QUALITY ASSURANCE

By

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Regional Course on REDD+ MRV, NFI and Monitoring 11-14th July 2011, Sokoine Univ of Agric, Morogoro, Tanzania

QUALITY ASSURANCE

- Quality assurance aims to get reliable and unambiguous data and results
- Anchors on three pillars
 - Competence requirements
 - Training and
 - Implementation

COMPETENCE REQUIREMENT AND TRAINING

Competence requirements

Competence is required at different levels in order to carry out specified tasks correctly and efficiently

Managers and trainers

Tasks

- Coordination
- Mobilization of equipment and crews
- Planning of work activities
- Procurements
- Recruitment
- Reporting at higher levels (national and international)

Qualifications

 academic degree in forest sciences as well as good knowledge and experience in forest measurements

Field crew leaders, assistant leaders and enumerators

Tasks

biophysical field measurements

Qualifications

- professional education in forestry eg Certificate in Forestry,
 Diploma, degree
- participation organized NAFORMA training courses

For tree identifiers

Qualifications

- academic degree of sciences (biology, ecology, botany)
- experience as botanist in the field is required
- Experienced local tree identifiers

Training

Despite the fact that almost all crew members are foresters with Diploma up to MSc degrees training is important before commencement of the field work

This is to ensure

- common understanding of all procedures and techniques,
- proper use of equipment

Field teams were trained on

- Methodology of the inventory
- Planning of field work

Training cont

- Field measurements (sample plot, and tree measurements)
- Correct use, maintenance and care of field equipments
- Data collection techniques by interviews
- First aid kit
- Work independently

Three training sessions were carried out

- The first training involved biophysical data collection
- The second one was on socio-economic data
- Third combined both biophysical and socio-economic data
- The first and second training resulted in reviewing the biophysical and socio-economic field manuals
- The third training was used to collect actual NAFORMA data

QUALITY ASSURANCE

Focuses on

- proper use of inventory equipment: HP-GPS, hypsometers, densiometer etc
- adherence to basic mensuration protocols
- Emphasis on:
 - plot locations
 - tree measurements using proper instruments rather than estimating
 - Correct tree spp identification and recording
 - Use of 1.3 m stick to determine uniform point of dbh measurement
 - Use of slope correction tables
 - Use of Diameter tape in permanent plots

QUALITY ASSURANCE cont

- Avoid errors at all stages
 - Errors in taking measurements and reading
 - » Involves instruments and individuals
 - Errors in recording in the field
 - Errors in Data entry into computer
 - » Self checking data base (continuous)
- Crew Leaders to re-check data thoroughly before submission
- Maintain quality assurance team s
 - There are two QA teams of 4 people each
 - Remeasures quarter of all clusters
 - Most expensive in terms of transport
 - Reports discrepancies to respective teams immediately

QUALITY ASSURANCE cont

Data entry team to play QA

- Consists of 7 young graduates in Forestry
- Informs Coordination team of any abnormality
- Queries field teams immediately abnormality is detected

Errors detected at data analysis also reported back

Quality control checklist

- Field control checklist
- Data entry checklist
- Data validation checklist

End

Ahsanteni sana, Thank you very much