## Dairy Herd Management Notesheet

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Name:				Hour	Date:	
Date Assignment is due	:		Why late?			Score: + 🗸 –
-	Day of Week	Date			If your project was late, describe why	

**Directions**: Use the accompanying PowerPoint (*available online*) to complete this sheet. This sheet will be due upon the completion of the PowerPoint in class. These assignments are graded on a  $+/\checkmark/$ - scale.

1. What are five ways in which a producer can practice effective management immediately after a calf is born?

	1	
	2	
	3	
	4	
	5	
2.	When should a calf be removed from the birthing pen?	
	Why?	
3.	One of the most significant risks to a newborn calf is	What is this?
4.	What are two signs of this disease?	
5.	What are the two main ways in which a calf could be infected by this disease?	
6.	Besides Johne's, what is another common disease of calves? What is this?	
7.	What are two common causes of scours?	



8.	Newborn calves should be housed in	1	that
	are free of but provide good		
9.	What else could cause diarrhea in a calf?		
10.	Calf scours can result in the loss ofand	from the calf's bo	ody.
	What are electrolytes?	such as	
	that are necessary for		
11.	What are three key signs of scours? 1		
	2 3		
12.	Treating a calf with scours consists primarily of		
13.	How is this treatment administered?		
14.	What is an esophageal feeder?		

15. For each image, **draw & describe** how you would properly administer electrolyte therapy using an esophageal feeder.

16. Most calves are housed in	 . What is this?



17.	Calf hutches should prevent calves from
	and should allow for
18.	Often calf hutches can also include a
19.	True or false: the nutrition a new calf consumes comes mostly from the milk they drink.
20.	True or false: almost all calves are fed whole milk from cows. Explain:
21.	A calf is born early and weighs 50 lbs. How many quarts of milk should it for its morning feeding?
22.	Besides milk, what does a calf consume besides milk when it is under two months of age?
	What is this?
23.	If most of the nutrition that a calf consumes comes from milk, why is the calf starter necessary?
24.	How much starter should a calf get when 4 days old? How much after this?
25.	How much water should a calf get?
26.	When can calves start getting hay?
27.	Of the information provided, what would you conclude are the three most important management practices in order to ensure that newborn calves remain health?
28.	What is a fresh cow?
29.	Milk production is so high after calving that a cow will have a



1. V _	What are two key strategies for ma	naging fresh cows in order to prevent problems?
_		
_		
2. F	Proper milking procedures reduce	he likelihood of of the
(	known as	) and ensure that a
r	eaches the consumer.	
3. V	What are three key management to	echniques to ensure that a milking parlor functions hygienically?
<u>1</u>	L	
<u>2</u>	2	
<u>3</u>	3	
4. T	or F: a milking machine functions	by using a vacuum to suck the milk out of the cow's udder. Explain:
_		
_		
5. T	o stimulate the	, the teats of the cow
n	nust be	. How long must the teats of a cow be
S	timulated?	This causes what to be released into the bloodstream?
_		What is this?
_		
6 V	What are three effects caused by t	ne release of ovytocin the enable milk letdown?



37. How does stress affect the release of oxytocin and the milk letdown process? Include *cortisol* in your answer:

38. What are four things to avoid in order to minimize the release of cortisol and maximize the release of oxytocin?

39. Summarize the four most important things that must occur before a milking unit can be attached to the udder:

40. When stripping a cow's teats, how would you know if a cow had mastitis?

41. What is predip? Why is it necessary?

42. What are signs that a milking unit was improperly applied?

43. T or F: human hands will never touch milk for human consumption when a cow is milked properly.

44. When should the milking unit be removed? \_\_\_\_\_\_

45. T or F: milking machines sense when the cow's udder is emptied and automatically remove the milking machine.

46. T or F: because milking machines are automated, they do not need to be watched once the unit is attached.

47. What should happen after the milking unit is removed?



48. What temperature should milk be cooled to? How quickly?
49. What is used to cool and store the milk?
50. T or F: a bulk tank will separate the milk with antibiotics from the milk without antibiotics.
51. What should be done with milk from cows treated with antibiotics and milk from sick cows?
52. Summarize what you think are the three most important things that must occur when milking a cow:
1
2
<u>3</u>
53. When should a cow be re-inseminated?
54. What is the earliest that a cow could be inseminated after calving?
55. Match each of the following terms to examples of the term:
Accuracy of Selection Selection Intensity Genetic Variation Generation Interval
A. This will increase if a Holstein cow is bred with a Jersey bull.
B. This is maximized when a bull is selected for mating that helps to address weaknesses found in the cow.
C. This would be improved by breeding animals as soon as they are reasonably mature enough to do so. D. This is improved when animals with genetic flaws are removed from the herd instead of being re-bred.
56. Define Heritability in your own words:
57. The color of the hair of a cow would get what kind of heritability score?
The likelihood of a case of mastitis would get what kind of heritability score?
58. How do genetic evaluations of cattle benefit farmers and breeders?
59. Who conducts genetic evaluations of cattle?
60. How often are genetic evaluations conducted?



61.	What are four things that a genetic evaluation might measure?
62. 63.	What is an SCC count?
64.	Currently almost of the cows in the (or over cows) are analyzed by Why is this helpful to farmers?
65.	The genetic information collected in genetic evaluations is recorded as a A PTA is an
66. 67.	<ul> <li>A PTA is simply a used to bulls.</li> <li>If Bull X has a PTA for milk yield of +2000, and Bull Y has a PTA for milk yield of +1500, what does this tell us? <ul> <li>a. Bull X's daughters will all produce 500 lbs. more milk per year than the offspring of bull Y.</li> <li>b. Bull X's daughters will produce 2000 lbs. more milk than all other cows.</li> <li>c. Bull X's daughters will produce an average milk yield that is 2000 lbs. greater than the average of the cows of all the bulls in this genetic database.</li> <li>d. All of the above.</li> </ul> </li> </ul>
68.	<ul> <li>e. None of the above.</li> <li>How should the different PTA's for different traits of bulls be used by a producer when making breeding</li> <li>decisions? Explain in your own words.</li> </ul>
69.	How does a PTA differ from a STA?



70.	T or F: a PTA is basically the same thing as an EPD.	
71.	Why might an STA be easier to read and understand in c	omparison to a PTA?
72.	A bull w/ a score of 0 for milk yield would be	while a bull w/ a +3 would be
73.	STA's are based on standard deviation; what is this?	
74.	A bull with a score of +1 would be better than%	of bulls in that data base. (Hint: add up all of the
	percentages found between -3 and +1). A bull that scores	a +2 is better than% of other bulls.
75.	EBV stands for	. An EBV is the value of a PTA.
76.	Why is the EBV double the value of a PTA?	
77.	Why do PTA, STA, and EBV values keep changing?	
78.	How often are these values updated in the US?	What is likely to
	happen to the PTA/STA/EBV of a bull over time?	
79.	What is a sire summary?	
80.	Look at the sire summary for Juror John – ET. This anima	scored best for what trait?

This animal score worst for what trait? \_\_\_\_\_\_ This animal is closest to average for what trait?

## \_\_\_(Hint: it is easiest to focus on the STA scores igstarrow to determine this info.)

IOLSTEIN JU	JROR JOH	IN-ET				T	21+1619	TRAIT	SIA	_	2		1	0		2
USA 2287161 Sire: KED JURO	100%RHA-NA	TVTL		86 06	-18-03		+1306M	Protein Fat	1.19	High High	$\square$		-	-		+
USA 2124357	100%RHA-NA	TVTL	TD	82	G	M		Final Score	4.15	High				-		+
am: HOLSTEIN	BETTY						+1480	Productive Life	0.63	Low		000	_			$\top$
USA 14266198	100%RHA-NA	A BL		90 E	EEEV G	MD DOM		Stature	1.60	Tall			_			
BODUCTION		%	%R	SIRE	DAM	DAU	GRP	Strength	1.66	Strong				_		+
Milk	+1491	10	93	+797	+1229	25977	24409	Body Depth	1.51	Deep	+					+
Fat	+47	03		+24	+47	953	903	Dairy Form	1.01	Open Rib			-	-		+
Pro	+37	03		+23	+41	773	735	Thurl Width	1.06	Sloped						
01-2008	181 DAUS	124 H	ERDS			56 %RIP	100 % US	B Leas-Side View	0.20	Curved						-
PL	+3.2		69	+1.0	+1.5	SCE 7%	99 %R	R Legs-Rear View	0.92	Straight				-	-	+
SUS	3.11	E3.40	81	3.16	3.15	DCE 6%	65 % H	Foot Angle	0.32	Steep	$\vdash$					+
TVDE	CIVI3 +440	PWG	+509 %B	SIRE	DAM	DAUSC	AASC	Feet & Legs Score	1.72	Hiah		_	-	-		+
Type	+2.51		84	+1.90	+1.56	77.3	80.4	Fore Attachment	2.49	Strong				_		-
UDC	+2.39			+2.10	+1.18			Rear Udder Height	3.24	Wide						
FLC	+.65			13	+2.00	BD +1.16	D +2.07	Udder Cleft	3.12	Strong			-	_	_	$\rightarrow$
01-2008	57 DAUS	45 H	ERDS	EFT	D/H 1.6			Udder Depth	2.03	Shallow	$\vdash$					-
Breeder Bill & E Dwner Al Con	Betty Breeder npany					1H	ACTIVE 03872/S: 1	F Teat Placement R Teat Placement	2.68 2.99	Close Close				_	_	‡

81. Summarize each of the following techniques:

In Vitro Fortilizat	ion:		
Genomics:			

1. What is a topic or concept from this unit that you found to be more challenging? Write or describe below:

In the space below, create a mnemonic, rhyme, analogy, or other strategy to help you remember this particular concept:

2. What is a 2<sup>nd</sup> topic or concept from this unit that you found to be more challenging? Write or describe below:

In the space below, create a mnemonic, rhyme, analogy, or other strategy to help you remember this particular concept:

3. What is a 3<sup>rd</sup> topic or concept from this unit that you found to be more challenging? Write or describe below:

In the space below, create a mnemonic, rhyme, analogy, or other strategy to help you remember this particular concept:

