

**Mark the best answer in the proper blank on the Scantron Sheet  
25 Objective Questions -- 2 pts each**

- Over the last 20 years, national herd size has risen 142 percent. What was the average U.S. herd size in 2011?
    - 74 cows
    - 142 cows
    - 179 cows
    - 245 cows
  - 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.
    - Mucus
    - Keratin
    - Skin
    - Opaque
  - Which of the following hormones is not directly associated with reproduction?
    - Testosterone
    - Adrenaline
    - Estrogen
    - Progesterone
  - Which stomach area absorbs the majority of the volatile fatty acids produced during fermentation?
    - Reticulum
    - Rumen
    - Omasum
    - Abomasum
  - At what age do dairy cattle develop upper incisors?
    - Birth
    - 3 days
    - 3 months
    - Never
  - At birth, which stomach area is the largest in the calf?
    - Abomasum
    - Omasum
    - Rumen
    - Reticulum
  - What percent of U.S. dairy production was exported in 2011?
    - 2.9 %
    - 13.3 %
    - 36.7 %
    - 80.4 %
  - The primary criteria for deciding when a heifer should be bred is:
    - Service sire to be used
    - Age
    - Body weight
    - Breed
  - What is the time period that a cow carried a calf?
    - Gestation
    - Rumination
    - Parturition
    - Lactation
  - Urea can be fed to lactating cows where it is a “remanufactured” source of:
    - Protein
    - Energy
    - Vitamin A
    - Vitamin D
  - “UHT” milk is pasteurized at what approximate minimum temperature in degrees Fahrenheit?
    - 145
    - 161
    - 191
    - 280

12. The first milk secreted after calving is called:  
a. Collagen      b. Coliform      c. Clostridia      d. Colostrum
13. The fourth U.S. case of BSE since 2003 was detected in a dairy cow from which state?  
a. California      b. Kansas      c. New Mexico      d. Vermont
14. The only part of a milking machine that touches the cow is the:  
a. Pulsator      b. Vacuum pump      c. Inflation      d. Milk line
15. Which of the following represents the largest single cost associated with producing milk?  
a. Facilities      b. Veterinarian and drugs      c. Feed      d. Labor
16. Which of the following is the major product of fermentation of silage that results in preserving the silage throughout its normal feeding period?  
a. Butyric acid      b. Nitric acid      c. Lactic acid      d. Acetic acid
17. 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
18. What is the name of milk sugar?  
a. Dextrose      b. Lactose      c. Sucrose      d. Fructose
19. Scientists at the ARS National Animal Disease Center discovered that what vitamin could serve as a natural mastitis remedy?  
a. Vitamin A      b. Vitamin C      c. Vitamin D      d. Vitamin K
20. When artificially inseminating, what part of the reproductive tract is the target for depositing semen?  
a. Ovary      b. Vulva      c. Uterine body      d. Oviduct
21. Cow conception rate (CCR) is highly correlated (0.86) with which genetic index?  
a. Daughter pregnancy rate (DPR)      b. Heifer conception rate (HCR)  
c. Net merit dollars (NM\$)      d. Bovine Leukosis Virus (BLU)
22. 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
23. Which of the following is an ovarian cyst?  
a. Follicular      b. Viral      c. Pituitary      d. Pancreatic

24. 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. Homogenization   c. Fertilization   d. Conception
25. The dairy cow unified scorecard was revised in 2009. Which of these statements is false?
- a. Frame represents 15% of the score.  
b. The top udder trait is udder depth.  
c. Rear feet and legs are evaluated with evidence of mobility a major consideration.  
d. Dairy strength represents 30% and supports production and longevity.

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

**DHIA Questions--5 pts each**

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

51. Which lactation period has the highest projected 305 day ME for milk?
- a. 1st lactation   b. 2nd lactation   c. 3+ lactation   d. All lactations
52. What was the main reason cows left the herd?
- a. Reproduction   b. Injury   c. Died   d. Mastitis
53. What is the number of days to first service for the total cows in the breeding herd?
- a. 50   b. 138   c. 68   d. 77
54. What is the rolling yearly herd average for protein on 8-15-12?
- a. 720   b. 711   c. 847   d. 834
55. What is the number of heifers to calve in February?
- a. 15   b. 18   c. 27   d. 0

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

56. (Shelled corn --56lb/bu Ear corn --70lb/bu.) A concentrate mix consists of 1410 lbs. of corn & cob meal , 350 lbs. of shelled corn and 425 lbs. of 44% soybean oil meal. If shelled corn costs \$8.10/bu., ear corn at \$6.10/bu. and soybean meal costs \$420/ton, what is the cost per pound of this mix?
- a. 14.8 cents      b. 15.5 cents      c. 17.1 cents      d. 18.9 cents
57. You want to make a 16% protein ration using 8.1% protein corn and 41% protein soybean meal. How many pounds of soybean meal are needed to make a two-ton ration?
- a. 960      b. 480      c. 3040      d. 1520
58. Assuming the feed cost is 69% of the total production cost and the feed cost per head is \$1.93/day, calculate the total yearly production costs per head.
- a. 486      b. 710      c. 995      d. 1021
59. What is the percent protein in the following ration?
- |                     |      |      |
|---------------------|------|------|
| Corn silage         | 1000 | 3.5% |
| Ground shelled corn | 800  | 8.5% |
| Whole cottonseed    | 310  | 21%  |
| Haylage             | 1100 | 5.3% |
| Hay                 | 450  | 19%  |
| Protein Mix         | 450  | 44%  |
| Minerals            | 150  | 0%   |
- a. 11.97%      b. 12.41%      c. 12.63%      d. 12.91%
60. What is the component value of a hundredweight of milk if the farm produces 268,000 pounds of milk with the following:
- | Components | \$Basis Milk Value |
|------------|--------------------|
| Butterfat  | 4.75%      1.565   |
| Protein    | 3.98%      4.109   |
| Solids     | 5.84%      .0474   |
| SCC        | 274,000      .31   |
- a. 25.52      b. 24.89      c. 24.37      d. 24.12

### **Sire Evaluation Questions--5 pts. each**

Refer to **Appendix B (April 2012 USDA Sire Summaries, Red & White)** to answer the following questions.

61. Which bull should have the most impact on the productive life of his daughters?  
a. Early Autumn Tailor      b. Delta Fidelity  
c. Delta Lilac      d. West Port Beaumont
62. An average SCS score is 3.00. Which bull should have the greatest impact on improving SCS scores of his daughters?  
a. West Port SS Marine      b. Delta Fidelity  
c. KHW Axion      d. Kian
63. Reliability is dependent upon what two factors?  
a. Daughters & TPI      b. FLC & UDC  
c. TPI & herds      d. Daughters & herds
64. What factor determined the ranking in the April 2012 USDA Sire Summaries for Red & White cattle?  
a. TPI      b. PTA Milk      c. FLC      d. PTA NM
65. Which trait would you look at if you wanted to have cattle that had higher classification scores?  
a. Rel      b. PTA DPR      c. PTA T      d. PTA PL

### **Pedigree Questions-- 5 pts each**

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

#1	Lot 13	Port-Haven Vigors Carmela
#2	Lot 14	Olsons May Gale Gretchen
#3	Lot 15	Arthurst Monte Sari
#4	Lot 16	Rainbow Hills WinDixie

66. Which is the youngest heifer?  
a. 1      b. 2      c. 3      d. 4
67. Which two heifers have similar genetics?  
a. 1 & 2      b. 1 & 3      c. 2 & 3      d. 2 & 4
68. Which heifer's sire is not an embryo transfer?  
a. 1      b. 2      c. 3      d. 4
69. Which heifer's grandmother had impressive show ring awards?  
a. 1      b. 2      c. 3      d. 4
70. Which heifer would be most likely to improve in type?  
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 13	Port-Haven Vigors Carmela
#2	Lot 14	Olsons May Gale Gretchen
#3	Lot 15	Arthurst Monte Sari
#4	Lot 16	Rainbow Hills WinDixie

### Phase F --Sire Evaluation

You are a Jersey dairy producer who wants moderate sized cows that have good, well-attached udders and sound feet and legs as these cows do best in your system. Furthermore, you prefer cows with high production and high components. 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.

Bull #1 Hardwood

Bull #3 Lotto Winner

Bull #2 Kyran

Bull #4 Roy

### 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. 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 Cow Pages DHI-103(**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.

Cow #1 Index 6461

Cow #3 Index 7117

Cow #2 Index 7062

Cow #4 Index 7405

## HERD SUMMARY

Electronic Meters

Test Date  
08-15-2012Samples at Lab  
08-17-2012Processed  
08-17-2012

42-77-0074

IO STATE DAIRY  
JOE DETRICK

DHI-202

## Appendix A

Page 5 of 6

Breed	HO	Type Test	DHI-APCS	Assoc.	400	Supv.	97	String	All Strings
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### Production, Income & Feed Cost Summary

	Daily Average per Cow on Test Day		Rolling Yearly Herd Averages					
Total Cows	<b>447</b>		<b>443.1</b>					
Cows in Milk	Number	%	Number	%				
	369	83	385.5	87				
Milk Lbs (All Cows)	62.9		23,424					
Fat Lbs (All Cows)	2.33		847					
Fat %	3.7		3.6					
Protein Lbs (All Cows)	1.89		711					
Protein %	3.0		3.0					
Milk Lbs (Milking Cows)	76.2							
	Milking Cows	All Cows						
Silage	Lbs Consumed		Lbs Consumed	%ENE				
Other Succulents or Blended Rations								
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 \$	13.71	11.26	4,521					
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		
	17.67	3.5	3.0	19.35	3.6	3.0		

### Miscellaneous Herd Information

	Shipped-Test Day Comparison		
	Test Day	Yearly Avg.	
Sum of Test Day Wts	27965		28083
Reported Avg. Daily Bulk Tank Wts	25764		26895
% Deviation	+8.5		+4.4

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
138	50	68	24	18	19	37	21	38			
			17	13	14	27	15	28			

### Reproductive Summary Of Current Breeding 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	Interval Length	Number Intervals	Service Number	Number Services	Conception Rate	Service Ments
7	150	1	66	2.4	3.6	13.3	123	< 18	107			1st	395	24	+711
1	62		66	2.8	4.0	13.4	128	18 - 24	259			2nd	277	17	+706
3	94		64	3.7	4.6	13.9	142	36 - 48	343			3rd +	837	18	+717
11	306	1	65	2.9	4.0	13.5	130	Other	159			Total	1509	19	+713
3	96											Abortions			
												Actual	2		5
												Apparent	8		43

### Birth Summary

Dam's Lact Num	Offspring Born								
	Males		Females		Calving Difficulty Score				
	Alive	Dead	Alive	Dead	1	2	3	4 & 5	
1	73	14	88	8	125	22	12	6	4
2+	125	11	104	6	178	20	12	2	1
Total	198	25	192	14	303	42	24	8	2

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

	Sep	Oct	Nov	Dec	Jan	Feb
* Milking	376	370	393	393	407	403
Dry	64	75	52	58	53	59
Cows to Calve	19	20	41	24	25	24
Heifers to Calve	3	18	13	19	22	15

\* Assumes 2.9% per month culling rate.

### Yearly Reproductive Summary

Test Date	% Heats Obs.	Conception Rate	Preg Rate	Number Services	Number Confirm Preg	Number Calving	Total Preg Cows
Test Dropped	61	12	10	233	43	65	174
9-29-11	75	15	13	178	19	43	163
11-04-11	79	20	18	167	29	39	160
12-07-11	79	16	15	156	32	41	160
1-11-12	56	18	13	134	25	34	160
2-14-12	64	25	20	134	34	40	163
3-21-12	58	34	28	120	38	63	175
5-01-12	63	22	18	148	51	50	207
5-30-12	73	20	15	121	38	30	221
7-11-12	62	25	15	160	27	51	205
8-15-12	55			107	37	29	204
Averages	66	22	18	143	33	42	182
Totals				1425		420	

### Remarks:

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

# Appendix A

			Herd Code	42-77-0074	Test Date	08-15-2012	Breed	HO	String	All Strings																												
Stage Of Lactation Profile																																						
		Stage of Lactation (Days)						Identification And Genetic Summary																														
		1 - 40	41 - 100	101 - 199	200 - 305	306 +	Total or Average	Sire	Dam	ID Changes	No. Animals with Merit \$																											
Number Milking	1st Lact	7	20	83	35	31	176	186	185	% of Herd Bred to	186																											
	2nd Lact	11	19	18	21	9	78	153	153		+360																											
	3+ Lact	14	22	25	27	25	113				+265																											
	All Lact	32	61	126	83	65	367				+426																											
Average Daily Milk	1st Lact	69	79	73	65	66	71	197	181	Number of Bulls Used	+317																											
	2nd Lact	90	102	91	73	63	85	99	99		+512																											
	3+ Lact	76	100	83	74	62	79	151	151		+180																											
	All Lact	79	94	78	70	64	76	447	431		+304																											
% Fat & Pro	1st Lact	5.0	3.5	3.8	3.8	3.6	3.8	% Identified (Producing Females)																														
	% Pro	2.9	2.8	3.0	3.1	3.2	3.0	96	93	No. Heifers Age Over 30 Months			DCR Milk																									
	2nd Lact	4.3	3.3	3.7	3.7	3.3	3.6						103																									
	% Pro	3.0	2.8	2.9	3.1	3.2	3.0																															
All Lact	3+ Lact	4.7	3.6	4.0	3.7	3.4	3.8																															
	% Pro	3.0	2.7	3.1	3.2	3.3	3.1																															
	All Lact	4.6	3.5	3.8	3.7	3.5	3.8																															
	% Pro	3.0	2.8	3.0	3.1	3.2	3.0																															
SCC ACT	1st Lact	119	83	493	249	132	322	Production By Lactation Summary																														
	2nd Lact	282	138	116	188	172	168	Number of Cows	Avg. Age (Mo)	Peak Milk	Summit Milk	Difference From Herdmates																										
	3+ Lact	697	443	500	632	379	518	Milk	Fat	Pro	Milk	Fat	Pro	Avg. Body Wt.																								
	All Lact	422	240	431	364	229	347	197	23	79	76	23639	855	698	+1289	+67	+38	1190	65	17	7	5	6	% Cows SCC Score														
SCC ACT > 200	Number	15	10	36	23	19	103	2nd Lact	99	36	103	99	25316	893	742	+2580	+87	+63	1300	73	12	4	10	1	0,1,2,3													
	Percent	47	16	29	28	29	28	3+ Lact	151	60	105	100	22558	827	686	-109	+10	+10	1420	52	12	15	6	14	Below 142,000													
Weighted SCC ACT (Nearest 1,000)												Herd Production Lost From SCC This Test Period			Milk	19,373	Dollars (\$)	3,423																				
Dry Cow Profile												Yearly Summary Of Cows Entered And Left The Herd						Number of Cows Left the Herd																				
Yearly Production And Mastitis Summary												Somatic Cell Count Summary										Number Left Herd																
Test Date	Days In Test Period	Number Cows In Herd On Test Day	Test Day Averages (Milking Cows)		150 Day Milk Persist. Index	Test Day Averages (All Cows)			Rolling Yearly Herd Average			% Cows SCC Score										MUN	Died Sold															
			DIM	Milk		% In Milk	Milk	%Fat	%Pro	Milk	Fat	Pro	0,1,2,3	4	5	6	7,8,9	Avg. SCC Linear Score	Wt. Avg. Actual SCC		Died	Sold																
Test Dropped	62	418	196	78.9	86.6	102	85	67.4	3.4	3.0	23275	834	729	67	13	9	4	7	2.8	268	14.2	14	48															
9-29-11	36	426	194	77.1	85.2	99	84	64.3	3.2	3.1	23417	835	732	69	14	6	6	5	2.7	288	16.6	9	1															
11-04-11	36	424	189	78.2	85.7	101	84	65.6	3.9	3.1	23631	842	736	75	11	6	4	4	2.7	191	2	13																
12-07-11	33	436	190	77.3	84.2	99	84	64.7	3.8	3.1	23796	853	737	76	10	7	3	5	2.4	171	11.7	2																
1-11-12	35	421	200	75.6	83.1	100	89	67.5	4.0	3.0	24031	867	739	70	13	8	4	4	2.6	185	12.4	4	25															
2-14-12	34	425	203	72.5	79.4	96	90	65.0	3.7	3.0	24289	881	742	74	12	7	3	5	2.5	253	12.1	4	7															
3-21-12	36	459	192	72.1	77.6	100	88	63.7	3.9	2.9	24362	884	741	65	18	7	4	6	3.0	301	10.4	2	5															
5-01-12	41	481	199	71.4	76.8	102	87	62.1	3.1	3.1	24216	874	735	69	13	7	5	6	2.8	252	9.6	7	4															
5-30-12	29	464	207	71.0	77.1	101	90	63.9	3.7	3.0	24034	864	730	63	19	11	4	4	2.9	231	12.5	7	22															
7-11-12	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															
Averages	36	445	198	73.8	80.6	101	87	64.0	3.6	3.0				69	14	8	4	5	2.8	256	10.9	47	105															
Test Period Avg. Milk Lbs					Added	61.4	Dropped	69.3																														

# April 2012 USDA Sire Summaries

RED & WHITE

Appendix B

NAME	D	%US H	% D	REL	PTA MILK	% FAT	PTA FAT	% PRO	PTA PRO	PTA PL	PTA SCS	PTA DPR	PTA NM	PTAT	REL	UDC	FLC	TPI
JERUDO-RED	407	214	0	83	196	+.19	+58	+.09	+30	+2.9	2.71	+1.1	+424	+0.46	75	-0.53	+1.04	1767 GGI/AG LINK
TOPSPEED KODAK-RED	142	121	0	80	-178	+.18	+40	+.10	+20	+4.4	2.79	+0.4	+418	-0.50	72	-0.38	+0.15	1647 CRV
HEIHOEVE ARNOLD-RED	830	587	0	82	-751	+.21	+26	+.13	+9	+4.4	2.89	+3.0	+417	+0.08	78	+0.02	+1.48	1724 CRV
EARLY-AUTUMN TAILOR-RED-ET	17	13	100	83	+1194	-.09	+20	-.04	+25	+4.8	2.79	+0.1	+416	+0.82	80	+0.88	-0.20	1752 ALTA GENETICS
KAMPS-HOLLOW ARUDOLF-RED-ET	478	276	82	97	-706	+.24	+36	+.05	-10	+3.3	3.02	+2.7	+400	+1.69	94	+1.86	+2.73	1824 ABS
FRITZ-PRIDE TYCOON-RED-ET	464	201	100	97	-41	+.02	+5	-.04	-12	+5.6	2.53	+1.5	+394	+0.53	91	+1.42	+0.74	1693 INTLPROTSIRES
BIG APPLE-RED-ET	111	62	100	90	-1258	+.16	+3	+.16	+3	+5.0	2.78	+0.1	+386	+2.31	82	+2.30	+2.06	1845 SELECT SIRES
TABLEAU-RED	137	116	0	80	+322	+.00	+13	+.11	+39	+4.4	2.94	-1.2	+378	+0.88	74	+1.19	+1.17	1756 GGI/AG LINK
GEN-I-BEQ SELAYO-RED	99	75	0	79	-74	+.12	+28	+.06	+14	+3.1	2.79	+0.0	+351	+1.29	63	+0.78	+2.01	1736 GGI/AG LINK
MI-RO-ZE MRMX MATRIX-RED-ET	231	138	100	96	+900	-.13	-1	-.01	+25	+3.5	2.66	+1.4	+344	+0.66	92	+1.12	+2.15	1799 GENEX/CRI
JOTAN-RED-ET	554	341	25	95	-396	+.18	+32	+.12	+18	+3.5	3.01	+0.4	+343	+1.83	89	+2.02	+2.80	1866 ACCELERATED
NORTHWIND PRDX LOGAN-RED-ET	185	98	68	93	+371	+.07	+31	+.00	+11	+3.3	3.02	+0.3	+332	+1.13	86	+1.45	+0.98	1699 ABC GENETICS
DELTA FIDELITY-RED	173	138	0	81	-6	+.22	+58	+.17	+43	+1.5	3.05	-0.8	+331	-0.38	74	-0.27	+1.66	1646 CRV
KAMPS-HOLLOW AMMO-RED-ET	365	302	12	91	-341	+.17	+30	+.06	+6	+3.7	2.92	+0.1	+328	+0.50	89	+0.63	-0.31	1572 TWG/ST
HURTCEN-VUE REALITY-RED	499	274	100	97	-413	+.28	+56	+.07	+5	+1.8	3.12	+0.3	+322	+2.03	93	+1.62	+3.13	1814 ACCELERATED
HEIHOEVE DELTA SPENCER-RED	10438	3684	0	88	-792	+.17	+14	+.19	+25	+2.8	2.82	+1.1	+317	-0.26	85	-0.15	+1.12	1628 CRV
RIDGEADE-T ROCKIN-RED-ET	288	168	48	96	+559	+.27	+91	+.02	+23	+0.9	2.89	-1.1	+309	-0.69	91	-1.54	-0.80	1485 TAURUS
KHW AXION-RED-ET	195	102	100	96	+484	+.07	+36	+.08	+37	+0.7	3.07	+0.8	+278	+1.01	93	+0.19	+1.71	1735 SEMEX
VAN DE PAUL KYLIAN-RED	198	174	0	81	+379	+.04	+24	+.08	+32	+2.1	2.90	-0.6	+236	-0.61	72	-0.64	+1.47	1533 CRV
DELTA LILAC-RED	172	141	0	80	+1549	-.06	+39	+.00	+46	+1.0	3.16	-1.8	+233	+0.18	73	+0.18	+1.00	1607 CRV
DERRWYN MAZDA-RED-ET	143	81	100	93	-90	+.04	+8	+.03	+5	+4.1	2.94	-1.0	+230	+1.99	90	+2.21	+1.24	1687 TAURUS
KIAN-RED	99999	14816	1	93	-879	+.34	+52	+.17	+17	+2.5	3.07	+0.3	+229	-1.37	88	-1.28	+0.39	1410 CRV
NET-A-WAY SS PAXTON-RED-ET	131	80	100	93	+443	+.03	+25	-.02	+9	+1.8	2.99	+1.1	+227	+0.88	90	+0.63	+1.40	1640 SELECT SIRES
AALHORST PLEASURE-RED	121	73	0	80	-391	+.12	+17	+.10	+13	+2.9	2.92	-0.7	+222	+1.32	71	+1.02	+1.23	1618 CRV
AGGRAVATION HANGOVER P-RED	97	68	62	90	-525	+.00	-18	+.04	-5	+4.2	2.88	+2.5	+216	-0.19	77	+0.41	+0.41	1484 ABC GENETICS
TORYS TURVEY-RED-ET	205	99	100	96	+367	-.06	-3	-.04	+0	+3.1	2.68	-0.2	+205	+0.54	93	+0.80	-0.35	1470 TWG/ST
GOLDEN-OAKS VINCENTE-RED-ET	194	121	46	92	+122	+.22	+61	+.03	+11	+0.3	2.99	-1.7	+203	+0.30	86	+0.17	+1.90	1525 TWG/ST
BEUKENHOF 346 IDEAL-RED	201	148	0	81	-434	+.19	+33	+.15	+27	+0.7	2.96	-1.8	+192	+1.46	75	+1.48	+0.25	1626 CRV
KOERIER 190 INTEGRO-RED	129	111	0	80	+206	+.09	+30	+.07	+24	+0.7	3.07	-0.5	+189	+0.66	72	+0.70	+0.18	1557 CRV
ERNEST-ANTHONY JONAH-RED-ET	11	11	100	79	-452	+.08	+3	+.04	-3	+2.7	2.93	+0.6	+187	+2.22	74	+2.12	+1.28	1669 ABS
LADINODE ALANDO-RED-ET	701	229	100	97	-196	+.05	+5	+.05	+6	+2.5	2.87	-0.8	+185	+1.01	96	+1.38	+0.62	1547 ACCELERATED
WEST PORT SS MARINE-RED-ET	863	629	11	94	+99	+.08	+25	-.02	-2	+1.3	2.85	-0.1	+183	+1.69	89	+1.80	+1.74	1667 TWG/ST
FIELDHOUSE REDLOU-RED-ET	661	433	41	96	-302	+.03	-3	+.01	-7	+3.7	3.06	+1.7	+177	+1.95	94	+2.02	+1.18	1653 TAURUS/FOUND
NORTHWIND MARMAX LEONID-RED	113	85	47	91	+633	+.07	+41	-.01	+16	+0.9	3.21	-1.4	+158	+0.47	87	+0.58	+0.74	1506 ABC GENETICS
BUCKHORN-ACRES DREAM-RED-ET	561	330	25	95	-1667	+.27	+5	+1.13	-18	+2.3	2.71	+2.0	+154	+1.65	89	+1.14	+1.54	1596 ABC GENETICS
WEST PORT BEAUMONT-RED-ET	96	77	0	79	+403	+.14	+52	+.02	+16	+0.8	3.04	-0.9	+151	+0.62	67	+0.29	-0.25	1503 TWG/ST
MR LA CROSSE-RED-ET	75	51	0	76	+793	+.00	+28	+.09	+47	-0.4	2.97	-1.9	+148	+0.13	66	-0.44	+0.19	1511 GGI/AG LINK
AGGRAVATION DUCKY-RED-ET	348	181	44	96	+322	-.09	-11	-.02	+5	+4.1	2.98	-0.8	+144	+0.83	93	+0.36	+0.26	1441 TAURUS
VALLEYRIVER RUBN REDMAN-RED-ET	7476	3436	40	99	-893	+.07	-16	+.08	-8	+3.5	3.04	+0.8	+135	+1.53	99	+2.24	-0.10	1544 ACCEL/GENERV
JA-BOB HAMLET-RED	52	24	100	80	+611	+.03	+29	-.01	+17	+0.0	3.14	-0.1	+132					ABC GENETICS
BLITZ-RED-ET	8431	4203	0	89	-295	+.10	+16	+.10	+16	+1.1	2.89	-0.7	+118	+0.49	89	-0.15	+1.34	1474 SEMEX/SWISS
JZM LAKE ELMO-RED	30	21	100	84	+941	-.07	+16	-.05	+16	+0.4	3.11	-1.7	+113	+2.00	82	+1.91	+1.39	1601 GGR
GOLDFAWN-HOL MELVIN-RED-ET	92	57	82	90	-931	+.12	-4	-.08	-7	+2.5	3.21	+0.9	+107	+0.95	83	+0.69	+0.91	1467 ABS
SIR RIDGEDAL RUSTLER-RED-ET	21196	7322	1	97	-1203	+.33	+39	+.07	-20	+1.8	2.82	-0.2	+107	+1.39	96	+0.98	+0.83	1457 TWG/ST
INDIES-VIEW LUDOVIC-RED	136	77	57	92	-407	+.12	+17	+.02	-8	+0.5	2.84	-0.8	+82	+0.85	81	+0.42	+1.30	1415 ABC GENETICS
HUMDINGER ROMANO-RED-ET	111	78	32	90	+279	+.09	+35	-.02	+2	-0.6	2.96	-0.4	+79	+1.28	81	+0.82	+1.43	1521 TWG/ST
GOLDEN-OAKS MR PERKY-RED-ET	12	8	100	78	+157	+.05	+19	+.11	+34	-0.3	3.15	-0.4	+74	+2.60	74	+1.43	+2.64	1742 ABS
POOS STADEL CLASSIC-RED	27968	8059	1	97	-513	+.02	-14	+.06	+1	+3.1	3.00	-1.6	+57	+1.28	94	+1.30	+1.67	1468 CRV
PEACHY TUNDEL-RED	116	64	100	92	-983	+.12	-6	+.08	-10	+1.1	3.16	+2.2	+46	+2.81	87	+1.78	+3.18	1637 TAURUS
EVER-GREEN-VIEW ZORO-RED-ET	11	8	100	79	-469	-.01	-19	+.04	-5	+2.2	2.91	-0.2	+39	+0.91	75	+1.21	+0.76	1411 ABC GENETICS
SWEET-PEAS FUSION-RED-ET	288	125	100	96	-814	+.24	+30	+.02	-20	-0.3	2.78	-2.3	+28	+1.67	93	+1.40	+1.92	1406 TAURUS
GOLDEN-OAKS ROCCO P-RED-ET	232	126	67	92	-403	+.03	-7	+.07	+7	+0.8	3.14	-0.7	+17	+1.33	86	+1.58	-0.20	1453 ABC GENETICS
SAVARD-RED-ET	7509	3792	0	89	-1325	+.15	-10	+.05	-28	+1.9	2.86	+0.9	-5	+0.95	89	+1.18	-0.05	SEMEX/SWISS
HICKORYMEA TORINO-P-RED-ET	44	27	100	86	-220	+.13	+25	+.03	+0	-1.1	3.01	-2.0	-28	+0.47	82	+0.13	+1.17	1296 TAURUS
LA PRESENTATION PICOLO-RED	110	74	0	89	+146	+.01	+9	+.00	+4	-1.8	2.79	-2.2	-56	+1.83	83	+0.94	+2.27	1417 SEMEX
FRADON REDLINER-RED	1593	853	76	99	+316	-.11	-17	+.00	+9	+0.5	3.03	-1.5	-58	+1.89	98	+1.51	+0.27	1444 TAURUS/BRNDL
JERIAN SIDNEY-RED	121	67	100	92	-1050	-.04	-49	+.04	-22	+2.9	3.15	+1.2	-62	+1.29	84	+1.88	+0.75	1338 TAURUS
PATIENCESHOWLINE CONTENDER-RED	409	177	18	92	-2501	+.18	-50	+.04	-66	+2.9	2.65	+0.1	-136	+2.49	83	+2.71	+1.31	1265 PAT/SHOWLINE
MD-VALLEYVUE CAMDEN-RED-ET	292	230	0	91	-399	-.03	-26	+.00	-13	-2.3	3.12	+1.2	-229	+2.00	84	+1.05	+1.76	1324 SELECT SIRES



## Appendix C

Port-Haven Baxters Curly 'V85 - V85ms'  
1/11 305D 2X 19470 4.6 903 3.4 655 DHIA  
Dam of Lot 13

### \$ LOT 13 ⚡ Port-Haven Vigors Carmela 840003008770234

Born: 11/28/2011 Tattoo: 1314 / 008770234  
Consignor: PORTNER, THOMAS & MARK  
SLEEPY EYE MN

Parent Average PPR: +75 PTAT: +0.6  
PA: +95m +3f +6p +251NM\$

3rd Dam:  
**PORT-HAVEN DENMARKS C J 910824**  
03/00 365d 2X 33690 4.1 1384 3.5 1191 DHIR

4th Dam:  
**PORT HAVEN ENVYS CARLY 871256**  
06/05 365d 2X 29030 4.6 1328 3.6 1033 DHIR

**SUN-MADE VIGOR ET \*TM 195618**  
Not Classified \* SUPERIOR SIRE \*  
PPR: +143 95%R PTAT: +0.7 97%R (04/12)  
PTA: +401m +0f +20p +413NM\$ 97%R (MACE)  
PTA PL: +6.6 SCS: +2.76 DPR: +1.9 SCE: +6  
4456 dau. av. 23658 3.9 930 3.3 791  
3088 class. dau. av. FS:83.3 UDC:1.22 FLC:1.27

**PORT-HAVEN BAXTERS CURLY 840003000782673**  
02/04 V85 +82 +84 V85 V88 V85 (05/11)  
PPR: +6 49%R PTAT: +0.4 49%R  
PTA: +212m +5f -8p +89NM\$ 52%\$ (04/12)  
01/11 305d 2X 19470 4.6 903 3.4 655 DHIA  
\*02/10 183d 2X 14250 4.9 692 3.6 507 (RIP)

**LOST ELM PRESIDENT ET 191215**  
Not Classified \* SUPERIOR SIRE \*  
PPR: +101 96%R PTAT: +0.1 97%R (04/12)  
PTA: -20m -8f +9p +381NM\$ 97%R (MACE)  
PTA PL: +6.3 SCS: +2.76 DPR: +1.9 SCE: +5

**GENESIS EVEN VICTORIA ET 857348**  
10/08 3E-E93 E94 E94 E93 E92 E93 (09/06) \*CERT\*  
PPR: +34 91%R PTAT: +0.4 91%R  
PTA: -774m -11f -11p +126NM\$ 61%\$ (GEN) (04/12)  
02/04 365d 3X 26080 4.1 1057 3.7 959 DHIR  
03/06 365d 3X 28610 3.6 1024 3.9 1104 DHIR  
06/05 365d 2X 36530 4.3 1558 3.7 1348 DHIR  
Lifetime: 1310d 107290m 4325f 4081p

**SUN-MADE KB BAXTER ET \*TM 197774 NC**  
PPR: +12 86%R PTAT: +1.0 65%R (04/12)  
PTA: -200m +6f -3p -23NM\$ 92%R (MACE)  
PTA PL: -1.2 SCS: +3.00 DPR: -1.2 SCE: +6

**PORT-HAVEN PRONTOS CATRINA 934114**  
05/08 V85 V85 V88 V86 +83 V85 (08/10)  
PPR: +36 57%R PTAT: -0.1 64%R  
PTA: +130m +3f +2p +158NM\$ 68%\$ (04/12)  
02/02 365d 2X 25820 4.0 1030 3.2 824 DHIR  
04/01 365d 2X 34390 4.1 1398 3.2 1108 DHIR  
05/04 365d 2X 35310 4.1 1445 3.3 1177 DHIR  
Lifetime: 1565d 131990m 5202f 4361p

### \$ LOT 14 ⚡ Olsons May Gale Gretchen 68138190

Born: 12/01/2011 Tattoo: 4781  
Consignor: OLSON, JO  
SPRING VALLEY MN

Parent Average PPR: +113 PTAT: +0.3  
PA: +587m +28f +21p +272NM\$

3rd Dam:  
**THANE PS GLOW 928158**  
02/00 305d 3X 19720 4.4 862 3.3 650 DHIR

4th Dam:  
**THANE PLAYBOY GINA 903883 'V85'**  
04/03 365d 3X 29080 4.3 1256 3.2 942 DHIR

5th Dam:  
**THANE GINGER GINSENG 868500 "+83"**  
03/08 327d 3X 26750 3.9 1038 3.5 925 DHIR

6th Dam:  
**THANE CHELSEY GINGER 806910 "E90"**  
05/08 301d 3X 27980 4.1 1152 3.4 940 DHIA

**OLSONS MAYHAMS VIGOR MAYSON ET 68111991**  
Not Classified  
PPR: +125 53%R PTAT: +0.3 54%R (04/12)  
PTA: +481m +27f +20p +282NM\$ 55%R (GEN)  
PTA PL: +1.9 SCS: +2.68 DPR: -0.7 SCE: 0 dau. av.

**OLSONS AGIO GLIM GALE 68138189**  
Not Classified  
PPR: +96 46%R  
PTA: +693m +28f +21p +262NM\$ 87%\$ (04/12)  
\*02/04 208d 3X 17860 4.7 845 3.3 592 (RIP)

**SUN-MADE VIGOR ET \*TM 195618**  
Not Classified \* SUPERIOR SIRE \*  
PPR: +143 95%R PTAT: +0.7 97%R (04/12)  
PTA: +401m +0f +20p +413NM\$ 97%R (MACE)  
PTA PL: +6.6 SCS: +2.69 DPR: +0.2 SCE: +6

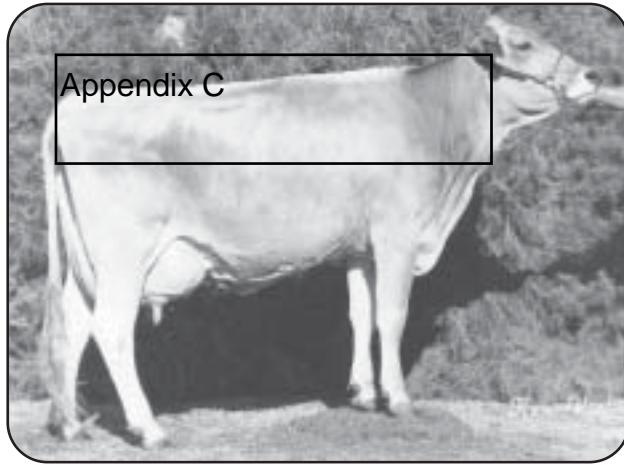
**OLSONS MITZYS MAYHAM ET 917651**  
05/00 V86 V87 E90 V87 +83 V85 (08/07) \*CERT\*  
PPR: +153 60%R PTAT: -0.2 65%R  
PTA: +866m +42f +33p +307NM\$ 92%\$ (04/12)  
02/00 365d 3X 30550 4.5 1371 3.5 1073 DHIR  
03/02 365d 3X 36880 4.1 1525 3.5 1286 DHIR  
04/10 365d 3X 33600 4.5 1499 3.4 1143 DHIR  
Lifetime: 1658d 129400m 5615f 4625p

**BARMETTLER BS ACE AGIO ET \*TM 199097 NC**  
PPR: +47 89%R PTAT: +0.0 87%R (04/12)  
PTA: +98m +17f +9p +104NM\$ 92%R (MACE)  
PTA PL: -0.3 SCS: +2.91 DPR: +1.1 SCE: +4

**THANE MADISONS GLIMMER 945977**  
05/01 V86 E92 E91 E90 +82 +82 (05/11)  
PPR: +113 49%R PTAT: +0.3 56%R  
PTA: +908m +36f +28p +236NM\$ 83%\$ (04/12)  
02/03 320d 3X 25380 3.7 935 3.3 839 DHIR  
03/03 353d 3X 25610 4.0 1024 3.4 863 DHIR  
04/05 365d 3X 31320 4.2 1323 3.5 1099 DHIR



Pete's Photo  
**Arthurst Emory Sonya '5E91 - Elite'**  
 6/05 365d 2X 31880 3.4 1096 3.1 995 DHIR  
 NOMINATED ALL AMERICAN SR 2 YR OLD 1994  
 RESERVE GRAND CHAMPION MN STATE FAIR 1995  
 MGD of Lot 15, 4th Dam of Lots 29 & 30



**Bridge View Delightful Liset '5E90'**  
 7/00 365d 2X 30390 3.9 1193 DHIR  
 LIFETIME: 3663d 224390m 9109f 4232p  
 6th Dam of Lot 16

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\$ **LOT 15** ⚡ **Arthurst Monte Sari 68142648**

Born: 03/31/2012 Tattoo: 719  
 Consignor: ARTHURST FARM  
 PLATO MN

Parent Average PPR: -17 PTAT: -0.1  
 PA: -131m +6f -1p -46NM\$

3rd Dam:

**ROUND BARN SHIEK SHARON 724091 '3E90 - Cert'**  
 08/01 365d 2X 25410 3.5 898 3.4 872 DHIR  
 Lifetime: 3008d 171790m 6054f 5796p

4th Dam:

**ROUND BARN ELITE EVA 685694 'V88'**  
 07/00 326d 2X 19540 3.6 700 3.4 662 DHIR

5th Dam:

**ROUND BARN DAPPER ELITE 599645 "V87"**  
 11/11 365d 2X 18930 3.7 705 3.4 642 DHIR

**GOR PLIN MONTE \*TW (M\*) 193244**

Not Classified  
 PPR: +75 76%R PTAT: -0.2 78%R (04/12)  
 PTA: +81m +41f +19p +168NM\$ 82%R (MACE)  
 PTA PL: +0.7 SCS: +3.26 DPR: +0.5 SCE:  
 44 dau. av. 20834 4.1 863 3.3 694  
 24 class. dau. av. FS:84.0 UDC:-0.41 FLC:0.77

**ARTHURST LEGACY SARITA ET 947427**

04/03 +83 V86 V85 V85 +84 +81 (03/10)  
 PPR: -109 54%R PTAT: +0.0 58%R  
 PTA: -343m -30f -21p -260NM\$ 2%\$ (04/12)  
 02/06 253d 2X 9030 3.7 333 3.1 282 DHIR  
 03/09 365d 2X 19630 3.7 735 3.1 602 DHIR

**WESTLEY MATT GORDON \*TW 192483 NC**

PPR: +42 97%R PTAT: -0.1 97%R (04/12)  
 PTA: -181m +22f +16p -34NM\$ 98%R (MACE)  
 PTA PL: -2.3 SCS: +3.29 DPR: +0.4 SCE: +5

**PLIANO DOBIBA \*TW 030149125 NC**

02/04 260d 2X 15720 4.2 661 3.9 611 DHIA  
 03/03 305d 2X 21990 3.7 816 3.8 831 DHIA  
 04/05 305d 2X 23580 4.0 948 3.7 880 DHIA

**BLESSING MORT LAURA LEGACY 193906 E91**

PPR: -81 96%R PTAT: +0.6 98%R (04/12)  
 PTA: -110m -9f -12p -351NM\$ 98%R (MACE)  
 PTA PL: -4.9 SCS: +3.18 DPR: -0.7 SCE: +6

**ARTHURST EMORY SONYA 818664**

15/01 5E-E91 E91 E90 E91 E91 E92 (11/06) \* ELITE \*  
 PPR: -104 77%R PTAT: -0.1 81%R PTA: 8%\$ (04/12)  
 03/07 365d 2X 28160 3.8 1057 3.1 887 DHIR  
 04/10 365d 2X 29940 3.9 1153 3.4 1009 DHIR  
 06/05 365d 2X 31880 3.4 1096 3.1 995 DHIR  
 09/08 365d 2X 25170 3.3 839 2.9 720 DHIR  
 Lifetime: 2617d 181350m 6740f 5970p  
 \* NOM ALL AMERICAN SR 2 YR OLD 1994  
 \* 4th SR 2 YR OLD CENTRAL NATIONAL 1994  
 \* RES GRAND CHAMP MN STATE FAIR 1995  
 \* 2nd AGED COW MN STATE SHOW 1999  
 \* 1st 5 YR OLD MN STATE FAIR 1997

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\$ **LOT 16** ⚡ **Rainbow Hills WinDixie 68142793**

Born: 07/14/2012 Tattoo: P160  
 Consignor: PRONEK, WENCIL P.  
 ALEXANDRIA MN

Parent Average: PPR: -34 PTAT: -0.1  
 PA: -563m -12f -18p +15NM\$

⌘50% of Proceeds to go to MN Youth Fund⌘  
 ⌘50% of Proceeds to go to MN Canton 4 Youth⌘

3rd Dam:

**FICK MISS LENA MUSIC B 871578 'V86'**  
 04/03 309d 2X 17490 4.5 792 3.4 600 DHIR  
 05/03 336d 2X 20350 4.6 939 3.5 722 DHIR  
 \* 4th SUMMER YRLG HFR MN STATE FAIR 1998  
 \* 4th SUMMER YRLG HFR MN STATE SHOW 1998

4th Dam:

**BRIDGE VIEW MISS LENA 830567 '2E90'**  
 07/01 365d 2X 22180 4.4 974 3.8 835 DHIR  
 \* 2nd & 2nd BU 5 YR OLD IA STATE FAIR 1996  
 \* 3rd 4 YR OLD IA STATE FAIR 1995

**RAINBOW HILLS ZEUS ZORRO ET\*TM 199240**

Not Classified  
 PPR: -53 70%R PTAT: +0.3 55%R (04/12)  
 PTA: -823m -17f -30p +33NM\$ 78%R (GEN)  
 PTA PL: +1.5 SCS: +2.82 DPR: +3.1 SCE: +6  
 35 dau. av. 23606 4.0 948 3.2 751

**RAINBOW HILLS WHISTLE NP 68104481**

Not Classified  
 Parent Average PPR: -13 PTAT: -0.4  
 PA: -303m -6f -6p -4NM\$

5th Dam:

**BRIDGE VIEW JADES LEANNE 730378 'V86'**

06/03 365d 2X 26410 4.0 1059 3.8 995 DHIR

6th Dam:

**BRIDGE VIEW DELIGHTFUL LISET 640688 '5E90'**

07/00 365d 2X 30390 3.9 1193 DHIR

Lifetime: 3663d 224,390m 9109f 4232p

**RED BRAE PRELUDE ZEUS (M) 193849 NC**

PPR: +30 98%R PTAT: +0.7 98%R (04/12)  
 PTA: -766m -3f -5p +81NM\$ 99%R (MACE)  
 PTA PL: +0.8 SCS: +2.81 DPR: +0.5 SCE: +6

**A G SNOWSTORM SABEL 893836**

08/04 V88 V89 V87 V87 V88 V87 (05/08) \*CERT\*  
 PPR: +47 64%R  
 PTA: +326m +9f +2p +152NM\$ 67%\$ (04/12)  
 02/04 365d 3X 29070 3.0 879 3.2 917 DHIR  
 03/07 365d 3X 51150 3.3 1665 3.2 1633 DHIR  
 07/07 365d 2X 19470 3.6 709 3.1 595 DHIR  
 Lifetime: 1547d 127220m 4341f 4090p

\* NATIONAL PROTEIN & J.P. EVES AWARDS 2004

1st SR 3 YR OLD 365 3X MILK HONOR ROLL 2005

1st SR 3 YR OLD 365 3X PROTEIN HONOR ROLL 2005

1st SR 3 YR OLD 305 3X MILK HONOR ROLL 2004

1st SR 3 YR OLD 305 3X PROTEIN HONOR ROLL 2004

**HOFFMAN AGITATE 68102950 NC**

Parent Average PPR: -20 PTAT: -0.7  
 PA: -401m -7f -6p -8NM\$  
 PA: PL +0.2 SCS: +2.94 DPR: +0.8 SCE:

**RAINBOW HILLS MU NOTE NP ET 941634 NC**

PPR: -4 37%R  
 PTA: -205m -4f -6p +1NM\$ 31%\$ (04/12)

# HARDWOOD - 014JE00582

Renegade X Impuls  
JEUSA000117461259

Sun Valley Renegade Hardwood-E  
aAa: 243 DMS: 561;126



## USDA SIRE GENOMIC EVALUATION Sire Summary - (08/12)

	0 Daus	0 Herds
Milk	<b>874</b>	<b>61%R</b>
Protein	<b>42</b>	<b>0.06</b>
Fat	<b>53</b>	<b>0.07</b>
Net Merit	<b>\$640</b>	
Fluid Merit	<b>\$577</b>	
Cheese Merit	<b>\$715</b>	

## Appendix D Bull #1

## USDA SIRE GENOMIC EVALUATION Type Summary - (08/12)

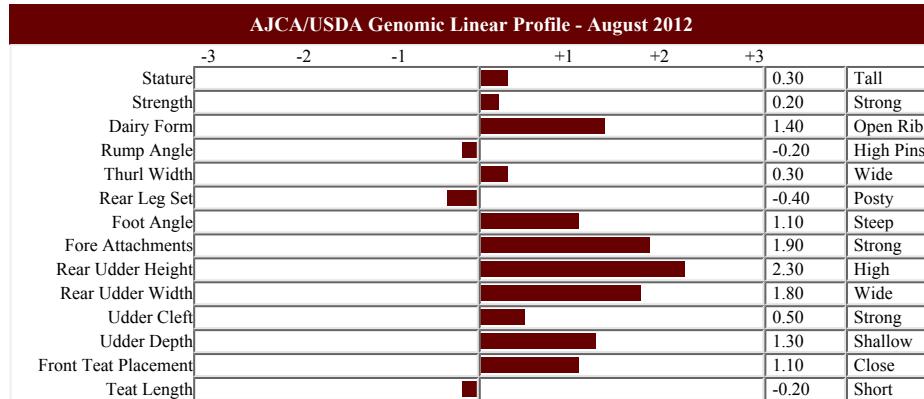
	1 Daus	0 Herds	JPI	231
PTAT	<b>1.5</b>	<b>54%R</b>		

PL	<b>6.6</b>	<b>50%</b>
SCS	<b>2.87</b>	<b>57%</b>
DPR	<b>1.2</b>	<b>47%</b>
IB	<b>6.2</b>	

## Information Provided By:



E10890 Penny Lane  
Baraboo, WI 52913  
1.800.451.9275 (toll free)  
608.356.8357 (local & international)  
[info@accelgen.com](mailto:info@accelgen.com)  
[www.accelgen.com](http://www.accelgen.com)



# KYRAN - 014JE00565

Louie X Campbell  
 JEUSA000067198191  
 O.f. Louie Kyran  
 aAa: 342 DMS: 234;246



Accelerated Genetics®

## USDA SIRE GENOMIC EVALUATION Sire Summary - (08/12)

	0 Daus	0 Herds
Milk	1467	63%R
Protein	33	-0.1
Fat	38	-0.16
Net Merit	\$450	
Fluid Merit	\$468	
Cheese Merit	\$422	

## USDA SIRE GENOMIC EVALUATION Type Summary - (08/12)

	1 Daus	0 Herds	JPI	170
PTAT	1	60%R		
UDC	2.9			

PL            4.2        56%

SCS            2.72        62%

DPR            0.7        52%

IB            6.2

## Appendix D Bull #2

### Information Provided By:



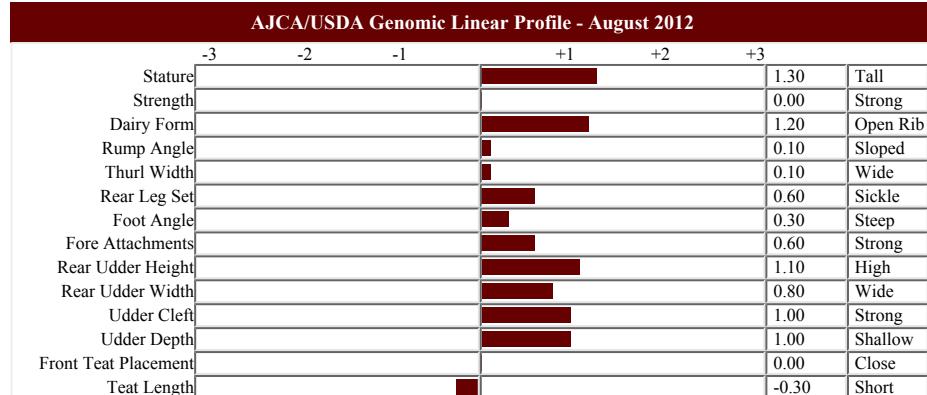
E10890 Penny Lane  
 Baraboo, WI 52913

1.800.451.9275 (toll free)

608.356.8357 (local & international)

info@accelgen.com

www.accelgen.com



# **LOTTO WINNER - 014JE00564**

**Lotto X Catamount  
JEUSA000117172081  
Housley Lotto Winner  
aAa: 342 DMS: 234;123**



USDA SIRE GENOMIC EVALUATION Sire Summary - (08/12)

	0 Daus	0 Herds
Milk	<b>1607</b>	<b>56%R</b>
Protein	<b>44</b>	<b>-0.07</b>
Fat	<b>61</b>	<b>-0.06</b>
Net Merit	<b>\$535</b>	
Fluid Merit	<b>\$536</b>	
Cheese Merit	<b>\$535</b>	

USDA SIRE GENOMIC EVALUATION Type Summary - (08/12)

	1 Daus	0 Herds		
PTAT	<b>0.9</b>	<b>50%R</b>	JPI	<b>198</b>
UDC	<b>2.59</b>			

PL	<b>4.6</b>	<b>45%</b>
SCS	<b>2.78</b>	<b>51%</b>
DPR	<b>0</b>	<b>39%</b>
IB	<b>7.5</b>	

## **Information Provided By:**

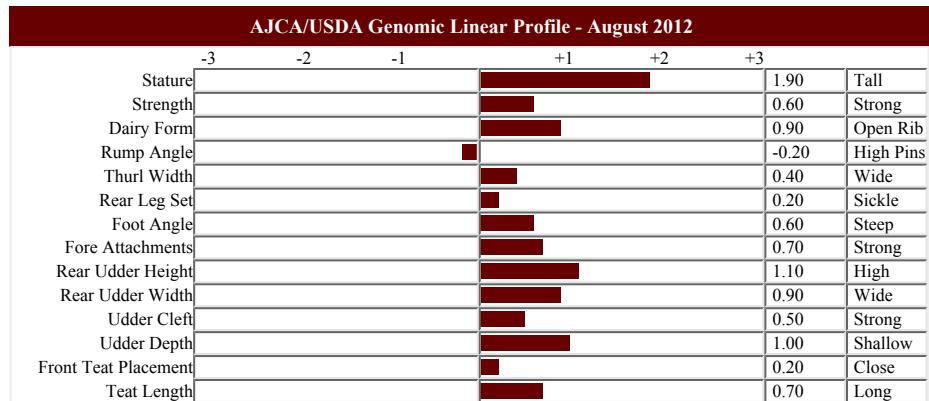


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[www.accelgen.com](http://www.accelgen.com)

## Appendix D

### Bull #3



# ROY - 014JE00555

**Impuls X Jace**  
**JEUSA000117011436**  
**Peterson Impulsive Roy**  
**aAa: 243 DMS: 246;234**



Accelerated Genetics®

## USDA SIRE GENOMIC EVALUATION Sire Summary - (12/11)

	0 Daus	0 Herds
Milk	<b>855</b>	<b>63%R</b>
Protein	<b>47</b>	<b>0.08</b>
Fat	<b>74</b>	<b>0.18</b>
Net Merit	<b>\$573</b>	
Fluid Merit	<b>\$487</b>	
Cheese Merit	<b>\$673</b>	

## USDA SIRE GENOMIC EVALUATION Type Summary - (12/11)

	1 Daus	0 Herds	JPI	215
PTAT	<b>1</b>	<b>59%R</b>		
UDC	<b>1.93</b>			

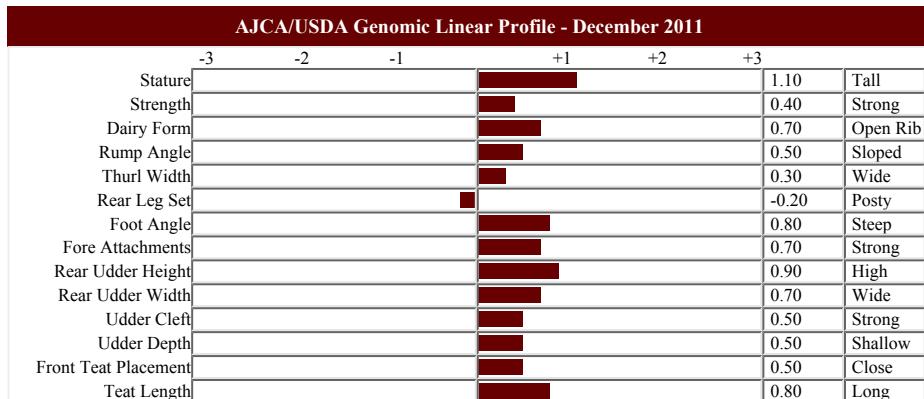
PL            **3.9**        55%  
 SCS          **2.82**      61%  
 DPR          **0.6**        53%  
 IB            **6**

## Information Provided By:



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 Baraboo, WI 52913  
 1.800.451.9275 (toll free)  
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## Appendix D Bull #4



◆ COW PAGE DHI-103		Test Date: 08-15-2012 Processed: 08-17-2012		42-77-0074 IO STATE DAIRY		Appendix E Cow #1		String 1	
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Barn Name		Index	
5-6461		6461	

Breed	Country	Identification		Birth Date	Body Wt.	Inbrd. Coef.	DCR Milk
HO	USA	61528470		06-08-04	1430	4.7	

Predicted Transmitting Ability							Estimated Relative Producing Ability				
Milk	%Fat	Fat	%Pro	Pro	\$	%Rel	%Rank	Milk	Fat	Pro	\$
-716	+.19	+22	+.09	+1	-23	82	19	-962	+110	+34	+88

Test Day Data				Lact No.	6	Calving Date		09-21-11			
DIM	9	45	78	113	147	183	224	253	295		
Milk	82	121	120	101	85	77	72	63	35		
Fat %	3.7	3.5	4.1	5.3	3.6	4.4	3.0	4.6	4.6		
Pro %	3.5	3.0	3.1	2.6	3.4	3.4	3.4	3.5	3.5		
SCC	20	23	15	13	15	20	25	25			

Lact No.	Test Plan	Calving Date	Age at Calving	Days Dry	Days Open	No. BR.	305 Day Lactation				Days 3X	Complete Lactation				CAR	ME Lactation			Herdmate Deviation					
							Milk	% Fat	Fat	% Pro		DIM	Milk	Fat %	Fat	Pro %	Pro	Milk	Fat	Pro	Milk	Fat			
1	0	05-11-06	1-11		147	1					60	304	23,067	4.0	923	3.3	758		28,708	1147	920	+1089	+152	+101	
2	31	07-07-07	3-00	118	110	4	26,762	3.8	1006	3.2	849		353	29,688	3.8	1142	3.2	958		32,114	1187	975	+1532	+59	+63
3	2	07-27-08	4-01	33	181	2	22,614	4.5	1023	3.4	767		390	25,380	4.6	1159	3.4	866		25,102	1136	843	-4834	+116	-46
4	2	11-02-09	5-04	73	56	4						276	26,806	4.4	1169	3.1	841		27,204	1165	854	-1270	+189	+24	
5	2	10-02-10	6-03	58	74	1	28,506	4.3	1237	3.4	961	90	305	28,506	4.3	1237	3.4	961		27,375	1190	934	+202	+234	+117
6	2	09-21-11	7-03	49	155	1	25,734	4.0	1042	3.2	818	308	308	25,832	4.0	1046	3.2	821		23,477	976	768	-3441	+20	-24
LIFETIME		6		97		70			1936	159,279	4.2	6676	3.3	5205		27,330	1134	882	-1120	+128	+39				
		Number of Lactations		Reproductive Efficiency		Average Milk/Day				Totals						Averages									

\* Dry thru Test Date: 08-15-12

Dried on 07-25-12

Number of Breedings = 5

Last Bred 02-23-12 To 1HO10245 HO Preg

Prev Bred 01-09-12 To 11HO11040 HO

Prev Bred 12-22-11 To 11HO11040 HO

Prev Bred 12-04-11 To 11HO11040 HO

Prev Bred 11-11-11 To 11HO11040 HO

5-6461  
Index  
Barn Name

Barn Name	5-6461	Index Number	6461	Identification	61528470
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COW PAGE DHI-103				Test Date: 08-15-2012 Processed: 08-17-2012				42-77-0074 IO STATE DAIRY				Appendix E Cow #2				String 1										
Barn Name <b>7-7062</b>				Index <b>7062</b>								REGANCREST-HHF MALIN-ET														
Breed	Country	Identification			Birth Date		Body Wt.		Inbrd. Coef.		DCR Milk		Sire		Identification				AI Code / Name	Inbrd						
HO	USA	62434486			05-19-06		1460		4.1		103		HO		127549271				29HO10370 MALIN	5.2						
Milk	%Fat	Fat	%Pro	Pro	\$	%Rel	%Rank	Milk	Fat	Pro	\$	PTA	Milk	%Fat	Fat	%Pro	Pro	\$	%Rel	%Rank						
-594	+.03	-14	+.02	-13	+130	81	55	-1444	-108	-23	-486	PTA	-170	+.02	-1	+.03	+4	+132	99	20						
Predicted Transmitting Ability					Estimated Relative Producing Ability							Dam		Identification				Barn Name / Index			Inbrd					
Milk	%Fat	Fat	%Pro	Pro	\$	%Rel	%Rank	Milk	Fat	Pro	\$	HO	USA	132678397				7-5946			4.2					
-594	+.03	-14	+.02	-13	+130	81	55	-1444	-108	-23	-486	PTA	Milk	%Fat	Fat	%Pro	Pro	\$	%Rel	%Rank						
Test Day Data					Lact No.		4		Calving Date		06-29-11		MGS		COYNE-FARMS BONANZA-ET											
DIM	57	93	129	162	197	231	267	308	337	379		HO	USA	2191209				1HO02993 BONANZA			2.5					
Milk	102	92	81	48	57	54	48	48	40	31		PTA	Milk	%Fat	Fat	%Pro	Pro	\$	%Rel	%Rank						
Fat %	2.2	2.9	2.9	2.9	4.7	3.5	4.4	2.3	3.5	2.8		PTA	-1026	+.06	-23	+.03	-23	-105	81	7						
Pro %	2.8	2.8	2.8	2.8	3.0	3.1	3.0	3.1	3.1	3.3		Milk	%Fat	Fat	%Pro	Pro	\$	%Rel	%Rank							
SCC	1131	857	1493		696	696	800	429	746	800		PTA	-68	-.14	-38	+.02	+2	+3	99	7						
Lact No.	Test Plan	Calving Date	Age at Calving	Days Dry	Days Open	No. Br.	305 Day Lactation					Complete Lactation					ME Lactation				Herdmate Deviation					
1	2	05-08-08	1-11		93	1	21,905	3.4	755	3.1	685		329	22,878	3.5	799	3.2	725		27,819	951	844	-718	-45	-4	
2	2	05-14-09	2-11	42	114	1	26,119	3.4	879	3.1	818		333	27,258	3.4	930	3.1	856		29,514	993	902	+3012	+22	+119	
3	2	05-29-10	4-00	47	148	3	22,703	3.0	678	3.3	739		347	24,527	3.1	757	3.3	809		23,838	712	771	-2970	-198	-46	
4	2	06-29-11	5-01	49	246	4	21,633	3.0	651	2.9	627	312	380	24,567	3.0	738	2.9	720		20,096	628	597	-6546	-319	-185	
LIFETIME		4		98			65				1389		99,230	3.2	3224	3.1	3110		25,317	821	779	-1806	-135	-29		
		Number of Lactations		Reproductive Efficiency			Average Milk/Day				Totals					Averages										
* Dry thru Test Date: 08-15-12 Dried on 07-13-12 Number of Breedings = 8 Last Bred 03-01-12 To 1HO10245 HO Preg Prev Bred 02-09-12 To 1HO10245 HO Prev Bred 01-17-12 To 11HO10988 HO																										
Barn Name				7-7062			Index Number				7062			Identification				62434486				7-7062 Index Barn Name				

**COW PAGE**  
DHI-103

Test Date: 08-15-2012  
Processed: 08-17-2012

42-77-0074  
IO STATE DAIRY

**Appendix E Cow #3**

String 1

Barn Name		Index										
7-7117		7117										
Breed	Country	Identification			Birth Date	Body Wt.	Inbrd. Coef.	DCR Milk				
HO	USA	62434541			07-25-06	1460	6.8	104				
Predicted Transmitting Ability						Estimated Relative Producing Ability						
Milk	%Fat	Fat	%Pro	Pro	\$	%Rel	%Rank	Milk	Fat	Pro	\$	
+181	.07	-11	-.02	+1	-40	81	16	-255	-153	-7	-293	
Test Day Data				Lact No.	3	Calving Date		03-06-11				
DIM	6	40	81	110	172	208	244	277	312	346	382	423
Milk	71	96	120	120	87	73	55	62	51	45	44	40
Fat %	6.2	3.5	2.8	1.9	2.8	3.2	3.2	3.9	3.5	3.6	3.8	2.8
Pro %	3.7	2.8	2.6	2.8	3.4	3.5	3.5	3.5	3.3	3.0	3.1	3.2
SCC	1493	1838	373	1131	4223	187		283	373	54	81	100

Lact No.	Test Plan	Calving Date	Age at Calving	Days Dry	Days Open	No. Br.	305 Day Lactation					Days 3X	Complete Lactation					CAR	ME Lactation			Herdmate Deviation									
							Milk	% Fat	Fat	% Pro	Pro		DIM	Milk	Fat %	Fat	Pro %	Pro	Milk	Fat	Pro	Milk	Fat	Pro							
1	2	08-13-08	2-00		200	1	22,139	2.6	570	3.1	684		400	27,567	2.7	755	3.1	857		29,223	735	861	-1008	-295	-36						
													365	26,200	2.7	701	3.1	810													
2	2	12-06-09	3-04	80	172	4	28,542	2.7	782	2.9	819		381	32,405	2.7	879	2.9	950		30,825	837	875	+3029	-121	+61						
3	2	03-06-11	4-07	74	529	3	26,388	3.1	807	3.1	813	434	494	34,314	3.2	1094	3.1	1066		23,483	740	739	-3041	-194	-53						
LIFETIME		3		87			65												27,844		771		825		-340		-203		-9		
		Number of Lactations		Reproductive Efficiency			Average Milk/Day													Averages											

\* Dry thru Test Date: 08-15-12

Dried on 07-12-12

Prev Bred 11-05-11 To 76HO00644 HO

Prev Bred 10-20-11 To 76HO00644 HO

Prev Bred 10-02-11 To 76HO00644 HO

Prev Bred 09-03-11 To 76HO00644 HO

Prev Bred 08-19-11 To 76HO00644 HO

Prev Bred 08-11-11 To 76HO00644 HO

Barn Name

7-7117

Index Number

7117

Identification

62434541

NUNESDALE KISMET ELATION-ET									
Breed	Country	Identification			AI Code / Name			Inbrd	
HO	USA	2280338			7HO06247 ELATION			3.0	
PTA	Milk	%Fat	Fat	%Pro	Pro	\$	%Rel	%Rank	
	+378	-.07	-6	-.04	+0	-33	99	5	

DAM									
Breed	Country	Identification			Barn Name / Index			Inbrd	
HO	USA	42WKA2280			7-6202 6202			4.8	
PTA	Milk	%Fat	Fat	%Pro	Pro	\$	%Rel	%Rank	
	+87	+.03	+11	+.02	+8	-32	83	17	

MGS									
Breed	Country	Identification			AI Code / Name			Inbrd	
HO	USA	2271349			14HO02693 LACER			1.0	
PTA	Milk	%Fat	Fat	%Pro	Pro	\$	%Rel	%Rank	
	+52	+.00	+3	+.02	+7	+84	96	15	

7-7117  
Barn Name  
Index

<b>COW PAGE</b> DHI-103	Test Date: 08-15-2012 Processed: 08-17-2012	42-77-0074 IO STATE DAIRY	<b>Appendix E Cow #4</b>	String 1
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Barn Name		Index	
<b>5-7405</b>		<b>7405</b>	

Breed	Country	Identification		Birth Date	Body Wt.	Inbrd. Coef.	DCR Milk
HO	USA	63428720		06-25-07	1460	4.9	104

Predicted Transmitting Ability								Estimated Relative Producing Ability					
Milk	%Fat	Fat	%Pro	Pro	\$	%Rel	%Rank	Milk	Fat	Pro	\$		
+1034	-.01	+36	+.01	+33	-1	81	23	+1004	+83	+29	+388		

Test Day Data				Lact No.	3	Calving Date		06-05-11			
DIM	19	81	117	153	186	221	255	291	332	361	403
Milk	46	117	116	96	100	91	79	67	52	45	37
Fat %	5.8	3.5	4.8	3.5	3.6	3.4	3.5	3.9	3.4	3.6	3.8
Pro %	2.8	2.9	2.8	3.0	3.3	3.2	3.3	3.3	3.4	3.4	3.3
SCC	27	19	29	54	17	57	35	132	152	246	303

Sire	MR MOTEL-ET							
	Breed	Country	Identification			AI Code / Name		
	HO	USA	131779862			29HO10868 MR MOTEL		
PTA	Milk	%Fat	Fat	%Pro	Pro	\$	%Rel	%Rank
	+1622	-.09	+34	-.02	+43	+115	99	18

Dam	Breed	Country	Identification			Barn Name / Index			Inbrd
	HO	USA	131753059 982000023599617			5-5650			4.5
	PTA	Milk	%Fat	Fat	%Pro	Pro	\$	%Rel	%Rank
	-264	+.14	+26	+.00	-8	-226	82	1	

MGS	HIGH-SIGHTS GANNON LUCK-ET								
	Breed	Country	Identification			AI Code / Name			Inbrd
	HO	USA	2229242			14HO02402 LUCK			4.1
PTA	Milk	%Fat	Fat	%Pro	Pro	\$	%Rel	%Rank	
	+702	+.03	+35	-.03	+14	-151	95	1	

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	Fat	% Pro	Pro	DIM	Milk	Fat %	Fat	Pro %	Pro	CAR	Milk	Fat	Pro													
1	2	05-30-09	1-11		112	1	24,700	3.7	908	3.0	737		347	27,769	3.7	1021	3.0	836		31,369	1144	909	+4895	+175	+126									
2	2	06-21-10	2-11	40	73	2							304	21,490	3.7	793	3.1	675		24,951	913	753	-2592	-13	-83									
3	2	06-05-11	3-11	45	269	1	26,980	3.9	1053	3.0	820	192	430	32,590	3.9	1257	3.1	1008		28,269	1113	852	+1714	+171	+72									
													365	30,104	3.9	1163	3.1	925																
LIFETIME		3		102		70						1081	81,849		3.8		3071		3.1		2519		28,196		1057		838		+1339		+111		+38	
		Number of Lactations		Reproductive Efficiency		Average Milk/Day							Totals										Averages											

\* Dry thru Test Date: 08-15-12  
 Dried on 08-08-12  
 Number of Breedings = 8  
 Last Bred 02-29-12 To 1HO10245 HO Preg  
 Prev Bred 01-27-12 To 11HO10997 HO  
 Prev Bred 01-05-12 To 11HO11040 HO

Barn Name	5-7405	Index Number	7405	Identification	63428720
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**5-7405**  
Barn Name  
Index

# **2012 Iowa FFA Dairy Cattle Evaluation CDE Key**

## **Test Key**

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

## **DHIA Questions**

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

## **Dairy Management**

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

## **Sire Evaluation Questions**

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

## **Pedigree Evaluation**

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

## **Phase E Pedigree Placing**

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

**Cuts 3 - 8 - 1**

- 2 - Highest NM\$ (272)  
Highest fat, protein, milk  
2nd highest PTAT (+.3)
- 1- 2nd highest NM\$ (251)  
Highest PTAT(+.6), Two pair class
- 4- 3rd highest NM\$ (15), similar PTAT to #3  
Negative values milk, fat, protein
- 3- Lowest NM\$ (-46), PTAT (-.1)  
Positive values for fat  
Close bottom pair

## **Phase F Sire Selection**

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

**Cuts 7 - 2 - 4**

- 1- Highest NM\$ all categories  
Medium stature  
Highest JPI (231)  
Best UDC (4.31)
- 4- Highest fat, lowest milk  
2nd high JPI (215)  
3rd UDC (1.93), good component values  
2nd best NM\$ values
- 3- Highest milk  
Lowest component values  
3rd in most NM\$ values  
2nd UDC, JPI 3rd (198)  
Tallest , close middle pair
- 2- Low fat, protein, 2nd high in milk  
Lowest NM\$ values  
2nd high UDC  
Lowest JPI (170)

## **Phase G Culling**

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

**Cuts 2 - 8 - 3**

- 3- 87% reproductive efficiency, lowest  
SCC - some very high, some low  
Long 3rd lactation (529 days open)  
Breeding back problems each lactation
- 2- Very high SCC, better rep eff (98%)  
Poorest herdmate deviations(milk fat protein)  
Poorest 4th lactation
- 4- Low-Med SCC, rep eff (102%)  
Best herdmate deviations  
Long 3rd lactation (269 days open)
- 1- 97% reproductive efficiency  
Lowest SCC  
2nd best herdmate deviations