



 **FAO – ICAR Workshop** 

“Role and work of ICAR Sub-Committee on Animal Identification”

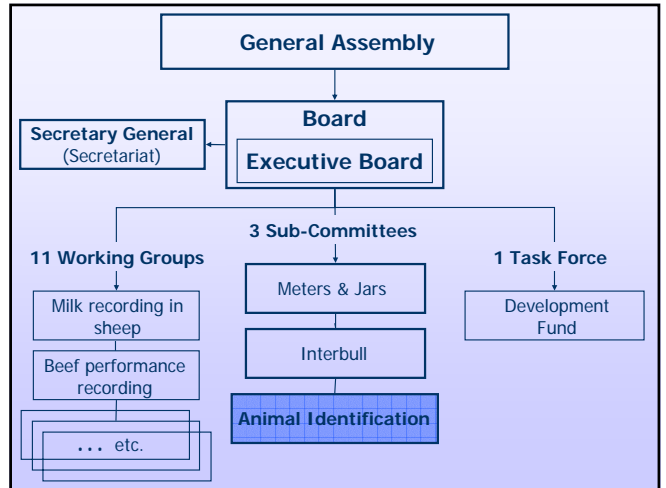
Reinhard Pauw, Germany


What is ICAR ? 



What is ICAR ? 

- ♦ ICAR (International Committee for Animal Recording) is the World-Wide Organization for the Standardization of Animal Recording and Productivity Evaluation
- ♦ ICAR is a Non-Profit International Non-Governmental Organization (INGO)
- ♦ ICAR is registered in Paris (France)
- ♦ ICAR Secretariat is located in Rome (Italy)
- ♦ ICAR has 56 members in 46 countries



Missions of ICAR 



Missions of ICAR 

- Providing information and services**
 - ♦ to help its member organizations to develop, operate and manage their business
 - ♦ which promote benefits of recording and evaluation.
- Providing guidelines and standards**
 - ♦ which facilitate the provision of services and the exchange of information
- Providing a body**
 - ♦ through which member organization can work together to achieve shared objectives

Animal identification: what for?



Unique, unequivocal identification and registration is a basic requirement for all activities where

- individual animal recognition is necessary, e.g.:
 - farm management
 - animal recording/animal breeding
 - animal health/disease prevention
 - purposes of trade
 - control of subsidies etc.
- traceability in terms of consumer protection is required.

ID: Who cares for quality?



- Due to the occurrence of new (BSE) and old (FMD) epizootic diseases and various food crises, identification systems needed to be further developed during the recent past.
- With the development of sophisticated I&R-systems the demands regarding devices used in animal identification increased too.
- Growing requirements of customers are answered by a flowering market of devices being offered.
- Who cares for reliable and independent information on the quality of ID-devices offered?

ID: Who cares for quality?



ICAR decided to take over responsibility in setting up test systems for identification devices. This work was supposed to be carried out by the Sub-Committee on Animal Identification and intended to:

- encourage the industry to produce safe and tamperproof equipment to be used in I&R-systems
- provide reliable and independent information regarding ID-devices for
 - Farmers
 - Organisations
 - Administrations

Categories for testing of ID-devices



Test category	Kind of test	
Performance	Application-/Field test (for any kind/combination of identification devices)	
	Extended laboratory test (for any kind/combination of identification devices)	
Conformity	Laboratory test (predominant)	
		Transponder conformity (with granting of manufacturer code)
		Reader conformity
	Other ID-devices conformity	

Categories for testing of ID-devices






Test category	Kind of test	
Performance	Application-/Field test (for any kind/combination of identification devices)	
	Extended laboratory test (for any kind/combination of identification devices)	
Conformity	Laboratory test (predominant)	
		Transponder conformity (with granting of manufacturer code)
		Reader conformity
	Other ID-devices conformity	

Conformance testing of RFID-transponders



Types and number of transponders tested so far:

Inject	Bolus	Eartag
		
43	21	58 + 7

Communication of test results

Test results published on www.icar.org:

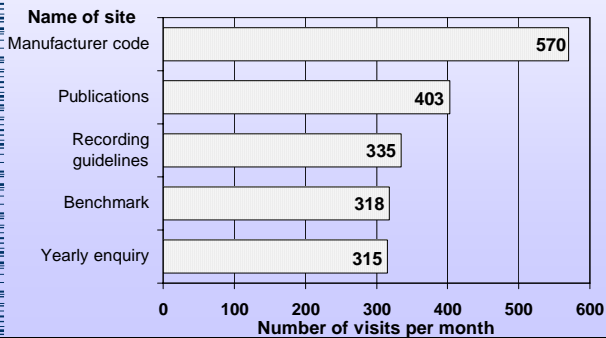
No.	Manufacturer	Manufacturer Code	Product Code	Technology	Usage	Description	Thumbnail
1	Deatson	985	985001	FDX-B	Inject	cylindrical, glass encapsulated, 2.3 mm in diameter, 12.8 mm in length	
1	Deatson	985	985002	FDX-B	Tag	disk like shape with shaft, black, 28.8 mm in diameter, 1.7 mm in height, 30.5 mm in length	
1	Deatson	985	985003	FDX-B	Inject	cylindrical, glass encapsulated, 3.3 mm in diameter, 20.8 mm in length	
1	Deatson	985	985004	FDX-B	Tag	rectangular shape with	

Do customers like ICAR's services?

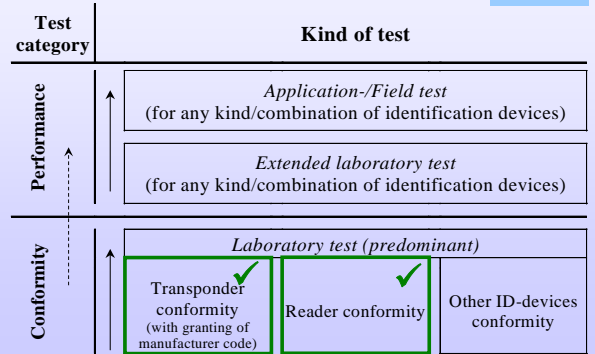


Frequency of website visits

"Top-5"-sites on ICAR webpage



Categories for testing of ID-devices

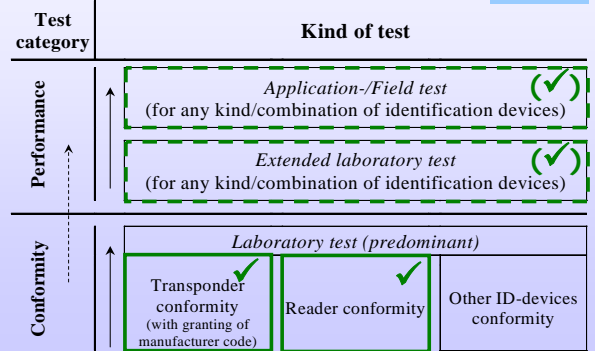


Conformance testing of RFID-readers

First successful reader conformance test with a NEDAP stick reader



Categories for testing of ID-devices



Performance testing of conventional plastic eartags



Eartag procedure consists in the following parts:

1. Preliminary basic checks of tags and pliers
2. Laboratory test
 - Descriptive parameters (weight, size, composition)
 - Performance after treatments (heat, chemicals, etc.)
 - Readability
 - Resistance of the locking system
3. Preliminary/Extended field test
 - 3 month / 9 month duration
 - 800 calves/2 countries
4. Provisional/Final Approval



Thanks for Your Attention!



Guidelines on conformance/performance tests for ID-devices



No. Name/Type of document

- 1 Testing and Approval of Devices used in Animal-ID
 - ♦ Conformance of RFID-Devices
 - 2 ISO 11784/84 conformance of transponders (incl. granting of the manufacturer code)
 - 3/4 ISO 11784/85 conformance of transceivers (2)
 - ♦ Performance of RFID-Devices
 - 5 Performance of transponders (Draft)
 - 6 Performance of handheld transceivers (Draft)
 - ♦ Performance of Official Permanent ID-Devices
 - 7 Conventional permanent plastic eartags

Terms of Reference



The Sub-Committee covers the following subjects related to identification/registration:

- Preparation of guidelines for the relevant appendices of the International Agreement on Recording Practices
- Stimulation of new developments in and report on new equipment, procedures and methods dealing with individual animal identification
- Advising the ICAR Board on approval/certification of
 - Identification devices used in individual animal identification
 - Institutes serving as ICAR test-centres