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Annex I: General Questionnaire

Experience with animal drawn implements

1. General

Country:..... Project address:.....

Date:.....

2. Regional conditions

Climate: Rainfall: below 500 mm 500 - 750 mm 750 - 1000 mm 1000 - 1500 mm above 1500 mm

Dry period(s): e.g. Nov. - March

1.

2.

Altitude above sea level: below 500 m 500 - 1000 m above 1000 m

Field data: Classify the soil prevailing in the project region: heavy medium light

Type of soil (e.g. sandy loam).....

Average cultivated area per farm: below 1 ha 1 - 2 ha 2 - 5 ha 5 - 10 ha 10 - 20 ha above 20 ha

Average plot size: below 0.2 ha 0.2 - 0.4 ha 0.4 - 0.6 ha 0.6 - 1.0 ha above 1.0 ha

Predominant topography of the fields: level hilly steep very steep

Obstructions in the fields:

Trees: none few many

Bushes: none few many

Roots: none few many

Stones: none few many

Others: (e.g. erosion channels, drainage ditches)

Remarks/Special features:.....

3. Cultivation systems and degree of mechanisation

Average period of use of a field (in years):.....

Average period of fallow of a field (in years):.....

Please enter the principal types of crops cultivated in your project region in the top lines of the following tables in the order of their importance and mark the predominant types of cultivation of the individual crops by a cross in the appropriate space:

Crop type:	1.	2.	3.	4.
Grown on/in				
Dams:	never			
	rarely			
	medium			
	often			
Rows:	never			
	rarely			
	medium			
	often			
Inter-crops:	never			
	rarely			
	medium			
	often			

Crop type:	5.	6.	7.	8.
Grown on/in				
Dams:	never			
	rarely			
	medium			
	often			
Rows:	never			
	rarely			
	medium			
	often			
Inter-crops:	never			
	rarely			
	medium			
	often			

How is work in the agricultural cultivation sector chiefly performed in your project region?

Manually :.....%

Draught animals:.....%

Tractors :.....%

If tractors are used in your project region please mark the main types of work for which they are used with a cross:

- Clearing Sowing Harvest Others:
 Seedbed preparation Plant tending Transport

4. Status of the use of draught animals in the project region

- Degree of use/dispersal: restricted to the project centre
 restricted to farmers supported by the project
 draught animals are also kept by farmers outside the project

- How many percent of all the farmers in the project region keep draught animals: below 2 %
 2 - 5 %
 5 - 10 %
 10 - 30 %
 30 - 50 %
 over 50 %

There is a tradition of animal traction in the project region: yes no

What are the main problems of animal traction which occur in your region?

- Lack of suitable draught animals Animal traction is unpopular
 Price for draught animals too high Nature of the soil in your project region is unsuitable
 Problems with animal health Cultivation system in your project region is unsuitable
 Others:

How many persons are needed for field work with draught animals (e.g. ploughing):.....

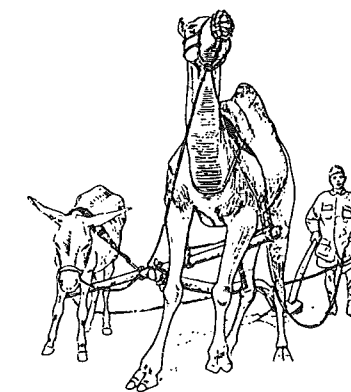
Has the area cultivated by farmers using animal traction been extended: yes
 partially
 no

To what extent does interfarm use of draught animals for field work take place: none
 little
 medium
 often

5. Keeping and feeding of draught animals

Types of draught animals used: (please also state the average weight of the animals)

- Oxenkg
 Buffalo.....kg
 Horseskg
 Donkeyskg
 Camelskg
 Others:
kg
 Mixed traction (e.g. see picture)



- How kept: stabling all day Type of feed provided: pasturing only
 stabling at night pasturing and supplementary feed
 seasonal stabling no pasturing
 no stabling

- Principal types of feed used: Natural pasture Harvest residues
 Improved pasture Bought-in feedstuffs
 Cultivation of forage Others:

Feed chiefly used in times of scarcity (e.g. dry season):

1. 3.
 2. 4.

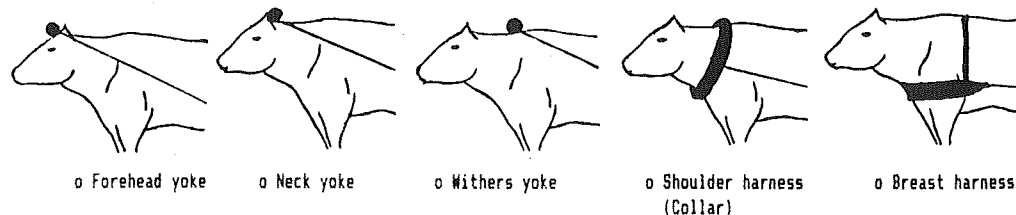
- Feeding condition of the animals at the start of the field work season: poor
 adequate
 good

6. Types of implements and their use

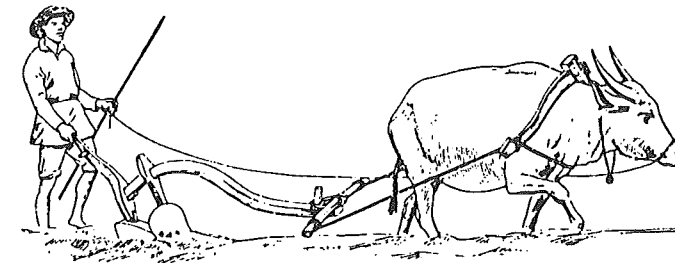
Divide up all the animal traction work performed with draught animals (= 100 %) in your project region. Please also state the types of animal used for the different kinds of work, as well as the method of harnessing (single animal, two animals etc.).

Type of work	Proportion of total animal traction	Type of animal used	Method of harnessing
Land-Clearing%
Soil Tillage/Seedbed Preparation%
Sowing%
Plant Tending%
Harvest%
Transport%
Others:.....%

What kinds of harness are chiefly used:



6.1. Implements for soil tillage / seedbed preparation



What animal drawn implements are used for soil tillage / seedbed preparation (e.g. plough, ridger plough, harrow, cultivator) ? Please also state the crops for which these implements are used.

Implement name	Crops
.....
.....
.....

Do you know the reasons why these implements in particular are being used for soil tillage / seedbed preparation ? (e.g. traditional cultivation on dams => ridger plough)

.....

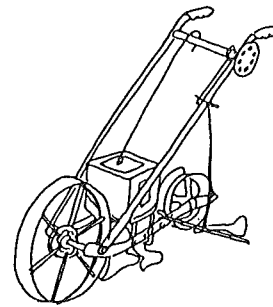
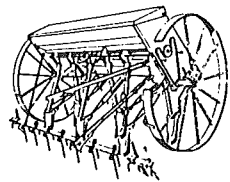
Please provide information about the experience with these implements ? (e.g. breakdown frequency, repair frequency, facilitation of work)

.....

Do you consider that other or further implements for soil tillage / seedbed preparation (e.g. cultivator, harrow) are usable and why they are not used ?

.....

6.2. Sowing equipment



If sowing is only carried out rarely or not at all with draught animals, please state the reasons for this: (e.g. no suitable implements are available, has never been tried etc.)

.....

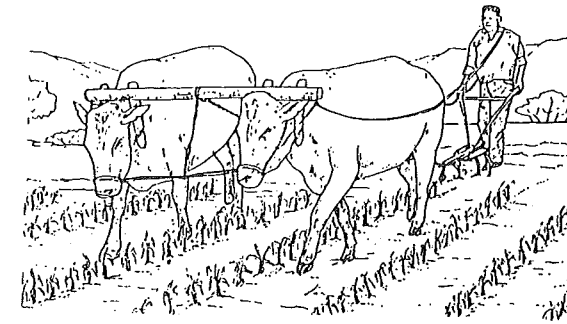
What animal drawn implements are used for sowing in your project region ? (e.g. seed drills, seed spacing planters, row markers) Please also state the crops for which these implements are used.

Implement name	Crops
.....
.....
.....

Please provide information about the experience with these implements ? (e.g. breakdown frequency, repair frequency, facilitation of work)

.....

6.3. Plant tending implements



If plant tending is only carried out rarely or not at all with draught animals, please state the reasons for this:

.....

What animal drawn implements are used for plant tending in your project region ? (e.g. ridge plough, cultivator, hoe) Please also state the crops for which these implements are used.

Implement name	Crops
.....
.....

Do you know the reasons why these implements in particular are being used for plant tending ? (e.g. traditional cultivation on dams ==> ridger plough)

.....

Please provide information about the experience with these implements ? (e.g. breakdown frequency, repair frequency, facilitation or economization of work)

.....

7. Origin, distribution and maintenance of the implements

How is the distribution of the animal drawn implements organized:

- all implements can be obtained individually
- implements are only available as a set (e.g. plough + cultivator + harrow + cart)
Please state the implements including in a set:
.....
.....
- other forms of distribution:
.....
.....

For the farmers in your project region the animal drawn implements are:

- within means
- too expensive
- only obtainable with a loan

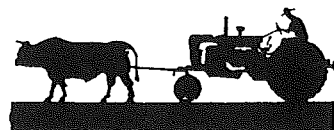
Which implements or parts of implements used in your project region are imported:
.....
.....

Do you consider that for the draught animals used the implements offered in your project region are:

- appropriate
- too heavy
- too light

If implements are too light or too heavy, please state the names of the implements:
.....
.....

To what extent can repairs and maintenance of implements be carried out by the farmer or village craftsman?
.....
.....
.....



Annex II: Detailed Questionnaire

Questionnaire

Experience with animal drawn implements

