INSTRUCTIONS

The work we have done so far on your farm is designed to tell us something about the behaviour of dairy cows. To continue with this work, we would like to find out more about the characteristics of commercial dairy cows. Are they similar to other farm animals or other domestic animals? Are they easy to work with? Are they quiet or noisy, intelligent or stupid?

Because you work with them all of the time, we would like to ask you to use your knowledge and experience to answer some questions about dairy cows and also some more general questions about working in the dairy industry. Your opinion on these aspects will assist us in our study of the behaviour of dairy cows.

Some questions will be about cows, some about your working with them, and some about dairy farming. It will take about half an hour to do and we would really appreciate it if you could help.

QUESTIONS

What follows are some questions designed to tell us something about how dairy cows behave at different ages. The questions will ask you to comment on how the cows react to you at different ages, and how the ease or difficulty inworking with them changes. Section Two are some questions about milkers, and Section Three are about calves. Please answer each question as honestly as you can.

Section One: Statements about cows

Please respond to each statement in terms of a five-point scale defined by the labels: disagree strongly; disagree; neither agree nor disagree; agree; agree strongly.

			Tick under th	ne most approp	oriate catego	ry
No.	Statement about cows	Disagree Strongly	Disagree	Neither agree nor disagree	Agree	Agree Srongly
1	Dairy cows are easy animals to work with					
2	Dairy cows are noisy animals					
3	Dairy cows are curious animals					
4	Dairy cows are smelly animals					
5	Dairy cows don't feel pain like humans					
6	Little experience is required to work with dairy cows					
7	Dairy cows are a pleasure to work with					
8	Dairy cows are dirty animals					
9	Dairy cows are entertaining to watch					
10	Dairy cows are intelligent animals					
11	Dairy cows have an ugly appearance	A company				
12	Dairy cows are greedy					
13	Calves are energetic					
14	Dairy cows are easily frightened	-				
15	Dairy cows require respect					
16	Dairy cows are aggressive to their own kind					
17	Dairy cows are frustrating to work with					
18	Dairy cows are friendly towards					
19	Little training is required to work with dairy cows					
20	Dairy cows are stimulating animals					
21	Dairy cows are easy to manage					
22	Dairy cows are lazy animals					
23	Dairy cows are frightened of humans					
24	Little time is required to manage dairy cows					
25	Calves are cute					

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Section Two: Questions about lactating cows

Q1 How difficult are dairy cows to care for at the ages listed below?

Lactating Heifers Very difficult Very easy 1 2 3 4 5 6 7 Older Milkers Very difficult Very easy 2 3 4 5 6 7 1 Q2 How often do you sit or stand (say for more than 2 minutes) and just watch the cows at the following ages? Lactating Heifers Very often Very rarely 2 7 3 4 5 6 1 Older Milkers Very often Very rarely 2 3 1 4 5 6 7 Q3 To what extent do your cows flinch when you put the cups on? Lactating Heifers A lot Very little 2 1 3 4 5 6 Older Milkers A lot Very little 2 3 4 5 6 7 1 Q4 How much time is required to effectively care for dairy cows at the following ages? Lactating Heifers A lot Very little 2 3 4 5 6 7 1 Older Milkers A lot Very little

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-	milking shed	much physical effort (e.g. pushing and slapping) is required to move the cows lking shed at the following ages? **Lactating Heifers**									
A lot						Very little					
1	2	3	4	5	6	7					
	Older M	1ilkers									
A lot						Very little					

Q5b How much physical effort (e.g. pushing and slapping) is required to move the cows out of the milking shed at the following ages?

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Lactating Heifers

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A lot						Very lit	tle
1	2	3	4	5	6	7	
	Older M	lilkers					
A lot						Very lit	tle
1	2	3	4	5	6	7	

Q6a How much variation in milk yeild do you observe amongst your dairy cows at the following ages?

Lactating Heifers

A lot						Very little	Э
1	2	3	4	5	6	7	
	Older M	Iilkers					
A lot						Very little	е
1	2	3	Л	5	6	7	

Q6b How much variation do you observe from day to day amongst dairy cows in speed of milk let down or milking time at the following ages?

A lot						Very litt	le
1	2	3	4	5	6	7	
	Older M	Iilkers					
A lot						Very litt	le
1	2	3	4	5	6	7	

Q7a	How do the dairy cows, at the following ages, react to your presence in the milking
shed v	when you are active in the shed?

	Lacian	ng neijers									
Much m	novement					Little movement					
1	2	3	4	5	6	7					
	Older 1	Milkers									
Much m	novement					Little movement					
1	2	3	4	5	6	7					
	Q7b How do the dairy cows, at the following ages, react to your presence in the milking shed when you are stationary? Lactating Heifers										
Much m	novement					Little movement					
1	2	3	4	5	6	7					
	Older 1	Milkers									
Much m	novement					Little movement					
1	2	3	4	5	6	7					
Q8a	How importa	nt is it to keep	to a regular d	laily routine in	caring for d	lairy cows?					
	Lactati	ng Heifers									
Very im	portant					Not important					
1	2	3	4	5	6	7					
	Older 1	Milkers									
Very im	portant					Not important					
1	2	3	4	5	6	7					
-	Q8b How sensitive are your dairy cows to changes in the daily husbandry routine at the following ages? Lactating Heifers										
Very se	nsitive					Not sensitive					
1	2	3	4	5	6	7					
	Older 1	Milkers									
Very se	nsitive					Not sensitive					
1	2	3	4	5	6	7					

Q9 How often do you talk to your dairy cows during milking at the following ages?								
	Lactating He	eifers						
A lot						Very little		
1	2	3	4	5	6	7		
	Older Milken	'S						
A lot						Very little		
1	2	3	4	5	6	7		
Q10a How	easy are your	dairy cows to	move into the	e milking shed	l at the ages	s listed below?		
	Lactating He	eifers						
Very easy						Very difficult		
1	2	3	4	5	6	7		
	Older Milker	rs						
Very easy						Very difficult		
1	2	3	4	5	6	7		
		dairy cows to	move out of t	he milking sh	ed after mi	lking at the		
ages listed b	elow? Lactating He	eifers						
Very easy						Very difficult		
1	2	3	4	5	6	7		
	Older Milker	'S						
Very easy						Very difficult		
1	2	3	4	5	6	7		
Q11 How ages?	well do your	dairy cows rec	cognise you co	mpared to str	angers at tl	ne following		
	Lactating He	eifers						
Very well						No recognition		
1	2	3	4	5	6	7		
	Older Milker	rs						
Very well						No recognition		
1	2	3	4	5	6	7		

Q12	How much variation in behaviour do you notice between the cows that first come in
for mi	ilking and those that come in last for milking at each milking session?
	Tantatina Haifana

A lot						Very little
1	2	3	4	5	6	7
	Older Mil					
A lot						Very little
1	2	3	4	5	6	7

Q13a How much verbal effort (whistling, shouting) is required to move the dairy cows into the milking shed at the following ages?

Lactating Heifers

A lot of	effort					Very little ef	fort
1	2	3	4	5	6	7	
	Older M	Iilkers					
A lot of	effort					Very little ef	fort
1	2	3	4	5	6	7	

Q13b How much verbal effort (whistling, shouting) is required to move the dairy cows out of the milking shed at the following ages?

Lactating Heifers

A lot of e	effort					Very little e	ffort
1	2	3	4	5	6	7	
	Older M	Iilkers					
A lot of e	ffort					Very little e	ffort
1	2	3	4	5	6	7	

Q14 How often do you have a problem with cups falling off during milking?

Very often							Never
1	2	3	4	5	6	7	
	Older Milker	·s					
Very often							Never
1	2	3	4	5	6	7	

Q15 How timid are your cows at the following ages?

		ng Heijers							
Very t	timid					Not at all timid			
1	2	3	4	5	6	7			
	Older I	Milkers							
Very t	timid					Not at all timid			
1	2	3	4	5	6	7			
Q16	Do you use at	you use automatic cup removers after milking? (Yes or No)							
	Lactati	ng Heifers							
Yes						No			
	Older i	Milkers							
Yes						No			
Q17	How difficult	is it to break y	our heifers in	ito milking?					
Very o	difficult					Very easy			
1	2	3	4	5	6	7			
Q18	How often do	you pat or str	oke your dair	y cows during	milking at tl	he following ages?			
Q18			oke your dair	y cows during	milking at t	he following ages?			
-		you pat or str	oke your dair	y cows during	milking at t				
A lot	Lactati	ng Heifers				Very little			
-	Lactati 2	ng Heifers	oke your dair 4	y cows during	milking at the				
A lot	Lactati	ng Heifers				Very little 7			
A lot 1 A lot	Lactati 2 Older 1	ng Heifers 3 Milkers	4	5	6	Very little 7 Very little			
A lot	Lactati 2	ng Heifers				Very little 7			
A lot 1 A lot	Lactati 2 Older 1 2	ng Heifers 3 Milkers	4	5	6	Very little 7 Very little 7			
A lot 1 A lot 1	Lactati 2 Older 1 2 How importa	ng Heifers 3 Milkers 3	4	5	6	Very little 7 Very little 7			
A lot 1 A lot 1 Q19	Lactati 2 Older 1 2 How importa	ng Heifers 3 Milkers 3 nt is it to keep	4	5	6	Very little 7 Very little 7			
A lot 1 A lot 1 Q19	Lactati 2 Older 1 2 How importa	ng Heifers 3 Milkers 3 nt is it to keep	4	5	6	Very little 7 Very little 7 lairy cows?			
A lot 1 A lot 1 Q19 Very i	Lactati 2 Older 1 2 How importa Lactati mportant	ng Heifers 3 Milkers 3 nt is it to keep ng Heifers	4 to a regular d	5 Slaily routine in	6 a caring for d	Very little 7 Very little 7 lairy cows? Not important			
A lot A lot Q19 Very i 1	Lactati 2 Older 1 2 How importa Lactati mportant 2 Older 1	ng Heifers 3 Milkers 3 nt is it to keep ng Heifers	4 to a regular d	5 Slaily routine in	6 a caring for d	Very little 7 Very little 7 lairy cows? Not important 7			
A lot A lot Q19 Very i 1	Lactati 2 Older 1 2 How importa Lactati mportant 2	ng Heifers 3 Milkers 3 nt is it to keep ng Heifers	4 to a regular d	5 Slaily routine in	6 a caring for d	Very little 7 Very little 7 lairy cows? Not important			

Section Three: Questions about calves

Q20	How difficult	are calves to	care for?				
Very	difficult					Very eas	у
1	2	3	4	5	6	7	
Q21 calves Very		you sit or star	nd (say for mo	re than 2 min	utes) and jus	t watch your Very rarel	v
1	2	3	4	5	6	7	J
Q22	How much tin	ne is required	to effectively	care for calves	s?		
A lot						Very littl	e
1	2	3	4	5	6	7	
Q23	How much ph	ysical effort (e.g. pushing a	nd slapping) is	s required to	move calves?	
A lot						Very littl	е
1	2	3	4	5	6	7	
Q24	How importa	nt is it to keep	a regular dail	ly routine in ca	aring for cal	ves?	
•	How importation	nt is it to keep	a regular dail	ly routine in ca	aring for cal	v es? Not importar	nt
•		nt is it to keep	a regular dail	ly routine in ca	aring for cal		nt
Very i	mportant	3	4	5	6	Not importar	nt
Very i 1 Q25	important 2	3	4	5	6	Not importar	
Very i 1 Q25	mportant 2 How sensitive	3	4	5	6	Not importar 7 tine?	
Very i 1 Q25 Very s	important 2 How sensitive sensitive	3 are your calv	4 ses to changes	5 in the daily hu 5	6 isbandry rou 6	Not importar 7 tine?	
Very i 1 Q25 Very s	important 2 How sensitive sensitive 2 How well do y	3 are your calv	4 ses to changes	5 in the daily hu 5	6 isbandry rou 6	Not importar 7 tine?	e
Very i 1 Q25 Very s 1 Q26	important 2 How sensitive sensitive 2 How well do y	3 are your calv	4 ses to changes	5 in the daily hu 5	6 isbandry rou 6	Not importar 7 tine? Not sensitiv 7	e
Very i 1 Q25 Very s 1 Q26 Very v	important 2 How sensitive sensitive 2 How well do y	3 your calves rec	4 4 cognise you co	5 in the daily hu 5 mpared to stra	6 isbandry rou 6 angers?	Not importan 7 tine? Not sensitiv 7	e
Very i 1 Q25 Very s 1 Q26 Very s 1	important 2 How sensitive 2 How well do y well 2 How timid are	3 your calves rec	4 4 cognise you co	5 in the daily hu 5 mpared to stra	6 isbandry rou 6 angers?	Not importan 7 tine? Not sensitiv 7	e