wide
R. Legs-S View					-0.2 Posty
Foot Angle					+0.2 Steep
F. Udder Att.					+0.3 Strong
R. Udder Ht.					+1.5 High
R. Udder Wid.					+1.2 Wide
Udder Cleft					+1.1 Strong
Udder Depth					-0.6 Deep
F. Teat Place					+0.0 Close
Teat Length					+0.9 Long

**Sire:** Galaxies Celebrity-ET - 011JE00826  
**Dam:** D&E Paramount Violet EX-90%  
 5-02 305d 3x 27,600m 4.2% 1167f 3.5% 953p  
**MGS:** Rock Ella Paramount-ET  
**MGD:** D&E Abe Violet EX-90%  
 6-06 305d 2x 22,060m 4.2% 928f 3.6% 791p  
**MGGS:** Ahlem Lemvig Abe-ET - 122JE05198  
**MGGD:** D&E Avery Violet Bell  
 NA

**COW PAGE**  
DHI-103

Test Date: 07-24-2013  
Processed: 07-26-2013

42-77-0074  
IO STATE DAIRY

String  
1

Barn Name		Index	
<b>7705</b>		<b>7705</b>	
Breed	Country	Birth Date	Body Wt.
HO	USA	05-20-08	1460
Identification		Inbrd. Coef.	DCR Milk
63429020		8.2	104
984000001159272			

ELM ELDWIN		Site	
Breed	Country	Identification	AI Code / Name
HO	USA	17281340	1HO05502
			ELDWIN
Milk	%Fat	Fat	%Pro
-378	-09	-35	+05
Pro			
+2			
%Rel			
99			
%Rank			
1			

Predicted Transmitting Ability		Estimated Relative Producing Ability	
Milk	%Fat	%Rel	%Rank
-820	+01	-26	+02
Pro			
-19			
Fat			
-150			
Pro			
-165			
%Rel			
-1987			

Dam		Barn Name / Index	
Breed	Country	Identification	2197
HO	USA	133195930	
Milk	%Fat	Fat	%Pro
-578	+00	-21	-03
Pro			
-24			
%Rel			
63			
%Rank			
1			

Test Day Data		Lact No.		3		Calving Date		05-14-12	
DIM	17	59	94	128	163	200	248	291	325
Milk	73	69	86	75	73	59	59	54	51
Fat %	5.2	2.8	4.4	3.5	3.7	2.1	3.0	3.5	3.6
Pro %	2.9	2.4	2.6	3.1	3.1	3.1	3.0	3.1	3.1
SCC	54	13	66	264	54	141	162	650	303

MGS		NUNESDALE KISMET ELATION-ET	
Breed	Country	Identification	AI Code / Name
HO	USA	2280338	7HO06247
			ELATION
Milk	%Fat	Fat	%Pro
+329	-07	-7	-04
Pro			
-1			
%Rel			
99			
%Rank			
3			

Lact No.	Test Plan	Calving Date	Age at Calving	Days Dry	Days Open	NC. 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
1	2	06-09-10	2-00	101	1	1	17,087	4.0	3.1	534	301	17,087	4.0	3.1	534	21,870	875	657	-5717	-52	-181
2	2	05-23-11	3-00	47	2	2	15,770	3.4	2.9	461	269	15,770	3.4	2.9	461	16,206	576	476	-9929	-365	-299
3	2	05-14-12	3-11	88	3	3	24,973	3.6	2.9	735	402	24,973	3.6	2.9	735	18,913	704	565	-5830	-180	-176
							972	57,830	3.7	2117	972	57,830	3.7	2117	972	18,996	718	566	-7159	-199	-219
LIFETIME							Totals			Averages			Averages			Averages					
							102	51	51	51	1730	1730	3.0	3.0	1730	18,996	718	566	-7159	-199	-219

\* Dry thru Test Date: 07-24-13  
Dried on 06-20-13  
Number of Breedings = 5  
Last Bred 12-06-12 To 1HO10133 HO Preg  
Prev Bred 11-15-12 To 1HO10484 HO  
Prev Bred 10-04-12 To 1HO10484 HO

Barn Name 7705  
Index 7705

Prev Bred 09-06-12 To 1HO10484 HO  
Prev Bred 07-26-12 To 1HO10226 HO

Barn Name 7705  
Index Number 7705  
Identification 63429020



**COW PAGE**  
DHI-103

Test Date: 07-24-2013  
Processed: 07-26-2013

42-77-0074  
IO STATE DAIRY

String  
1

Barn Name		Index	
<b>8097</b>		<b>8097</b>	
Breed	Country	Birth Date	Body Wt.
HO	USA	08-19-09	1330
Identification		Inbrd. Coef.	DCR Milk
65927965		6.4	
984000001156190			

R-E-W BUCKEYE-ET	
Breed	Country
HO	USA
Identification	
200HO04779	
BUCKEYE	
Milk	%Fat
+1093	-07
Fat	%Pro
+20	-03
Pro	%Rel
+24	99
%Rank	
34	

Predicted Transmitting Ability		Estimated Relative Producing Ability	
Milk	%Fat	%Rel	%Rank
+423	+01	+11	59
Fat	%Pro	Fat	Pro
+18	-01	+172	-39
%Rank		\$	
-472			

Dam	
Breed	Country
HO	USA
Identification	
60889798	
Barn Name / Index	
6-6018	
Milk	%Fat
+3	+08
Fat	%Pro
+21	+01
Pro	%Rel
+3	83
%Rank	
26	

Test Day Data		Lact No.		2		Calving Date		09-14-12	
DIM	5	40	77	125	168	202	237	273	
Milk	44	78	100	94	87	76	62	25	
Fat %	4.1	3.9	3.5	3.6	3.2	4.0	4.0	3.7	
Pro %	4.2	2.8	3.0	2.9	3.1	3.3	3.4	3.6	
SCC	123	27	38	44	33	47	71	29	

MGS	
Breed	Country
HO	USA
Identification	
2294563	
ANDACRES HUNTER ORION	
AI Code / Name	
1HO06020	
ORION	
Milk	%Fat
-146	+22
Fat	%Pro
+51	+08
Pro	%Rel
+16	99
%Rank	
28	

Lact No.	Test Plan	Calving Date	Age at Calving	Days Dry	Days Open	NO. BR.	305 Day Lactation			Days 3X	Pro	Complete Lactation			ME Lactation			Herdmate Deviation						
							Milk	% Fat	% Pro			DIM	Milk	Fat %	Pro %	CAR	Milk	Fat	Pro	Milk	Fat	Pro		
1	2	08-24-11	2-00		121	1	20,789	3.9	814	3.1	641	119	350	22,961	3.9	894	3.1	714	26,665	1028	787	-857	+65	-14
2	2	09-14-12	3-00	37	55	4			279		279	279	21,009	3.7	777	3.1	656	22,328	826	682	-3572	-122	-102	
							Totals									Averages								
LIFETIME							100	65			629	43,970	3.8	1671	3.1	1370	24,497	927	735	-2114	-28	-58		

\* Dry thru Test Date: 07-24-13  
Dried on 06-20-13  
Number of Breedings = 1  
Last Bred 11-08-12 To 1HO10490 HO Preg

Appendix E

Barn Name  
**8097**  
Index  
**8097**

Barn Name	8097	Index Number	8097	Identification	65927965
-----------	------	--------------	------	----------------	----------

**COW PAGE**  
DHI-103

Test Date: 07-24-2013  
Processed: 07-26-2013

42-77-0074  
IO STATE DAIRY

String  
1

Barn Name		Index	
<b>8101</b>		<b>8101</b>	
Breed	Country	Birth Date	Body Wt.
HO	USA	08-27-09	1330
Identification	65927969	Inbrd. Coef.	7.1
	984000001157616	DCR Milk	104

J-K-R BW-MARSHLL BILLION-ET		AI Code / Name	
Breed	Country	14HO04099	Inbrd
HO	USA	BILLION	3.6
Milk	%Fat	Fat	%Pro
+757	-11	-1	+04
Pro			
+34			
%Rel			
99			
%Rank			
43			

Predicted Transmitting Ability		Estimated Relative Producing Ability	
Milk	%Fat	%Rel	%Rank
+431	-06	+1	+05
Pro			
+25			
Fat			
+1689			
%Pro			
-11			
\$			
+594			

Dam		Barn Name / Index	
Breed	Country	6796	Inbrd
HO	USA	6796	5.0
Milk	%Fat	Fat	%Pro
+376	-02	+8	+01
Pro			
+14			
%Rel			
81			
%Rank			
35			

Test Day Data		Lact No.		2		Calving Date		06-29-12	
DIM	13	48	82	117	154	202	245	279	314
Milk	99	109	101	96	74	79	77	71	65
Fat %	3.5	3.0	2.4	2.8	1.8	3.1	3.1	4.0	3.6
Pro %	3.3	2.8	2.9	3.1	3.5	3.5	3.3	3.6	3.5
SCC	107	17	19	31	13	44	54	31	41
									22

MGS		RICH-J SOSA-ET	
Breed	Country	1HO05588	Inbrd
HO	USA	SOSA	4.1
Milk	%Fat	Fat	%Pro
+1519	-16	+10	-08
Pro			
+23			
%Rel			
99			
%Rank			
12			

Lact No.	Test Plan	Calving Date	Age at Calving	Days Dry	Days Open	NC BR.	305 Day Lactation			Complete Lactation			ME Lactation			Hermitate Deviation							
							Milk	% Fat	% Pro	Milk	Fat %	Pro %	Milk	Fat	Pro	Milk	Fat	Pro	Milk	Fat	Pro		
1	2	07-08-11	1-10		76	1	24,102	3.4	814	3.0	729	307	307	3.4	819	3.0	734	29,267	1001	883	+2435	+41	+96
2	2	06-29-12	2-10	50	146	1	26,262	2.9	770	3.2	849	347	377	3.0	924	3.2	991	27,490	819	869	+2633	-75	+120
							106			75		684	54,819	3.2	1743	3.1	1725	28,379	910	876	+2534	-17	+108
LIFETIME							Reproductive Efficiency			Average Milk/Day			Totals			Averages							

\* Dry thru Test Date: 07-24-13  
Dried on 07-11-13  
Number of Breedings = 2  
Last Bred 11-22-12 To 1HO10296 HO Preg  
Prev Bred 08-23-12 To 1HO10296 HO

Barn Name	8101	Index Number	8101	Identification	65927969
Barn Name	8101	Index	8101		

**COW PAGE**  
DHI-103

Test Date: 07-24-2013  
Processed: 07-26-2013

42-77-0074  
IO STATE DAIRY

String  
1

Barn Name		Index	
<b>8148</b>		<b>8148</b>	
Breed	Country	Birth Date	Body Wt.
HO	USA	10-10-09	1330
Identification		Inbrd.	Coef.
65928016			6.3
984000001159292		DCR Milk	

PARADISE-DND SPARTA-ET	
Breed	Country
HO	USA
Identification	
132395373	
AI Code / Name	
11HO07856	
SPARTA	
Milk	%Fat
+658	+0.04
Fat	%Pro
+34	+0.01
Pro	%Rel
+22	99
%Rank	
34	

Predicted Transmitting Ability		Estimated Relative Producing Ability	
Milk	Fat	Milk	Fat
+48	+12	-1609	-60
%Rel	%Rank	Pro	\$
80	75	-11	-490

PARADISE-DND SPARTA-ET	
Breed	Country
HO	USA
Identification	
62434547	
Barn Name / Index	
7123	
7123	
Milk	%Fat
+675	-0.05
Fat	%Pro
+11	+0.03
Pro	%Rel
+28	81
%Rank	
24	

Test Day Data		Lact No.		2		Calving Date		08-25-12	
DIM	25	60	97	145	188	222	257	293	
Milk	88	93	75	68	63	63	55	44	
Fat %	3.9	3.3	3.4	3.6	3.3	3.3	3.7	3.8	
Pro %	3.2	3.2	3.5	3.4	3.6	3.7	3.6	3.8	
SOC	141	71	76	87	107	132	200	62	

SANDY-VALLEY FORBIDDEN-ET	
Breed	Country
HO	USA
Identification	
17011697	
AI Code / Name	
7HO05687	
FORBIDDEN	
Milk	%Fat
+30	-0.02
Fat	%Pro
-4	+0.03
Pro	%Rel
+10	99
%Rank	
3	

Lact No.	Test Plan	Calving Date	Age at Calving	Days Dry	Days Open	NC BR	305 Day Lactation			Days 3X	Complete Lactation			ME Lactation			Herdmate Deviation					
							Milk	% Fat	% Pro		Pro	Fat	Milk	Fat	Pro	Pro	Fat	Milk	Fat	Pro		
1	2	10-05-11	1-11		51	1				282	282	20,469	3.5	716	3.1	637	24,612	868	755	-1527	-50	-11
2	2	08-25-12	2-10	43	250	1	20,953	3.6	747	3.5	730	21,809	3.6	780	3.5	763	22,824	816	771	-3286	-129	-22
							Totals						Averages									
							106	65		609	42,278	3.5	1496	3.3	1400	23,718	842	763	-2406	-89	-16	

**LIFETIME**

\* Dry thru Test Date: 07-24-13  
Dried on 07-18-13  
Number of Breedings = 5  
Last Bred 05-02-13 To 1HO10814 HO Preg  
Prev Bred 02-09-13 To 1HO10396 HO  
Prev Bred 01-17-13 To 1HO10396 HO

Barn Name	8148	Index Number	8148	Identification	65928016
-----------	------	--------------	------	----------------	----------

Barn Name  
**8148**

Index  
**8148**

Prev Bred 12-06-12 To 1HO10275 HO  
Prev Bred 10-20-12 To 1HO10275 HO

# 2013 Iowa FFA Dairy Cattle Evaluation CDE Key

## Test Key

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

## DHIA Questions

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

## Dairy Management

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

## Sire Evaluation Questions

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

## Pedigree Evaluation

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

## Phase E Pedigree Placing

### Placing 1 - 4 - 2 - 3

### Cuts 4- 6- 3

- 1 - Highest PA (milk +609)  
Highest PA (fat +18)  
Highest PA (protein +21)  
Highest NM\$ (229)
- 4- Highest PTAT(+.9)  
2nd NM\$ PA milk & protein  
Impressive show ring winners
- 2- 2nd PTAT (+.6) PA fat (+15)  
3rd PA protein (+8)
- 3- Lowest in milk, protein, fat, NM\$

## Phase F Sire Selection

### Placing 2 - 3 - 1 - 4

### Cuts 7- 2 - 2

- 2- Highest PTAM (+609) all categories  
Highest CFP (122)  
Highest JPI (248)  
Highest PTAT (+2.2))
- 3- Highest PL (4.2)  
2nd high CM\$< NM\$< FM\$  
2nd JPI (179)  
2nd PTAT (1.7)  
3rd PL (2.5)  
3rd PTAT (1.5)  
3rd CFP (69)  
2nd PTAM (1347)
- 4- udder depth deep  
poorest PL (1.9)  
Lowest PTAT (1.2)  
2nd CFP (94)

## Phase G Culling

### Placing 1 - 4 - 2 - 3

### Cuts 7 - 2 - 4

- 1- 5 times to settle  
SCC - medium  
Lowest milk  
Greatest herdmate differential
- 4- 5 times to settle  
Low to high SCS  
Close middle pair
- 2- 1 breeding  
Bit higher in milk, fat, protein  
Low SCS
- 3- Highest production milk & protein  
Low SCC  
Smallest herdmate deviations (milk, protein, fat)