International Committee for Animal Recording
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
Recorded Dairy Cows in 1935

(1 point → 2,500 Recorded Cows)
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

ICAR today has 87 Member Organizations from 51 Countries

ICAR has 4 Sub-Committees and 12 Working Groups

About 100 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>Affrica 2000</td>
<td>SAE Afikim Israel</td>
<td>Fullwood</td>
<td></td>
<td>Cattle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Affrica 2000</td>
<td>SAE Afikim Israel</td>
<td></td>
<td></td>
<td>Cattle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fullflow (MMPS)</td>
<td>SAE Afikim Israel</td>
<td></td>
<td></td>
<td>Cattle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Afflite</td>
<td>SAE Afikim Israel</td>
<td></td>
<td></td>
<td>Cattle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Autosampling System VMS</td>
<td>Delaval AB, Sweden</td>
<td></td>
<td></td>
<td>Cattle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bou-Matic Perfection 3000</td>
<td>Bou-Matic USA</td>
<td></td>
<td></td>
<td>Cattle</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dairy Master Weighall</td>
<td>Dairymaster</td>
<td></td>
<td></td>
<td>Cattle</td>
<td></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
Trying to Satisfy (almost…) all Requirements of our Members
Additional Services

Benchmark

– Service to every local or national animal recording agencies
– Compare internationally and nationally the performances of agencies
– For Type of Services, Customer Service, Milk laboratory, Data Processing, Financial Aspects, Overhead, Service Costs, Advisory Services, …
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
Additional Services

PSAS
(Patenting Sentinel and Action Service)

✓ Website offering information on patenting
✓ Works by sharing news among members
✓ Hires an expert to support the service:
  • to propose themes
  • to verify information
  • To answer questions
✓ Service for free
ICAR and Animal Identification
ICAR and Animal Identification

• Interest since the early days
• Proper identification as base for herd management and genetic evaluation
• Traceability for sanitary reasons and food
ICAR and Animal Identification

- Importance for identification from the herd to national agencies
- ICAR expertise and vicinity to farmers’ necessities
- Serving animal industry
ICAR and Animal Identification

- National authorities and international organization
- Registration Authority for ISO for Radio Frequency Identification Devices
ICAR and Animal Identification

• ICAR guarantees high expertise and full neutral

• Hundreds of tested identification devices

• Available information from ICAR website (large amount of visits)
The Future
• Health and Welfare Traits
• Data exchange
• Improving efficiency
• Genomic application
• New species and production
• …
Thanks for Your Attention!

www.icar.org