

2019 State Fair of Virginia Junior Dairywomen's Contest DHI Questions

Contestant Number _____ Name _____

Instructions: Use the DHI-202 Herd Summary to answer these 10 multiple-choice questions. Answers must be recorded on your Scantron sheet in the "Exam 2/Team" section. Each question is worth five (5) points for a total of 50 possible points.

1 What was the date of the test day for this summary?

- A. 09-29-2018 B. 07-26-2019 C. 09-02-2019 D. 09-06-2019

2 How many cows were in milk on test day?

- A. 177 B. 191 C. 217 D. 221

3 What is the average fat percent for cows in milk on test day?

- A. 3.5 B. 3.8 C. 4.0 D. 4.1

4 What is the average days open for first lactation cows?

- A. 112 days B. 113 days C. 117 days D. 124 days

5 What percent of first lactation cows have a calving difficulty score of 4-5?

- A. 2 B. 3 C. 5 D. 6

6 What is the average age at first calving in the herd?

- A. 23 months B. 24 months C. 37 months D. 42 months

7 What is the number one reason for cows leaving the herd?

- A.** Died **B.** Disease **C.** Reproduction **D.** Udder

8 What percent of cows left the herd this year?

- A. 33 B. 37 C. 43 D. 78

9 What is the average somatic cell count linear score for the current test day?

- A. 2.7 B. 2.8 C. 3.0 D. 3.5

10 How many 3+ lactation cows are in milk 306+ days?

- A. 5 B. 12 C. 74 D. 185

HERD SUMMARY

Test Date

09-02-2019

Samples at Lab

09-06-2019

Processed

09-06-2019

DHI-202

Non-Traditional

Breed

HO

Type Test

DHI-APCS

Assoc.

Supv.

String

Production, Income & Feed Cost Summary						
	Daily Average per Cow on Test Day			Rolling Yearly Herd Averages		
Total Cows	221			213.2		
Cows in Milk	Number	%		Number	%	
	191	86		187.6	88	
Milk Lbs (All Cows)	64.9			26939		
Fat Lbs (All Cows)	2.63			1065		
Fat %	4.1			4.0		
Protein Lbs (All Cows)	2.08			845		
Protein %	3.2			3.1		
Milk Lbs (Milking Cows)	75.4					
	Milking Cows	All Cows				
Silage	Lbs Consumed			Lbs Consumed	%ENE	
	88	79		29073		
Other Succulents or Blended Rations	Lbs Consumed			Lbs Consumed	%ENE	
Dry Forage	Lbs Consumed			Lbs Consumed	%ENE	
		2		564		
Other Feeds	Lbs Consumed			Lbs Consumed	%ENE	
	35	31		11542		
Pasture	NO	NO		Days	%ENE	
Concentrates	Lbs Consumed			Lbs Consumed	%ENE	
Value of Product \$	14.62	12.24		4781		
Cost of Concentrates \$						
Total Feed Cost \$	5.57	5.08		2071		
Income Over Feed Cost \$	9.05	7.16		2709		
Feed Cost per CWT Milk \$	7.38	7.83		7.69		
Milk Blend Price	Per CWT	% Fat	% Pro	Per CWT	% Fat	% Pro
	17.67	3.4		17.32	3.8	

Miscellaneous Herd Information						
	Shipped-Test Day Comparison			Milking Times	Wgh	Spl
	Test Day	Yearly Avg.				
Sum of Test Day Wts	14042	15567	1st	4:05am	N	N
Reported Avg. Daily Bulk Tank Wts	13421	14812	2nd	2:30pm	Y	Y
% Deviation	+4.6	+5.1	3rd			

Reproductive Summary Of Current Breeding Herd

Total Cows Breeding Herd	Voluntary Waiting Period (VWP)	Days to 1st Service	Cows With No Service Dates or Diag. Open			Cows Bred But Not Diag. Preg.			
			Open VWP to 100 Days	Open Over 100 Days	Number Diag. Open	Days Open at Last Service			
49	50	86	11	2	1	Under VWP	VWP to 100 Days	101 to 130 Days	Over 130 Days
							11	6	19
			22	4	2	% of Breeding Herd	22	12	39

Reproductive Summary Of Total Herd

	Days Open at 1st Service			Avg. Days to 1st Service	Services per Pregnancy		Projected Minimum		Service or Heat Interval		Services for Past 12 Months			
	Number Under VWP	Number VWP to 100	Number Over 100		Preg. Cows	All Cows	Calving Interval	Days Open	Interval Length	Number Intervals	Service Number	Number Services	Conception Rate	Service Sire Merit \$
1st Lact		59	8	78	1.8	2.4	12.9	113	< 18	3	1st	205	44	+585
2nd Lact		32	4	80	1.9	2.4	12.9	112	18 - 24	99	2nd	109	45	+559
3+ Lacts		49	12	82	2.0	2.5	13.3	124	36 - 48	43	3rd +	123	36	+680
All Lacts		140	24	79	1.9	2.4	13.0	117	Other	86	Total	437	42	+605
% of All 1st Services		85	15		Current Actual Calving Interval		12.7				Abortions	This Test		Past Year
Birth Summary														
											Actual			1
											Apparent	2		6

Birth Summary

Dam's Lact Num	Offspring Born									
	Males		Females		Calving Difficulty Score					
	Alive	Dead	Alive	Dead	1	2	3	4-5	%4-5	
1	45	2	36	3	71	3	7	5	6	
2+	77	10	72	5	143	1	9	2	1	
Total	122	12	108	8	214	4	16	7	3	

Cows To Be Milking, Dry, Calving By Month

	Oct	Nov	Dec	Jan	Feb	Mar
* Milking	190	195	190	217	229	222
Dry	44	40	46	25	17	28
Cows to Calve	14	28	16	26	20	5
Heifers to Calve	14	5	5	10	8	8

* Assumes 1.6% 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	67	12	8	34	2	18	115
9-29-18	59	28	13	36	4	31	95
10-25-18	63	24	15	34	5	12	89
11-29-18	73	41	29	63	12	31	82
12-28-18	66	62	37	37	13	37	72
1-25-19	58	48	25	25	22	34	71
2-22-19	67	64	42	42	24	18	78
3-28-19	62	40	19	45	17	13	89
4-26-19	68	54	31	48	26	4	113
5-31-19	55	54	28	37	16	9	126
6-28-19	56	32	13	19	28	11	147
7-26-19	48			15	15	14	150
9-02-19	57			30	7	34	127
Averages	61	45	23	36	16	21	103
Totals				431		248	

Remarks:

Identification And Genetics (Genetic Data Source: CDCB)

Age Group	Number Animals	Avg. Age (Yr-Mo)	Num. Ident. By		Number ID Changes	No. Animals with Merit \$	Average Merit \$		Herd Merit \$ Option	Genetic Profile of Service Sires			
			Sire	Dam			Animal	Sire		A.I. Progeny Tested	A.I. Genomic Tested	All Other A.I. Bulls	Non A.I. Bulls
0 - 12	119	0-07	118	119		119	+385	+588	NM				
13+	93	1-08	93	93		93	+330	+513					
Replacements	212	1-00	211	212		212	+360	+555	% of Herd Bred to	68	32		
1st Lact	79	2-00	79	79		64	+253	+366	Number of Bulls Used	18	8		DCR Milk 102
2nd Lact	53	3-01	53	53		53	+177	+282					
3+ Lacts	89	5-01	88	89		89	+158	+227	Average Merit \$	+555	+746	+0	
All Lacts	221	3-06	220	221		206	+193	+290	Avg. Percentile Rank (Net Merit)	57	85		
% Identified (Producing Females)			100	100	No. Heifers Age Over 30 Months								

Somatic Cell Summary

	Number of Cows	Avg. Age (Mo)	Peak Milk	Summit Milk	Proj 305 Day ME			Difference From Herdmates			Avg. Body Wt.	% Cows SCC Score				
												0,1,2,3	4	5	6	7,8,9
					Below 142,000	142,000 283,000	284,000 565,000	566,000 1.13 M	Over 1.13 M							
1st Lact	79	24	85	81	27614	1026	836	-216	-21	-5	1250	61	20	9	8	2
2nd Lact	53	37	105	103	29325	1128	877	+1362	+81	+33	1440	79	11	2	4	4
3+ Lacts	89	61	124	118	29066	1141	886	+1310	+84	+40	1540	54	16	15	11	4
All Lacts	221	42	104	100	28570	1094	865	+711	+41	+20	1410	63	16	10	8	3
Herd Production Lost From SCC This Test Period																
Milk			8710			Dollars (\$)			1539							

Yearly Summary Of Cows Entered And Left The Herd

Lact.	Number Dry Periods	Avg. Days Dry	Number Dry by Days			Cows Entered		Cows Left		Number of Cows Left the Herd									
			< 40	40-70	> 70	Num.	%	Num.	%	Dairy	Low Prod	Repro	Mast	Udder	Feet & Legs	Injury Other	Disease	Died	Not Rptd
1						91	43	27	13	2	1	4	2	12	2	3		1	
2	53	56	2	50	1			15	7	1	1	8			2	3			
3+	89	58	1	83	5			36	17			3	4	7	5	3	7	2	5
All	142	57	3	133	6	91	43	78	37	3	5	16	9	17	7	13	2	6	
Dairy and Mastitis Cows									33	% Left Herd For Involuntary Reasons									

Yearly Production And Mastitis Summary

Test Date	Days In Test Period	Number Cows In Herd On Test Day	Test Day Averages (Milking Cows)		150 Day Milk	Test Period Persist. Index	Test Day Averages (All Cows)				Rolling Yearly Herd Average			Somatic Cell Count Summary							MUN	Number Left Herd	
			DIM	Milk			% In Milk	Milk	%Fat	%Pro	Milk	Fat	Pro	% Cows SCC Score					Avg. SCC Linear Score	Wt. Avg. Actual SCC		Died	Sold
														0,1,2,3	4	5	6	7,8,9					
														Below 142,000	142,000 283,000	284,000 565,000	566,000 1.13 M	Over 1.13 M					
Test Dropped	28	208	183	78.6	86.6	98	87	67.9	3.8	3.0	27940	1123	880	49	25	12	8	5	3.5	300			5
9-29-18	36	206	177	78.5	87.0	101	89	69.6	3.8	3.1	27964	1121	880	45	26	17	8	3	3.6	306		1	10
10-25-18	26	204	173	83.1	88.7	106	84	69.6	4.0	3.3	27958	1117	879	54	19	13	8	5	3.4	282		1	7
11-29-18	35	206	152	85.3	89.3	101	80	68.0	4.3	3.2	27809	1112	875	68	17	8	6	2	2.8	189		1	9
12-28-18	29	216	132	86.0	87.5	98	84	71.7	4.2	3.2	27642	1105	870	66	16	7	5	6	2.9	224			6
1-25-19	28	222	128	91.2	91.7	106	91	83.2	4.2	3.1	27600	1101	867	68	19	9	3	2	2.7	186		1	6
2-22-19	28	212	139	89.2	89.1	97	98	87.1	4.1	3.1	27638	1100	868	71	15	5	5	3	2.6	182		1	12
3-28-19	34	212	158	87.9	88.5	99	99	86.6	4.1	3.1	27766	1102	869	77	12	7	2	1	2.2	130		1	7
4-26-19	29	212	180	86.9	90.2	103	97	84.1	3.8	3.1	27821	1101	868	74	12	8	3	3	2.4	152			3
5-31-19	35	215	192	78.3	84.5	94	91	71.0	3.8	3.0	27561	1094	859	73	13	8	5	2	2.3	150			3
6-28-19	28	217	200	80.9	89.5	107	89	71.8	3.6	3.1	27290	1085	852	77	11	7	4	2	2.1	159			2
7-26-19	28	217	188	81.2	89.2	100	80	64.9	3.5	3.0	27108	1073	848	56	26	12	4	3	3.0	188			3
9-02-19	38	221	181	75.4	84.1	96	86	64.9	4.1	3.2	26939	1065	845	63	16	10	8	3	2.8	219			4
Averages	31	213	167	83.7	88.3	101	89	74.4	3.9	3.1				66	17	9	5	3	2.7	197		6	72
			Test Period Avg. Milk Lbs			Added	64.1		Dropped	67.8													

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DHI Questions

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