

Mechinization Deployed

Consent Form

DECLARATION BY PARTICIPANT

- ☐ I am above 18 (eighteen) years of age and am competent to contract in my own name.
- ☐ Tick this box if you give consent to the Project to use your image, likeness, and/or the sound of your voice as recorded in any photos, videos, or audio recordings in the Project activities.
- ☐ I am participating willingly. I have had time to ask questions and have no objection to participate in the Project data collection. I understand that there is no penalty should I wish to discontinue with the Project and my withdrawal will not affect any treatment in any way.
- ☐ I understand I am being asked to provide consent to participate in this research study.
- ☐ I have read the information leaflet, or someone has read it to me in a language that I understand.
- ☐ I understand the purposes, study tasks, and risks of the research described in the study.
- ☐ I understand that I will fill out a questionnaire; I agree to be recorded and pictures/videos taken for this purpose.
- ☐ I provide my consent for the information collected about me to be used for the purpose of this research study only.
- ☐ I have had an opportunity to ask questions, and I am satisfied with the answers I have received.
- ☐ I freely agree to participate in this research study as described and understand that I am free to withdraw at any time during the study and withdrawal will not affect my relationship with any of the named organisations and/or research team members.
- ☐ I understand that I will be given a signed copy of this document to keep.
- ☐ I provide my consent for the information collected about me to made available to other researchers.

INPUT UNIQUE QUESTIONNAIRE NUMBER CORRESPONDING TO THE FARMER DETAILS

This is the code generated with the farmer details used for the sampling.

I HAVE GIVEN A VERBAL EXPLANATION OF THE RESEARCH STUDY AT THE START OF THE INTERVIEW, INCLUDING THE STUDY ACTIVITIES AND RISKS, AND I BELIEVE THAT THE PARTICIPANT HAS UNDERSTOOD THAT EXPLANATION. *

- ☐ Yes
- ☐ No

IF YES, STATE YOUR ID NUMBER

Insert your enumerator ID number

MODULE 1: DEMOGRAPHIC INFORMATION

KINDLY STATE YOUR SEX

- ☐ Male
- ☐ Female
- ☐ Other
- ☐ Prefer not to state

AGE OF RESPONDENT

PLACE OF BIRTH

- ☐ Ashanti Region
- ☐ Brong Ahafo Region
- ☐ Central Region
- ☐ Greater Accra Region
- ☐ Northern Region
- ☐ Eastern Region
- ☐ Upper West Region
- ☐ Volta Region

HOW MANY ARE YOU IN YOUR HOUSEHOLD?

HOW MANY ARE BELOW 18YEARS OF AGE?

DO YOU HAVE CHILDREN?

- ☐ Yes
- ☐ No

IF YES, HOW MANY?

RELATION TO THE HOUSEHOLD HEAD?

- ☐ Head
- ☐ Temporary head
- ☐ Spouse
- ☐ Child
- ☐ Son/Daugther in law
- ☐ Parent/Parent in law
- ☐ Grand Child
- ☐ Brother/Sister
- ☐ Stepchild
- ☐ Adopted/Foster Child
- ☐ Other relative
- ☐ Non-relative

| |
|--|
| <p>HIGHEST LEVEL OF EDUCATION ATTAINED?</p> <p><input type="radio"/> Never Attended</p> <p><input type="radio"/> Primary School</p> <p><input type="radio"/> Middle/JSS/JHS</p> <p><input type="radio"/> Secondary/SSS/SHS</p> <p><input type="radio"/> Commercial/Technical/Vocational</p> <p><input type="radio"/> Post-Secondary/Middle</p> <p><input type="radio"/> Tertiary</p> |
| <p>RESIDENCE STATUS</p> <p><input type="radio"/> Native</p> <p><input type="radio"/> Settler</p> <p><input type="radio"/> Visitor</p> <p><input type="radio"/> Hired labourer</p> <p><input type="radio"/> Other (Specify)</p> |
| <p>YEARS OF RESIDENCE?</p> <p>_____</p> |
| <p>IS RICE FARMING YOUR ONLY OCCUPATION</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> |
| <p>WHAT OTHER INCOME GENERATION ACTIVITY DO YOU ENGAGE IN?</p> <p><input type="radio"/> Peasant farmer</p> <p><input type="radio"/> Semi-commercial farmer (cash crop grower)</p> <p><input type="radio"/> Wage labourer</p> <p><input type="radio"/> Artisan</p> <p><input type="radio"/> Business person</p> <p><input type="radio"/> Student</p> <p><input type="radio"/> Other (specify)</p> |
| <p>OTHER (SPECIFY)</p> <p>_____</p> |
| <p>MARITAL STATUS</p> <p><input type="radio"/> Single (Never married)</p> <p><input type="radio"/> Married</p> <p><input type="radio"/> Living together</p> <p><input type="radio"/> Divorced</p> <p><input type="radio"/> Widow</p> <p><input type="radio"/> Separated</p> |

| |
|--|
| TYPE OF HOUSEHOLD <input type="radio"/> Female-headed household <input type="radio"/> Male-headed household <input type="radio"/> Other (specify) |
| OTHER (SPECIFY) |
| ARE YOU PART OF A COOPERATIVE? <input type="radio"/> Yes <input type="radio"/> No |
| IF YES, (SPECIFY) |

MODULE 2: LAND ACQUISITION AND CONTROL

| |
|--|
| PLOT NUMBER |
| WHEN ACQUIRED? (YEAR) yyyy |
| HOW ACQUIRED? <input type="radio"/> Inheritance <input type="radio"/> Inherited from wife's parents <input type="radio"/> Inherited from husband's parents <input type="radio"/> Encroached a virgin forest <input type="radio"/> Purchased <input type="radio"/> Allocated by chief <input type="radio"/> Allocated by government <input type="radio"/> Sharecrop <input type="radio"/> Other, specify____ |
| OTHER, SPECIFY_ |
| HOW BIG IS THE PLOT (HA) |
| DISTANCE FROM HOMESTEAD (KM). |

PRIORITY CROP ON PLOT

- ☐ Maize
- ☐ Rice
- ☐ Groundnuts (G/Nuts)
- ☐ Beans
- ☐ Cassava
- ☐ Other, specify_____

OTHER, SPECIFY

WHO CONTROLS THE LAND?

- ☐ Self
- ☐ Husband
- ☐ Wife
- ☐ Children
- ☐ Other (e.g., relatives)_____

OTHER (E.G., RELATIVES)_

HOW MUCH WILL YOU ASK FOR EACH PLOT, IF YOU WERE TO SELL IT?

WILL YOU SELL PART OR EXCHANGE PART OF YOUR LAND FOR MACHINERY?

- ☐ Yes, in exchange
- ☐ Yes, in amount
- ☐ No

IF YES IN EXCHANGE, HOW MUCH OF YOUR LAND ?

Give answer as percentage of total land owned

IF YES IN AMOUNT, HOW MUCH?

MAIN PURPOSE OF CROPPING?

- ☐ For household consumption
- ☐ For sales in the market
- ☐ For both consumption and sales

HOW LONG DOES IT TAKE YOU TO WALK TO YOUR FARM -----?

IS THERE MORE LAND IN THE AREA THAT YOU COULD USE FOR FARMING?

- ☐ Yes
- ☐ No

IF YES, HOW WILL YOU ACQUIRE IT

- ☐ Rent
- ☐ Loan
- ☐ Buy
- ☐ No agreement needed

MODULE 3: RICE PRODUCTION AND MARKETING

DO YOU HAVE READY MARKET FOR YOUR FARM PRODUCE?

- ☐ Yes
- ☐ No

IF NO, WHAT DO YOU DO WITH YOUR PRODUCE?

- ☐ Store in public storage
- ☐ Store in private storgae
- ☐ Store at home
- ☐ Other (specify)

OTHER (SPECIFY)

HOW LONG HAVE YOU BEEN FARMING

HOW LONG HAVE YOU BEEN FARMING RICE

DO YOU AT SOME POINT RELY ON MACHINES (MECHANICAL EQUIPMENT) IN YOUR PRODUCTION ACTIVITIES?

- ☐ Yes
- ☐ No

WHICH TYPE OF (MACHINE) MECHANICAL EQUIPMENT DO YOU NORMALLY USE?

HOW LONG HAVE YOU BEEN USING MACHINES FOR RICE FARMING

SOURCE OF FUNDING FOR FARMING

- ☐ Personal funds
- ☐ Loan
- ☐ Both personal funds and Loan

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|---|
| IF LOAN, SPECIFY SOURCE |
| IF BOTH PERSONAL FUNDS AND LOAN, SPECIFY SOURCE OF LOAN. |
| LAND TENURE SYSTEM USED FOR THE RICE FARM <input type="radio"/> Owned (inherited) <input type="radio"/> Sharecrop arrangement <input type="radio"/> Leased |
| IF LEASED FROM WHO? |
| TOTAL LAND AREA (HA) BEING CULTIVATED? |
| DO YOU HAVE ANY IRRIGATION STRUCTURE ON YOUR FARM? <input type="radio"/> Yes <input type="radio"/> No |
| TYPES OF IRRIGATION <input type="radio"/> Field flooding <input type="radio"/> Other (specify) |
| IF OTHER, SPECIFY TYPE OF IRRIGATION |
| WHAT IS THE TOTAL QUANTITY (KG) OF RICE HARVESTED FROM YOUR FARM (NO IRRIGATION)? |
| WHAT IS THE TOTAL QUANTITY (KG) OF RICE HARVESTED FROM YOUR FARM (IRRIGATION FIELD)? |
| HOW MUCH (KG) OF YOUR HARVEST DO YOU CONSUME (NO IRRIGATION FARM)? |
| HOW MUCH (KG) OF YOUR HARVEST DO YOU CONSUME (IRRIGATION FARM)? |
| HOW MUCH (KG) OF YOUR HARVEST DO YOU SELL (NO IRRIGATION FARM)? |
| HOW MUCH (KG) OF YOUR HARVEST DO YOU SELL (IRRIGATION FARM)? |
| DO YOU KEEP SOME OF YOUR RICE FOR SEEDS? <input type="radio"/> Yes <input type="radio"/> No |

HOW MUCH (KG) DO YOU KEEP FOR SEEDS ?

WHERE DO YOU SELL YOUR FARM PRODUCE?

- ☐ Home
- ☐ Auction floors
- ☐ Produce market
- ☐ Private buyers
- ☐ Cropping bussiness partner
- ☐ Other (specify)

OTHER, SPECIFY

Where do you sell your farm produce?

DISTANCE TO MARKET (KM) ?

MODE OF TRANSPORT?

- ☐ On head
- ☐ Bicycle
- ☐ Animal drawn cart
- ☐ Personal vehicle
- ☐ Moto bike
- ☐ Hired vehicle
- ☐ Other

OTHER, SPECIFY

WHAT IS THE TRANSPORT COST?

WHAT IS THE MODE OF PAYMENT FOR THE TRANSPORT?

- ☐ None
- ☐ Free
- ☐ Cash
- ☐ Cash after sales
- ☐ Deducted from sales
- ☐ Payment in kind
- ☐ Other

OTHER, SPECIFY

| | | | |
|--|-----------------------|-----------------------|-----------------------|
| HOW MUCH DO YOU SELL EACH UNIT (KG)? <i>You might get answers in sellign price of a bag</i> | | | |
| DO YOU USE CA PRACTICES ON YOUR FARM? <input type="radio"/> Yes <input type="radio"/> No | | | |
| WHERE DO YOU GET INFORMATION ABOUT CA ACTIVITIES? <input type="radio"/> Extension Officers <input type="radio"/> Other farmers | | | |
| WHICH OF THE FOLLOWING IS MORE IMPORTANT. (RANK FROM 1 TO 3) | 1 | 2 | 3 |
| CA PRACTICE ON YOUR FARM | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| HIGH YIELD FROM YOUR FARM | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| MACHINERY USE FOR YOUR FARMING ACTIVITIES | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| RICE PRODUCTION INPUTS | | | |
| QUANTITY BOUGHT LAST SEASON (SPECIFY UNITS) | | | |
| MODE OF PAYMENT | | | |
| OTHER SPECIFY | | | |
| UNIT PRICE (GHC) | | | |
| TOTAL SPENT ON INPUTS | | | |
| WHERE BOUGHT/OBTAINED? | | | |
| DISTANCE TO MARKET (KM) | | | |
| MODE OF TRANSPORT TO MARKET | | | |
| TRANSPORT COSTS INCURRED | | | |
| TRANSPORT PAYMENT MODE | | | |
| FERTILIZER (UREA) | | | |
| <input type="radio"/> Payment in kind <input type="radio"/> Deducted from sales <input type="radio"/> Cash <input type="radio"/> Other (specify) | | | |

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| |
| |
| <input type="radio"/> Supermarket <input type="radio"/> Others <input type="radio"/> Private traders <input type="radio"/> Own seed <input type="radio"/> Local market <input type="radio"/> Farm inputs dealers |
| |
| <input type="radio"/> Ox-cart <input type="radio"/> Bicycle <input type="radio"/> Motorbike <input type="radio"/> Hired vehicle <input type="radio"/> other <input type="radio"/> On head <input type="radio"/> Personal vehicle |
| |
| <input type="radio"/> Cash after sales <input type="radio"/> Cash <input type="radio"/> None <input type="radio"/> Free <input type="radio"/> Payment in kind <input type="radio"/> others <input type="radio"/> Deducted from sales (contract farming) |
| LABOR (FAMILY) |
| |
| <input type="radio"/> Payment in kind <input type="radio"/> Deducted from sales <input type="radio"/> Cash <input type="radio"/> Other (specify) |
| |
| |
| |
| <input type="radio"/> Supermarket <input type="radio"/> Others <input type="radio"/> Private traders <input type="radio"/> Own seed <input type="radio"/> Local market <input type="radio"/> Farm inputs dealers |
| |
| <input type="radio"/> Ox-cart <input type="radio"/> Bicycle <input type="radio"/> Motorbike <input type="radio"/> Hired vehicle <input type="radio"/> other <input type="radio"/> On head <input type="radio"/> Personal vehicle |
| |
| <input type="radio"/> Cash after sales <input type="radio"/> Cash <input type="radio"/> None <input type="radio"/> Free <input type="radio"/> Payment in kind <input type="radio"/> others <input type="radio"/> Deducted from sales (contract farming) |
| HIRED LABOR |
| |
| |

| |
|--|
| <input type="radio"/> Payment in kind <input type="radio"/> Deducted from sales <input type="radio"/> Cash <input type="radio"/> Other (specify) |
| <hr/> |
| <hr/> |
| <hr/> |
| <input type="radio"/> Supermarket <input type="radio"/> Others <input type="radio"/> Private traders <input type="radio"/> Own seed <input type="radio"/> Local market <input type="radio"/> Farm inputs dealers |
| <hr/> |
| <input type="radio"/> Ox-cart <input type="radio"/> Bicycle <input type="radio"/> Motorbike <input type="radio"/> Hired vehicle <input type="radio"/> other <input type="radio"/> On head <input type="radio"/> Personal vehicle |
| <hr/> |
| <input type="radio"/> Cash after sales <input type="radio"/> Cash <input type="radio"/> None <input type="radio"/> Free <input type="radio"/> Payment in kind <input type="radio"/> others <input type="radio"/> Deducted from sales (contract farming) |
| OTHER INPUTS (SPECIFY) |
| <hr/> |
| <hr/> |
| <hr/> |
| <input type="radio"/> Payment in kind <input type="radio"/> Deducted from sales <input type="radio"/> Cash <input type="radio"/> Other (specify) |
| <hr/> |
| <hr/> |
| <hr/> |
| <input type="radio"/> Supermarket <input type="radio"/> Others <input type="radio"/> Private traders <input type="radio"/> Own seed <input type="radio"/> Local market <input type="radio"/> Farm inputs dealers |
| <hr/> |
| <input type="radio"/> Ox-cart <input type="radio"/> Bicycle <input type="radio"/> Motorbike <input type="radio"/> Hired vehicle <input type="radio"/> other <input type="radio"/> On head <input type="radio"/> Personal vehicle |
| <hr/> |
| <input type="radio"/> Cash after sales <input type="radio"/> Cash <input type="radio"/> None <input type="radio"/> Free <input type="radio"/> Payment in kind <input type="radio"/> others <input type="radio"/> Deducted from sales (contract farming) |

CHEMICALS/PERTICIDES

☐ Payment in kind ☐ Deducted from sales ☐ Cash ☐ Other (specify)

☐ Supermarket ☐ Others ☐ Private traders ☐ Own seed ☐ Local market
☐ Farm inputs dealers

☐ Ox-cart ☐ Bicycle ☐ Motorbike ☐ Hired vehicle ☐ other ☐ On head
☐ Personal vehicle

☐ Cash after sales ☐ Cash ☐ None ☐ Free ☐ Payment in kind ☐ others
☐ Deducted from sales (contract farming)

FERTILIZER (AMMONIA)

☐ Payment in kind ☐ Deducted from sales ☐ Cash ☐ Other (specify)

☐ Supermarket ☐ Others ☐ Private traders ☐ Own seed ☐ Local market
☐ Farm inputs dealers

☐ Ox-cart ☐ Bicycle ☐ Motorbike ☐ Hired vehicle ☐ other ☐ On head
☐ Personal vehicle

| |
|--|
| <input type="radio"/> Cash after sales <input type="radio"/> Cash <input type="radio"/> None <input type="radio"/> Free <input type="radio"/> Payment in kind <input type="radio"/> others <input type="radio"/> Deducted from sales (contract farming) |
| FERTILIZER (NPK) |
| |
| <input type="radio"/> Payment in kind <input type="radio"/> Deducted from sales <input type="radio"/> Cash <input type="radio"/> Other (specify) |
| |
| |
| |
| <input type="radio"/> Supermarket <input type="radio"/> Others <input type="radio"/> Private traders <input type="radio"/> Own seed <input type="radio"/> Local market <input type="radio"/> Farm inputs dealers |
| |
| <input type="radio"/> Ox-cart <input type="radio"/> Bicycle <input type="radio"/> Motorbike <input type="radio"/> Hired vehicle <input type="radio"/> other <input type="radio"/> On head <input type="radio"/> Personal vehicle |
| |
| <input type="radio"/> Cash after sales <input type="radio"/> Cash <input type="radio"/> None <input type="radio"/> Free <input type="radio"/> Payment in kind <input type="radio"/> others <input type="radio"/> Deducted from sales (contract farming) |
| SEED |
| |
| <input type="radio"/> Payment in kind <input type="radio"/> Deducted from sales <input type="radio"/> Cash <input type="radio"/> Other (specify) |
| |
| |
| |
| <input type="radio"/> Supermarket <input type="radio"/> Others <input type="radio"/> Private traders <input type="radio"/> Own seed <input type="radio"/> Local market <input type="radio"/> Farm inputs dealers |
| |

| |
|--|
| <input type="radio"/> Ox-cart <input type="radio"/> Bicycle <input type="radio"/> Motorbike <input type="radio"/> Hired vehicle <input type="radio"/> other <input type="radio"/> On head <input type="radio"/> Personal vehicle |
| |
| <input type="radio"/> Cash after sales <input type="radio"/> Cash <input type="radio"/> None <input type="radio"/> Free <input type="radio"/> Payment in kind <input type="radio"/> others <input type="radio"/> Deducted from sales (contract farming) |

MODULE 4: FARM MACHINERY OWNERSHIP AND CONTROL

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|---|
| DO YOU AT SOME POINT RELY ON MACHINES (MECHANICAL EQUIPMENT) IN YOUR PRODUCTION ACTIVITIES? <input type="radio"/> Yes <input type="radio"/> No |
| KINDLY SATE THE EQUIPMENT USED FOR EACH ACTIVITY |
| |
| TYPE OF EQUIPMENT |
| |
| OWNERSHIP TYPE |
| |
| OTHER (SPECIFY) |
| |
| IF OWNED WHO CONTROLS |
| |
| EASE OF OPERATION |
| |
| LEVEL OF SATISFACTION |
| |
| THRESHING OR SHELLING |
| |
| |
| <input type="radio"/> Joint ownership <input type="radio"/> Hired <input type="radio"/> Own <input type="radio"/> Communal ownership <input type="radio"/> Others |
| |
| <input type="radio"/> Children <input type="radio"/> Cooperative leader <input type="radio"/> Husband <input type="radio"/> Wife |
| <input type="radio"/> Very complex <input type="radio"/> Easy <input type="radio"/> Very easy <input type="radio"/> Neutral <input type="radio"/> Complex |
| <input type="radio"/> Very satisfied <input type="radio"/> Satisfied <input type="radio"/> Neutral <input type="radio"/> Very unsatisfied <input type="radio"/> Unsatisfied |
| IRRIGATION |
| |
| |

| |
|---|
| <input type="radio"/> Joint ownership <input type="radio"/> Hired <input type="radio"/> Own <input type="radio"/> Communal ownership <input type="radio"/> Others |
| <hr/> |
| <input type="radio"/> Children <input type="radio"/> Cooperative leader <input type="radio"/> Husband <input type="radio"/> Wife |
| <input type="radio"/> Very complex <input type="radio"/> Easy <input type="radio"/> Very easy <input type="radio"/> Neutral <input type="radio"/> Complex |
| <input type="radio"/> Very satisfied <input type="radio"/> Satisfied <input type="radio"/> Neutral <input type="radio"/> Very unsatisfied <input type="radio"/> Unsatisfied |
| BIRD SCARING METHOD |
| <hr/> |
| <hr/> |
| <input type="radio"/> Joint ownership <input type="radio"/> Hired <input type="radio"/> Own <input type="radio"/> Communal ownership <input type="radio"/> Others |
| <hr/> |
| <input type="radio"/> Children <input type="radio"/> Cooperative leader <input type="radio"/> Husband <input type="radio"/> Wife |
| <input type="radio"/> Very complex <input type="radio"/> Easy <input type="radio"/> Very easy <input type="radio"/> Neutral <input type="radio"/> Complex |
| <input type="radio"/> Very satisfied <input type="radio"/> Satisfied <input type="radio"/> Neutral <input type="radio"/> Very unsatisfied <input type="radio"/> Unsatisfied |
| MILLING |
| <hr/> |
| <hr/> |
| <input type="radio"/> Joint ownership <input type="radio"/> Hired <input type="radio"/> Own <input type="radio"/> Communal ownership <input type="radio"/> Others |
| <hr/> |
| <input type="radio"/> Children <input type="radio"/> Cooperative leader <input type="radio"/> Husband <input type="radio"/> Wife |
| <input type="radio"/> Very complex <input type="radio"/> Easy <input type="radio"/> Very easy <input type="radio"/> Neutral <input type="radio"/> Complex |
| <input type="radio"/> Very satisfied <input type="radio"/> Satisfied <input type="radio"/> Neutral <input type="radio"/> Very unsatisfied <input type="radio"/> Unsatisfied |
| TRANSPLANTING |
| <hr/> |
| <hr/> |
| <input type="radio"/> Joint ownership <input type="radio"/> Hired <input type="radio"/> Own <input type="radio"/> Communal ownership <input type="radio"/> Others |
| <hr/> |

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|---|
| <input type="radio"/> Children <input type="radio"/> Cooperative leader <input type="radio"/> Husband <input type="radio"/> Wife |
| <input type="radio"/> Very complex <input type="radio"/> Easy <input type="radio"/> Very easy <input type="radio"/> Neutral <input type="radio"/> Complex |
| <input type="radio"/> Very satisfied <input type="radio"/> Satisfied <input type="radio"/> Neutral <input type="radio"/> Very unsatisfied <input type="radio"/> Unsatisfied |
| FIELD PREPARATION |
| |
| <input type="radio"/> Joint ownership <input type="radio"/> Hired <input type="radio"/> Own <input type="radio"/> Communal ownership <input type="radio"/> Others |
| |
| <input type="radio"/> Children <input type="radio"/> Cooperative leader <input type="radio"/> Husband <input type="radio"/> Wife |
| <input type="radio"/> Very complex <input type="radio"/> Easy <input type="radio"/> Very easy <input type="radio"/> Neutral <input type="radio"/> Complex |
| <input type="radio"/> Very satisfied <input type="radio"/> Satisfied <input type="radio"/> Neutral <input type="radio"/> Very unsatisfied <input type="radio"/> Unsatisfied |
| SEEDLING PREPRATION |
| |
| <input type="radio"/> Joint ownership <input type="radio"/> Hired <input type="radio"/> Own <input type="radio"/> Communal ownership <input type="radio"/> Others |
| |
| <input type="radio"/> Children <input type="radio"/> Cooperative leader <input type="radio"/> Husband <input type="radio"/> Wife |
| <input type="radio"/> Very complex <input type="radio"/> Easy <input type="radio"/> Very easy <input type="radio"/> Neutral <input type="radio"/> Complex |
| <input type="radio"/> Very satisfied <input type="radio"/> Satisfied <input type="radio"/> Neutral <input type="radio"/> Very unsatisfied <input type="radio"/> Unsatisfied |
| PLANTING |
| |
| <input type="radio"/> Joint ownership <input type="radio"/> Hired <input type="radio"/> Own <input type="radio"/> Communal ownership <input type="radio"/> Others |
| |
| <input type="radio"/> Children <input type="radio"/> Cooperative leader <input type="radio"/> Husband <input type="radio"/> Wife |
| <input type="radio"/> Very complex <input type="radio"/> Easy <input type="radio"/> Very easy <input type="radio"/> Neutral <input type="radio"/> Complex |

| |
|---|
| <input type="radio"/> Very satisfied <input type="radio"/> Satisfied <input type="radio"/> Neutral <input type="radio"/> Very unsatisfied <input type="radio"/> Unsatisfied |
| FERTILIZER APPLICATION |
| |
| <input type="radio"/> Joint ownership <input type="radio"/> Hired <input type="radio"/> Own <input type="radio"/> Communal ownership <input type="radio"/> Others |
| |
| <input type="radio"/> Children <input type="radio"/> Cooperative leader <input type="radio"/> Husband <input type="radio"/> Wife |
| <input type="radio"/> Very complex <input type="radio"/> Easy <input type="radio"/> Very easy <input type="radio"/> Neutral <input type="radio"/> Complex |
| <input type="radio"/> Very satisfied <input type="radio"/> Satisfied <input type="radio"/> Neutral <input type="radio"/> Very unsatisfied <input type="radio"/> Unsatisfied |
| HARVESTING |
| |
| <input type="radio"/> Joint ownership <input type="radio"/> Hired <input type="radio"/> Own <input type="radio"/> Communal ownership <input type="radio"/> Others |
| |
| <input type="radio"/> Children <input type="radio"/> Cooperative leader <input type="radio"/> Husband <input type="radio"/> Wife |
| <input type="radio"/> Very complex <input type="radio"/> Easy <input type="radio"/> Very easy <input type="radio"/> Neutral <input type="radio"/> Complex |
| <input type="radio"/> Very satisfied <input type="radio"/> Satisfied <input type="radio"/> Neutral <input type="radio"/> Very unsatisfied <input type="radio"/> Unsatisfied |
| DRYING |
| |
| <input type="radio"/> Joint ownership <input type="radio"/> Hired <input type="radio"/> Own <input type="radio"/> Communal ownership <input type="radio"/> Others |
| |
| <input type="radio"/> Children <input type="radio"/> Cooperative leader <input type="radio"/> Husband <input type="radio"/> Wife |
| <input type="radio"/> Very complex <input type="radio"/> Easy <input type="radio"/> Very easy <input type="radio"/> Neutral <input type="radio"/> Complex |
| <input type="radio"/> Very satisfied <input type="radio"/> Satisfied <input type="radio"/> Neutral <input type="radio"/> Very unsatisfied <input type="radio"/> Unsatisfied |
| SPRAYING |

| |
|---|
| |
| <input type="radio"/> Joint ownership <input type="radio"/> Hired <input type="radio"/> Own <input type="radio"/> Communal ownership <input type="radio"/> Others |
| |
| <input type="radio"/> Children <input type="radio"/> Cooperative leader <input type="radio"/> Husband <input type="radio"/> Wife |
| <input type="radio"/> Very complex <input type="radio"/> Easy <input type="radio"/> Very easy <input type="radio"/> Neutral <input type="radio"/> Complex |
| <input type="radio"/> Very satisfied <input type="radio"/> Satisfied <input type="radio"/> Neutral <input type="radio"/> Very unsatisfied <input type="radio"/> Unsatisfied |
| NURSERY PREPARATION |
| |
| <input type="radio"/> Joint ownership <input type="radio"/> Hired <input type="radio"/> Own <input type="radio"/> Communal ownership <input type="radio"/> Others |
| |
| <input type="radio"/> Children <input type="radio"/> Cooperative leader <input type="radio"/> Husband <input type="radio"/> Wife |
| <input type="radio"/> Very complex <input type="radio"/> Easy <input type="radio"/> Very easy <input type="radio"/> Neutral <input type="radio"/> Complex |
| <input type="radio"/> Very satisfied <input type="radio"/> Satisfied <input type="radio"/> Neutral <input type="radio"/> Very unsatisfied <input type="radio"/> Unsatisfied |
| WEEDING |
| |
| <input type="radio"/> Joint ownership <input type="radio"/> Hired <input type="radio"/> Own <input type="radio"/> Communal ownership <input type="radio"/> Others |
| |
| <input type="radio"/> Children <input type="radio"/> Cooperative leader <input type="radio"/> Husband <input type="radio"/> Wife |
| <input type="radio"/> Very complex <input type="radio"/> Easy <input type="radio"/> Very easy <input type="radio"/> Neutral <input type="radio"/> Complex |
| <input type="radio"/> Very satisfied <input type="radio"/> Satisfied <input type="radio"/> Neutral <input type="radio"/> Very unsatisfied <input type="radio"/> Unsatisfied |
| WHAT MAIN CHALLENGE (ONLY ONE AND THE MOST IMPORTANT CHALLENGE) DO YOU FACE WITH THE USE OF FARM MACHINERY? |
| WHAT ARE YOUR PERCEPTION OF THE DESIGN AND OPERATION OF EACH OF THE MACHINERY YOU USED DURING THE PAST GROWING SEASON? |

ARE WILLING TO SPEND ADDITIONAL MONEY ON MACHINERY SERVICES

- ☐ Yes
- ☐ No

HOW MUCH ADDITIONAL INCOME ARE YOU WILLING TO SPEND ON MACHINERY SERVICES?

WHICH DO YOU PREFER FOR MACHINERY OWNERSHIP?

- ☐ Personal ownership
- ☐ Joint ownership
- ☐ Communal ownership
- ☐ Other (specify)

IF OTHER, SPECIFY

ARE YOU ABLE TO PRODUCE MORE ON THE SAME PIECE OF LAND WHEN YOU USE FARM MACHINERY?

- ☐ Yes
- ☐ No

WOULD YOU HAVE SPACE TO STORE MACHINERY IF IT IS PROVIDED?

- ☐ Yes
- ☐ No

IS STORAGE SPACE A HINDRANCE TO YOUR OWNERSHIP OF FARM MACHINERY?

- ☐ Yes
- ☐ No

WILL YOU BE WILLING TO CONTRIBUTE TO COLLECTIVELY-OWN MACHINERY?

- ☐ Yes
- ☐ No

MODULE 5: MACHINERY USE ASSESSMENT

» Benefits of using machinery

| TO WHAT EXTENT DOES MACHINERY USE INFLUENCE THE FOLLOWING? | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| NURSERY PREPARATION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| FIELD PREPARATION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| SEEDLING PREPARATION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| TRANSPLANTING | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| | | | | | | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| PLANTING | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| WEEDING | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| BIRD SCARING METHOD | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| CHEMICAL (FERTILIZER/INSECTICIDE APPLICATION) | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| HARVESTING | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| THRESHING OR SHELLING | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| DRYING | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| MILLING | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| INCREASE IN CROP YIELD | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| REDUCTION IN TOTAL FARM INPUTS | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| REDUCTION PRODUCTION COST | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| INCREASE IN YOUR FARM INCOME | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| INCREASE IN ENVIRONMENTAL POLLUTION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| REDUCTION IN TOTAL LABOR USE FOR FARMING | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| EASY FIELD ACTIVITIES | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

» Barriers to machinery use

| TO WHAT EXTENT DO THE FOLLOWING AFFECT YOUR USE OF MACHINERY FOR PRODUCTION? | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| HIGH COST OF REPAIRS | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| HIGH INITIAL COST | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| HIGH COST OF USE | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| HIGH MAINTENANCE COST | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| LACK OF COOPERATIVES THAT USE MACHINERY | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| | | | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| LACK OF ACCESS TO SPARE PARTS/DIFFICULTY IN PURCHASING SPARE PARTS | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| LACK OF MACHINERY TRAINING | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| LACK/INADEQUACY OF INFORMATION ON MACHINERY USE | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| LACK OF SUBSIDY ON MACHINERY USE | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| LIMITED SPACE TO STORE ACQUIRED MACHINERY | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| LACK OF MACHINERY SPECIALIZED IN SPECIFIC ACTIVITIES | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| SINGLE FUNCTION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| SIZE OF YOUR FARM LAND | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| ACCESS TO EXTENSION SERVICES | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

» Ease of access

| | | | | | | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| EASE OF ACCESS? | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| HOW EASY IS IT TO GET SPARE PARTS? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| HOW EASY IS IT TO HAVE ACCESS TO OPERATORS? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| HOW EASY IS IT TO GET INFORMATION ON MACHINERY USE? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| HOW EASY IS IT TO GET CUSTOMERS? | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

MODULE 6: THEORY OF PLANNED BEHAVIOUR

» Attitude Toward Mechanization

| | | | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| FOR ME USING MACHINES ON MY FARM WOULD BE -- | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| RATE FROM BAD TO GOOD. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| RATE FROM UNPLEASANT TO PLEASANT. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| RATE FROM USELESS TO USEFUL. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| | | | | | | | |
|-------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| RATE FROM UNENJOYABLE TO ENJOYABLE. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| RATE FROM UNDESIRABLE TO DESIRABLE. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| RATE FROM UNIMPORTANT TO IMPORTANT. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

» Subjective Norm

| | | | | | | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| MOST PEOPLE WHO ARE IMPORTANT TO ME THINK THAT _USE MACHINES. | 1. I Should. | 2 | 3 | 4 | 5 | 6 | 7. I Should Not. |
| RATE THIS QUESTION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| IT IS EXPECTED OF ME TO USE MACHINES ON MY FARM _. | 1. Extremely Likely | 2 | 3 | 4 | 5 | 6 | 7. Extremely Unlikely |
| RATE THIS QUESTION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| THE PEOPLE IN MY LIFE WHOSE OPINIONS I VALUE WOULD _ OF ME USING MACHINES ON MY FARM. | 1. Approve | 2 | 3 | 4 | 5 | 6 | 7. Disapprove |
| RATE THIS QUESTION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| THE EXTENSION OFFICERS IN MY AREA HAVE ENCOURAGED MY USE OF MACHINES. | 1. Completely True | 2 | 3 | 4 | 5 | 6 | 7. Completely Untrue |
| RATE THIS QUESTION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

» Intention

| | | | | | | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|
| I INTEND TO USE MACHINES ON MY FARM | 1. Extremely Likely. | 2 | 3 | 4 | 5 | 6 | 7. Extremely Unlikely. |
| RATE THIS QUESTION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| I HAVE DECIDED TO USE MACHINES ON MY FARM | 1. Definitely True. | 2 | 3 | 4 | 5 | 6 | 7. Definitely False. |
| RATE THIS QUESTION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| | | | | | | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------------|
| I AM DETERMINED TO USE MACHINERY ON MY FARM | 1. Strongly Agree. | 2 | 3 | 4 | 5 | 6 | 7. Strongly Disagree. |
| RATE THIS QUESTION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

» Perceived Behavioural Control

| | | | | | | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| FOR ME TO USE MACHINERY IN THE NEXT YEAR WOULD BE | 1 Impossible | 2 | 3 | 4 | 5 | 6 | 7 Possible |
| RATE THIS QUESTION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| IF I WANTED TO, I WOULD USE MACHINERY ON MY FARM | 1 Def true | 2 | 3 | 4 | 5 | 6 | 7 Def false |
| RATE THIS QUESTION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| HOW MUCH CONTROL DO I THINK I HAVE OVER MY USE OF MACHINERY? | 1 No control | 2 | 3 | 4 | 5 | 6 | 7 Complete control |
| RATE THIS QUESTION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| IT IS MOSTLY UP TO ME WHETHER OR NOT I USE MACHINERY IN THE NEXT YEAR | 1 Strongly agree | 2 | 3 | 4 | 5 | 6 | 7 Strongly disagree |
| RATE THIS QUESTION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

» Belief Strengths and Outcome Evaluation

| | | | | | | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| MY USE OF MACHINERY WOULD ALLOW MORE FLEXIBILITY WITH MY TIME | 1 Extremely unlikely | 2 | 3 | 4 | 5 | 6 | 7 Extremely likely |
| RATE THIS QUESTION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| MORE FLEXIBILITY WITH MY TIME IS__ | 1 Extremely good | 2 | 3 | 4 | 5 | 6 | 7 Extremely bad |
| RATE THIS QUESTION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| MACHINERY USE IS APPROPRIATE FOR MY FARMING STYLE | 1 Extremely unlikely | 2 | 3 | 4 | 5 | 6 | 7 Extremely likely |
| RATE THIS QUESTION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

| | | | | | | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| A FARMING METHOD THAT FITS MY STYLE IS | 1 Extreme ly bad | 2 | 3 | 4 | 5 | 6 | 7 Extreme ly good |
| RATE THIS QUESTION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| USING MACHINES CAN HELP IMPROVE MY STATUS | 1 Extreme ly unlikely | 2 | 3 | 4 | 5 | 6 | 7 Extreme ly likely |
| RATE THIS QUESTION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| TO ME IMPROVING MY FARMING STATUS IS | 1 Extreme ly bad | 2 | 3 | 4 | 5 | 6 | 7 Extreme ly good |
| RATE THIS QUESTION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| IF I START USING MACHINES, IT WOULD MAKE ME GET AHEAD FINANCIALLY | 1 Extreme ly unlikely | 2 | 3 | 4 | 5 | 6 | 7 Extreme ly likely |
| RATE THIS QUESTION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| BEING FINANCIALLY AHEAD FROM USING MACHINES IS | 1 Extreme ly bad | 2 | 3 | 4 | 5 | 6 | 7 Extreme ly good |
| RATE THIS QUESTION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| FINANCIAL INCENTIVES WOULD MAKE IT TO USE MACHINERY | 1 Much more difficult | 2 | 3 | 4 | 5 | 6 | 7 Much more easier |
| RATE THIS QUESTION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| I THINK THE GOVERNMENT WILL GIVE ME SOME INCENTIVES WHEN I USE MACHINES FOR FARMING | 1 Strongly Agree | 2 | 3 | 4 | 5 | 6 | 7 Strongly Disagree |
| RATE THIS QUESTION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| THE INCENTIVES FOR FARMING WILL MAKE IT __FOR ME TO USE MACHINES ON MY FARM. | 1 More difficult | 2 | 3 | 4 | 5 | 6 | 7 Much easier |
| RATE THIS QUESTION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

» Perceived Behavioural Control

| | | | | | | | |
|--|------------------|---|---|---|---|---|---------------------|
| I EXPECT THAT THE GOVERNMENT WILL MAKE AVAILABLE THE SUPPORT SERVICES REQUIRED FOR MECHANIZATION | 1 Strongly Agree | 2 | 3 | 4 | 5 | 6 | 7 Strongly Disagree |
|--|------------------|---|---|---|---|---|---------------------|

| | | | | | | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| RATE THIS QUESTION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| APPROPRIATE MACHINERY, EXTENSION SERVICES AND FARM INPUT SUPPLY WOULD MAKE IT __ FOR ME TO USE MACHINERY ON MY FARM. | 1 More difficult | 2 | 3 | 4 | 5 | 6 | 7 Much easier |
| RATE THIS QUESTION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| I EXPECT THE EXTENSION OFFICER TO OFFER TECHNOLOGICAL RESOURCES AND SUPPORT FOR ME TO EFFECTIVELY USE MACHINES ON THE FARM. | 1 Strongly Agree | 2 | 3 | 4 | 5 | 6 | 7 Strongly Disagree |
| RATE THIS QUESTION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| TECHNOLOGICAL RESOURCES AND SUPPORT WOULD MAKE IT FOR ME TO USE MACHINES ON THE FARM. | 1 Much more difficult | 2 | 3 | 4 | 5 | 6 | 7 Much easier |
| RATE THIS QUESTION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

» Normative Beliefs

| | | | | | | | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| MY SPOUSE THINKS THAT __ USE MACHINERY FOR MY FARM. | 1 I should: | 2 | 3 | 4 | 5 | 6 | 7 I should not |
| RATE THIS QUESTION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| THE LEADER OF MY COOPERATIVE THINKS THAT __ USE MACHINERY FOR MY FARM. | 1 I should | 2 | 3 | 4 | 5 | 6 | 7 I should not |
| RATE THIS QUESTION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| MY FRIENDS WHO ARE ALSO FARMING THINK THAT __ USE MACHINERY ON MY FARM. | 1 I should | 2 | 3 | 4 | 5 | 6 | 7 I should not |
| RATE THIS QUESTION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| THE EXTENSION OFFICER THINKS THAT USE MACHINERY ON MY FARM. | 1 I should | 2 | 3 | 4 | 5 | 6 | 7 I should not |
| RATE THIS QUESTION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

» Motivation To Comply

| | | | | | | | |
|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| WHEN IT COMES TO USING MACHINERY FOR FARMING HOW MUCH DO YOU WANT TO DO WHAT YOUR EXTENSION OFFICER THINKS YOU SHOULD DO? | 1 Not at all | 2 | 3 | 4 | 5 | 6 | 7 Very much |
| RATE THIS QUESTION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| WHEN IT COMES TO USING MACHINERY FOR FARMING HOW MUCH DO YOU WANT TO DO WHAT YOUR SPOUSE THINKS YOU SHOULD DO? | 1 Not at all | 2 | 3 | 4 | 5 | 6 | 7 Very much |
| RATE THIS QUESTION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| WHEN IT COMES TO USING MACHINERY FOR FARMING HOW MUCH DO YOU WANT TO DO WHAT YOUR OTHER FARMER FRIENDS THINKS YOU SHOULD DO? | 1 Not at all | 2 | 3 | 4 | 5 | 6 | 7 Very much |
| RATE THIS QUESTION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |
| WHEN IT COMES TO USING MACHINERY FOR FARMING HOW MUCH DO YOU WANT TO DO WHAT YOUR COOPERATIVE LEADER THINKS YOU SHOULD DO? | 1 Not at all | 2 | 3 | 4 | 5 | 6 | 7 Very much |
| RATE THIS QUESTION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> |

MODULE 7: ACCESS TO SERVICES

» Access to credit

| |
|---|
| <p>DID YOU OBTAIN ANY CREDIT OVER THE LAST SEASON?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> |
| <p>TYPE OF CREDIT</p> <p><input type="radio"/> Cash</p> <p><input type="radio"/> Farm Input</p> <p><input type="radio"/> Business</p> <p><input type="radio"/> Others</p> |
| <p>OTHERS, SPECIFY.</p> <hr/> |

| |
|--|
| <p>PURPOSE OF LOAN</p> <p><input type="radio"/> Capital For Business</p> <p><input type="radio"/> Buying Food</p> <p><input type="radio"/> Buying Inputs</p> <p><input type="radio"/> Others</p> |
| <p>OTHERS, SPECIFY</p> <p>_____</p> |
| <p>SOURCE</p> <p><input type="radio"/> Commercial Banks</p> <p><input type="radio"/> NGOs</p> <p><input type="radio"/> Friends/Relatives</p> <p><input type="radio"/> Government</p> <p><input type="radio"/> Informal Money Lenders</p> <p><input type="radio"/> Market women</p> <p><input type="radio"/> others</p> |
| <p>NGOS (SPECIFY)</p> <p>_____</p> |
| <p>OTHERS, SPECIFY</p> <p>_____</p> |
| <p>AMOUNT (GHC)</p> <p>_____</p> |
| <p>MATURITY PERIOD</p> <p>_____</p> |
| <p>GRACE PERIOD</p> <p>_____</p> |
| <p>INTEREST RATE IN TERMS OFF % OR IN CASH</p> <p>_____</p> |
| <p>AMOUNT REPAYED (GHC)</p> <p>_____</p> |
| <p>REPAYMENT TERMS</p> <p><input type="radio"/> At Once</p> <p><input type="radio"/> Quarterly Instalments</p> <p><input type="radio"/> Twice A Year</p> <p><input type="radio"/> Any Time</p> |

| |
|--|
| <p>CONDITIONS FOR GRANTING CREDIT</p> <p><input type="checkbox"/> Paying Deposit</p> <p><input type="checkbox"/> Declare Collateral</p> <p><input type="checkbox"/> Good Credit History</p> <p><input type="checkbox"/> Group Membership</p> <p><input type="checkbox"/> Knowledge Of Someone</p> <p><input type="checkbox"/> No Condition</p> <p><input type="checkbox"/> Other</p> |
| <p>OTHERS, SPECIFY</p> <hr/> |
| <p>PENALTY FOR DEFAULT</p> <p><input type="radio"/> Imprisonment</p> <p><input type="radio"/> Confiscate Property (Land)</p> <p><input type="radio"/> Confiscate Property (other property beside land for e.g. machinery, vehicle)</p> <p><input type="radio"/> Blacklist</p> |
| <p>LENDING MODE</p> <p><input type="radio"/> Individual</p> <p><input type="radio"/> Group</p> <p><input type="radio"/> Other</p> |
| <p>OTHER, SPECIFY</p> <hr/> |
| <p>TYPE OF INTEREST?</p> <p><input type="radio"/> Simple Interest</p> <p><input type="radio"/> Compound Interest</p> |

» Access to farm credit

| |
|--|
| <p>DID YOU GET ACCESS TO CREDIT?</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> |
| <p>YEAR: 2018</p> <p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> |
| <p>IF YES,</p> <p><input type="radio"/> Cash Credit</p> <p><input type="radio"/> In-kind</p> <p><input type="radio"/> Both</p> |

| |
|---|
| YEAR: 2019 <input type="radio"/> Yes <input type="radio"/> No |
| IF YES, <input type="radio"/> Cash Credit <input type="radio"/> In-kind <input type="radio"/> Both |
| YEAR: 2020 <input type="radio"/> Yes <input type="radio"/> No |
| IF YES, <input type="radio"/> Cash Credit <input type="radio"/> In-kind <input type="radio"/> Both |
| YEAR: 2021 <input type="radio"/> Yes <input type="radio"/> No |
| IF YES, <input type="radio"/> Cash Credit <input type="radio"/> In-kind <input type="radio"/> Both |
| YEAR: 2022 <input type="radio"/> Yes <input type="radio"/> No |
| IF YES, <input type="radio"/> Cash Credit <input type="radio"/> In-kind <input type="radio"/> Both |

» Access to off-farm credit

| |
|---|
| DID YOU GET ACCESS TO OFF-FARM CREDIT? <input type="radio"/> Yes <input type="radio"/> No |
|---|

| |
|--|
| YEAR: 2018 <input type="radio"/> Yes <input type="radio"/> No |
| IF YES, <input type="radio"/> Non-farm Job <input type="radio"/> Remittance <input type="radio"/> Others, Specify |
| OTHERS, SPECIFY <hr/> |
| YEAR: 2019 <input type="radio"/> Yes <input type="radio"/> No |
| IF YES, <input type="radio"/> Non-Farm Job <input type="radio"/> Remittance <input type="radio"/> Other |
| OTHER, SPECIFY <hr/> |
| YEAR: 2020 <input type="radio"/> Yes <input type="radio"/> No |
| IF YES, <input type="radio"/> Non-Farm Job <input type="radio"/> Remittance <input type="radio"/> Other |
| OTHER, SPECIFY <hr/> |
| YEAR: 2021 <input type="radio"/> Yes <input type="radio"/> No |
| IF YES, <input type="radio"/> Non-Farm Job <input type="radio"/> Remittance <input type="radio"/> Other |

| |
|--|
| OTHER, SPECIFY |
| YEAR: 2022 <input type="radio"/> Yes <input type="radio"/> No |
| IF YES, <input type="radio"/> Non-Farm Job <input type="radio"/> Remittance <input type="radio"/> Other |
| OTHER, SPECIFY |

MODULE 8: LIVELIHOOD SOURCES

| |
|---|
| WHAT IS YOUR AVERAGE ANNUAL INCOME FROM THE FARM? |
| 2021 |
| 2020 |
| 2019 |
| AVERAGE ANNUAL INCOME |
| |
| |
| |
| HAS YOUR HOUSEHOLD USED THE FOLLOWING SOURCES OF LIVELIHOOD WITHIN THE PREVIOUS MONTHS? CROP SALES |
| HOW MUCH DID YOU EARN IN 2021 |
| RANK |
| RICE SALES |
| |
| |
| MAIZE |

| |
|--|
| |
| |
| GROUNDNUTS (G/NUTS) |
| |
| |
| CASSAVA |
| |
| |
| SOYBEAN |
| |
| |
| BEANS |
| |
| |
| OTHERS (SPECIFY) |
| |
| |
| HAS THE HOUSEHOLD USED THE FOLLOWING SOURCES OF LIVELIHOOD DURING THE PREVIOUS MONTHS? LIVESTOCK/POULTRY/FISH |
| |
| HOW MUCH DID YOU EARN IN 2021 |
| |
| RANK |
| |
| CATTLE |
| |

| |
|---|
| |
| |
| GOAT |
| |
| |
| CHICKEN |
| |
| |
| FISH |
| |
| |
| OTHERS (SPECIFY) |
| |
| |
| HAS THE HOUSEHOLD USED THE FOLLOWING SOURCES OF LIVELIHOOD DURING THE PREVIOUS MONTHS? FORESTS-BASED ENTERPRIZES |
| HOW MUCH DID YOU EARN IN 2021 |
| RANK |
| SELLING POLES |
| |
| |
| SELLING FIREWOOD/CHARCOAL |
| |

| |
|---|
| |
| |
| SELLING TIMBER/PLANKS |
| |
| |
| HUNTING (SELLING GAME) |
| |
| |
| SELLING CURIOS |
| |
| |
| CARPENTRY |
| |
| |
| PIT SAWING |
| |
| |
| OTHERS (SPECIFY) |
| |
| |
| HAS THE HOUSEHOLD USED THE FOLLOWING SOURCES OF LIVELIHOOD DURING THE PREVIOUS MONTHS? |
| |

| |
|--------------------------------------|
| HOW MUCH DID YOU EARN IN 2021 |
| |
| RANK |
| |
| WAGE/SALARIED EMPLOYMENT |
| |
| |
| |
| LABOURER (CASH PAYMENT) |
| |
| |
| |
| RENT/SELL LAND |
| |
| |
| |
| PETTY TRADING |
| |
| |
| |
| PIECE WORK (KIND PAYMENT) |
| |
| |
| |
| LABOURER (KIND PAYMENT) |
| |
| |
| |
| PIECE WORK (CASH PAYMENT) |
| |

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|---------------------|
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| |
| REMITTANCES |
| |
| |
| OWN BUSINESS |
| |
| |

Comments

| |
|--|
| IS THERE ANY OTHER THING YOU WILL LIKE TO SHARE WITH US? |
| |
| COOMENTS FROM ENUMERATOR |
| |