

## 2018 State FFA Dairy Management Group Activity

To answer the questions below, use the "Index" number. Each correct answer is worth 2 points for a total of 50 points. Put answers on the "Herd Record (Judge)" part of the scantron sheet.

### From the Lactation Report

- 215 1. Which cow had the highest protein percentage on test day?
- 212 2. Which 3rd lactation cow had the fewest days dry?
- 216 3. Which cow has the most days in milk?
- 206 4. Which cow has the highest "Production Index"?
- 213 5. Which cow should be the next one to freshen after the test date?
- 224 6. Which cow produced the most lbs. of milk on the previous sample date?
- 218 7. Which cow, that was lactating last month, had the biggest increase in milk lbs. from last month to this month?
- 213 8. Which is the oldest cow in the herd?
- 225 9. Which 1<sup>st</sup> lactation cow was the oldest at first freshening?
- 216 10. Which confirmed pregnant cow had the most days open?
- 215 11. Which cow had the highest fat test for the lactation to date?
- 217 12. Which lactating cow needs to be dried off next?

### From the Reproduction Report

- 313 13. Which cow was sired by the bull with the lowest NM\$?
- 320 14. Which 3rd lactation cow was bred the most times during this lactation?
- 337 15. Which 1<sup>st</sup> lactation cow had the most days to the first heat?
- 320 16. Which third lactation cow was bred most recently?
- 332 17. Which cow, with a due date, had the fewest days open?
- 316 18. Which cow was bred to the bull with the lowest Net Merit Dollar value?
- 305 19. Which cow most recently calved?
- 337 20. Which cow has the highest production index?
- 323 ~~330~~ 21. Which cow has the most days open without a breeding or heat?

### From the Flex Report

- 110 22. Which cow, currently producing at least 100 lbs. per day, had the highest milk urea nitrogen?
- 115 23. Which 1<sup>st</sup> lactation cow contributed the most somatic cells to the bulk tank?
- 127 24. Which cow had the biggest decrease in somatic cell count from last month?
- 112 25. Which cow has the most tests over 200,000 SCC?



**Herd Summary**

<b>Peak and Persistency</b>		<b>Yearly SCC Summary</b>		<b>Changes in SCC Status</b>		<b>Dry Period Summary</b>	
Peak Milk Lact 1 is Yellow if Peak Ratio (1st/Other) is < 70 (Indicates under performance versus older cows) Peak Milk Lact 2/3+ are Yellow if Peak Ratio (1st/Other) is > 85 (Indicates under performance versus younger cows)		Lact 1 DMI < 30 is Yellow if >= 34% (Ideally should be < 20%)		Cures >= 20% are Green if at least 8% higher than New Infections New Infections >= 15% are Yellow if at least 8% higher than Cures (New Infections ideally should be < 8%)		Avg Days by Dry Cows < 40 40 - 70 > 70 2 24 7 62 6% 73% 21%	
<b>Current SCC Evaluation</b>		<b>Production Averages</b>		<b>Highlighting Legend</b>		<b>Based on 33 Cows</b>	
Yellow if % Infected >= 25 for Lact 1, >= 35 for Lact 2, >= 45 for Lact 3+ Yellow if % Cows by Linear Score 7.0/9 >= 5 for Lact 1, >= 10 for Lact 2, >= 15 for Lact 3+		MILM is Green if 10+% increase from previous test and is Yellow if 10+% decrease from previous test. Fresh Infections are Yellow if >= 30% of Fresh Cows (Min. 10 Fresh Cows. Fresh Infections should be < 20%).		Number of Cows in Handing must be Greater than 40)			

306 MIE		Peak and Persistency		Peak		Daily Milk		Current SCC Evaluation	
Milk	\$ Value	Prod Index	Cows	DMI	DMI	Milk	Current	MILM	C-L
29,215	4,069	101	1	23	152	87	88	91	+6.9
30,518	4,076	101	2	15	161	76	131	100	-8.5
29,804	3,946	98	3+	18	181	80	129	99	-3.4
29,770	4,030	100	All	56	164	85	115	96	-0.3
						Sold		Shipped %	
						4832		100	
						Value \$		720	
						14.90		21	

Monthly SCC Production Loss is 1622 Lbs with a \$ Loss of 24.2

Annual Summary				Management Level Milk				Yearly SCC Summary				Changes in SCC Status				
Days in Milk				All Cows				Lact				Annual Fresh vs Dry Off (%)				
< 100	100 - 200	> 200	All Cows	Lact	All Cows	< 100	100 - 200	> 200	Lact	< 30	30 - 220	> 220	Cures	Chronics	Cures	Chronics
83	98	103	94	1	91	88	92	94	1	36	9	12	13	7	4	14
101	99	98	101	2	100	99	98	118	2	7	15	22	13	7	4	14
94	103	98	98	3+	99	101	102	95	3+	39	36	41	Negatives	New Infections	Negatives	New Infections
92	99	100	97	All	96	94	97	97	All	30	21	23	67	13	74	8

Based on 509 Samples

Based on 30 Cows Sampled

**Production Averages**

Rolling Herd			Test Day			Quantity			Quality								
Milk	Fat	Pro	All Cows	% in Milk	Shipped	Milk Cows	Fresh Cows	DMI	Milk	MILM	% Fat	% Pro	Raw SCC	LS SCC	Number Infections	Fresh Infections	New Infections
29,711	1171	961	56	95	88	53	3	184	93	96	3.8	3.1	246	2.6	12	1	4
29,615	1163	956	54	96	92	52	8	144	96	97	4.1	3.2	166	2.2	9	1	3
29,566	1153	957	54	93	84	50	10	136	90	91	3.9	3.3	188	2.5	11	3	4
29,615	1152	958	53	85	84	45	3	142	99	100	4.0	3.1	193	2.2	7	2	2
29,514	1147	955	52	85	79	44	10	134	94	98	4.0	3.2	131	2.0	5	2	2
29,529	1143	955	52	79	70	41	7	168	89	96	4.2	3.3	167	2.5	5	1	1
29,506	1139	952	52	81	71	42	1	195	87	96	3.8	3.3	167	2.5	5	1	1
29,371	1134	946	52	87	75	45	8	189	87	98	3.9	3.3	292	3.0	14	3	4
29,156	1124	936	52	87	78	45	4	207	90	101	3.8	3.2	364	3.1	12	1	3
29,038	1121	932	53	91	83	48	4	202	91	98	3.7	3.3	298	2.8	12	2	3
28,965	1114	925	54	91	88	49	6	187	97	103	4.1	3.2	389	3.3	15	1	7
29,014	1114	926	53	87	84	48	2	191	97	102	3.7	3.2	256	2.9	9	2	3
Averages >			53	88	81	47	6	172	92	98	3.9	3.2	262	2.7	10	2	3

Record Publication

Open Disclosure

Data Collection Rating (Milk) = 97.7

**Herd Genetic Profile (Source: CDCB)**

Num Bred	Service Sires			Genomic			Group	Animal PTA			Sire PTA		
	%	NMS	% Rk	%	NMS	% Rk		Num	NMS	% Rank	% AI	NMS	% Rank
16	13	+998	99	87	+909	98	Calves	27	+461	76	96	+676	82
13	77	+826	97	23	+962	99	Yearlings	18	+485	76	100	+694	82
10	80	+740	87	40	+836	98	Lact 1	13	+442	88	100	+705	81
11	27	+781	97	73	+877	98	Lact 2	15	+345	79	100	+527	81
34	56	+791	94	44	+883	98	Lact 3+	18	+253	69	100	+333	35
							Cows	46	+337	78	100	+538	61

**Inventory**

% Herd	Group	Age	Num	% Identified	
				Sire	Dam
	Calves	0-06	27	100	100
	Yearlings	1-06	18	100	100
	Youngstock	0-11	45	100	100
41	Lact 1	2-02	23	100	100
27	Lact 2	3-02	15	100	100
32	Lact 3+	4-07	18	100	100
	Cows	3-03	56	100	100

**Cows Entering and Leaving Herd**

Number Entered	Number Left	Lact	Reason for Leaving			% Turnover
			Dairy	Low Milk	Sick	
26	5	1			4	9
	7	2			6	13
	11	3+			11	20
26	23	All			21	41
		Left Herd			91%	

**Reproduction Summary**

Breeding Herd		Cows	Heifers
Animals		51	18
Animals Served (%)		76	89
Waiting Period (days or mo)		72	13
First Served (<100 days or 15 mo) (%)		45	50
Time to First Services (days or mo)		98	15
Services per Animal		1.5	1.4
Open Period (<150 days or 17 mo) (%)		39	33
Min Calving Interval (months)		13.2	26.1
Heat Detection Index (%)		30	

**Monthly Herd Turnover**

	History												Test	Planning									
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep		Oct	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Total Cows	52	54	54	54	54	54	54	54	51	52	52	50	54	54	54	54	52	47	51	49	48	48	50
Cows Milking	43	46	46	49	53	52	51	47	44	45	41	40	51	51	51	51	47	44	45	41	41	40	
Heifers Calving	5	2	1	4	2	2	2	1	1	5	2	4	4	2	2	2	2	1	2	2	4	4	5
Cows Calving	2	8	3	4	4	1	1	3	3	2	5	8	8	2	2	2	2	3	4	4	4	4	5
Cows Dried Off	5	7	3	1	1	2	2	5	7	4	7	10	10	2	2	2	2	5	7	4	7	7	8
Cows Dry	9	8	8	5	1	2	2	3	7	2	7	10	10	2	2	2	2	5	7	4	7	7	8
Cows Left	5		1	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2

**Pregnant Animals**

Animals	Cows	Heifers
28	8	
Conceived at First Service (%)	68	63
Services per Conception	1.6	1.5
Pregnancy Rate (%)	12	17
Open Period (days or mo)	125	17
Calving Interval (months)	13.3	26.3
CI - Standard Deviation (months)		
Management Calving Interval = 12.8 Months		

**% Left Non-Dairy by 60 DIM**

Lact	1 Month	3 Months	8 Months	12 Months
1	20	13	6	5
2	0	0	0	0
3+	0	10	6	8
All	13	8	5	5

**Birth Summary**

Dam's Lact Num	Males		Females		Offspring Born	
	Alive	Dead	Alive	Dead	Calving Difficulty Score	% 4+5
1	12	14	14	1	1	2
2+	25	17	17	1	1	5
Total	37	31	31	1	1	2

**Service or Heat Intervals (Number)**

< 18 Days	18-24 Days	36-48 Days	Other
5	6	14	

Breed  
HO  
Type Test  
31-DH1-AP



# LACTATION

Prev. Test 03-13-2018 Test Date 04-16-2018 Processed 04-16-2018

Index	3rd	Permanent ID	Site	Prev Milk	Sample Dry Data						Inc Over Feed Cost	Index	Lct #	Age at Calving	Days Dry	Calving Date	Due Date	Lactation to Date						MIES	Prod Index	Remarks
					Milk	% Fat	% Pro	SCC	% Fat	% Pro								SCC	Dim	Milk	% Fat	% Pro	Milk			
201	HO	73698554	28HO17553	46	3.3	3.5	28	2.81	201	1	2-05	43	04-05-18	12-14-18	12	420	3.6	15	3.6	10	845	118				
202	HO	73698553	28HO17553	116	120	3.4	2.8	13	13.76	202	1	2-02	57	01-25-18	11-07-17	181	9056	3.7	338	2.7	249	8021	109	VA		
203	HO	73698528	11HO09847	53	81	4.1	3.0	107	8.26	203	1	2-00	53	10-09-17	08-28-18	190	9779	4.9	480	3.6	374	4941	94			
204	HO	73698527	28HO17553	80	85	4.2	3.4	50	8.93	204	1	2-00	57	12-09-17	11-26-18	129	10900	4.3	473	3.2	352	5505	100			
205	HO	73698522	28HO16809						-4.35	205	2	2-11	32	04-13-18												
206	HO	71816553	14HO08429	116	67	3.7	3.7	1300	5.22	206	3	4-08	84	08-19-17	10-27-18	241	27847	3.9	1088	3.4	943	8545	119			
207	HO	73698524	7HO11700	84	83	4.2	3.4	14	8.63	207	1	2-04	45	11-07-17	11-26-18	181	13013	4.2	543	3.3	423	5261	95			
208	HO	73698510	28HO14142	120	114	3.4	2.9	22	12.48	208	2	3-01	45	11-15-17	12-20-18	153	18097	3.5	637	3.0	534	5977	107			
209	HO	71816564	1HO10245	125	122	3.5	2.7	44	13.30	209	3	4-07	84	02-02-18		74	7873	4.2	338	3.1	244	5022	91			
210	HO	73698509	200HO00402	125	128	3.2	2.7	19	14.42	210	2	3-04	51	02-17-18		59	7043	3.4	242	3.0	210	5250	95			
211	HO	73698520	7HO11351	86	87	4.2	3.8	2263	3.96	211	1	2-03	3	06-16-17	08-15-18	302	24814	4.9	1201	3.4	940	6512	118			
212	HO	71816572	14HO08429	90	87	4.2	3.8	8.42	8.42	212	3	4-02	50	11-20-17		148	13891	4.3	588	3.6	494	4573	83			
213	HO	68155086	14HO05890	106	91	3.8	3.4	1838	-4.77	213	6	7-02	36	06-04-17	05-22-18	281	24832	3.9	985	3.2	801	5208	95			
214	HO	71816560	1HO08527						8.89	214	3	4-05	59	08-02-17	10-11-18	227	25991	3.7	959	3.2	817	5808	105			
215	HO	73698539	7HO11314	55	59	5.2	4.0	22	5.29	215	1	1-10	81	10-09-17	08-28-18	190	39633	5.1	198	4.1	157					
216	HO	71816564	14HO05590	51	78	4.3	3.9	187	7.67	216	2	2-11	81	02-14-17	07-26-18	427	35203	3.8	1324	3.5	1216	5608	102			
217	HO	73698525	28HO16855	59	65	5.1	3.7	1383	6.19	217	1	1-11		07-10-17	07-03-18	281	20713	4.4	906	3.5	721	6000	109			
218	HO	73698528	28HO17553	31	88	3.9	2.9	284	8.40	218	1	2-03		03-01-18		47	2407	4.4	107	3.0	72	4417	80			
219	HO	71816561	1HO10218	104	87	3.2	2.9	33	8.41	219	2	4-00	55	11-25-17	11-15-18	143	14817	3.7	535	2.8	415	4407	80			
220	HO	71816565	11HO10579	84	69	3.3	3.3	187	5.38	220	3	4-05	55	05-29-17	Pos PG	324	32710	3.5	1135	2.9	843	5627	102	Y		
221	HO	71816550	1HO10245	57	55	4.3	3.4	187	3.80	221	3	4-05	125	04-30-17	08-03-18	352	32915	4.2	1372	3.0	985	5816	108	X		
222	HO	71816577	1HO10218	123	120	3.9	2.8	14	13.25	222	3	4-03	70	02-14-18		62	7188	4.8	333	3.1	222	5221	95			
223	HO	73698540	28HO17516	82	83	4.0	3.0	17	8.54	223	1	2-01		01-13-18		84	6992	4.3	289	3.1	218	4808	89			
224	HO	71816566	28HO13985	135	128	3.5	2.9	1600	14.19	224	3	4-03	71	11-18-17		150	18875	3.5	857	2.8	533	5547	101			
225	HO	73698516	1HO11022	76	73	4.1	3.7	38	7.07	225	1	2-07		07-12-17	07-20-18	278	21914	4.1	904	3.5	784	5747	104			
226	HO	73698508	14HO05334	106	106	3.4	3.1	187	11.30	226	2	2-10	60	08-14-17	10-18-18	248	24949	3.6	891	3.0	757	6438	117			
227	HO	73698512	7HO11351	112	116	3.5	2.8	13	12.84	227	2	3-02	3	02-19-18		57	8118	4.4	271	3.1	192	5167	94			
228	HO	73698500	1HO10848	84					-4.35	228	2	3-02	3	07-05-17	07-03-18	283	28385	4.0	1057	3.2	851	6230	113			
229	HO	73698508	200HO00402	84	48	3.8	3.7	325	2.56	229	2	2-06	51	05-08-17	08-17-18	344	32464	3.8	1218	3.2	1038	6488	118			
230	HO	73698531	7HO11700	123	118	3.2	2.7	132	13.34	230	1	2-03		01-17-18		80	10243	3.8	371	2.8	280	5904	107			
231	HO	68155135	7HO10849	114	114	3.5	2.6	100	12.12	231	4	5-11	53	12-08-17		132	14352	3.8	515	2.8	397	4700	85			
232	HO	71816573	14HO08429	116	112	3.4	3.3	115	11.77	232	3	4-02	57	11-27-17	11-07-18	141	15582	4.0	622	3.2	494	5401	98			
233	HO	73698541	7HO11314	84	85	4.1	3.0	62	8.89	233	1	2-01		03-08-18		40	3039	3.9	120	3.1	95	4784	87			
234	HO	73698511	200HO00402	133	114	3.9	3.1	13	12.77	234	2	3-02	43	12-18-17	12-14-18	119	13580	4.3	579	3.1	421	5820	108			

Remarks Codes: & = New Cow V = Fat < Protein X = Days Dry > 100 Y = Days Open > 250

& Description I-AP	Breed HO	Sample Date 4/16/18	Process Date 4/18/18
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# REPRODUCTION



MONTHS	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR
MONTHLY REPRODUCTIVE CYCLES													
Est Num Heats	21	21		21	21	22	20	22	22	22	20	25	24
Recorded Heats	18	23		21	10	20	18	20	26	16	14	37	14
Num Breedings	9	8		6	3	9	7	6	8	6	6	18	7
Num Conceived	29	30		32	31	26	26	29	22	22	18	21	28
MONTHLY CALVING PATTERN													
Cows Calved Last	2	4	2	1	3	4	2	8	3	4	4	1	1
Heifers Calved Last			2	3		2	5	2	1	4	2	2	2
Cows to Calve		1	1	5	2	4							
Heifers to Calve			1			2							

COWS WITH HIGHEST DAYS OPEN					
BARN NAME	DAYS OPEN	BARN NAME	DAYS OPEN	BARN NAME	DAYS OPEN
MOJO	173	JOEY	90		
NANNY	150	ALEXA	82		
DOZIER	150	NIKO	74		
BOOTS	148	BLANCH	74		
MABEL	132	MYCCA	68		
PEGGY	96	DEANNA	62		
DICE	94				
SASHA	93				

COMPUTER Index	COW'S SIRE		DATE CALVED	L AN CU TM	DAYS TO 1ST HEAT	DAYS OPEN	LAST BREEDING OR HEAT		BARN NAME	DATE TO DRY	DUE DATE	DAYS IN MILK	PROD INDEX	
	ID	NMS					DATE	SERVICE SIRE						
								ID						NMS
301	29HO17553	+998	4/05/18	1		12			ALDA			12		
302	29HO17553	+998	1/25/18	1		82			ALEXA			82	109	
303	11HO09647	+327	10/09/17	1	74	74	11/2/22/17	7HO12165	+781	AMERA	8/09	9/28	190	85
304	29HO17553	+998	12/09/17	1	72	72	12/19/18	200HO10196	+787	AMIA	10/07	11/26	129	100
305	29HO16909	+669	4/13/18	2		4				ASICS				
306	14HO06429	+287	8/19/17	3	154	154	11/20/18	29HO18343	+983	ASTROID	9/07	10/27	241	119
307	7HO11700	+687	11/07/17	1	104	104	12/19/18	200HO10196	+787	BABE	10/07	11/26	161	96
308	29HO14142	+470	11/15/17	2	76	120	3/15/18	29HO17553	+998	BELLA	10/31	12/20	153	106
309	1HO10245	+301	2/02/18	3		74				BLANCH			74	91
310	200HO00402	+563	2/17/18	2		59				BOCHI			59	95
311	7HO11351	+827	6/16/17	1	84	84	9/08/17	7HO12165	+781	BOOT	DRY	6/15	302	119
312	14HO06429	+287	11/20/17	3	82	148	12/10/18	29HO18343	+983	BOOTS			148	83
313	14HO05880	+74	6/04/17	6	72	72	8/15/17	1HO11694	+789	BRIDGET	DRY	5/22	281	95
314	1HO09527	+432	9/02/17	3	124	124	11/04/18	7HO12165	+781	BUDDY	8/22	10/11	227	105
315	7HO11314	+591	10/09/17	1	74	74	11/2/22/17	7HO12165	+781	CALINDA	8/09	9/28	190	
316	14HO05560	+263	2/14/17	2	121	247	10/19/17	7HO12175	+410	CARLITA	6/06	7/26	427	102
317	29HO16955	+598	7/10/17	1	78	78	9/26/17	7HO12165	+781	CECIL	5/14	7/03	281	109
318	29HO17553	+998	3/01/18	1		47				CHARM			47	80
319	1HO10218	+474	11/25/17	2	75	75	2/08/18	29HO17573	+687	CHASE	9/26	11/15	143	80
320	11HO10579	+243	5/28/17	3	139	307	3/31/18	14HO07780	+826	CHRISSEY	11/16	POSS PG	324	102
321	1HO10245	+301	4/30/17	3	105	180	10/27/17	14HO07770	+761	CHRISTN	6/14	8/03	352	106
322	1HO10218	+474	2/14/18	3		62				DEANNA			62	95
323	29HO17516	+428	1/13/18	1		94				DICE			94	89
324	29HO13665	+199	11/18/17	3	93	150	2/19/18	14HO07780	+826	DOZIER			150	100
325	1HO11022	+681	7/12/17	1	93	93	10/13/17	29HO17553	+998	ELLY	5/31	7/20	279	105
326	14HO05434	+223	8/14/17	2	107	151	11/12/18	1HO11989	+861	FINTCH	8/30	10/19	246	116
327	7HO11351	+827	2/19/18	2		57				FITZ			57	94
328	1HO10648	+522	7/05/17	2	83	83	9/26/17	1HO11989	+861	HEATHER	DRY	7/03	283	113
329	200HO00402	+563	5/08/17	2	97	186	11/10/17	1HO11989	+861	HERSHEY	6/28	8/17	344	118
330	7HO11700	+687	1/17/18	1		90				JOEY			90	106
331	7HO10849	+588	12/06/17	4	93	132	3/09/18	7HO12165	+781	MABEL			132	85
332	14HO06429	+287	11/27/17	3	65	65	11/31/18	29HO18343	+983	MAC	9/18	11/07	141	98
333	7HO11314	+591	3/08/18	1		40				MARBELA			40	87
334	200HO00402	+563	2/19/17	2	80	80	3/09/18	7HO12165	+781	MOE	10/25	12/14	119	106
335	7HO10849	+588	10/26/17	1	116	173	2/19/18	29HO18296	+1013	MOJO			173	113
336	11HO09647	+327	7/19/17	1	69	133	11/29/17	1HO11989	+861	MONISHA	7/17	9/05	272	130
337	1HO11022	+681	1/18/17	1	64	259	10/04/17	7HO12165	+781	MOOKIE	5/22	7/11	454	133
338	29HO17553	+998	2/08/18	1		68				MYCCA			68	90
339	29HO14422	+513	1/18/17	2	111	150	3/09/18	29HO18343	+983	NANNY			150	93
340	29HO16909	+669	2/02/18	1		74				NIKO			74	83



Test Type and Description 31 DHI-AP	Breed HO
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TestDay	Milk	Actual SCC	Index	% of Tank	DIM	Lact #	Log SCC	Lact Avg	#> 200K	#SCC Tests	Prod Index	MUN	Pro %	Total Solids		
Actual	Expected	Prev	Current					This	Last							
46			29			12	1	1.2		1		10	3.5			
120	116	13	13			82	1	0.1	0.5	3	109	10	2.6			
81	48	100	107	1%		190	1	3.1	1.4	6	85	11	3.0			
85	84	29	50			129	1	2.0	1.9	4	101	11	3.4			
						TF	2		3.1							
67	104	44	1300		N	7%	241	3	6.7	2.9	2.1	1	8	120	11	3.7
83	80	13	14				161	1	0.2	0.3		5	96	10	3.4	
114	105	13	22				153	2	0.8	0.2	0.3	5	107	11	2.9	
122	106	13	44			1%	74	3	1.8	2.9	3.3	1	3	91	14	2.7
128	132	18	19				59	2	0.6	0.6	2.0	2	95	15	2.7	
87	80	2786	2263		P	17%	148	3	7.5	7.2	1.9	5	5	81	9	3.6
91	94	264	1838		P	14%	227	3	7.2	5.7	3.2	8	8	105	8	3.4
59	53	19	22				190	1	0.8	0.7		2		6	4.0	
79	58	132	187			1%	427	2	3.9	1.7	2.6	14	102	9	3.9	
65	60	200	1393		N	8%	281	1	6.8	3.8		2	9	110	9	3.7
89	34	283	264		P	2%	47	1	4.4	4.5		2	2	80	9	2.9
87	94	23	33				143	2	1.4	0.7	3.1	5	80	12	2.9	
69	81	107	187			1%	324	3	3.9	2.3	2.3	10	102	9	3.3	
55	60	187	187			1%	352	3	3.9	2.2	2.4	1	10	106	8	3.4
120	129	35	14				62	3	0.2	0.9	2.0	2	95	10	2.8	
83	77	19	17				94	1	0.4	0.4		3	90	10	3.0	
128	112	566	1600		P	17%	150	3	7.0	6.0	4.5	5	5	99	8	2.9
73	69	31	38				279	1	1.6	2.2		9	105	9	3.7	
106	84	38	187			2%	246	2	3.9	1.5	0.9	8	117	9	3.1	
116	120	19	13				57	2	0.1	0.4	1.7	2	94	11	2.8	
48	60	78	325		N	1%	344	2	4.7	2.9	2.0	3	11	118	14	3.7
118	122	1131	132			1%	90	1	3.4	4.7		2	3	107	12	2.7
114	98	132	100			1%	132	4	3.0	3.5	1.4	1	4	85	13	2.6
112	103	429	115			1%	141	3	3.2	2.4	4.0	1	5	98	11	3.3
85	74	187	62				40	1	2.3	3.1		2	87	12	3.0	
114	103	13	13				119	2	0.1	0.2	3.3		4	106	12	3.1
106	103	13	13				173	1	0.1	0.4		6	114	12	3.1	
87	84	38	87			1%	272	1	2.8	1.8		1	9	130	7	3.7
67	68	76	115			1%	454	1	3.2	2.4		15	133	8	4.2	
91	98	76	264		N	2%	68	1	4.4	3.5		1	2	90	11	2.8
87	93	31	62			1%	150	2	2.3	1.4	1.7		5	93	15	2.9
87	79	38	20				74	1	0.7	1.6		3	83	8	2.8	
102	88	15	13				153	1	0.1	0.1		5	106	12	3.2	
79	79	14	29				187	1	1.2	2.0		1	6	101	9	3.1
148	130	41	27				41	4	1.1	1.4	4.3	2	97	10	2.8	
110	95	35	27				96	3	1.1	1.4	1.1		3	92	11	3.2
102	86	71	100			1%	228	3	3.0	2.7	1.8	2	8	107	9	3.4
102	99	264	283		P	2%	151	3	4.5	4.6	3.3	4	5	87	11	3.2
71	64	35	22				168	1	0.8	1.0		6	76	9	3.2	
102	114	132	400		N	3%	210	3	5.0	4.7	2.5	4	7	110	14	3.1

TF = Too Fresh to Test

N Cow SCC > 200,000 this test  
P Cow SCC > 200,000 this test and last





## 2018 FFA Dairy Judging – Team Quiz – Written Exam

- A 1. Which dairy breed is described as deep cherry red, mahogany, brown, or a combination of any of these colors with white or pure white?  
a. Ayrshire    b. Guernsey    c. Jersey    d. Brown Swiss    e. Montbeliarde
- E 2. Which breed is the second most numerous worldwide?  
a. Holstein    b. Montbeliarde    c. Ayrshire    d. Guernsey    e. Brown Swiss
- D 3. Which breed originated by crossing the Fromont du Leo Brittany and Norman Brindles from Normande.?  
a. Holstein    b. Jersey    c. Montbeliarde    d. Guernsey    e. Brown Swiss
- A 4. Which gene is dominant over the other in dairy cattle?  
a. polled gene    b. horned gene
- C 5. Which breed showed the greatest increase in registrations from 1993 to 2014?  
a. Ayrshire    b. Guernsey    c. Jersey    d. Brown Swiss    e. Holsteins
- E 6. In what year was the 3 billion nucleotide bases (A, T, C, or G) on the 30 chromosome pairs first sequenced?  
a. 1864    b. 1903    c. 1938    d. 1952    e. 2004
- C 7. What is another name for a cow's egg?  
a. sperm    b. gonad    c. ovum    d. oviduct    e. follicle
- E 8. What structure captures the egg at time of ovulation?  
a. cervix    b. broad ligament    c. vulva    d. vagina    e. infundibulum
- A 9. What is the change in chemistry the sperm undergo in the female's reproductive tract called?  
a. capacitation    b. fertilization    c. ovulation    d. ejaculation
- D 10. What organ produces follicle stimulating hormone?  
a. ovary    b. Hypothalamus    c. uterus    d. pituitary
- C 11. For how many hours do sperm remain viable in the female reproductive tract?  
a. 6    b. 10    c. 24    d. 48
- B 12. What is the twinning rate in dairy cows?  
a. 1%    b. 5%    c. 12%    d. 25%
- C 13. Which reproductive technique utilizes "nuclear transfer"?  
a. A.I.    b. embryo transfer    c. cloning
- A 14. Which of the two following chromosomes is slightly larger than the other?  
a. X    b. Y
- C 15. What is a desirable pH in the rumen?  
a. 3.2    b. 4.8    c. 6.6    d. 10.5
- D 16. Which one of the following is a macro-mineral?  
a. manganese    b. iron    c. zinc    d. magnesium    e. copper
- E 17. Which vitamin is an antioxidant?  
a. Vitamin A    b. Niacin    c. Vitamin C    d. Vitamin D    e. Vitamin E
- A 18. Which nutrient is required in the largest quantity by the lactation dairy cow?  
a. water    b. fiber    c. carbohydrates    d. fats    e. protein

- A 19. At what % of a cow's body weight are forages usually fed on a daily basis?  
a. 2%      b. 10%      c. 20%      d. 30%
- A 20. What type of immunity does a calf get from colostrum?  
a. passive      b. active
- B 21. What is the milk called from a cow 2 to 3 days after calving?  
a. colostrum      b. transitional milk      c. waste milk
- A 22. What vitamin is supplemented at the greatest level of IU per day?  
a. Vitamin A      b. Vitamin D      c. Vitamin E
- B 23. When does peak dry matter feed intake will occur during the lactation?  
a. week 1      b. week 10      c. week 30
- B 24. What is the desired % protein in the ration for a cow in early lactation?  
a. 12%      b. 18%      c. 22%      d. 30%
- A 25. Which one of the following is a buffer?  
a. sodium bicarbonate      b. rumensin      c. propylene glycol
- E 26. What is the most common cause of death in calves less than three weeks of age?  
a. pneumonia      b. BVD      c. worms      d. lice      e. scours
- E 27. Grass tetany is caused by a shortage of what mineral?  
a. calcium      b. phosphorus      d. potassium      d. sulfur      e. magnesium
- C 28. What disease is caused by the bacterium mycobacterium paratuberculosis?  
a. navel ill      b. bloat      c. Johne's      d. Blackleg      e. PI<sub>3</sub>
- A 29. Which disease is typically spread by face flies?  
a. Pinkeyel      b. bloat      c. Johne's      d. Blackleg      e. PI<sub>3</sub>
- D 30. How wide should stalls be for a 1600 lb. cow?  
a. 24"      b. 37"      c. 44"      d. 51"
- A 31. What is the waxy substance inside the teat canal called?  
a. keratin      b. glucose      c. butterfat      d. fatty acids      e. lactose
- B 32. Which gland releases oxytocin?  
a. mammary      b. pitiutary      c. Abomasum      d. adreal
- B 33. What is the purpose of dipping the cows' teats after milking?  
a. stimulates milk letdown      b. kills bacteria      c. helps teat      d. keeps flies away
- C 34. Which one of the following is a coliform organism?  
a. Streptococcus agalactiae      b. Staphylococcus aureus      c. E. coli
- A 35. What is the process called where foreign sediment is removed from milk at the processing plant?  
a. clarification      b. pasteurization      c. homogenization      d. standardization
- B 36. What is another name for riboflavin?  
a. Vitamin A      b. Vitamin B2      c. Niacin      d. Vitamin D
- C 37. Which beverage has the most calories per cup?  
a. skim milk      b. whole milk      c. chocolate whole milk
- A 38. Which breed was the first to organize an American breed association in 1868?  
a. Jersey      b. Brown Swiss      c. Holstein

# 2018 State FFA Dairy Management Group Activity

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

- c 39. What was the percentile rank of the progeny tested sires used to breed the 1<sup>st</sup> lactation cows?  
a. 60      b. 99      c. 97      d. 100
- b 40. Which group of cows had the highest peak milk production?  
a. 1<sup>st</sup> lactation    b. 2<sup>nd</sup> lactation    c. 3<sup>rd</sup> lactation and older
- c 41. What percent of cows were dry more than 70 days?  
a. 7      b. 16      c. 21    d. 49
- c 42. Which age of cows had the highest mastitis infection rate for this test?  
a. 1<sup>st</sup> lactation    b. 2<sup>nd</sup> lactation    c. 3+ lactations
- c 43. Relative to raw somatic cell count over the last year, which statement best applies?  
a. SCC is very consistently low from month to month  
b. SCC has increased over the last year  
c. SCC has been lowest during the winter months
- a 44. What percent of the cows both dried off with a high SCC and then freshened with the SCC still high?  
a. 7      b. 14      c. 19      d. 60
- c 45. According to the current SCC evaluation, what % of cows are infected?  
a. 12      b. 18      c. 23      d. 67
- b 46. What was the average age at first calving?  
a. 22 months      b. 26 months    c. 28 months    d. 30 months
- b 47. What is the minimum calving interval (months) of the cows in the breeding herd?  
a. 12.9      b. 13.2      c. 14.6      d. 15.8
- d 48. Which month of the year was average fat% highest?  
a. February    b. April    c. June    d. November
- a 49. What month of the year was average lbs. of milk produced greatest?  
a. January    b. April    c. June    d. November
- d 50. In what month did the most cows leave the herd?  
a. January    b. February    c. June    d. October



# Spring 2018 FFA Dairy Judging Contest

Official

Name \_\_\_\_\_

Chapter \_\_\_\_\_ Team number \_\_\_\_\_

Put your placings on this paper and hand in at the end of the contest to the person listening to your 2 yr. old reasons. If something happens to your bubble sheet we will have this sheet as a backup.

## Class

## Placing

1 Sire Selection	<u>1-4-2-3</u> (2-4-3)
2 Holstein Winter Calves	<u>3-2-4-1</u> (4-2-4)
3 Holstein Fall Calves	<u>2-3-4-1</u> (4-4-5)
4 3 yr old Holsteins	<u>3-2-4-1</u> (3-2-5)
5 4 yr olds - Type (25 points) the cows are placed just on type as the other classes	<u>2-4-3-1</u> (2-4-8)
6 Pedigree (25 points) place the four pedigrees considering the genetics, and performance information	<u>2-4-1-3</u> (2-6-2)
7 Overall place the cows based on their conformation (class 6) and pedigree information (class 7) from best to worst.	<u>2-4-3-1</u> (2-6-7)
8 2 yr old Holsteins – Reasons	<u>4-1-2-3</u> (4-2-3)
9 5 yr old Holsteins – Reasons	<u>3-2-4-1</u> (3-3-4)

**Important – hand this paper in at beginning of 2yr old reasons!  
Make sure all placings are filled in here and on Bubble Sheet.**

L  
2