

## Annex 1

### QUESTIONNAIRE

#### FARMERS' PERCEPTION ON THE CAUSES OF SOIL ACIDITY

##### 1. Responded and household characteristics

1.1 Sex of respondent: M/F

1.2 Age of respondent (Years):.....

1.3 What is your level of education?

Primary. ....

Secondary.....

Tertiary.....

1.4 Have you received any agricultural training? Yes/No

1.5 If Yes, what kind of training?

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1.6 Are you a master farmer? Yes/No

1.7 How many are you in your household?

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1.8 What is your source of household income?

a) cropping

b) sale of livestock

c) sale of livestock products

d) poultry

e) remittances

f) other (specify)

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1.9 How many of these do you own?

a) Cattle.....

b) Goats.....

c) Sheep.....

d) Donkeys.....

e) Chickens.....

f) Other (specify).....

## 2 Management

2.1 Note distance of field from homestead.....

2.2 What are the types of crops you usually grow

| Crop         | Area under cultivation<br>(acres) | Yield |
|--------------|-----------------------------------|-------|
| Maize        |                                   |       |
| Soybeans     |                                   |       |
| Cowpeas      |                                   |       |
| Bambara nuts |                                   |       |
| Sugar beans  |                                   |       |
| Tobacco      |                                   |       |
| Paprika      |                                   |       |
| Other        |                                   |       |
|              |                                   |       |
|              |                                   |       |
|              |                                   |       |
|              |                                   |       |

2.3 What farming implements do you own?

a) Hoes....

b) Ox-drawn plough.....

c) Other (specify).....

2.4 How many years have you cultivated on your fields?.....

2.5 Do you use any fertilizers? Yes/No

If Yes

| Type of fertiliser | Area under cultivation<br>(acres) | Bags of fertilizer for<br>current season | Area where<br>fertilizer applied<br>(acres) | Cost per bag<br>of fertiliser |
|--------------------|-----------------------------------|------------------------------------------|---------------------------------------------|-------------------------------|
|                    |                                   |                                          |                                             |                               |
|                    |                                   |                                          |                                             |                               |
|                    |                                   |                                          |                                             |                               |

2.6 If No, why?

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2.7 Are you aware of soil acidity? Yes/ No

2.8 What do you think are the causes of soil acidity?

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2.9 How do you know your soil has become acidic?

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3.0 Do you do anything to ameliorate soil acidity? Yes/No

3.1 If Yes, what do you use?

|             | Frequency | Quantity | Type | Experience | Yield obtained |
|-------------|-----------|----------|------|------------|----------------|
| Lime        |           |          |      |            |                |
| Manure      |           |          |      |            |                |
|             |           |          |      |            |                |
|             |           |          |      |            |                |
| Termitaria  |           |          |      |            |                |
| Leaf litter |           |          |      |            |                |
| Compost     |           |          |      |            |                |
| Other       |           |          |      |            |                |

3.2 If No, do you use any of the following?

|             | Frequency | Quantity | Type | Experience | Yield obtained |
|-------------|-----------|----------|------|------------|----------------|
| Lime        |           |          |      |            |                |
| Manure      |           |          |      |            |                |
|             |           |          |      |            |                |
|             |           |          |      |            |                |
| Termitaria  |           |          |      |            |                |
| Leaf litter |           |          |      |            |                |
| Compost     |           |          |      |            |                |
| Other       |           |          |      |            |                |

What are the benefits of using the following?

|             | <b>Soil chemical properties</b> | <b>Soil physical properties</b> |
|-------------|---------------------------------|---------------------------------|
| Lime        |                                 |                                 |
| Manure      |                                 |                                 |
| Termitaria  |                                 |                                 |
| Leaf litter |                                 |                                 |
| Compost     |                                 |                                 |
| Other       |                                 |                                 |

### 3.3 Use of lime

| No. of Bags<br>for current<br>season | Area<br>applied | Cost<br>per<br>bag of<br>lime | Marketing<br>place | Selling<br>Price<br>(maize) | Labor<br>involved | Hired<br>labor |
|--------------------------------------|-----------------|-------------------------------|--------------------|-----------------------------|-------------------|----------------|
|                                      |                 |                               |                    |                             |                   |                |

3.4 If No, Are you aware of the use of lime? Yes/No

3.5 If Yes; what are your reasons for not using lime?

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3.6 Are there any other management practices you do on acid soil?

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3.7 Do you have any extension services in your area?

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