

2018 Iowa FFA Dairy Cattle Evaluation CDE Test
Manchester, Iowa September 8, 2018

Mark the best answer in the proper blank on the scan form.

25 Objective Questions -- 2 pts. Each

1. Predip should be left on the teat ends for at least how many seconds before being completely wiped off?
a. 15 seconds b. 30 seconds c. 45 seconds d. 60 seconds
2. Which of the following hormones is not directly associated with reproduction?
a. Progesterone b. Adrenaline c. Estrogen d. Testosterone
3. At birth, which stomach area is the largest in the calf?
a. Rumen b. Reticulum c. Omasum d. Abomasum
4. Which of the following is a source of non-protein nitrogen?
a. Urea b. Corn grain c. Soybean meal d. Linseed meal
5. How does a robotic milker find the teats of a cow ready to be milked?
a. Teat sphincter sensors c. Somatic cell sensors
b. Lasers or vision cameras d. Milk detection sensors
6. Propionic acid absorbed from the rumen is converted to glucose in which organ of the cow?
a. Heart b. Large intestine c. Small intestine d. Liver
7. What is the name of milk sugar?
a. Lactose b. Fructose c. Dextrose d. Sucrose
8. Dystocia refers to:
a. Energy consumption b. Herd health c. Mastitis d. Calving ease
9. What is the term given to a heifer born twin to a bull?
a. Metritis b. Displaced abomasum c. Freemartin d. Gomer
10. "UHT" milk is pasteurized at what approximate minimum temperature in degrees Fahrenheit?
a. 145 degrees b. 161 degrees c. 191 degrees d. 280 degrees
11. A total stimulation time of how many seconds is considered sufficient to initiate milk let-down?
a. 3 to 5 seconds b. 7 to 9 seconds c. 10 to 12 seconds d. 15 to 17 seconds
12. Fat has how many times as much energy per pound as carbohydrates?
a. 4.40 b. 2.25 c. 1.25 d. .75

13. In order for effective fermentation to occur in a silage pile, what element must be absent?
a. Oxygen b. Hydrogen c. Carbon d. Nitrogen
14. What is the time period that a cow carries a calf?
a. Parturition b. Rumination c. Gestation d. Lactation
15. The amount of time a cow ruminates or chews her cud can be an indicator of cow health. Healthy cows tend to ruminate how many minutes per day?
a. 600-720 minutes b. 450-550 minutes c. 250-350 minutes d. 60-120 minutes
16. Which of the following is not a behavior used to identify cows in pain?
a. Back position b. Facial expression c. Head position d. Sleeping position
17. What is the main support system holding the udder close to the cow's body wall?
a. Skin & subcutaneous connective tissue c. Medial suspensory ligament
b. Sustentacular apparatus d. Lateral suspensory ligament
18. Until how many hours old will a calf's intestine absorb the disease-fighting ingredients in colostrum?
a. 48 hours b. 24 hours c. 12 hours d. 4 hours
19. Where is oxytocin stored and released?
a. Adrenal gland b. Corpus luteum c. Ovarian follicle d. Pituitary gland
20. Where in the cow's reproductive tract do sperm concentrate and await ovulation?
a. Utero-tubal junction b. Uterus c. Testes d. Vagina
21. Pregnancy can be detected by milk or blood samples or transrectal ultrasound how many days after insemination?
a. 47 days b. 35 days c. 28-30 days d. 10-12 days
22. What is the second most common reason for cows to leave the herd following unspecified reasons, accounting for 19 percent of cows that leave?
a. Reproduction b. Feet and legs c. Mastitis d. Low production
23. What component causes the yellow color in milk from certain breeds of dairy cattle?
a. Beta carotene b. Beta hydroxybutyrate c. Lactose d. Protein
24. Which component in colostrum fed during the first day of life is most critical to the health and survival of the calf?
a. Somatic cells b. Vitamin A c. Vitamin D d. Immunoglobulin
25. In what process is the nucleus removed from an unfertilized oocyte and replaced by a nucleus of another cell?
a. Embryo transfer b. In-vitro fertilization c. Cloning d. Conception

DHIA Questions -- 5 pts each

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

26. What is the main reason cows left the herd during the last year?
a. Died b. Feet and legs c. Mastitis d. Reproduction
27. What percentage of the cows are in milk during this test period?
a. 73% b. 81% c. 89% d. 91%
28. What is the rolling yearly herd average for milk production during the 8-15-18 test date?
a. 84.9 pounds b. 975 pounds c. 26693 pounds d. 26996 pounds
29. Which lactation period represents the highest number of cows during the 8-15-18 test date?
a. First lactation b. Second lactation c. Third lactation d. Fourth lactation
30. Which month will have the least number of heifers to calve?
a. September b. October c. November d. December

Dairy Management Problems -- 5 pts each

31. What is the cost per pound of ground ear corn if ear corn sells for \$3.30/bu(70#/bu) and grinding is .42 per cwt?

- a. \$.0513 b. \$.0552 c. \$.0571 d. \$.0581

32. You want to make a 15.6% protein ration using 8.0% protein corn and 43.4% protein soybean meal. How many pounds of corn are needed to make a two-ton ration?

- a. 3117 lbs b. 3141 lbs c. 3293 lbs d. 3719 lbs

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

	lbs	
Ground shelled corn	900	8.5%
Whole cottonseed	190	25.5%
Haylage	1650	13.7%
Hay	650	21%
Protein Mix	300	41.8%
Minerals	175	0%

- a. 15.56% b. 15.86% c. 15.92% d. 16.17%

34. What is the component value of a hundredweight of milk if the farm produces 366,500 pounds of milk with the following:

Components		<u>\$Basis Milk Value</u>
Butterfat	4.32%	1.155
Protein	4.11%	1.76
Solids	5.52%	.0312
SCC	250,000	.35

- a. \$12.74 b. \$12.97 c. \$13.15 d. \$13.71

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

			%protein
Large round 1st cutting Alfalfa	45,380 lbs	\$130.00/ton	17.2
Large round 2nd cutting Grass	53,300 lbs	\$122.50/ton	14.8
3x3 bales 1st cutting Alfalfa	40,860lbs	\$112.50/ton	15.6
Small square Grass mix	14,250 lbs	\$142.50/ton	16.4

- a. Large round 1st cutting Alfalfa
 b. Large round 2nd cutting Grass
 c. 3x3 bales 1st cutting Alfalfa
 d. Small square Grass mix

Sire Evaluation Questions -- 5 pts each

Refer to **Appendix B (Top 100 TPI Bulls)** to answer the following questions.

36. Which of these bulls has a problem with productive life?

- a. J-Mor SS Homer - ET
 b. DE-SU 11228 Topsy - ET
 c. View-Home Monterey - ET
 d. Eldon-Tweed Chops - ET

37. What factor would put View-Home Monterey - ET top of the list?

- a. SCS
 b. PTAT
 c. PL
 d. Milk production

38. Which bull has the highest combined fat and protein total?

- a. Sandy-Valley Gram - ET
 b. Co-op Princeton - ET
 c. View-Home Mandate - ET
 d. EDG Blackgold - ET

39. If mammary system and feet and legs are important to you, which bull would you NOT use?

- a. View-Home Mandate - ET
 b. Zimmerman Mogul Butler - ET
 c. Sandy-Valley Gram - ET
 d. EL1023 Masterful - ET

40. Which trait does not represent the true value of the bull EDG Blackgold - ET?

- a. High quality milk
 b. High mammary system scores
 c. 140 pounds combined fat and protein
 d. Lower productive life

Pedigree Questions -- 5 pts each

Refer to **Appendix C** to answer the following questions.

#1	Lot 4	Kruses Carter Fleece
#2	Lot 5	Riedland Carter Freesia
#3	Lot 45	Coredale Winmore Peach Pie
#4	Lot 46	Wapsi-Ana Moon - L Freeme

41. Which heifer lacks production information from her dam?

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

42. Which two heifers have the same sire?

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

43. Which heifer excels in type?

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

44. What is the name of the paternal grand dam of heifer #3?

- a. Shen-Val Champ Patsy c. Mort Legacy Bonanza
b. Top Acres Andre Whisper d. Coredale Whiskey Peaches

45. What is the tattoo number of heifer #4?

- a. 2417 b. 120 c. T9 d. None

46. 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 4	Kruses Carter Fleece
#2	Lot 5	Riedland Carter Freesia
#3	Lot 45	Coredale Winmore Peach Pie
#4	Lot 46	Wapsi-Ana Moon - L Freeme

47. Phase F -- Sire Evaluation

You are a Holstein 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 want to have a few heifers to show. 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 Bourbon	#2 Mixer	#3 Torque	#4 Yoda
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48. Phase G -- Culling Class

You milk in a tie-stall barn and want to keep a milking cow in every stall and not have to shift cows in and out to get them all milked. All dry cows are housed elsewhere. You sell high volumes of high quality milk with emphasis on reproductive efficiency. You had a first-calf heifer freshen this morning and you want to cull one of the following four cows to make room for this fresh heifer. Use the attached DHI-103 Cow Pages (**Appendix E**) to place the cows in the order that you would cull them from your herd. The first cow you would cull should be ranked #1 and the last cow you would cull should be ranked #4.

#1 Index 10152	#2 Index 10265	#3 Index 10276	#4 Index 10680
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DHI-202

Appendix A

42-77-0074
I O STATE DAIRY
JOE DETRICK

HERD SUMMARY
Samples at Lab
08-17-2018

Processed
08-17-2018

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

Production, Income & Feed Cost Summary

Total Cows	Daily Average per Cow on Test Day		Rolling Yearly Herd Averages	
	Number	%	Number	%
	378		403.1	
Cows in Milk	343	91	358.8	89
Milk Lbs (All Cows)	77.0		26996	
Fat Lbs (All Cows)	2.71		975	
Fat %	3.5		3.6	
Protein Lbs (All Cows)	2.30		846	
Protein %	3.0		3.1	
Milk Lbs (Milking Cows)	84.9			
Milking Cows	All Cows			
Lbs Consumed	Lbs Consumed	%ENE		
Lbs Consumed	Lbs Consumed	%ENE		
Lbs Consumed	Lbs Consumed	%ENE		
Lbs Consumed	Lbs Consumed	%ENE		
Pasture	Lbs Consumed	%ENE		
Concentrates	Lbs Consumed	%ENE		
Value of Product \$	13.48	12.12	4562	
Cost of Concentrates \$				
Total Feed Cost \$				
Income Over Feed Cost \$				
Feed Cost per CWT Milk \$				
Milk Blend Price	Per CWT	% Fat	% Pro	% Fat Pro

Reproductive Summary of Current Breeding Herd

Total Cows Breeding Herd	Cows With No Service Dates or Diag. Open		Cows Bred But Not Diag. Preg.	
	Open WWP to 100 Days	Open Over 100 Days	Under WWP 100 Days	Over 130 Days
105	28	8	20	13
	27	8	19	12
				34

Reproductive Summary of Total Herd

1st Lact	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 WWP	Number Over 100		Preg. Cows	All Cows		Interval < 18	Number Intervals	Service Number	Number Services	Conception Rate	Services Sire
	116	1	66	2.0	2.6	12.8	9	395	36	+823		
2nd Lact	81		65	2.2	2.9	113	39	231	34	+825		
3+ Lacts	62		65	2.1	2.9	105	266	247	34	+817		
All Lacts	259	1	66	2.1	2.8	109	44	873	35	+822		
% of All 1st Services	100			Current Actual	Calving Interval	12.6		Abortions Actual	This Test	Past Year	1	
								Apparent	7	26		

Birth Summary

Dam's Lact Num	Males		Females		Offspring Born					Calving Difficulty Score		
	Alive	Dead	Alive	Dead	1	2	3	4-5	% 4-5	1	2	3
1	42	3	129	6	126	23	13	1	1			
2+	143	11	120	5	168	24	15	3	1			
Total	185	14	249	11	294	47	28	4	1			

Cows To Be Milking, Dry, Calving By Month

	Sep	Oct	Nov	Dec	Jan	Feb
* Milking	336	315	313	322	339	323
Dry	43	55	57	55	36	48
Cows to Calve	21	20	26	29	36	19
Heifers to Calve	17	9	18	26	17	14

* Assumes 4.8% per month culling rate.

Yearly Reproductive Summary

Test Date	% Heals Obs.	Conception Rate	Preg Rate	Number Services	Number Confirm Preg	Number Calving	Total Preg Cows
9-20-17	48	22	11	54	30	44	203
10-25-17	58	36	22	80	9	39	184
11-29-17	56	38	23	82	28	52	181
1-10-18	60	46	32	87	37	46	186
2-14-18	58	28	25	103	44	57	188
3-21-18	62	29	27	99	29	57	175
5-02-18	59	38	30	105	34	49	171
6-06-18	68	25	17	120	49	27	195
7-12-18	55			93	40	29	203
8-15-18	55			80	30	40	202
Averages	59	34	25	91	32	45	187
Totals				909		452	

Remarks:

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

Miscellaneous Herd Information

Shipped-Test Day Comparison	Milking Times		Wgh	Spl
	Test Day	Yearly Avg.		
28865	12:17pm	29394	Y	N
	7:23pm		Y	N
	3:55am		Y	Y

Appendix A

Identification And Genetics (Genetic Data Source: CDCB)

Age Group	Number of Animals	Avg. Age (Yr-Mo)	Num. Ident. By		No. Animals with Merit \$	Average Merit \$		Herd Merit \$ Option	Genetic Profile of Service Sires		
			Sire	Dam		Animal	Sire		A.I. Progeny Tested	All Other A.I. Bulls	Non A.I. Bulls
0-12	262	0-06	262	262	262	+534	NM				
13+	160	1-05	160	160	160	+475					
Replacements	422	0-10	422	422	422	+511					
1st Lact	175	1-10	175	175	175	+644					
2nd Lact	105	2-11	105	105	105	+389					
3+ Lacts	98	4-07	97	96	98	+260					
All Lacts	378	2-11	377	376	2	+354					
% Identified (Producing Females): 100 99 No. Heifers Age Over 30 Months: 100 99 % of Herd Bred to: 1 30 Number of Bulls Used: +692 +825 +0 Average Merit \$: 99 96 Avg. Percentile Rank (Net Merit): 99 96											

Production By Lactation Summary

Lact.	Number of Cows	Avg. Age (Mo)	Peak Milk			Summit Milk			Proj 305 Day ME			Difference From Herdmates			% Cows SCC Score		
			175	22	96	91	27252	994	831	+1047	+55	+28	1210	0,1,2,3	4	5	6
			105	35	120	116	28062	996	851	+1752	+57	+51	1330	Below 142,000	142,000 - 283,000	284,000 - 565,000	566,000 - 1,130,000
1st Lact	175	22	96	91	27252	994	831	+1047	+55	+28	1210	84	9	1	2	4	
2nd Lact	105	35	120	116	28062	996	851	+1752	+57	+51	1330	71	10	8	6	5	
3+ Lacts	98	55	129	122	25869	896	790	-272	-42	-7	1460	66	3	13	9	9	
All Lacts	378	35	111	106	27141	970	826	+926	+31	+26	1310	75	8	6	5	6	
Herd Production Last From SCC This Test Period: Milk 6997 Dollars (\$) 1126																	

Dry Cow Profile

Lact.	Number Dry Periods	Avg. Days Dry	Number Dry by Days		Cows Entered	Cows Left	Cows			Number of Cows Left the Herd			Not Rpd			
			<40	40-70			>70	Dairy	Low Prod	Udder	Feet & Legs	Injury		Disease	Other	
1	105	59	100	5	191	47	66	16	2	10	22	6	4	1	18	3
2	98	60	5	82	11	7	2	111	28	1	11	19	10	1	3	7
3+	203	59	5	182	16	198	49	230	57	4	41	74	32	5	17	11
All						46										

Yearly Production And Mastitis Summary

Test Date	Days In Test Period	Number Cows In Herd On Test Day	Test Day Averages (Milking Cows)		Test Day Averages (All Cows)		Rolling Yearly Herd Average		Somatic Cell Count Summary			Number Left Herd									
			DIM	Milk	% In Milk	% Fat	%Pro	Milk	Fat	Pro	0,1,2,3	4	5	6							
			192	76.6	86	65.8	3.7	3.1	25373	940	804	71	10	6	4	9					
9-20-17	35	411	200	74.1	89	66.0	3.7	3.2	25345	939	806	72	9	7	5	8	2.7	326	12.8	6	10
10-25-17	35	407	186	79.9	87	70.4	3.5	3.2	25354	939	807	73	11	5	5	7	2.5	309	10.3	5	19
11-29-17	35	410	174	78.6	87	68.5	3.6	3.3	25365	937	808	79	8	3	4	6	2.3	208	10.9	1	15
1-10-18	42	416	165	80.5	86	69.3	3.6	3.3	25439	937	811	69	9	9	6	7	2.8	279	10.2	4	11
2-14-18	35	422	157	88.8	89	78.8	3.8	3.2	25606	941	817	72	10	7	4	7	2.6	271	8.2	4	16
3-21-18	35	410	159	88.5	93	82.6	3.7	3.1	25814	949	823	72	8	8	4	9	2.6	353	9.5	8	30
5-02-18	42	386	176	92.8	91	84.6	3.3	3.0	26175	955	831	80	8	3	6	3	2.2	162	10.1	4	28
6-06-18	35	375	178	85.8	91	80.1	3.7	3.0	26466	959	836	77	10	5	3	5	2.3	216	11.6	3	17
7-12-18	36	380	178	86.4	91	88.7	3.5	3.0	26693	967	839	72	9	7	5	7	2.7	323	12.3	3	15
8-15-18	34	378	169	84.9	91	77.0	3.5	3.0	26996	975	846	75	8	6	5	6	2.4	294	11.5	5	29
Averages	36	399	174	84.0	90.4	101	89	75.0	3.6	3.1		74	9	6	5	7	2.5	274	10.7	40	190
												Test Period Avg. Milk Lbs Added		75.8		Dropped		66.8			

Weighted SCC ACT (Nearest 1,000)

Somatic Cell Summary

Lact.	Number of Cows	Avg. Age (Mo)	Peak Milk			Summit Milk			Proj 305 Day ME			Difference From Herdmates			% Cows SCC Score		
			175	22	96	91	27252	994	831	+1047	+55	+28	1210	0,1,2,3	4	5	6
1st Lact	175	22	96	91	27252	994	831	+1047	+55	+28	1210	84	9	1	2	4	
2nd Lact	105	35	120	116	28062	996	851	+1752	+57	+51	1330	71	10	8	6	5	
3+ Lacts	98	55	129	122	25869	896	790	-272	-42	-7	1460	66	3	13	9	9	
All Lacts	378	35	111	106	27141	970	826	+926	+31	+26	1310	75	8	6	5	6	

Yearly Summary Of Cows Entered And Left The Herd

Lact.	Number Dry Periods	Avg. Days Dry	Number Dry by Days		Cows Entered	Cows Left	Cows			Number of Cows Left the Herd			Not Rpd			
			<40	40-70			>70	Dairy	Low Prod	Udder	Feet & Legs	Injury		Disease	Other	
1	105	59	100	5	191	47	66	16	2	10	22	6	4	1	18	3
2	98	60	5	82	11	7	2	111	28	1	11	19	10	1	3	7
3+	203	59	5	182	16	198	49	230	57	4	41	74	32	5	17	11
All						46										

Yearly Production And Mastitis Summary

Test Date	Days In Test Period	Number Cows In Herd On Test Day	Test Day Averages (Milking Cows)		Test Day Averages (All Cows)		Rolling Yearly Herd Average		Somatic Cell Count Summary			Number Left Herd									
			DIM	Milk	% In Milk	% Fat	%Pro	Milk	Fat	Pro	0,1,2,3	4	5	6							
			192	76.6	86	65.8	3.7	3.1	25373	940	804	71	10	6	4	9					
9-20-17	35	411	200	74.1	89	66.0	3.7	3.2	25345	939	806	72	9	7	5	8	2.7	326	12.8	6	10
10-25-17	35	407	186	79.9	87	70.4	3.5	3.2	25354	939	807	73	11	5	5	7	2.5	309	10.3	5	19
11-29-17	35	410	174	78.6	87	68.5	3.6	3.3	25365	937	808	79	8	3	4	6	2.3	208	10.9	1	15
1-10-18	42	416	165	80.5	86	69.3	3.6	3.3	25439	937	811	69	9	9	6	7	2.8	279	10.2	4	11
2-14-18	35	422	157	88.8	89	78.8	3.8	3.2	25606	941	817	72	10	7	4	7	2.6	271	8.2	4	16
3-21-18	35	410	159	88.5	93	82.6	3.7	3.1	25814	949	823	72	8	8	4	9	2.6	353	9.5	8	30
5-02-18	42	386	176	92.8	91	84.6	3.3	3.0	26175	955	831	80	8	3	6	3	2.2	162	10.1	4	28
6-06-18	35	375	178	85.8	91	80.1	3.7	3.0	26466	959	836	77	10	5	3	5	2.3	216	11.6	3	17
7-12-18	36	380	178	86.4	91	88.7	3.5	3.0	26693	967	839	72	9	7	5	7	2.7	323	12.3	3	15
8-15-18	34	378	169	84.9	91	77.0	3.5	3.0	26996	975	846	75	8	6	5	6	2.4	294	11.5	5	29
Averages	36	399	174	84.0	90.4	101	89	75.0	3.6	3.1		74	9	6	5	7	2.5	274	10.7	40	190
												Test Period Avg. Milk Lbs Added		75.8		Dropped		66.8			

Appendix B

Top 100 TPI Bulls AUGUST 2018

(Semen Status is ACTIVE or LIMITED with a minimum of 80% traditional US reliability OR 85% Genomic reliability for production and type)

Rank	Name	% RHA	NAAB	PRODUCTION			HEALTH			CONFIRMATION									
				TP TC	PROFAT	MILK	FE	%R	SCS	PL %R	LIV	FI	PTAT%R	UDC	FLC	BWC	TPI		
35	CO-OP RENEGADE-ET	99-I	1HO11863	42	82	1168	154	99	3.01	3.5	88	-1.7	2.1	2.81	93	2.09	2.86	0.92	2578G
	RI-VAL-RE RAGER-RED-ET	99-I	7HO12344	49	67	1361	144	98	2.78	5.2	86	2.4	2.2	2.45	94	1.77	2.01	0.99	2578G
	S-S-I SUPERSIRE TETRIS-ET	99-I	7HO11985	64	94	2166	206	98	2.74	5.7	86	2.9	1.4	0.69	92	0.71	-0.24	-0.13	2578G
	VIEW-HOME MANDATE-ET	100-NA	200HO10196	56	92	1738	205	97	2.67	4.4	86	1.6	1.5	1.75	94	1.14	-0.72	-0.87	2578G
39	BRYHILL ALTAHOTSHOT-ET	100-NA	11HO11523	44	85	1557	162	96	2.88	5.8	84	3.0	3.3	0.66	87	1.71	0.67	0.25	2576G
40	S-S-I BOOKEM MORGAN-ET	99-I	7HO11383	55	67	1635	159	99	2.73	6.3	97	1.8	2.7	1.47	98	1.24	1.02	0.27	2573G
41	MR BOMAZ ALTAMEGLO-ET	99-I	11HO11499	62	73	1962	187	98	3.15	6.2	86	2.3	3.6	0.76	87	0.75	1.27	-0.79	2572G
42	OCN RODGERS FRANCHISE-ET	100-NA	7HO12601	34	51	824	112	91	2.82	6.0	81	2.1	4.2	1.59	85	2.40	1.81	0.37	2566G
43	OCN JABIR HEISENBERG-ET	99-I	7HO12569	34	52	591	93	91	2.71	4.5	82	0.4	4.1	2.61	86	2.17	1.86	2.32	2564G
44	J-MOR SS HOMER-ET	100-NA	14HO07489	69	91	2271	200	94	2.83	4.4	84	3.0	0.4	1.08	85	0.86	0.32	0.69	2563G
	ROYLANE BOOKEM BOB 5170-ET	99-I	7HO11752	56	71	795	178	99	2.98	2.9	93	-0.3	3.4	1.64	96	1.68	0.74	0.61	2563G
46	S-S-I MOGUL REFLECTOR	99-I	7HO12105	72	44	1755	147	99	2.74	5.9	93	-0.3	1.7	1.81	98	1.64	1.21	1.36	2562G
	VIEW-HOME LITTLEROCK-ET	100-NA	200HO10195	52	65	1086	182	97	2.72	6.3	86	2.6	3.7	0.89	93	1.34	-0.52	-1.45	2562G
48	APRILDAY EQUINOX 654-ET	99-I	14HO07426	36	103	635	188	92	2.61	5.9	84	3.6	1.5	0.92	89	1.34	0.55	0.18	2561G
	DE-SU 11228 TOPSY-ET	99-I	29HO16667	64	82	1506	192	99	2.75	3.3	94	0.0	0.1	1.75	96	1.43	1.03	0.79	2561G
50	ZIMMERVIEW MOGUL BUTLER-ET	100-NA	7HO12195	64	56	1881	161	99	2.94	5.7	90	0.6	2.5	1.56	95	1.07	1.95	0.04	2557G
51	CO-OP PRINCETON-ET	99-I	1HO11881	81	107	2691	247	98	2.81	4.1	86	1.2	-4.2	1.72	90	1.78	0.29	-0.17	2555G
	MR OCD ROBUST DONATELLO-ET	100-NA	7HO11525	48	75	1183	184	99	2.87	3.9	98	3.3	3.0	1.11	98	1.34	0.79	-1.32	2555G
53	DE-SU 11236 BALISTO-ET	99-I	29HO16714	68	79	939	215	99	2.65	4.4	96	-0.7	-0.4	1.55	99	1.02	1.43	0.12	2554G
54	SANDY-VALLEY GRAM-ET	100-NA	200HO09137	31	89	885	164	98	3.08	3.4	86	-0.7	2.7	2.34	92	2.18	2.32	-0.47	2550G
55	SEAGULL-BAY SUPERSIRE-ET	100-NA	7HO11351	61	97	1938	204	99	2.82	5.9	99	2.6	0.6	0.86	99	0.68	-0.06	0.22	2548G
56	DE-SU ROOKIE 11057-ET	99-I	7HO11708	45	82	1067	177	96	2.69	5.3	87	1.5	1.4	1.70	93	1.52	0.97	-0.33	2547G
57	COASTAL-VIEW MOOKIE-ET	100-NA	14HO07328	27	106	49	189	99	2.91	4.1	89	0.4	1.0	1.72	94	2.38	1.37	-0.16	2545G
	EDG BLACKGOLD-ET	100-NA	29HO17550	59	81	1438	194	96	3.13	2.7	86	0.8	2.2	1.72	90	1.07	1.64	-0.16	2545G
59	VIEW-HOME MONTEREY-ET	99-I	29HO16955	38	51	701	121	99	2.97	3.4	91	1.1	1.7	3.50	99	3.02	1.90	0.44	2544G
60	BACON-HILL MAGUIRE-ET	100-NA	7HO12256	56	113	1462	217	98	2.76	2.8	87	0.8	-1.0	1.39	93	0.94	0.65	0.80	2535G
61	S-S-I STERLING TRENTON-ET	100-NA	7HO13094	44	77	330	180	98	2.78	6.6	85	3.9	1.2	1.43	90	1.49	1.12	-0.11	2533G
62	S-S-I SUPERSIRE MODESTO-ET	99-I	7HO13035	65	55	1757	139	99	2.91	4.9	86	0.5	1.5	1.90	93	1.67	1.35	2.00	2532G
63	S-S-I EPIC MIDNIGHT-ET	100-NA	7HO11946	46	52	1065	138	99	2.71	6.9	95	4.3	4.2	0.65	97	1.56	0.31	-0.12	2529G
64	DE-SU 11620 NIRVANA-ET	100-NA	29HO16887	72	66	1934	181	99	2.77	3.4	88	-1.2	-0.3	1.73	94	1.94	1.15	0.61	2528G
	KOEPON ALTACORNELL	99-I	11HO11440	50	73	1658	156	97	2.86	5.9	85	3.3	1.1	1.52	89	1.95	0.85	0.30	2528G
66	BRYCEHOLME BRODIE-ET	100-NA	29HO17726	69	63	2767	165	97	3.05	4.9	86	3.2	1.4	1.55	94	1.28	1.29	-0.15	2526G
67	ELI023 MASTERFUL-ET	100-NA	200HO08628	63	74	1622	176	98	2.80	2.6	87	-2.1	0.2	2.15	95	1.67	1.62	0.91	2525G
68	EILDON-TWEED CHOPS-ET	100-NA	14HO07337	45	85	996	181	98	3.02	1.2	85	-2.7	1.1	2.32	95	2.72	1.65	-0.24	2522G

1

Kruses Carter Fleece 68189174

Appendix C

Born: 9/1/17
Abnormalities:Tattoo: 120
Haplotypes:**5th Dam: KRUSES GK JADE FANTASY VIX ET 789702**

13/01 "4E94" E94 E90 E94 E90 E94 (5/02)

"Superior Brood Cow"

6/02 365d 2x 26400 4.7 1242 3.9 1028

8/05 365d 2x 25700 4.4 1134 3.6 915

All American Spring Yearling Heifer, 1990

All American 4 Yr. Old, 1993

All American Aged Cow, 1995

Grand Champion, Central National, 1993 & 1995

6th Dam: KRUSES BEAUTICIAN VIXIE *TA 644583

14/11 "5E" E E E E (3/92)

"Superior Brood Cow"

6/04 357d 2x 18680 4.6 857 3.3 617

All American 2 Year Old, 1980; 3 Year Old, 1981

Grand Champion, Madison, 1980, 1981

7th Dam: KRUSES STRETCHED VICKIE 607200 "2E"

4/03 317d 2x 17540 4.0 702

Nominated All American 2 Year Old, 1976

Consigned by
Rick Kruse
Earlville, Iowa
563/590-0101**VOELKERS TD CARTER *TM 68119645**

Abnormalities: *TM PT DT MT WT Haplotypes: BH1T BH2T

"Not Classified" "Superior Sire"

MACE:

PPR: +111 92%R PTAT: +1.4 95%R (4/18)

PTA: +1183m +38f +28p +196NM\$ 97%R

391 daus. avg. 25619 4.0 1037 3.3 843

259 class. daus. avg.:

FS: 84.7 UDC: +1.10 FLC: +0.31

KRUSELAND JEOPARDY FLOURISH 68170503

Abnormalities: Haplotypes:

2/06 "V89" V87 V85 E92 E90 E90 (1/18)

2/01 256d 2x 14265 4.3 610 3.2 426

(RIP)

WEBSTER RIDGE TD ET *TM 193164

"Not Classified" MACE

PPR: +46 96%R PTAT: +0.2 97%R (4/18)

PTA: +15m +13f -6p +197NM\$ 98%R

VOELKERS WDRNT CARABELLA 68101970

4/00 "E90" E92 E91 E90 E91 V88 (1/12)

2/03 364d 2x 20600 4.7 972 3.6 741

3/04 334d 2x 22510 4.2 951 3.3 741

4/05 365d 2x 32300 4.2 1368 3.4 1106

KRUSES LEBRON JEOPARDY (W) 68143267

"Not Classified" GEN

PPR: -35 64%R PTAT: +1.0 69%R (4/18)

PTA: -606m -6f -22p -106NM\$ 70%R

KRUSELAND VINTAGE FLOWER 68141086

5/11 "E90" E90 E92 V89 E91 E90 (1/18)

2/05 273d 2x 15420 4.3 656 3.2 501

3/04 292d 2x 17280 4.3 741 3.4 591

4/04 365d 2x 22680 4.5 1019 3.4 767

3rd Dam:**RIEDLAND FLOWER FLORENCE ET 950078**

6/02 "2E90" V88 E90 E95 E90 E90 (11/12)

3/03 365d 2x 22550 4.4 998 4.5 778

6/07 361d 2x 21590 4.5 971 3.6 786

4th Dam: KRUSES JETWAY FLOWER ET 894778

5/01 "2E90" V89 E92 E90 V85 E92 (3/05)

4/10 365d 3x 25100 3.9 967 3.3 832

2

Riedland Carter Freesia ETV 840003146077287

Born: 9/9/17
Abnormalities:Tattoo: 22128
Haplotypes:

Parent Average:

PPR: +75 PTAT: +1.4 (4/18)

PA: +450m +23f +13p +148NM\$

Maternal sister to:**RIEDLAND LEBRON FLORAL "E92/93MS"**

4/00 365d 3x 32080 4.1 1328 3.7 1176

1st 4 Year Old, Indiana State Fair, 2017

5th Dam: KRUSES GK JADE FANTASY VIX ET 789702

13/01 "4E94" E94 E90 E94 E90 E94 (5/02)

"Superior Brood Cow"

6/02 365d 2x 26400 4.7 1242 3.9 1028

8/05 365d 2x 25700 4.4 1134 3.6 915

All American Spring Yearling Heifer, 1990

All American 4 Yr. Old, 1993

All American Aged Cow, 1995

Grand Champion, Central National, 1993 & 1995

6th Dam: KRUSES BEAUTICIAN VIXIE *TA 644583

14/11 "5E" E E E E (3/92)

"Superior Brood Cow"

6/04 357d 2x 18680 4.6 857 3.3 617

All American 2 Year Old, 1980; 3 Year Old, 1981

Grand Champion, Madison, 1980, 1981

7th Dam: KRUSES STRETCHED VICKIE 607200 "2E"

4/03 317d 2x 17540 4.0 702

Nominated All American 2 Year Old, 1976

Consigned by
Daniel R. and Angie Rieder
Monroe, Wisconsin
608/214-3390**VOELKERS TD CARTER *TM 68119645**

Abnormalities: *TM PT DT MT WT Haplotypes: BH1T BH2T

"Not Classified" "Superior Sire"

MACE:

PPR: +111 92%R PTAT: +1.4 95%R (4/18)

PTA: +1183m +38f +28p +196NM\$ 97%R

391 daus. avg. 25619 4.0 1037 3.3 843

259 class. daus. avg.:

FS: 84.7 UDC: +1.10 FLC: +0.31

RIEDLAND FAUST FLOWER 65365740

Abnormalities: Haplotypes:

5/03 "2E91" E92 E90 E91 E90 E92 (8/14)

2/01 365d 3x 24060 4.1 987 3.6 860

3/03 292d 3x 19210 4.5 871 3.8 729

4/04 365d 3x 31460 4.3 1343 3.5 1102

6/00 365d 3x 21550 3.9 845 3.6 782

WEBSTER RIDGE TD ET *TM 193164

"Not Classified" MACE

PPR: +46 96%R PTAT: +0.2 97%R (4/18)

PTA: +15m +13f -6p +197NM\$ 98%R

VOELKERS WDRNT CARABELLA 68101970

4/00 "E90" E92 E91 E90 E91 V88 (1/12)

2/03 364d 2x 20600 4.7 972 3.6 741

3/04 334d 2x 22510 4.2 951 3.3 741

4/05 365d 2x 32300 4.2 1368 3.4 1106

RIEDLAND CAMELOT FAUST ET *TM

"E90" GEN

PPR: +13 93%R PTAT: +1.0 96%R (4/18)

PTA: -444m +6f -11p +40NM\$ 97%R

RIEDLAND DENMARK FLOSSIE ET 955403

3/07 "E90" E91 V88 E93 E90 V89 (6/10)

2/06 296d 3x 16630 4.2 695 3.4 563

3/06 365d 3x 30170 3.6 1086 3.3 1006

3rd Dam:**KRUSES JETWAY FLOWER ET 894778**

5/01 "2E90" V89 E92 E90 V85 E92 (3/05)

4/10 365d 3x 25100 3.9 967 3.3 832

#3

Coredale Winmore Peach Pie 840003013495205

Appendix C

Born: 6/22/16 Tattoo: T9
Abnormalities: Haplotypes:

3rd Summer Yearling, Eastern National, 2017

4th Dam: TOWPATH PRE PONDER 906739

6/01 "2E90" E90 E92 E90 E91 E90 (9/07)
4/05 305d 2x 23850 3.4 819 3.2 773
5/07 293d 2x 24600 3.9 964 3.3 824

5th Dam: TOWPATH AYTOLA PRECIOUS ET 851595

9/08 "2E90" E90 E92 E90 E91 E90 (9/04)
6/07 365d 2x 33320 3.9 1286 3.3 1084
7/11 365d 2x 31530 3.8 1197 3.2 1009

6th Dam: TOWPATH ELEGANT PAT 690069

9/08 "3E90" E E E V (10/90)
6/11 305d 2x 20130 4.2 843 3.4 693
8/00 317d 2x 19310 4.3 829 3.6 688

7th Dam: VINE VALLEY PAUL PATSY (TN) 569721

15/03 "5E" E E E E (5/86)
10/00 347d 2x 20130 4.1 825
11/00 365d 2x 20800 4.1 858 3.7 763

8th Dam: VINE VALLEY A. SUN LOIS

"5E - Superior Brood Cow"
9/00 357d 2x 21200 3.9 832
Lifetime: 4546d 177,410m 7666f

Dam of All American Produce, 1974

9th Dam: VINE VALLEY GENERAL'S LISA

"3E - Superior Brood Cow"
6/09 356d 2x 21680 4.1 877

10th Dam: COXING CLOVE IMPERIAL DONNA

"VG - Superior Brood Cow"

Consigned by
Amanda (Thompson) Stewart
Dover, Pennsylvania
717/487-0501

TOP ACRES WINMORE ET 68154881

Abnormalities: PT DT MT WT Haplotypes: BH1C BH2T
"Not Classified"
GEN:

PPR: -49 69%R PTAT: +0.5 70%R (4/18)
PTA: -667m +4f -22p -141NM\$ 77%R
18 daus. avg. 21048 4.3 908 3.4 709

COREDALE WHISKEY PEACHES

840003013495198

Abnormalities: Haplotypes:
3/02 "E90" V88 E91 E91 V88 E90 (6/17)

2nd Spring Yearling, Eastern BS Show, 2015
4th Spring Yearling, Eastern National, 2015
6th Spring Yearling, Southeast National, 2015

MORT LEGACY BONANZA *TM 197225

"Not Classified" GEN
PPR: -92 94%R PTAT: +0.3 96%R (4/18)
PTA: -820m -23f -27p -302NM\$ 97%R

TOP ACRES ANDRE WHISPER ET 938574

6/02 "2E93" E90 E95 E92 E93 E93 (2/11)
2/04 365d 2x 21220 4.9 1040 3.4 729
5/07 365d 2x 32941 5.8 1921 3.6 1174

MANIS GLENN WHISKEY ET *TM 68133750

"Not Classified" "Qualified Sire" MACE
PPR: +79 88%R PTAT: +0.7 93%R (4/18)
PTA: +915m +9f +30p +109NM\$ 94%R

SHEN-VAL CHAMP PATSY 68132396

3/10 "E90" E90 E91 V87 E90 E90 (7/14)
2/04 365d 2x 23860 3.4 802 3.6 863
3/08 365d 2x 32390 3.4 1087 3.6 1154
1st Summer Yearling, Maryland State Show, 2011

3rd Dam: TOWPATH INTEL PARADE 947387

5/06 "V88" E90 V88 E95 E90 V85 (7/11)
3/04 305d 2x 28960 3.3 944 3.4 998
4/06 345d 2x 29770 2.8 830 3.6 1063

#4

Wapsi-Ana Moon-L Freeme 68189845

Born: 6/25/17 Tattoo: 2417
Abnormalities: Haplotypes:

Parent Average:
PPR: +51 PTAT: +0.9 (4/18)
PA: +311m +10f +14p 96%NM\$

3rd Dam: VINRA ENSIGN FLORA ET 925817

2/03 "V85" V85 +82 +83 V85 V88 (1/06)
1/11 365d 2x 22860 3.7 835 3.2 730

4th Dam: VINRA TRADITION FONDNESS 821710

9/08 "3E" E93 E90 E94 E90 V88 (4/02)
5/02 365d 2x 34820 3.2 1123 3.4 1174
7/09 357d 2x 31940 3.5 1132 3.2 1029

5th Dam: VINRA BUSTER FLORA 738507

7/07 "V86" + V V V (11/92)
3/04 365d 3x 30190 4.0 1207 3.6 1082
4/11 365d 2x 31800 3.9 1249 3.5 1125

Consigned by
Doug and Jody Fairbanks
Anamosa, Iowa
319/480-2484

LA RAINBOW B MOONLIGHT ET *TM

68161115

Abnormalities: *TM PT DT MT WT Haplotypes: BH1T BH2T
"Not Classified"
GEN:

PPR: +85 61%R PTAT: +1.1 65%R (4/18)
PTA: +776m +26f +22p +182NM\$ 65%R

WAPSI-ANA G RUSH FREEDOM 68157460

Abnormalities: Haplotypes:
5/01 "V87" E90 V87 E90 V88 +84 (1/18)
3/06 320d 3x 29290 4.3 1257 3.7 1080
4/06 231d 3x 23610 3.9 918 3.7 870

HILLTOP ACRES W DURHAM ET *TM 68135214

"Not Classified" MACE
PPR: +36 92%R PTAT: +1.2 94%R (4/18)
PTA: +41m +26f +13p +77NM\$ 97%R

LA RAINBOW BFLY SUNLIGHT ETV 68139729

3/09 "V85" V85 V86 V85 +83 V85 (12/15)
2/00 365d 2x 17870 4.4 779 3.6 648

TOP ACRES GOLDRUSH ET *TM 68126785

"Not Classified" GEN
PPR: -5 85%R PTAT: +0.7 87%R (4/18)
PTA: +250m -2f +5p -106NM\$ 92%R

VINRA ZEUS FREDONIA ET 68111441

2/11 "V86" V86 +84 V85 V85 V87 (2/12)
2/04 365d 3x 26510 4.5 1186 3.4 894

BOURBON

29HO17944 WA-DEL ABS BOURBON-ET

Appendix D



PEDIGREE :

MONTROSS x MASSEY x SUPER

SIRE: BACON-HILL MONTROSS-ET

DAM: WA-DEL MASSEY BELINDA-ET

MGS: CO-OP BOSSIDE MASSEY-ET

MGD: WA-DEL SUPER BATHSHEBA-ET

MGGs: CHARLESDALE SUPERSTITION-ET

REAL WORLD DATA :

Bull Fertility: ★★★ 20244 Obs

TransitionRight: ★★★★★

Reg. NO: 003014558977 | **100%** | **EFI:** 7.4%

Born: 11/29/2014 | **aAa:** 351 | **DMS:** 345,135

Kappa Casein: AA | **Beta Casein:** A2/A2

CDCB, Official Breed Assoc Data, 8/2018

Controller: ABS Global



Dam: Wa-Del Massey Belinda-ET VG-85

PRODUCTION

Dtrs: 0 | **Herds:** 0 | **NM\$:** +722 | **TPI®:** +2645

Milk	+2116 lbs	80% Rel
Protein	+67 lbs	+0.01%
Fat	+65 lbs	-0.05%
Cheese Merit \$	+733	
Grazing Merit \$	+718	
Fluid Merit \$	+703	

HEALTH & FERTILITY

Productive Life	+4.1	77% Rel
Livability	-0.2	71% Rel
Daughter Pregnancy Rate	+2.7	75% Rel
Somatic Cell Score	2.78	78% Rel
Heifer Conception Rate	+2.0	73% Rel
Cow Conception Rate	+3.7	75% Rel

Recessives and Haplotypes

HH1T, HH2T, HH3T, HH4T, HH5C, TC, TD, TL, TN, TV, TY

CALVING TRAITS

Sire Calving Ease	6.9%	99% Rel	6939 Obs
Daughter Calving Ease	4.7%	76% Rel	
Sire Stillbirths	7.0%	97% Rel	6218 Obs
Daughter Stillbirths	5.8%	72% Rel	

CONFORMATION

Dtrs: 0 | **Herds:** 0 | **Rel:** 80%

Type	-2	-1	0	1	2		
Udder Composite						2.05	
Feet & Legs Composite						1.93	
Body Composite						1.26	
Stature						0.82	Tall
Strength						1.47	Strong
Body Depth						1.12	Deep
Angularity						1.29	Open
Rump Angle						-0.24	High Pins
Thurl Width						0.53	Wide
Rear Legs-Side View						-1.30	Straight
Rear Legs-Rear View						1.53	Straight
Foot Angle						1.37	Steep
Feet & Legs Score						1.22	High
Fore Udder Attachment						2.23	Strong
Rear Udder Height						3.02	High
Rear Udder Width						2.78	Wide
Udder Cleft						0.94	Strong
Udder Depth						0.75	Shallow
Front Teat Placement						0.81	Close
Rear Teat Placement						0.48	Close
Teat Length						-0.10	Short

MIXER

29HO18405 ABS MIXER-ET

Appendix D



PEDIGREE :

TRENTON x BALISTO x O-STYLE

SIRE: S-S-I STERLING TRENTON-ET

DAM: BACON-HILL BALISTO MOLLY-ET

MGS: DE-SU 11236 BALISTO-ET

MGD: BACON-HILL OSTYL MONIQUE-ET

MGGs: CO-OP O-STYLE OMAN JUST-ET

REAL WORLD DATA :

Bull Fertility: ★★ 4466 Obs

TransitionRight: ★★★★★

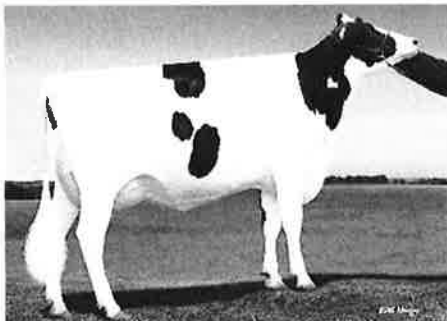
Reg. NO: 003128557644 | **99%** | **EFI:** 7.9%

Born: 02/20/2016 | **aAa:** 423 | **DMS:**

Kappa Casein: BB | **Beta Casein:** A1/A2

CDCB, Official Breed Assoc Data, 8/2018

Controller: ABS Global



Dam: Bacon-Hill Balisto Molly-ET VG-85

PRODUCTION

Dtrs: 0 | **Herds:** 0 | **NM\$:** +842 | **TPI®:** +2695

Milk	+696 lbs	79% Rel
Protein	+55 lbs	+0.12%
Fat	+66 lbs	+0.14%
Cheese Merit \$	+904	
Grazing Merit \$	+804	
Fluid Merit \$	+713	

HEALTH & FERTILITY

Productive Life	+7.6	74% Rel
Livability	+4.4	67% Rel
Daughter Pregnancy Rate	+2.6	74% Rel
Somatic Cell Score	2.71	77% Rel
Heifer Conception Rate	+3.2	68% Rel
Cow Conception Rate	+4.3	74% Rel

Recessives and Haplotypes

HH1T, HH2T, HH3T, HH4T, HH5T, TC, TD, TL, TN, TY

CALVING TRAITS

Sire Calving Ease	7.9%	94% Rel	562 Obs
Daughter Calving Ease	5.1%	67% Rel	
Sire Stillbirths	7.2%	87% Rel	656 Obs
Daughter Stillbirths	5.3%	62% Rel	

CONFORMATION

Dtrs: 0 | **Herds:** 0 | **Rel:** 78%

	-2	-1	0	1	2		
Type						1.63	
Udder Composite						1.79	
Feet & Legs Composite						1.75	
Body Composite						-0.20	
Stature						0.15	Tall
Strength						0.12	Strong
Body Depth						-0.13	Shallow
Angularity						0.90	Open
Rump Angle						-1.25	High Pins
Thurl Width						0.66	Wide
Rear Legs-Side View						0.22	Curved
Rear Legs-Rear View						1.55	Straight
Foot Angle						1.32	Steep
Feet & Legs Score						1.68	High
Fore Udder Attachment						2.06	Strong
Rear Udder Height						2.24	High
Rear Udder Width						2.06	Wide
Udder Cleft						0.68	Strong
Udder Depth						1.25	Shallow
Front Teat Placement						0.78	Close
Rear Teat Placement						0.89	Close
Teat Length						-0.32	Short

TORQUE

29HO18634 BUSH-BROS TORQUE-ET

Appendix D



PEDIGREE :

SKYFALL x FAIRFAX x SUPERSIRE

SIRE: DE-SU 12693 SKYFALL-ET

DAM: BUSH-BROS FAIRFAX 5290

MGS: BUSH-BROS MOG FAIRFAX-ET

MGD: BUSH-BROS SUPERSIRE 4624-ET

MGGS: SEAGULL-BAY SUPERSIRE-ET

REAL WORLD DATA :

TransitionRight: ★★★★★

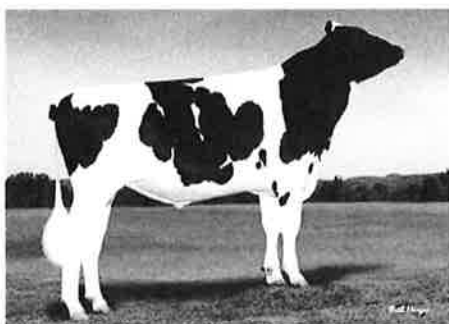
Reg. NO: 3135669665 | **98%** | **EFI:** 7.9%

Born: 09/24/2016 | **aAa:** 432 | **DMS:**

Kappa Casein: BE | **Beta Casein:** A1/A2

CDCB, Official Breed Assoc Data,
8/2018

Controller: ABS Global



bull: 29HO18634 Bush-Bros TORQUE-ET

PRODUCTION

Dtrs: 0 | **Herds:** 0 | **NM\$:** +953 | **TPI®:** +2714

Milk	+1303 lbs	77% Rel
Protein	+49 lbs	+0.03%
Fat	+92 lbs	+0.15%
Cheese Merit \$	+981	
Grazing Merit \$	+903	
Fluid Merit \$	+903	

HEALTH & FERTILITY

Productive Life	+7.9	72% Rel
Livability	+4.6	65% Rel
Daughter Pregnancy Rate	+2.8	71% Rel
Somatic Cell Score	2.49	74% Rel
Heifer Conception Rate	+1.8	65% Rel
Cow Conception Rate	+4.0	70% Rel

Recessives and Haplotypes

HH1T, HH2T, HH3T, HH4T, HH5T, TC, TD, TL, TN, TR, TV, TY

CALVING TRAITS

Sire Calving Ease	7.2%	62% Rel	0 Obs
Daughter Calving Ease	3.0%	55% Rel	
Sire Stillbirths	6.5%	58% Rel	
Daughter Stillbirths	3.0%	53% Rel	

CONFORMATION

Dtrs: 0 | **Herds:** 0 | **Rel:** 73%

	-2	-1	0	1	2		
Type						0.67	
Udder Composite						1.14	
Feet & Legs Composite						0.69	
Body Composite						-0.53	
Stature						0.18	Tall
Strength						-0.66	Frail
Body Depth						-1.00	Shallow
Angularity						-0.12	Tight
Rump Angle						0.66	Sloped
Thurl Width						-0.40	Narrow
Rear Legs-Side View						-0.67	Straight
Rear Legs-Rear View						0.42	Straight
Foot Angle						0.43	Steep
Feet & Legs Score						0.75	High
Fore Udder Attachment						1.17	Strong
Rear Udder Height						1.36	High
Rear Udder Width						1.25	Wide
Udder Cleft						0.45	Strong
Udder Depth						1.59	Shallow
Front Teat Placement						0.33	Close
Rear Teat Placement						0.07	Close
Teat Length						-1.16	Short

YODA

29HO18545 CAL-ROY-AL YODA-ET

Appendix D



PEDIGREE :

JEDI x YODER x HEADLINER

SIRE: S-S-I MONTROSS JEDI-ET

DAM: CAL-ROY-AL JENNIE 4713-ET

MGS: WOODCREST MOGUL YODER-ET

MGD: HOL-STAR LINER TEROKA-ET

MGGS: SEAGULL-BAY HEADLINER-ET



REAL WORLD DATA :

TransitionRight: ★★ ★★

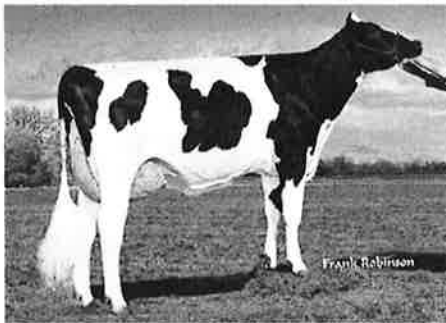
Reg. NO: 003138277108 | 99% | EFI: 8.1%

Born: 09/09/2016 | aAa: 213 | DMS: 345,135

Kappa Casein: BB | Beta Casein: A1/A2

CDCB, Official Breed Assoc Data, 8/2018

Controller: ABS Global



dam: Cal-Roy-Al Jennie 4713-ET VG-86

PRODUCTION

Dtrs: 0 | Herds: 0 | NM\$: +953 | TPI®: +2826

Milk	+2022 lbs	79% Rel
Protein	+75 lbs	+0.05%
Fat	+96 lbs	+0.07%
Cheese Merit \$	+981	
Grazing Merit \$	+888	
Fluid Merit \$	+896	

HEALTH & FERTILITY

Productive Life	+6.3	73% Rel
Livability	+1.4	66% Rel
Daughter Pregnancy Rate	+1.5	73% Rel
Somatic Cell Score	2.78	77% Rel
Heifer Conception Rate	+0.8	70% Rel
Cow Conception Rate	+3.5	72% Rel

Recessives and Haplotypes

HH1T, HH2T, HH3T, HH4T, HH5C, TC, TD, TL, TN, TR, TV, TY

CALVING TRAITS

Sire Calving Ease	7.9%	74% Rel	74 Obs
Daughter Calving Ease	4.4%	67% Rel	
Sire Stillbirths	7.0%	64% Rel	72 Obs
Daughter Stillbirths	4.0%	62% Rel	

CONFORMATION

Dtrs: 0 | Herds: 0 | Rel: 78%

	-2	-1	0	1	2		
Type						2.10	
Udder Composite						2.17	
Feet & Legs Composite						1.03	
Body Composite						0.44	
Stature						1.10	Tall
Strength						1.00	Strong
Body Depth						0.76	Deep
Angularity						1.49	Open
Rump Angle						0.13	Sloped
Thurl Width						0.62	Wide
Rear Legs-Side View						-1.70	Straight
Rear Legs-Rear View						1.27	Straight
Foot Angle						1.27	Steep
Feet & Legs Score						1.10	High
Fore Udder Attachment						2.30	Strong
Rear Udder Height						3.48	High
Rear Udder Width						3.20	Wide
Udder Cleft						0.47	Strong
Udder Depth						1.48	Shallow
Front Teat Placement						0.09	Close
Rear Teat Placement						0.17	Close
Teat Length						-0.18	Short

Appendix E

COW PAGE Test Date: 08-15-2018 42-77-0074 String
 DHI-103 Processed: 08-17-2018 IO STATE DAIRY 1

Barn Name		Index	
10152		10152	
Breed	Country	Birth Date	Body Wt.
HO	USA	09-01-14	1330
Identification		Inbrd. Coef.	DCR Milk
72753173		5.6	
98400001156145			

Predicted Transmitting Ability		Estimated Relative Producing Ability	
Milk	%Fat	%Rel	%Rank
+803	-07	+332	52
%Pro	+02	+30	-65
	+10		+21
			+13

Site		HAMMER-CREEK OB KEYBOARD-ET	
Breed	Country	AI Code / Name	Inbrd
HO	USA	501HO10814	5.5
Identification		KEYBRD*CD	
69708807			
Milk	%Fat	Pro	%Rel
+1208	-21	+35	99
%Pro	-01	+35	31

Test Day Data		Lact No.		Calving Date	
DIM	32	67	109	144	179
Milk	114	111	79	92	81
Fat %	3.5	3.4	2.6	2.8	2.8
Pro %	2.7	3.3	3.3	3.3	3.3
SCC	81	15	174	214	2599

Dams		71588986		9362	
Breed	Country	Identification	Barn Name / Index	Inbrd	
HO	USA	98400001156168		4.8	
Identification					
71588986					
Milk	%Fat	Pro	%Rel	%Rank	
-79	+23	+19	82	86	

MGS		BOMAZ ALTAPHONIC-ET		11HO10997	
Breed	Country	Identification	AI Code / Name	Inbrd	
HO	USA	68886414	PHONIC	5.2	
Identification					
68886414					
Milk	%Fat	Pro	%Rel	%Rank	
+1044	+14	+49	99	54	

Lact No.	Test Plan	Calving Date	Age at Calving	Days Dry	Days Open	NO. BR.	305 Day Lactation			Days 3X	Complete Lactation			ME Lactation			Herdmate Deviation							
							Milk	% Fat	% Pro		DIM	Milk	Fat %	Pro %	Milk	Fat	Pro	Milk	Fat	Pro				
1	2	09-30-16	2-00	66	76	1	24,167	3.2	767	3.2	778	283	25,351	3.1	786	3.1	790	30,484	933	921	+4889	-19	+117	
2	2	09-24-17	3-00	68	113	1	24,167	3.2	767	3.2	778	283	24,664	3.2	788	3.2	796	25,373	803	793	-2160	-175	-55	
							100	71			609	50,015	3.1	1574	3.2	1566	868	857	+1365	-97	+31	Averages		

LIFETIME		Number of Lactations	Reproductive Efficiency	Average Milk/Day
		2	100	71
* Dry thru Test Date: 08-15-18				
Dried on 08-08-18				
Number of Breedings = 2				
Last Bred 01-15-18 To 734HO0082 HO Preg				
Prev Bred 12-04-17 To 1HO11985 HO				
Barn Name	10152	Index Number	10152	Identification
				72753173
		Barn Name		10152
		Index		10152

COW PAGE
DHL-103

Test Date: 08-15-2018
Processed: 08-17-2018

42-77-0074
IO STATE DAIRY

String
1

Appendix E

COOP MOGUL LAWMAN-ET

Barn Name		Index		10680	
Breed	Country	Identification	Birth Date	Body Wt.	Inbrd. Coef.
HO	USA	74087350	11-21-15	1210	5.6
		984000001156501			

Predicted Transmitting Ability						Estimated Relative Producing Ability					
Milk	%Fat	%Pro	\$	%Rel	%Rank	Milk	Fat	Pro	\$		
+990	+00	+03	+401	81	86	-1816	-26	-31	-402		

Test Day Data												
					Lact No.	1	Calving Date					10-03-17
DIM	23	58	100	135	170	212	247	283				
Milk	61	70	66	73	73	74	67	55				
Fat %	4.3	4.0	3.9	3.8	3.8	2.9	4.0	4.9				
Pro %	3.6	3.3	3.3	3.3	3.3	3.3	3.1	3.2				
SCC	3200	57	35	66	54	200	93	100				

Breed		Country	Identification		Barn Name / Index		Inbrd
HO	USA	71451889	1HO11545	LAWMAN	8203		7.9
Milk	%Fat	%Pro	Fat	Pro	\$	%Rel	%Rank
+1281	+05	+61	+08	+61	+612	99	69

Breed		Country	Identification		Barn Name / Index		Inbrd
HO	USA	65928071	984000001156160		8203		5.6
Milk	%Fat	%Pro	Fat	Pro	\$	%Rel	%Rank
-82	+03	+6	+02	+2	+148	84	42

Breed		Country	Identification		Barn Name / Index		Inbrd
HO	USA	132135953	11HO07871	RUFFIAN			3.8
Milk	%Fat	%Pro	Fat	Pro	\$	%Rel	%Rank
+1016	-04	+26	-01	+27	+152	99	16

Lact No.	Test Plan	Calving Date	Age at Calving	Days Open	NO. BR.	305 Day Lactation			Days 3X	Complete Lactation			ME Lactation			Herdmate Deviation		
						Milk	Fat	%		Milk	Fat	Pro	Pro %	Fat	Pro	CAR	Milk	Fat
1	2	10-03-17	1-10	76	1	303	20,223	3.9	791	3.3	672	23,926	930	789	-3631	-51	-61	
						303	20,223	3.9	791	3.3	672	23,926	930	789	-3631	-51	-61	
LIFETIME						109	67	Totals			Averages							

* Dry thru Test Date: 08-15-18
Dried on 08-02-18
Number of Breedings = 1
Last Bred 12-18-17 To 1HO13323 HO Preg

Barn Name
10680
Index
10680

Barn Name

10680

Index Number

10680

Identification

74087350

2018 Iowa FFA Dairy Cattle Evaluation CDE Key

Test Key

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

DHIA Questions

26. D
27. D
28. D
29. A
30. B

Dairy Management

31. A
32. B
33. B
34. A
35. C

Sire Evaluation Questions

36. D
37. B
38. B
39. A
40. B

Pedigree Evaluation

41. C
42. A
43. C
44. B
45. A

46. Phase E Pedigree Placing

Placing 2 - 4 - 1 - 3

Cuts 2- 5- 3

- 2- Highest Sire NM\$ (196)
4 Consecutive records
- 4- Sire NM\$ (182)
No 2 year old dam record
Similar production with #2
- 1- High sire NM\$(196)
Incomplete 2 year old record low
- 3- Lowest sire NM\$ (-141)
No dam production records
Does have positive show ring winners

47. Phase F Sire Selection

Placing 4 - 2 - 3 - 1

Cuts 5 - 2 - 3

- 4- Highest TPI (2826)
Highest combined fat & protein
Strong mammary & feet/leg scores
- 2- Similar TPI (2693) to #3
High PL (7.9)
- 3- Similar TPI to #2
Bit higher in combined fat & protein
Lacks in several conformation traits
(strength, body depth, thurl width, leg set)
- 1- Lowest PL (4.1)
Higher milk
Negative rear leg score

48. Phase G Culling

Placing 1 - 4 - 3 - 2

Cuts 2 - 4 - 3

- 1- Mastitis -High SCC
Second lactation records - lower
Low Rep Eff (100)
- 4- Lowest herdmate deviations - production
Some high SCC
Higher Rep Eff (109)
- 3- High SCC - Mastitis late in lactation
Rep Eff (106)
High milk protein
- 2- Low SCC
High Rep Eff 106
Production increase 2nd lactation