

## COW WELFARE ASSESSEMENT – TIE STALL SCORING (COMPILATION)

**Farm ID:** (province-DHI 5 digit e.g. ON10020)

**Type: TS or FS** (choose 1 answer)

**Date:** (dd-mm-yyyy)

**Observer:** (first name, last name)

*N.B.: Animal-based measures/in-barn checklist/management questionnaire refer to the group of high-production cows*

### SECTION 1 – ACCOMODATION AND HOUSING

#### 1.1. STALL DESIGN

##### A) LYING TIME

###### ANIMAL-BASED MEASURE

**TARGET: Comfortable dairy cows lie down for 12 h/d.**

###### FARM SCORE:

Herd average lying time = ..... h/d (calculated from accelerometers on 40 cows x 4 days)

Attribute a farm score according to if the measure meets or exceeds, almost meets or does not meet the target

Herd average total lying time, h/d	FARM SCORE
Meets or exceeds TARGET : $\geq 12$	2 (100 %)
Almost meets TARGET: $12 > x > 10$	1 (50 %)
Does not meet TARGET: $\leq 10$	0 (0%)

###### CHEKLIST: NO MEASURE

###### QUESTIONNAIRE: NO QUESTION

**B) HOCK, KNEE AND KNECK INJURIES****ANIMAL-BASED MEASURE**

**TARGET: Comfortable stalls minimize hock, knee and neck injuries.**

**FARM SCORE:**

Measure on each of the 40 focal cows the level of injuries for hock, neck and knee.

Attribute a farm score according to the % of cows without injuries for the 3 types of injuries

Level of injuries	0 (no injuries)	1(minor injuries)	2 (major injuries)	3 (major + injuries)	FARM SCORE
Hock	%	%	%	%	% of 0 injuries
Knee	%	%	%	%	% of 0 injuries
Neck	%	%	%	N/A	% of 0 injuries
				<b>FARM SCORE =</b>	<b>sum/3</b>

**CHEKLIST: NO MEASURE****QUESTIONNAIRE: NO QUESTION**

### C) STALL CONFIGURATION

ANIMAL-BASED MEASURE: NO MEASURE

#### CHECKLIST

#### TARGET 1: 100 % of cows fitting in their stall for electric trainer.

Based on the measures of the 40 individual cows (length and width) – report results from Excel sheet (XXX) in the following table.

Attribute a farm score according to the % of cows fitting in their stall for horizontal position and height of electric trainer

	Nb of cows fitting in their stall
Height of electric trainer	%
FARM SCORE target 2	% fit in horizontal position+% fit in height/2

#### TARGET 2: 100 % of cows fitting in their stall for lunge space.

Based on the measures of the 40 individual cows (length and width) – report results from Excel sheet (XXX) in the following table.

Attribute a farm score according to the % of cows fitting in the average stall for lunge space

	Nb of cows fitting in their stall
Lunge space (Target 2)	%

#### TARGET 3: 100 % of cows fitting in their stall for bed length and width.

Based on the measures of the 40 individual cows (length and width) – report results from Excel sheet (XXX) in the following table.

Attribute a farm score according to the % of cows fitting in their stall for bed length and width

	Nb of cows fitting in their stall
Stall width	%
Bed length	%
FARM SCORE target 3	% fit in width+% fit in length/2

**TOTAL SCORE TARGET 1 + 2+3 (equal weighting) = TOTAL SCORE TARGET 1 x 33 % + TOTAL SCORE TARGET 2 x 33 % + TOTAL SCORE TARGET 3 x 33 %**

QUESTIONNAIRE: NO QUESTION

## 1.3 STALL MANAGEMENT

ANIMAL-BASED MEASURE: NO MEASURE

### CHECKLIST

#### A) STALL BASE

TYPE

#### B) STALL BEDDING

TYPE

QUANTITY

QUALITY

**TARGET: Provide deep-bedded dry stalls**

#### FARM SCORE:

Based on the questions **Q112-113-114-115** in the checklist.

Attribute a score to the farm (choose the option that fits the best)\*:

\* Choose the main stall-base type. If 50/50, then choose the most comfortable.

Stall base: TYPE Q112	Bedding: QUANTITY Q113-1114	Bedding: QUALITY Q115		FARM SCORE
concrete	none	-	<i>Does not</i> meet requirement	0 (0%)
	little	wet/very wet	Meets requirements <i>BUT not</i> recommendations	1 (33 %)
		dry	Meets requirements <i>BUT not</i> recommendations	1 (33 %)
	deep	wet/very wet	Meets requirements <i>AND some</i> recommendations	2 (66 %)
		dry	Meets requirements <i>AND</i> recommendations	3 (100 %)
hard rubber mat/DIRT	none	-	<i>Does not</i> meet requirement	0 (0%)
	little	wet/very wet	Meets requirements <i>BUT not</i> recommendations	1 (33 %)
		dry	Meets requirements <i>BUT not</i> recommendations	1 (33 %)
	deep	wet/very wet	Meets requirements <i>AND some</i> recommendations	2 (66 %)
		dry	Meets requirements <i>AND</i> recommendations	3 (100 %)
Mattress/WATERBED	none	-	Meets requirements <i>BUT not</i> recommendations	1 (33 %)
	little	wet/very wet	Meets requirements <i>AND some</i> recommendations	2 (66 %)
		dry	Meets requirements <i>AND some</i> recommendations	2 (66 %)
	deep	wet/very wet	Meets requirements <i>AND some</i> recommendations	2 (66 %)
		dry	Meets requirements <i>AND</i> recommendations	3 (100 %)

QUESTIONNAIRE: NO QUESTION

## C) STALL/BEDDING MANAGEMENT

### ANIMAL-BASED MEASURE

**TARGET 1: Cows must be kept in an environment with a low level of contamination (1) – evaluation of cow cleanliness.**

N.B.: Cow cleanliness reflects the level of contamination of the environment. Udder and upper leg-flank cleanliness reflects cleanliness of bedding and stall. Lower leg cleanliness reflects cleanliness of walking areas.

#### FARM SCORE:

Measure on each of the 40 focal cows the level of cleanliness for upper leg-flank, udder and lower leg.

Attribute a farm score according to the % of cows with score 0-1 for all 3 body parts

Level of cleanliness	0 (clean)	1 (light contamination)	2 (heavy contamination)	3 (very heavy contamination)	FARM SCORE Target 1
Upper leg-flank	%	%	%	%	% of score 0-1
Udder	%	%	%	%	% of score 0-1
Lower leg	%	%	%	%	% of score 0-1
<b>FARM SCORE Target 1=</b>					<b>sum/3</b>

### CHECKLIST

**TARGET 2: Cows must be kept in an environment with a low level of contamination (2) – evaluation of stall cleanliness.**

#### FARM SCORE:

Based on the questions **Q116** in the checklist.

Stall cleanliness	FARM SCORE Target 2
Meets TARGET : <u>all stalls</u> scored A or B	2 (100 %)
Almost meets TARGET : <u>all stalls</u> scored A, B or C	1 (50 %)
Does not meet TARGET : <u>some stalls</u> scored D or E	0 (0%)

### QUESTIONNAIRE

**TARGET 3: Stalls must be cleaned at every milking.**

#### FARM SCORE:

Based on the questions **Q2** in the questionnaire.

Stall raked out and patties removal	FARM SCORE Target 3
Meets TARGET and recommendations : A	2 (100 %)
Meets TARGET : B	1 (50 %)
Does not meet TARGET : C or D	0 (0%)

**TARGET 4: Stalls must be routinely bedded.****FARM SCORE:**

Based on the questions **Q3** in the questionnaire.

Adding new bedding	FARM SCORE Target 4
Meets TARGET: A or B	2 (100 %)
Almost meets TARGET : C	1 (50 %)
Does not meet TARGET : D	0 (0%)

**TOTAL SCORE TARGET 1 + 2 + 3 + 4 (equal weighting) = FARM SCORE TARGET 1 x 25 % + FARM SCORE TARGET 2 x 25 % + FARM SCORE TARGET 3 x 25 % + FARM SCORE TARGET 4 x 25 %**

## SECTION 2 – FEED AND WATER

### 2.1 BODY CONDITION SCORING

#### ANIMAL-BASED MEASURE

**TARGET:** no cows should be at a BCS of 2 or lower

#### FARM SCORE:

Measure BCS on each of the 40 focal cows.

Attribute a farm score according to the number of cows with  $BCS \leq 2$ .

Milking and holding time	FARM SCORE
Meets TARGET : 0/40 cows with $BCS \leq 2$	2 (100 %)
Almost meets TARGET : 2/40 cows with $BCS \leq 2$ (within 5 %)	1 (50 %)
Does not meet TARGET : More than 2/40 cows with $BCS \leq 2$ (below 5 %)	0 (0%)

#### CHEKLIST: NO MEASURE

#### QUESTIONNAIRE: NO QUESTION

## 2.2. NUTRITION AND FEED MANAGEMENT

### ANIMAL-BASED MEASURE

#### QUESTIONNAIRE+ CHECKLIST

#### TARGET 1: Provide feed to the cow daily

##### FARM SCORE:

Based on the questions **Q9** in the questionnaire.

Fresh feed	Q9	FARM SCORE target 1
Exceeds TARGET 1:	A	2 (100 %)
Meets TARGET 1:	B	1 (50 %)
Does not meet TARGET 1:	C	0 (0%)

#### TARGET 2: Keep a consistent feeding schedule

##### FARM SCORE:

Based on the questions **Q10 (TMR) or Q12 (no TMR)** in the questionnaire.

Fresh feed	Q10	Q12	FARM SCORE target 2
Meets TARGET 2: consistent schedule	A, B or C	Producer provided a schedule	1 (100 %)
Does not meet TARGET 2 : inconsistent schedule	D	Producer did not provide a schedule	0 (0 %)

#### TARGET 3: Ensure continuous access to feed

##### FARM SCORE:

Based on the questions **Q11 (TMR) or Q12 (no TMR)** in the questionnaire and **Q128** in checklist.

Push-up routine	Q11	Q12	FARM SCORE Q12
Meets TARGET 3:	A	2 forages or more	2 (100 %)
Almost meet TARGET 3:	B	1 forage + 1 concentrate delivered at 2 different time	1 (50 %)
Does not meet TARGET 3 :	C or D	1 forage + 1 concentrate deliver at the same time	0 (0%)

Estimate continuous feed access	Q128	FARM SCORE Q128
Meets TARGET 3:	4 x A	2 (100 %)
Almost meet TARGET 3:	3 x A	1 (50 %)
Does not meet TARGET 3 :	2 x A and less	0 (0%)

Continuous feed access Q11/12 + Q128	FARM SCORE target 3	= FARM SCORE Q11/Q12 + Q128/2
--------------------------------------	---------------------	-------------------------------



## SECTION 3 – HEALTH AND WELFARE MANAGEMENT

### 3.1 LAMENESS

#### ANIMAL-BASED MEASURE

**TARGET 1: Less than 10 % of obvious or severe lame cows**

#### FARM SCORE:

Measure gait score on each of the 40 focal cows.

Attribute a farm score according to the number of cows with gait score for obviously/severely lame.

Prevalence lameness	FARM SCORE target 1
Exceeds TARGET 1: $\leq$ 5 % obviously/severely lame 2/40 cows or less	3 (100 %)
Meets TARGET 1 : 6-10 % obviously/severely lame 3/40 cows	2 (66 %)
Almost meets TARGET 1: 11-15 % obviously/severely lame 4-6/40 cows	1 (33 %)
Does not meet TARGET 1: $>$ 15 % obviously/severely lame More than 6/40 cows	0 (0 %)

#### QUESTIONNAIRE

**TARGET 2: Routinely observe cows for lameness**

#### FARM SCORE:

Based on the questions **Q25** in the questionnaire.

Observe for lame cows	Q25	FARM SCORE target 2
Meets TARGET 2	B or C	2 (100 %)
Almost meet TARGET 2:	D	1 (50 %)
Does not meet TARGET 2	A or E	0 (0%)

**TARGET 3: Proper procedure to treat lame cows**

#### FARM SCORE:

Based on the questions **Q29** in the questionnaire.

Treat lame cows	Q29	FARM SCORE target 3
Meets TARGET 3	A or B	2 (100 %)
Almost meet TARGET 3	C	1 (50 %)
Does not meet TARGET 3	D or E	0 (0%)

**TARGET 4: Keep complete record of lameness****FARM SCORE:**

Based on the questions **Q28** in the questionnaire.

Record lameness	Q28	FARM SCORE target 4
Meets TARGET 4	A, B or C	2 (100 %)
Almost meet TARGET 4	D	1 (50 %)
Does not meet TARGET 4	E	0 (0%)

**TOTAL SCORE TARGET 1 + 2 + 3 + 4 (equal weighting) = FARM SCORE TARGET 1 x 25 % + FARM SCORE TARGET 2 x 25 % + FARM SCORE TARGET 3 x 25 % + FARM SCORE TARGET 4 x 25 %**

**3.2 CLAW HEALTH/HOOF-TRIMMING****ANIMAL-BASED MEASURE****QUESTIONNAIRE**

**TARGET 1: Trim claw approximately two months before calving to prevent and minimize lameness after calving**

**FARM SCORE:**

Based on the questions **Q35** in the questionnaire.

Hoof-trimming procedure	Q35	FARM SCORE target 1
Meets TARGET 1	B or C	2 (100 %)
Almost meet TARGET 1	A	1 (50 %)
Does not meet TARGET 1	D or E	0 (0%)

**TARGET 2: Keep complete record of hoof-trimming**

**FARM SCORE:**

Based on the questions **Q39** in the questionnaire.

Record hoof-trimming	Q39	FARM SCORE target 2
Meets TARGET 1	A	1 (100 %)
Does not meet TARGET 1	B	0 (0 %)

**TOTAL SCORE TARGET 1 + 2 (equal weighting) = FARM SCORE TARGET 1 x 50 % + FARM SCORE TARGET 2 x 50 %**

*SECTION 4 – CALVING (No target)*

*SECTION 5 – CODE OF PRACTICES (No target)*