Resting time as an indicator for welfare status on farms.
DAIRY COW

What consumers think I do

What the vet thinks I do

What the farmer thinks I do

What milk processors think I do

What I think I do

What I actually do

What the vet thinks I do
DAIRYMASTER – RESTING TIME AS AN INDICATOR FOR WELFARE STATUS ON FARMS.
A HAPPY COW PRODUCES MORE MILK
Lisbon Treaty

DAIRYMASTER - RESTING TIME AS AN INDICATOR FOR WELFARE STATUS ON FARMS.
SUSTAINABLE PRODUCTION

- Full life production
- Health monitoring
- Reproductive performance
- Welfare

DAIRYMASTER - RESTING TIME AS AN INDICATOR FOR WELFARE STATUS ON FARMS.
HOW TO MEASURE COW WELFARE?

AVMA:
An animal that is healthy, comfortable, well-nourished, safe, able to express innate behaviour, and that is not suffering from unpleasant states such as pain, fear, and distress.

**Indicators for animal welfare**

- Locomotion
- Flight distance
- BCS
- % culled cows
- Cow hygiene
- Resting time
- Skin and hocks
- Udder and teat
MONITORING BEHAVIOUR

- Rumination
- Feeding
- Resting time
- Activity
- Heat detection
- Health monitoring

DAIRYMASTER – RESTING TIME AS AN INDICATOR FOR WELFARE STATUS ON FARMS.
AUTOMATICALLY MONITORING BEHAVIOURS

- Every second 3D measurements
- Every 15 minutes communication base station
- Farm scanner cloud server
- Big data
- Always up to date
- From any platform in the world!!!
## Measuring Resting Time

**DairyMaster – Resting Time as an Indicator for Welfare Status on Farms.**

<table>
<thead>
<tr>
<th>Longer resting times</th>
<th>Excessive Resting</th>
<th>Too little resting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Claw health</td>
<td>Sick</td>
<td>Heat stress</td>
</tr>
<tr>
<td>Production</td>
<td>Injury</td>
<td>Acute pain</td>
</tr>
</tbody>
</table>
• 172 cows
• 126 days
• Resting time
• ‘Sick days’ vs normal
RESULTS

Resting (min/day)

<table>
<thead>
<tr>
<th></th>
<th>Normal</th>
<th>Sick</th>
<th>Difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal</td>
<td>511</td>
<td>612</td>
<td>101</td>
</tr>
<tr>
<td>Sick</td>
<td></td>
<td></td>
<td></td>
</tr>
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<td>Difference</td>
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</table>
DAIRYMMASTER - RESTING TIME AS AN INDICATOR FOR WELFARE STATUS ON FARMS.
Better Software
Better Apps
Better Battery Life
Better Range
Much More Information

DAIRYMASTER - RESTING TIME AS AN INDICATOR FOR WELFARE STATUS ON FARMS.
THANKS FOR YOUR TIME

DAIRYMATING – RESTING TIME AS AN INDICATOR FOR WELFARE STATUS ON FARMS.

Web www.dairymaster.com  @dairymaster  /dairymaster