International Committee for Animal Recording

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What is ICAR

ICAR (International Committee for Animal Recording) is the World-Wide Organization for the Standardization of Animal Identification, Recording and Genetic Evaluation.
Where does ICAR work?
ICAR History

- First Dairy Performance Recordings in USA 1883
- Early Attempt to Internationally Standardize Milk Recording in Europe 1923
- Foundation of the European Milk/Butter Recording Committee 1951
- Introduction of Computerized System ‘60s
- Interbull 1988
- Other Species early 90s
- Genomic application late ‘00s
- Heath and Welfare Traits early ‘10s
Who do we work for?
Missions of ICAR

Activities:
- Identification
- Performance Recording (quantity and quality)
- Genetic Evaluation (Interbull)

Species:
- Cattle (dairy and beef)
- Sheep
- Goats
- Buffalo
- Alpaca
Missions of ICAR

Providing Information and Services to help its Member Organizations to Develop, Operate and Manage their Business

Promote Benefits of Identification, Recording and Evaluation

Increasing the Demand for the Services Provided by ICAR Member Organizations
Guidelines and Standard

– Provision of **Services**
– Exchange of **Information**

through ICAR Member Organization can **Work Together to Achieve Shared Objectives**
Performance Recording Activities

Minimum Requirements to Ensure a Satisfactory Degree of Uniformity of Recording and Maximum Flexibility in the Choice of Methods

Recording Organization is Free to Determine its Particular Recording Methodology
ICAR Today

ICAR today has 93 Member Organizations from 53 Countries

ICAR has 4 Sub-Committees, 12 Working Groups and 1 Task Force

About 115 Technicians work voluntarily to Fulfill ICAR Missions
ICAR Sub-Committees

Interbull

- Uppsala centre (Sweden)
- International Genetic Comparison of Cattle
- Productive and Morphology traits
- Genomic application (GEBV)
ICAR Sub-Committees

Recording Devices

› Give Acceptable Working Level of Recording Devices
› Test and Approve Recording Devices
› Control Maintenance and Accuracy of Recording Devices

Table 11.6. Valid reading in the field test per species (minimum and maximum).

<table>
<thead>
<tr>
<th>Species</th>
<th>Milk production (reference)</th>
<th>Fat percentage (reference)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cattle</td>
<td>2 – 40 kg</td>
<td>2 – 7 %</td>
</tr>
<tr>
<td>Buffalo</td>
<td>0.8 – 12 kg</td>
<td>3 – 15 %</td>
</tr>
<tr>
<td>Goat</td>
<td>0.3 – 6 kg</td>
<td>2 – 8 %</td>
</tr>
<tr>
<td>Sheep</td>
<td>0.3 – 6 kg</td>
<td>2 – 12 %</td>
</tr>
</tbody>
</table>
## Approved milkometers for cattle

### List of the approved milkometers

<table>
<thead>
<tr>
<th>Meter</th>
<th>Manufacturer</th>
<th>Brand name Company/country</th>
<th>Control unit</th>
<th>Species</th>
<th>Picture (Click to enlarge)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Afinfo 2000</td>
<td>SAE Alkem Israel</td>
<td>Fullwood</td>
<td></td>
<td>Cattle</td>
<td><img src="image1.png" alt="Picture" /></td>
<td></td>
</tr>
<tr>
<td>Afinfo 2000</td>
<td>SAE Alkem Israel</td>
<td></td>
<td></td>
<td>Cattle</td>
<td><img src="image2.png" alt="Picture" /></td>
<td></td>
</tr>
<tr>
<td>FullFlow (M992)</td>
<td>SAE Alkem Israel</td>
<td></td>
<td></td>
<td>Cattle</td>
<td><img src="image3.png" alt="Picture" /></td>
<td></td>
</tr>
<tr>
<td>Af-Lite</td>
<td>SAE Alkem Israel</td>
<td></td>
<td></td>
<td>Cattle</td>
<td><img src="image4.png" alt="Picture" /></td>
<td></td>
</tr>
<tr>
<td>Auto-sampling System VM5</td>
<td>Delaval AB, Sweden</td>
<td></td>
<td></td>
<td>Cattle</td>
<td><img src="image5.png" alt="Picture" /></td>
<td></td>
</tr>
<tr>
<td>Bou-Numatic Pankeret 2000</td>
<td>Bou-Numatic USA</td>
<td></td>
<td></td>
<td>Cattle</td>
<td><img src="image6.png" alt="Picture" /></td>
<td></td>
</tr>
<tr>
<td>Daily Master Weighall</td>
<td>Dairymaster</td>
<td></td>
<td></td>
<td>Cattle</td>
<td><img src="image7.png" alt="Picture" /></td>
<td></td>
</tr>
</tbody>
</table>
ICAR Sub-Committees

Identification

› Give International Standard of Identification System
› Test and Approve Identification System
› Registering Authority for ISO
ICAR Sub-Committees

Milk Analysis

› Improve Efficiency and Effectiveness of Milk Testing Laboratories

› International Ring Test
ICAR SubCommittee

- Animal Identification
- Interbull
- Milk Analysis
- Recording Devices
ICAR Working Groups

- Lactation Calculation Methods
- Animal Data Recording
- Genetic Analysis
- Functional Traits
- Milk Recording in Goats
- Developing Countries
ICAR Working Groups

- Milk Recording in Sheep
- Beef Recording and Evaluation
- Artificial Insemination and Relevant Technologies
- Conformation Recording
- Fiber Recording
- Parentage Recording
What ICAR Provides
Standards for Animal Industry

Technical Workshops

Exchange of Information

Networking

Technical Developments

International Representation and Lobbying Activities

Newsletter

Technical Books

International Genetic Evaluation
Additional Services

Certificate of Quality

- Professional Quality Assurance Supervision to improve Activities and Certifies Quality of Services
- Different for species
- Different for Activities
  - Identification
  - Recording
  - Genetic Evaluation
The Future
• Health and Welfare Traits
• Improving efficiency
• Genomic application
• Environmental Traits
• New species and production
• …
Thanks for Your Attention!