Rural Transport Training Materials

Module 5:

Social and Environmental Issues

An investigation into the constraints of the availability of motorised transport services in rural Ghana

Session 5.5

Part 2

Presentation 5.5b





Department for International Development





1. Introduction

Learning Objectives

This session enables participants to:

- Explore a range of different survey methods used to identify transport performance in rural Ghana
- Examine the factors effecting poor people's access to transport in rural Ghana
- Reflect on the key lessons learnt and how they may be applied to other countries



Session Overview

Project summarySurvey instruments



2. Project summary

- Rural poverty linked to access to essential facilities
- Access comprises
 - extent and quality of infrastructure
 - siting of facilities relative to residential areas
 - availability of transport services
 - affordability (time and/or money) of travel to facilities



1997-1998 TRL and DfID conducted 2 survey exercises in Ghana

- Surveyed
 - 7 districts
 - 2 peri-urban villages
 - 57 villages (Some on main road, others far from any motorable track)
- Interviewed
 - 412 households
 - 197 vehicle owners



Findings

- Population density has a large impact on the cost and provision of rural transport services
 - i.e. better services are associated with higher population densities
- In Northern Ghana far less use is made of motorised transport than in the south
 - north is poorer than south
 - more bicycle ownership in north than south
- Large differences in fares exist between districts
 - suggests that operators and unions have less influence where competition is greater



High goods charges for short distances

- In southern Ghana expenditure on transport increases as income rises
- Market-related trips
 - were the main trip purpose outside the village
 - accounts for majority of motorised transport use
- Observe the second s
 - trip making by households is sensitive to income and fare levels



3. Survey Instruments

3 types of survey instruments used

Household questionnaire

Participatory mapping checklist Vehicle operator questionnaire



Household questionnaire

Demographic & household composition

- household head's age, sex, marital status
- men and women (18 years old or over)
- children under 18
- Income & livelihood
 - estimates of household income
 - agricultural and non-agricultural income source
- Expenditure
 - food (grown and purchased)
 - other consumables
 - clothing
 - health and education fees



Possessions & property

- to assess prosperity
- ownership of vehicles, bicycles, radios, etc.
- house type and fuel use
- Travel patterns
 - journey frequency, type, distance, mode of travel & fare
 - disaggregated by gender
- Goods transport charges
 - charges per quantity and distance
- Reason for dissatisfaction with motorised transport services
 - rank of reasons why they do not make more use of motorised transport



Participatory mapping checklist

 Meeting with village headmen, assemblymen, schoolteachers, etc.
 To obtain permission for household interviews

To collect information

- village size
- location of water sources, markets, schools, religious centres, etc.
- type and extent of agriculture
- type and quality of road links
- type and frequency of motorised transport services



Vehicle operator questionnaire

General information

- vehicle type, ownership, load capacity, crew composition, use, and type of operation
- vehicle route, road quality, distance, time, trip frequency, charges and difference between the wet and dry seasons
- Orivers of passenger and goods vehicles
 - service demand
 - how and where goods vehicle drivers find their loads
- Seasonal constraints on vehicle operators



Vehicle operating costs and maintenance

- vehicle age, tax, insurance, fuel type and costs, responsibility for maintenance and servicing, frequency of servicing, vehicle utilisation and availability of spare parts
- Small enterprise services in vehicle maintenance
- Payment for vehicle
 - how the vehicle has been / is being paid for
 - availability of credit
 - reasons for purchase of particular type vehicle
- What changes would improve business



Transport survey methods in rural Ghana



Group discussion

- 1. What key lessons can we draw from this case study to apply to other countries & projects?
- 2. What recommendations would you make for improving the survey methods for this project?

