

Fall 2019 FFA Dairy Judging - Team Quiz – Written Exam

- ___ 1. Which breed of cattle have the smallest cow for mature weight?
a. Ayrshire b. Brown Swiss c. Jersey d. Holsteins
- ___ 2. Which breed of cow evolved on the slopes of mountains in Europe?
a. Ayrshire b. Brown Swiss c. Jersey d. Holsteins
- ___ 3. Which breed of cow has very few numbers of animals outside the United States?
a. Guernseys b. Holsteins c. Brown Swiss
- ___ 4. Which breed organization split from a beef organization in 1948?
a. Ayrshire b. Milking Shorthorn c. Jersey d. Holsteins
- ___ 5. Which one of the following linear type traits is thought to be most important?
a. rump width b. udder cleft c. rump angle d. udder depth
- ___ 6. What does it mean if a cow has a linear score of 10 for legs side view?
a. legs are straight b. leg set is near optimal c. hock has too much set
- ___ 7. What percent of an animal's genes comes from its maternal great grand dam on average?
a. 12.5% b. 25% c. 50% d. 75% e. 100%
- ___ 8. Which one the following is not a letter that designates a nucleotide base?
a. A b. M c. C d. G
- ___ 9. Where do sperm go immediately after leaving the testes?
a. urethra b. vas deferens c. epididymis d. cowper's gland
- ___ 10. What trait receives the most weight in the Net Merit Dollar Index?
a. fat lb. b. Milk lb. c. calving ease d. stillbirth rate
- ___ 11. Which muscle pulls the bull's penis back into the sheath?
a. cremaster b. retractor c. dartos d. triceps
- ___ 12. What is considered the hardest part of a successful A.I. program?
a. heat detection b. Proper semen placement c. Cow restraint
- ___ 13. What is another name for estrus?
a. ovulation b. gestation c. fertilization d. heat
- ___ 14. What hormone is high when a cow has an active C.L.?
a. oxytocin b. estrogen c. progesterone d. relaxin
- ___ 15. What are dairy cows classified as?
a. monogastrics b. carnivores c. ruminants d. omnivores
- ___ 16. Which one of the following is not part of the small intestine?
a. duodenum b. omasum c. jejunum d. ileum
- ___ 17. What is the primary function of the large intestine?
a. vitamin synthesis b. protein digestion c. water absorption d. VFA production
- ___ 18. Which component of feedstuffs provides the majority of the energy to a cow?
a. calcium b. fats c. carbohydrates d. proteins
- ___ 19. Where is ringworm most likely to appear on a calf?
a. face b. shoulder c. hind leg d. tail
- ___ 20. What is more common name for parturient paresis?
a. bloat b. ketosis c. milk fever d. Johne's

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Breed
HO

Type Test
31-DHI-AP

Prev. Test
08-20-2019

Test Date
09-18-2019

Herd Summary



Service or Heat Intervals (Number)

< 18 Days	1
18-24 Days	2
36-48 Days	11
Other	35

Dry Period Summary

Avg Days	Cows by Days Dry	
60	< 40	> 70
	1	24
	3%	83%
		14%

Based on 29 Cows

Reproduction Summary

Breeding Herd		Cows		Helpers	
Animals Served (%)	42	83	90	13	52
Waiting Period (days or mo)	70	69	91	1.6	52
First Served (<100 days or 15 mo) (%)	2.1	24	14.5	25.3	
Time to First Services (days or mo)					
Services per Animal					
Open Period (<150 days or 17 mo) (%)					
Min Calving Interval (months)					
Heat Detection Index (%)					

Pregnant Animals

Animals	21	11
Conceived at First Service (%)	24	64
Services per Conception	2.5	1.5
Pregnancy Rate (%)	11	16
Open Period (days or mo)	169	25.5
Calving Interval (months)	14.8	
CI - Standard Deviation (months)		

Management Calving Interval = 12.5 Months

Service Sires

Num Bred	Progeny Test		Genomic		Group	Animal PTA		Sire PTA	
	%	NMS	%	RK		NMS	% AI	NMS	% Rank
19	37	+856	99	63	Calves	31	+585	80	+881
15	67	+859	98	33	Yearlings	21	+506	66	+849
7	29	+854	98	71	Lact 1	17	+430	78	+663
9	44	+806	97	56	Lact 2	15	+439	81	+648
31	52	+945	98	48	Lact 3+	14	+293	60	+441
					Cows	46	+391	73	+599

Yearly SCC Summary

Lact	% Infected by DIM		
	< 30	30 - 220	> 220
1	36	11	15
2	25	20	15
3+	13	28	47
All	26	19	23

Based on 489 Samples

Changes in SCC Status (Distribution of Cows Sampled)

Annual Fresh vs Dry Off (%)		Current vs Last Test (%)	
Cures	20	Cures	8
Chronics	20	Chronics	19
New Infections	52	New Infections	81
Negatives	8	Negatives	11

Based on 25 Cows Sampled

Production Averages

Date	Milk Cows		Fresh Cows		DIM		Quantity		Quality				
	Milk	Cows	Fresh	Cows	DIM	Milk	Raw SCC	LS SCC	Number	Infections	Fresh Infections	New Infections	Number
08-18-19	46	9	160	74	82	4.0	3.2	295	3.0	14	3	4	9
08-20-19	43	7	188	79	88	3.9	3.1	320	2.7	10	2	8	20
07-16-19	42	2	201	73	83	3.7	2.9	271	2.8	12	1	8	20
08-17-19	45	8	192	80	89	4.0	3.2	157	2.0	7	4	6	13
05-11-19	45	4	217	78	87	4.2	3.3	239	2.5	10	1	6	13
04-10-19	43	5	218	79	87	4.1	3.3	72	1.7	5	1	1	2
03-09-19	48	3	204	79	85	4.3	3.4	122	2.1	10	1	3	6
01-21-19	46	10	180	86	89	4.0	3.3	249	2.4	11	2	5	11
12-20-18	49	7	167	80	86	4.3	3.3	104	1.9	8	1	3	6
11-19-18	44	7	182	80	86	4.3	3.3	170	2.3	8	1	3	7
10-23-18	42	4	200	71	81	4.4	3.4	265	2.6	9	1	4	10
Averages >	45	5	192	78	86	4.1	3.2	206	2.4	9	1	3	7

Based on 36 Cows Sampled

Breed
HO

Type Test
31-DHI-AP



LACTATION

Prev. Test
06-20-2019

Test Date
09-19-2019

Processed
09-20-2019

Regional FFA Contest

DHI-312
Page 1 of 2

Index	Ord	Permanent ID	Sire	Prev Milk	Sample Day Data				Index	Lct #	Age at Calking	Days Dry	Calking Date	Due Date	Lactation to Date					Prod Index	Remarks				
					Milk	% Fat	% Pro	SCC							Inc Over Feed Cost	DHM	Milk	% Fat	% Pro			MES			
201	HO	73698533	28HO17553		83	4.3	2.9	19	13.24	-4.03	201	2-02	35	01-25-18	10-27-19	567	48683	4.0	1845	3.3	1531	9303	131		
202	HO	73698529	11HO09847								202	3-11	77	09-31-19		19	1449	4.8	70	3.3	48				
203	HO	73698537	28HO17553	68	32	7.1	4.6	566	2.09	2.09	203	3-00	51	11-24-18	01-09-20	299	25858	4.6	1198	3.5	902	5628	117	BY	
204	HO	73698524	7HO11700	78	50	4.6	3.8	54	5.15	5.15	204	3-05	62	11-22-18		301	27281	4.2	1144	3.2	862	5314	111		
205	HO	73698510	28HO14142	87	18	5.8	3.7	650	-1.32	-1.32	205	4-02	60	12-23-18	12-20-19	270	30980	3.7	1144	2.9	898	5284	110		
206	HO	71616564	1HO10245		52	3.7	2.3	62	4.87	4.87	206	6-01	64	08-18-19		32	1484	4.1	80	2.6	38				
207	HO	73698564	7HO11419		54	4.3	2.8	152	6.23	6.23	207	2-03			08-25-19		25	1107	4.8	53	3.2	35			&
208	HO	73698520	7HO11351						-4.43	-4.43	208	3-03	32	06-03-18	10-21-19	441	30308	5.0	1530	3.5	1050	5504	115		
209	HO	69155096	14HO05880	52	78	3.4	3.3	482	9.80	9.80	209	9-01	57	04-27-19		145	10524	3.5	367	2.7	280	3330	69		
210	HO	41VWW6522	7HO11351	58	75	3.8	3.2	152	10.04	10.04	210	2-00		02-14-19	04-05-20	217	16259	3.8	610	3.0	492	4708	98		
211	HO	73698525	28HO16955	68					-4.43	-4.43	211	2-11	24	06-30-18	10-25-19	422	36811	4.7	1710	3.5	1267	6182	129		
212	HO	71616591	1HO10218	80	71	4.0	3.1	107	8.53	8.53	212	4-11	58	11-12-18		311	27779	3.8	1088	3.0	841	4630	98	Y	
213	HO	41VWW6545	7HO11351	59	3.5	3.0	15	6.95			213	1-11		09-03-19		16	738	3.8	28	3.4	25			&	
214	HO	41VWW6520	1HO11373	72	73	3.3	3.4	86	9.48	9.48	214	2-01		01-10-19	Poss PG	252	17739	3.5	620	3.1	558	4385	91	V	
215	HO	73698560	7HO11351	42	4.0	3.5	2786	3.89			215	2-08		09-09-19		10	311	4.2	13	3.9	12				&
216	HO	41VWW6546	28HO17573	50	4.8	3.9	50	5.80			216	2-00		09-12-19		7	252	4.8	12	4.0	10				&
217	HO	73698540	28HO17516	85	4.7	2.7	428	11.80			217	3-08	80	09-08-19	10-25-19	11	729	5.1	37	3.0	22				
218	HO	73698518	1HO11022						-4.43	-4.43	218	3-07	32	07-17-18		397	27184	4.4	1184	3.5	963	5154	107		
219	HO	73698508	14HO05434	74	48	3.5	3.0	819	4.07	4.07	219	4-00	68	10-27-18	04-05-20	327	28562	3.6	950	3.0	784	4209	88		
220	HO	73698512	7HO11351	119	97	3.9	3.2	44	13.38	13.38	220	4-03	72	02-28-19	02-13-20	203	22838	4.1	933	2.9	662	5452	114		
221	HO	73698547	7HO11700	105	85	3.6	2.9	22	11.83	11.83	221	2-09		05-05-19	Poss PG	137	11644	3.6	424	2.7	320	4431	92		
222	HO	73698500	1HO10848	70	91	4.4	3.0	36	12.48	12.48	222	4-03	58	07-27-19		54	3848	4.2	180	3.3	127	4089	85		
223	HO	41VWW6838	1HO11097	74					-4.03	-4.03	223	1-10	9	11-01-18	11-14-19	313	24533	3.8	940	3.0	741	5313	111		
224	HO	41VWW6832	28HO14142	82	81	3.4	3.2	132	11.00	11.00	224	2-06		05-26-19	Poss PG	116	8243	3.3	272	2.9	235	3951	82		
225	HO	41VWW6534	1HO11889	60	59	4.3	3.3	87	7.18	7.18	225	2-01		07-14-19		67	3373	4.2	140	3.3	110	3835	80		
226	HO	73698569	28HO16955	59	4.0	3.1	19	7.08			226	2-01		09-05-19		14	636	4.4	28	3.5	22				&
227	HO	41LBV2156	28HO17553	93	83	3.4	3.3	13	11.37	11.37	227	2-00		12-02-18	03-09-20	281	27733	3.7	1030	3.1	883	6124	127		
228	HO	73698511	208HO00402	98	101	4.2	2.9	214	14.28	14.28	228	3-01	49	12-06-18	12-06-18	287	35180	3.7	1302	3.0	1053	6356	132	Y	
229	HO	73698526	7HO10848	115	110	3.3	2.6	13	15.93	15.93	229	3-11	73	07-22-18		58	8287	3.6	228	2.9	178	4479	93		
230	HO	41VWW6532	7HO12111	78	79	3.6	3.1	13	10.71	10.71	230	1-11		04-14-19	Poss PG	158	11886	3.4	410	3.0	356	4583	95		
231	HO	41VWW6885	28HO17573	95	87	3.8	3.2	22	12.29	12.29	231	2-01		05-01-18	04-23-20	141	11758	3.8	447	3.0	356	5130	107		
232	HO	73698543	28HO17553	101	87	4.6	3.4	44	8.41	8.41	232	2-11	62	02-18-18	12-06-18	213	23056	3.8	887	2.9	863	5475	114		
233	HO	73698507	28HO14422	117	130	4.0	2.7	41	19.85	19.85	233	3-07	56	05-19-19	05-19-19	123	13019	4.1	532	2.8	368	5206	106		
234	HO	73698523	28HO16989	95	85	3.7	3.0	696	13.34	13.34	234	2-02	58	07-27-19		54	4802	3.9	185	3.3	160	4181	87		

Remarks Codes: & = New Cow B = Fat < 6.5% V = Days Open > 250

Fall 2019 Regional FFA Dairy Management Group Activity

To answer the questions below, put the three digits of the "Index" number in the "Herd Record" part of the answer sheet of contestant 11. Each correct answer is worth 2 points for a total of 20 points. Note that the test date was 9/05/2018. Answer questions relative to this test date

Lactation Report

- _____ 1. Which cow is due to freshen next March?
- _____ 2. Which 3rd lactation milking cow needs to be dried off next?
- _____ 3. Which cow had a fat test lower than the protein test?
- _____ 4. Which cow had the highest fat % on the last test?
- _____ 5. Which cow is in her 8th lactation?
- _____ 6. Which cow has the highest mature equivalent dollar value for production?
- _____ 7. Which cow has the lowest % fat for her "Lactation to Date"?
- _____ 8. Which lactating (non-dry) cow has the most days in milk?
- _____ 9. Which lactating cow had the biggest decrease in milk lbs. from last month to this month?
- _____ 10. Which 2nd lactation cow has the lowest somatic cell count?

Questions from the DHIA Herd Summary (Put answers on Written Exam).

- ___ 21. What % of the pregnant heifers conceived on first service?
a. 47 b. 56 c. 64 d. 16
- ___ 22. What is the average time to first service for the breeding cow herd?
a. 54 days b. 78 days c. 118 days d. 91 days
- ___ 23. What age of cow was bred to the highest progeny tested Net Merit Dollar sires?
a. 1st lactation b. 2nd lactation c. 3rd and later lactations d. yearlings
- ___ 24. Which stage of lactation has the lowest % mastitis infection overall?
a. early lactation b. mid-lactation c. late lactation
- ___ 25. What % of cows had greater than 70 days dry?
a. 14% b. 30% c. 44% d. 66%
- ___ 26. Which monthly test was the best for raw somatic cell count?
a. July b. August c. May d. April
- ___ 27. Which monthly test was the worst for new mastitis cases?
a. March b. July c. September d. January
- ___ 28. What is the average number of times that a cow is bred before she becomes pregnant?
a. 1 b. 1.7 c. 2.5 d. 2.9
- ___ 29. What age of cow has the highest somatic cell count at >220 days into lactation?
a. 1st lactation b. 2nd lactation c. 3rd+ lactations
- ___ 30. How would you characterize the raw somatic cell count level in this herd compared to a typical Minnesota dairy herd?
a. extremely low b. about average c. twice the average

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