

# CAFRE Dairy Herd Mobility Management





# Why focus on improving cow mobility?



- ➤ Welfare issue-painful and stressful condition
- ➤ Cows more likely to be culled
- ➤ Milk yield loss-range 200-600 litres/lactation
- Fertility- longer to get in calf (20-40 days)
- ➤ Feeding behaviour- < DMI's for animals in early lactation/reduced feeding times
- ➤ HIDDEN COSTS! Average case £323

Lameness costs money!

# Management strategies to improve cow mobility in the CAFRE Dairy Herd



- ➤ CAFRE dairy herd mobility scored on a monthly basis
- ➤ Cows with score 2 or greater are scheduled for foot trimming **ASAP**
- ➤ Specific hoof trimming crush
- Dairy staff trained in hoof trimming
- >Zero tolerance policy to lame cows
- ➤ Preventative hoof trimming carried out at drying off
- ➤ Cows feet washed after every milking through the VINK footwash
- ➤ Both milking and dry cows are footbathed once per week (2% copper sulphate/2% commercial product (Healthy Hooves)
- ➤ Good walking surfaces for dairy cows
- ➤ Lame cows housed on straw to aid recovery/nearby paddock in summer

## Dairy Centre design features to reduce lameness



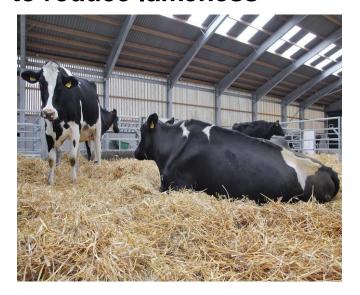


Figure 1- Pre/post calving straw pens



Figure 2- Specific hoof trimming facilities



Figure 3- Comfortable cubicles



Figure 4- Vink hoof washer



Figure 5- Floors with good grip

### **Mobility scoring**



- ➤ Early detection of lame cows is critical
- ➤ Mobility scoring is an early detection system based on a score of 0-3 (see chart over page)
- ➤ Aim is to detect animals scoring 2 & 3
- CAFRE dairy herd scored monthly
- ➤ Research has demonstrated cows which are detected early (score 2) have improved recovery rates



Figure 6- On farm mobility scoring demonstration

## DairyCo Mobility Score

Collegery of start	Score	Description of cow behaviour	Suggested action
Good mobility	0	Walks with even weight bearing and rhythm on all four feet, with a flat back.  Long, fluid strides possible.	<ul> <li>No action needed.</li> <li>Routine (preventative) foot trimming when/if required.</li> <li>Record mobility at next scoring session.</li> </ul>
Imperfect mobility	1	Steps uneven (rhythm or weight bearing) or strides shortened; affected limb or limbs not immediately identifiable.	Could benefit from routine (preventative) foot trimming when/if required. Further observation recommended.
Impaired mobility	2	Uneven weight bearing on a limb that is immediately identifiable and/or obviously shortened strides (usually with an arch to the centre of the back).	Lame and likely to benefit from treatment. Foot should be lifted to establish the cause of lamenes before treatment. Should be attended to as soon as practically possible.
Severely impaired mobility	3	Unable to walk as fast as a brisk human pace (cannot keep up with the healthy herd) and signs of score 2.	<ul> <li>Very lame.</li> <li>Cow will benefit from treatmen</li> <li>Cow requires urgent attention, nursing and further professions advice.</li> <li>Cow should not be made to walk far and kept on a straw yard or at grass.</li> <li>In the most severe cases, culling may be the only possible solution.</li> </ul>

### CAFRE Dairy herd mobility results @ C



## 12 month average Mobility Index (mobility index measures the proportion of the herd not lame)

- Milking cows 90%

Table 1- Mobility index 2019/20

Month	Mobility Index (%)	Average score
November	91	0.76
December	90	0.87
January	-	-
February	89	0.83

➤ All lame cows are recorded on a foot trimming report (see over page)

<sup>\*</sup> Research carried out by AFBI on 57 dairy farms found that on average 1/3 of cows on these farms were lame, giving an average mobility index of 67%.

	Greenmount Campus	Date _		
L	Foot trimming report			
Cown	o Date	Cow no	Date	Cow no Date
	HEAD		HEAD	неар
				AD
Cowr	no Date	Cow no	Date	Cow no Date
	HEAD		HEAD	HE A
Severity	Diagnosis U ulcer	ı	G1	1
1= mild/slig 2= moderate			Cow no 7	e
3= severe	I interdigital growth F foul		Outer	
	L Laminitis LL acute laminitis		claw 1 U	
	toe necrosis  Sole bruising		Left rear	Left front
	# Double sole  Bulb infection		Inner	3 F
	H Heel erosion foreign body is	stones		НЕАД
	Burst at heel		Right rear	Right front
	A Abscess FI Fissures			2 L
	B bandage S shoe			
	S shoe N needs treated again			

#### Footbathing management



There are 4 key areas to consider in terms of footbathing which are:

- ➤ Footbath design
- ➤ Calibration of footbath
- Frequency of footbathing
- >General management

#### **Greenmount Dairy Centre footbathing**

- Split footbath design
- -Dimensions
  - ≥3.7m long
  - >81cm wide
  - >24cm step in on entry
  - ➤Internal depth 18cms
- Calibration
- 8 \* 14 litre buckets per side = 112 litres/side (total 224 litres)
- 112 litres @ 2% copper sulphate = 2.24kg & 2% commercial product (Healthy Hooves) = 2.24L

Assume 1 litre of treatment solution required per cow

Footbath holds 224 litres which is 224 cow passes