

**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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# Appendix A

## Identification And Genetics (Genetic Data Source: CDCB)

Age Group	Number 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	+369					
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											

## Production By Lactation Summary

Lact.	Number of Cows	Avg. Age (Mo)	Peak Milk			Summit Milk			Proj 305 Day ME			Difference From Herdmates			Avg Body Wt.			% Cows SCC Score		
			175	22	96	91	27252	994	831	+1047	+55	+28	1210	0.1,2,3	4	5	6	7,8,9		
			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	Over 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				
% Identified (Producing Females): 100 99 No. Heifers Age Over 30 Months: 100 99																				

## 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	406	59	5	182	16	496	106	447	114	17	111	111	40	1	40	5

46 % Left Herd For Involuntary Reasons

## Yearly Summary Of Cows Entered And Left The Herd

Test Date	Days In Test Period	Number Cows In Herd On Test Day	Test Day Averages (Milk)		Test Period Persist. Index	150 Day Milk		Test Day Averages (All Cows)		Rolling Yearly Herd Average	Somatic Cell Count Summary			Number Left Herd								
			DIM	Milk		% In Milk	% Fat	% Pro	0.1,2,3		4	5	6	MUN	Died	Sold						
9-20-17	35	411	192	76.6	100	85.2	65.8	3.7	3.1	25373	940	804	71	10	6	4	9	2.6	366	12.1	1	11
10-25-17	35	408	200	74.1	100	84.3	66.0	3.7	3.2	25345	939	806	72	9	7	5	8	2.7	326	12.8	6	10
11-29-17	35	410	186	79.9	107	88.3	70.4	3.5	3.2	25354	939	807	73	11	5	5	7	2.5	309	10.3	5	19
1-10-18	42	416	174	78.6	97	87.7	68.5	3.6	3.3	25365	937	808	79	8	3	4	6	2.3	208	10.9	1	15
2-14-18	35	422	165	80.5	100	86	69.3	3.6	3.3	25439	937	811	69	9	9	6	7	2.8	279	10.2	4	11
3-21-18	35	410	157	88.8	109	92.7	78.8	3.8	3.2	25606	941	817	72	10	7	4	7	2.6	271	8.2	4	16
5-02-18	42	386	159	88.5	99	91.7	82.6	3.7	3.1	25814	949	823	72	8	8	4	9	2.6	353	9.5	8	30
6-06-18	35	375	176	92.8	104	91	84.6	3.3	3.0	26175	955	831	80	8	3	6	3	2.2	162	10.1	4	28
7-12-18	36	380	178	85.8	95	90	77.1	3.7	3.0	26466	959	836	77	10	5	3	5	2.3	216	11.6	3	17
8-15-18	34	378	169	84.9	102	93.1	86.4	3.5	3.0	26693	967	839	72	9	7	5	7	2.7	323	12.3	3	15
Averages	36	399	174	84.0	101	89	75.0	3.6	3.1	26996	975	846	75	8	6	5	6	2.4	294	11.5	5	29

Test Period Avg. Milk Lbs Added 75.8 Dropped 66.8

## Somatic Cell Summary

Lact.	Number of Cows	Avg. Age (Mo)	Peak Milk			Summit Milk			Proj 305 Day ME			Difference From Herdmates			Avg Body Wt.			% Cows SCC Score		
			175	22	96	91	27252	994	831	+1047	+55	+28	1210	0.1,2,3	4	5	6	7,8,9		
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				

## Production By Lactation Summary

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			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	Over 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				

## 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	406	59	5	182	16	496	106	447	114	17	111	111	40	1	40	5

46 % Left Herd For Involuntary Reasons

## Yearly Summary Of Cows Entered And Left The Herd

Test Date	Days In Test Period	Number Cows In Herd On Test Day	Test Day Averages (Milk)		Test Period Persist. Index	150 Day Milk		Test Day Averages (All Cows)		Rolling Yearly Herd Average	Somatic Cell Count Summary			Number Left Herd								
			DIM	Milk		% In Milk	% Fat	% Pro	0.1,2,3		4	5	6	MUN	Died	Sold						
9-20-17	35	411	192	76.6	100	85.2	65.8	3.7	3.1	25373	940	804	71	10	6	4	9	2.6	366	12.1	1	11
10-25-17	35	408	200	74.1	100	84.3	66.0	3.7	3.2	25345	939	806	72	9	7	5	8	2.7	326	12.8	6	10
11-29-17	35	410	186	79.9	107	88.3	70.4	3.5	3.2	25354	939	807	73	11	5	5	7	2.5	309	10.3	5	19
1-10-18	42	416	174	78.6	97	87.7	68.5	3.6	3.3	25365	937	808	79	8	3	4	6	2.3	208	10.9	1	15
2-14-18	35	422	165	80.5	100	86	69.3	3.6	3.3	25439	937	811	69	9	9	6	7	2.8	279	10.2	4	11
3-21-18	35	410	157	88.8	109	92.7	78.8	3.8	3.2	25606	941	817	72	10	7	4	7	2.6	271	8.2	4	16
5-02-18	42	386	159	88.5	99	91.7	82.6	3.7	3.1	25814	949	823	72	8	8	4	9	2.6	353	9.5	8	30
6-06-18	35	375	176	92.8	104	91	84.6	3.3	3.0	26175	955	831	80	8	3	6	3	2.2	162	10.1	4	28
7-12-18	36	380	178	85.8	95	90	77.1	3.7	3.0	26466	959	836	77	10	5	3	5	2.3	216	11.6	3	17
8-15-18	34	378	169	84.9	102	93.1	86.4	3.5	3.0	26693	967	839	72	9	7	5	7	2.7	323	12.3	3	15
Averages	36	399	174	84.0	101	89	75.0	3.6	3.1	26996	975	846	75	8	6	5	6	2.4	294	11.5	5	29

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 &amp; 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 &amp; 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

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

### HEALTH & FERTILITY

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

### Recessives and Haplotypes

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

### CALVING TRAITS

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

### CONFORMATION

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

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

# 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:** ★★★★★

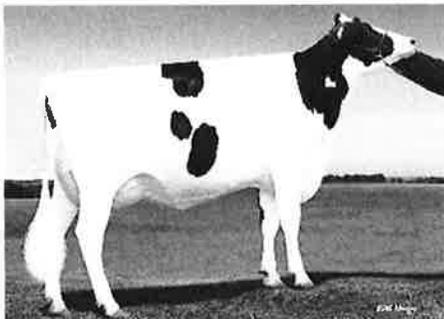
**Reg. NO:** 003128557644 | **99%** | **EFI:** 7.9%

**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

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

### HEALTH & FERTILITY

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

### Recessives and Haplotypes

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

### CALVING TRAITS

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

### CONFORMATION

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

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

# 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: ★★★★★

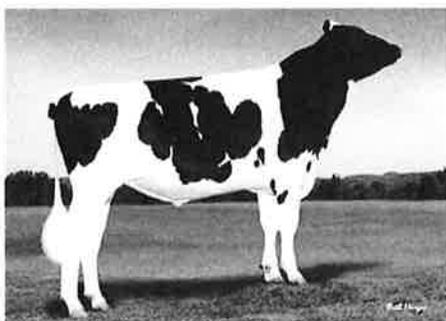
Reg. NO: 3135669665 | 98% | EFI: 7.9%

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: ★★ ★★

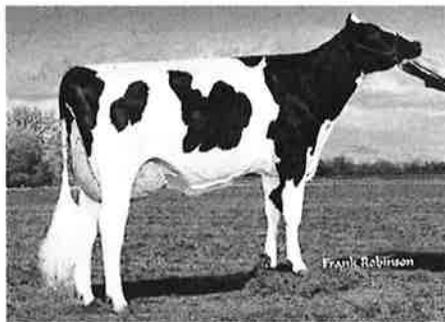
**Reg. NO:** 003138277108 | **99%** | **EFI:** 8.1%

**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

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

### HEALTH & FERTILITY

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

### Recessives and Haplotypes

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

### CALVING TRAITS

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

### CONFORMATION

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

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







**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	
<b>10680</b>		<b>10680</b>	
Breed	Country	Birth Date	Body Wt.
HO	USA	11-21-15	1210
Identification		Inbrd. Coef.	DCR Milk
74087350		5.6	
984000001156501			

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

Test Day Data		Lact No.	1	Calving Date	10-03-17
DIM	23	58	100	135	170
Milk	61	70	66	73	73
Fat %	4.3	4.0	3.9	3.8	3.8
Pro %	3.6	3.3	3.3	3.3	3.3
SCC	3200	57	35	66	54

Breed	Country	Identification	AI Code / Name	Inbrd
HO	USA	71451889	1HO11545 LAWMAN	7.9
Milk	%Fat	Fat	%Pro	%Rel
+1281	+05	+61	+08	+61
Pro				

Breed	Country	Identification	Barn Name / Index	Inbrd
HO	USA	65928071	8203	5.6
Milk	%Fat	Fat	%Pro	%Rel
-82	+03	+6	+02	+148
Pro				

Breed	Country	Identification	AI Code / Name	Inbrd
HO	USA	132135953	11HO07871 RUFFIAN	3.8
Milk	%Fat	Fat	%Pro	%Rel
+1016	-04	+26	-01	+27
Pro				

Lact No.	Test Plan	Calving Date	Age at Calving	Days Open			NO. BR.	305 Day Lactation			Days 3X	Complete Lactation			ME Lactation			Herdmate Deviation		
				Days Dry	Days Open	Pro		Milk	Fat	Pro		Pro %	Fat %	Milk	Fat	Pro	Pro %	Fat %	Milk	Fat
1	2	10-03-17	1-10	76	1	265	303	20,223	3.9	791	3.3	672	23,926	930	789	-3631	-51	-61		
				109	67	303	20,223	3.9	791	3.3	672	23,926	930	789	-3631	-51	-61			
LIFETIME				Number of Lactations			Reproductive Efficiency			Average Milk/Day			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	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