

Evaluation of Agroecology Efforts: Impact Assessment Survey of Pro- Soil Project.



INITIATIVE ON
Agroecology

Sonali Singh¹, Muzna Alvi¹, Shweta Gupta¹, Smitha Krishnan²,
Sudarshan Maliappan³, Gopal Kumar³

¹International Food Policy Research Institute; ²Alliance Bioversity and
CIAT; ³International Water Management Institute

Date: 12th December 2024



Contents

SECTION A: INTRODUCTION	3
SECTION B: INCOME AND OCCUPATION	14
SECTION C: LAND DETAILS (TO BE ASKED TO PRIMARY AGRICULTURAL DECISION MAKER)	23
SECTION D: LAND CHARACTERISTICS OF TOP 3 PLOTS (TO BE ASKED TO PRIMARY AGRICULTURAL DECISION MAKER)	24
SECTION E: CROP ECONOMICS (TO BE ASKED TO PRIMARY AGRICULTURAL DECISION MAKER)	31
Land Characteristics And Irrigation.....	32
Cost Of Production	34
Seed	34
Labor	35
Fertilizer, Pesticide, Weedicide Use.....	37
Machine Use	39
Animal Use.....	40
Output/Production.....	40
Total output of crop [KG]	40
Sale	41
SECTION F: FARM MACHINERY, WELLS & PUMPS, AND WAGE RATES (TO BE ASKED TO PRIMARY AGRICULTURAL DECISION MAKER)	43
SECTION G: HOMESTEAD CROPPING PATTERNS (TO BE ASKED TO FEMALE RESPONDENTS ONLY)	46
Homestead Crop Section.....	48
Cost Of Production	50
SECTION H: LIVESTOCK SECTION (TO BE ASKED TO FEMALE RESPONDENTS ONLY)	57
Feed improvement techniques and management	59
Livestock products Market.....	60
SECTION I: USE OF COMMONS, FOREST LAND (TO BE ASKED TO FEMALE RESPONDENT ONLY)	62
SECTION J: ENERGY USE FOR HH AND FARM (TO BE ASKED TO FEMALE RESPONDENTS)	68
Energy Sources Used.....	68
Electricity Access.....	71
Energy insecurity experiences scale.....	72
SECTION K: SHOCKS AND ADAPTATION (TO BE ASKED TO PRIMARY AGRICULTURAL DECISION MAKER)	74
Adaptation strategies	82
SECTION L: FOOD SECURITY (TO BE ASKED FROM ALL THE RESPONDENTS)	85
Section M: Dietary diversity and Diet Quality-DQQ-9	87
SECTION N: OPTIMISED PRO-WEAI (TO BE ASKED TO ALL RESPONDENTS)	90

WEAI- Module 1 Role in Household Decision Making Around Production And Income.....	90
WEAI Module 2: Access to Productive Capital	91
WEAI Module 3: Access to Financial Services	94
WEAI Module 4: Time Allocation	95
WEAI Module 5: Physical Mobility	97
WEAI Module 6(A): Autonomy In Decision-Making.....	98
WEAI Module N6(B): New General Self-Efficacy Scale	98
WEAI Module 7: Attitudes About Intimate Partner Violence Against Women	99
WEAI Module 8: Group Membership	99
Collective agency	102
Social Cohesion	103
SECTION O: ASSET MODULE AND ACCESS TO BASIC SERVICES (TO BE ASKED TO FEMALE RESPONDENTS ONLY).....	105
Main House	105
ASSET MODULE and ACCESS TO BASIC SERVICES	106
Household assets	107
Household Services	107
ASSET MODULE and ACCESS TO BASIC SERVICES: Food Aid or other Government Subsidies.....	108
Farm Support	109
SECTION P: ASPIRATION MODULE (TO BE ASKED FROM ALL RESPONDENTS)	110
SECTION Q: FARMER IDENTIFICATION (TO BE ASKED TO PRIMARY AGRICULTURAL DECISION MAKER)	119

SECTION A: INTRODUCTION

1	Enumerator name	1	Rahul kumar
		2	Sumit Singh
		3	Ravish Nath
		4	Devendra kumar
		5	Bhajendra Kushram
		6	Ravindra Singh
		7	Namrata Bhardwaj
		8	Santoshi Tappo
		9	Pooja Yadav
		10	Sasmita Panda
		11	Pratima Dhuriya
		12	Khushboo Khatika
		13	Ashish Dwivedi
		14	Suman Kumar
		95	Other, specify
2	<p>Greetings!</p> <p>I am from KPS – an agency doing research in the state of Madhya Pradesh.</p> <p>We are conducting farm-household surveys as part of the CGIAR’s Agroecology initiative. This initiative aims to develop and scale agroecological innovations with small-scale farmers in 8 low- and middle-income countries in Asia, Africa and US region. Here, agroecology is an approach to achieving sustainable agri-food systems, grounded in a set of principles that emphasize the need to work with not against nature, and to achieve social justice by co-creating knowledge, increasing farmer and multi-actor participation and agency in decision-making, while better connecting producers to consumers.</p> <p>One goal of the initiative is to better understand the social, economic and environmental outcomes in farm-households that are more agroecological compared to those that are less agroecological. As part of this, we are conducting farm-household survey with approximately 200 households in each of eight countries including India.</p>	1	Yes
		0	No

	<p>You are invited to participate in one such survey. The survey includes an interview with you which will take approximately 1.5 hours. In the interview we will ask you questions about the various social, economic and environmental outcomes about your household, your farm, and your opinion on agroecology. We are compensating the time given by you in the survey by contributing to the village samiti group.</p> <p>We realise this interview is taking place during your working day and really appreciate you taking the time to talk to us. Please feel free to pause or reschedule the interview at any point if you need to in order to minimize inconvenience to you.</p> <p>The information collected during the interviews will be summarized in a project report and academic paper. We will completely anonymize interview responses before analysis so that participants cannot be individually identified. No personal or sensitive information about participants will be published.</p> <p>Your participation is entirely voluntary, and you can leave at any time. Are you happy to continue with the interview?</p>		
3	Please specify the BLOCK.	1	Bichhiya
		2	Niwas
		95	Other, specify
4	Please specify the VILLAGE	1	Amagahan
		2	Amwar Jar
		3	Anjani Mal.
		4	Atariya
		5	Aurai (Orai)
		6	Bharkhi Raiyat
		7	Bhima
		8	Changariya
		9	Chilphi
		10	Dhangaon Raiyat
		11	Dhumni (Dhabani)Mal.
		12	Gadia
		13	Ghont

		14	Gubri
		15	Gudli
		16	Harratola Raiyat
		17	Jailwara Raiyat
		18	Kanhari Khurd
		19	Karigahan (Katigahan)
		20	Katanga Mal.
		21	Kewlari Raiyat
		22	Khamhariya
		23	Khuksar
		24	Khuluwa
		25	Koko Raiyat
		26	Kumaha Raiyat
		27	Manjhipur
		28	Muwalasani Raiyat
		29	Naiguwan Raiyat
		30	Nandram Raiyat
		31	Navgawan (Naigawan)Raiyat
		32	Rajo Raiyat
		33	Rata
		34	Sajalagan F.V.
		35	Sarasdoli Mal.
		36	Sautia
		37	Tikariya
		38	Umardih
		39	Kharrajhar
		40	Kharpariya
		41	Dadhiryt.
		42	Kosampani

		43	Budhanwara
		44	Katangi
		45	Gupangi
		46	Dhutka
		47	Bodachhapri
		48	Khursipar
		49	Sathiyaf.V.
		50	Ramhepur
		51	Surehala
		52	Surpati
		53	Magdha
		54	Mubalamal.
		55	Taktuwa
		56	Umarwada
		57	Atariya
		58	Koko Raiyat
		59	Dhangaon Raiyat
		60	Kewlari Raiyat
		61	Khuksar
		62	Dhumni (Dhabani) Mal*
		63	Chuttipondi
		64	Khalaudi ryt.
		65	Indraf.v.
		66	Harrabhat
		67	Bhimpuriyt.
		68	Lohtaf.v.
		69	Simaiyabhagpur f.v.
		70	Aroli ryt.
		95	Mudjhaur
		71	Amdari Raiyat

		72	Chaura Dadar Raiyat
		73	Gundlai Mal. (Gudlai Mal)
		74	Hathitara Mal.
		75	Jangaliya Raiyat
		76	Jhalpani Mal.
		77	Masoor Ghughari Mal.
		78	Saraswahi Raiyat (Mehra Seoni)
		79	Umariya (Rosar)
		80	Lahsar
		81	Maharaseoni
		82	Rosar
		83	Kedwamal.
		84	Kohri
		85	Malharimal.
		86	Kusmi(Gajjudeori)
		87	Bhatgaon
		88	Jawedhamal.
		89	Harisingoriryt.
		90	Samaiyarampuri
		91	Mawaimal.
		92	Dala
		93	Khamhariya Raiyat(Kohri)
		94	Kohani
		95a	Satpahari Raiyat
		97	Hathitara ryt.
		98	Jugthar f.v.
		99	Tauri ryt.(hathitara)
		100	Paddikonamal.
		101	Mawai ryt.

		102	Basgarhimal.
		96	Other1, specify
5	Is this treatment village or control village?	1	Treatment village
		2	Control village
6	Please enter your survey number (E.g. 1, 2, 3.)		
7	Are you the primary decision maker in your household for agriculture?	1	Yes
		2	No
8	[If 7=2] If no, then who is the primary decision maker for agriculture in your household?	1	Self
		2	Husband/Wife
		3	Father
		4	Mother
		5	Father-in-law
		6	Mother-in-law
		7	Grandfather
		8	Grandfather-in-law
		9	Grandmother
		10	Grandmother-in-law
		11	Son
		12	Daughter
		13	Son-in-law
		14	Daughter-in-law
		15	Brother
		16	Sister
		17	Brother-in-law
		18	Brother-in-law
		19	Sister-in-law
		20	Sister-in-law 1
		21	Sister-in-law 2
		22	Uncle
		23	Aunt

		24	niece
		25	nephew
		26	grandson
		27	granddaughter
		95	Other specify
9	Respondent's First name For example- if person's name is Reena Marawi, then Reena is first name, and Marawi is last name		
10	Respondent's Last name For example- if person's name is Reena Marawi, then Reena is first name, and Marawi is last name		
11	First name of other persons who is being interviewed in the same household (If no other person is being interviewed- in a case where it is a women headed household and she is a primary decision maker- then put AAA in the first name and ZZZ in lastname) For example- if person's name is Reena Marawi, then Reena is first name, and Marawi is last name		
12	Last name of other persons who is being interviewed in the same household (If no other person is being interviewed- in a case where it is a women headed household and she is a primary decision maker- then put AAA in the first name and ZZZ in lastname) For example- if person's name is Reena Marawi, then Reena is first name, and Marawi is last name		
13	Phone number. [specify 999 if no number]		
14	Alternative phone number (if any). [specify 999 if no alternative number]		
hhid	Please note that the unique ID for this farmer is \${hhid}		
15	Who is the head of your household?	1	Self
		2	Husband/Wife
		3	Father
		4	Mother
		5	Father-in-law
		6	Mother-in-law

		7	Grandfather
		8	Grandfather-in-law
		9	Grandmother
		10	Grandmother-in-law
		11	Son
		12	Daughter
		13	Son-in-law
		14	Daughter-in-law
		15	Brother
		16	Sister
		17	Brother-in-law
		18	Brother-in-law
		19	Sister-in-law
		20	Sister-in-law 1
		21	Sister-in-law 2
		22	Uncle
		23	Aunt
		24	Niece
		25	Nephew
		26	Grandson
		27	Granddaughter
		95	Other specify
16	What is your age? Response constrained to: .>=18		
17	Gender	1	Male
		2	Female
		3	Non-binary
		99	Prefer not to say
18	Marital status	1	Married
		2	Partner (not-married)

		3	Single
		4	Divorced / Separated
		5	Widow/widower
		777	Prefer not to say
19	Religion	1	Hindu
		2	Muslim
		3	Sikh
		4	Christianity
		95	Other specify
20	Caste	1	General caste
		2	Scheduled caste
		3	Scheduled tribe
		4	Other backward class
21	Specify sub-caste:		
22	Number of years of farming experience		
23	How many family members are there in the respondent's family?		
24	What is the literacy level of the respondent?	1	Cannot read or write
		2	Can write but cannot read
		3	Can read but cannot write
		4	Can read and write
25	What is the highest level of schooling acquired by the respondent?	1	No schooling
		2	Primary (class 1-5) Completed
		3	Middle school (class 6-7) Completed
		4	High school (class 8-10) Completed
		5	Intermediate (class 11-12) Completed
		6	Graduate (Bachelors) Completed
		7	Postgraduate (Masters) or higher Completed
		8	Vocational training/Diploma
		95	Other specify

26	Have you or anyone in your family participated in activities done by FES during the years 2018-2023?	1	Yes
		2	No
		99	Don't know
27	In what all activities have you been involved with FES over the last 6 years? Select Multiple Read out question & options:	1	Working as CRP- Gram Mitra
		2	Part of Mahila Sabha
		3	Hold Leadership position at Mahila Sabha
		4	Part of Samiti (it has members of Mahila Sabha and Village Panchayat)
		5	Hold Leadership position at Samiti
		6	Part of block level federation- (has members of Samiti, Mahila Sabha, Village panchayat)
		7	Hold leadership position at Federation
		8	Member of Natural Resource Management Committee
		9	Have been involved in Lantana Removal
		10	Given Agricultural Equipment
		11	Given seeds
		12	Poultry
		13	Goatry or piggery
		14	Stone bunding/Farm Bunding
		15	Stone Gully Plug, Contour Trenches, Gully trenches
		16	Cattle shed Flooring
		17	Biochar application

		18	Received knowledge on other improved farm management techniques like intercropping, line sowing, etc.
		19	Received knowledge on organic input preparation and use like jeevamrut, neemastra, etc.
		20	Poultry Shed
		21	Tank for organic manure Preparation
		95	Other 1, specify
		99	Don't remember/ I don't want to answer

SECTION B: INCOME AND OCCUPATION

Now we will ask you about Rabi 2023-24, Summer 2024 & Kharif 2024, that is October 2023 to October 2024; henceforth year 2023-24

1	<p>What was your main occupation within the village in year 2023-24?</p> <p>Select one</p>	1	Agriculture on own land
		2	Agriculture on rented land (tenant farmer)
		3	Cattle farming
		4	Poultry farming
		5	Goatry
		6	Fisheries
		7	Dairy farming
		8	Permanent labour on other farmers' land
		9	Seasonal wage labor on other farmers' land
		10	Casual labour work in NREGA/Panchayat work
		11	Dependent on forest produce (tendu leaves, mahua etc.)
		12	Private job in a company
		13	Government job
		14	Own business (like general store, garment store, pan shop, etc.)
		15	Freelance serviceman (electrician/ plumber/ painter/ security guard,
		16	Leasing land to others (landowner)
		17	Homemaker
		18	Migrate for work to earn
		19	Skilled

		20	non skilled work
		21	Pension
		22	Government scheme money (Ladli behena, PMKSY etc.)
		23	Unemployed
		24	Cant work
		25	Prefer not to say
		95	Other, specify
2	What was your other occupation(s) within the village in year 2023-24, if any? (Select Multiple)	1	Agriculture on own land
		2	Agriculture on rented land (tenant farmer)
		3	Cattle farming
		4	Poultry farming
		5	Goatry
		6	Fisheries
		7	Dairy farming
		8	Permanent labour on other farmers' land
		9	Seasonal wage labor on other farmers' land
		10	Casual labour work in NREGA/Panchayat work
		11	Dependent on forest produce (tendu leaves, mahua etc.)
		12	Private job in a company
		13	Government job
		14	Own business (like general store, garment store, pan shop, etc.)
		15	Freelance serviceman (electrician/ plumber/ painter/ security guard,
		16	Leasing land to others (landowner)

		17	Homemaker
		18	Migrate for work to earn
		19	Skilled
		20	non skilled work
		21	Pension
		22	Government scheme money (Ladli behena, PMKSY etc.)
		23	Unemployed
		24	Cant work
3	Did you/anyone in the household go outside the village to work for income in year 2023-24?	25	Prefer not to say
		99	None
		95	Other, specify
4	Did you go outside the village to work for income in year 2023-24	1	Yes
		2	No
5	[If 4=1] What work did you do outside? (Select Multiple)	1	Agriculture on own land
		2	Agriculture on rented land (tenant farmer)
		3	Cattle farming
		4	Poultry farming
		5	Goatry
		6	Fisheries
		7	Dairy farming
		8	Permanent labour on other farmers' land
		9	Seasonal wage labor on other farmers' land
		10	Casual labour work in NREGA/Panchayat work
		11	Dependent on forest produce (tendu leaves, mahua etc.)
		12	Private job in a company

		13	Government job
		14	Own business (like general store, garment store, pan shop, etc.)
		15	Freelance serviceman (electrician/ plumber/ painter/ security guard,
		16	Leasing land to others (landowner)
		17	Homemaker
		18	Migrate for work to earn
		19	Skilled
		20	non skilled work
		21	Pension
		22	Government scheme money (Ladli behena, PMKSY etc.)
		23	Unemployed
		24	Cant work
		25	Prefer not to say
		95	Other, specify
6	Name of the place where you migrated		
7	For how long did you migrate?	1	One month
		2	Two months
		3	Three months
		4	Four months
		5	Five months
		6	Six months
		7	Seven months
		8	Eight months
		9	Nine months
		10	Ten months
		11	Eleven months

		12	Twelve months
		13	More than one year
		95	Others, specify
8	Did anyone else from your household migrate for work for income in year 2023-24	1	Yes
		2	No
9	If yes, then who from the household migrated for your household for income in 2023-24?	1	Self
		2	Husband/Wife
		3	Father
		4	Mother
		5	Father-in-law
		6	Mother-in-law
		7	Grandfather
		8	Grandfather-in-law
		9	Grandmother
		10	Grandmother-in-law
		11	Son
		12	Daughter
		13	Son-in-law
		14	Daughter-in-law
		15	Brother
		16	Sister
		17	Brother-in-law
		18	Brother-in-law
		19	Sister-in-law
		20	Sister-in-law 1
		21	Sister-in-law 2
		22	Uncle
		23	Aunt
		24	Niece
		25	Nephew

		26	Grandson
		27	granddaughter
		95	Other specify
10	If yes then, what work did he/she do outside? (Select Multiple)	1	Agriculture on own land
		2	Agriculture on rented land (tenant farmer)
		3	Cattle farming
		4	Poultry farming
		5	Goatry
		6	Fisheries
		7	Dairy farming
		8	Permanent labour on other farmers' land
		9	Seasonal wage labor on other farmers' land
		10	Casual labour work in NREGA/Panchayat work
		11	Dependent on forest produce (tendu leaves, mahua etc.)
		12	Private job in a company
		13	Government job
		14	Own business (like general store, garment store, pan shop, etc.)
		15	Freelance serviceman (electrician/ plumber/ painter/ security guard,
		16	Leasing land to others (landowner)
		17	Homemaker
		18	Migrate for work to earn
		19	Skilled
		20	non skilled work

		21	Pension
		22	Government scheme money (Ladli behena, PMKSY etc.)
		23	Unemployed
		24	Cant work
		25	Prefer not to say
		95	Other, specify
11	Name of the place where your family member migrated?		
12	Reasons for migration in your household?	1	Lack of agricultural work
		2	Unavailability of casual labour
		3	Shortage of irrigation
		4	Better livelihood
		95	Others, specify
13	How much cumulative income did your household make while working outside? In rupees		
14	Select all the sources of income for your household in year 2023-24. (Select Multiple)	1	Agriculture on own land
		2	Agriculture on rented land (tenant farmer)
		3	Cattle farming
		4	Poultry farming
		5	Goatry
		6	Fisheries
		7	Dairy farming
		8	Permanent labour on other farmers' land
		9	Seasonal wage labor on other farmers' land
		10	Casual labour work in NREGA/Panchayat work
		11	Dependent on forest produce (tendu leaves,

			mahua etc.)
		12	Private job in a company
		13	Government job
		14	Own business (like general store, garment store, pan shop, etc.)
		15	Freelance serviceman (electrician/ plumber/ painter/ security guard,
		16	Leasing land to others (landowner)
		17	Homemaker
		18	Migrate for work to earn
		19	Skilled
		20	non skilled work
		21	Pension
		22	Government scheme money (Ladli behena, PMKSY etc.)
		23	Unemployed
		24	Cant work
		25	Prefer not to say
		95	Other, specify
15	Do you have any homestead land? If there is more than one plot near the house, choose the one which is closest to the house-Homestead.	1	Yes
		2	No
16	What is the principal unit you use for measuring homesteadland? (Select one)	1	Acre
		2	Hectare
		3	Decimal
		4	Bigha
		5	Koode
		6	Square feet
		95	Other, specify
17	1 acre= how many {homsland_unit_final}		

18	Area of homestead land		in {homsland_unit_final}
----	------------------------	--	--------------------------

SECTION C: LAND DETAILS (TO BE ASKED TO PRIMARY AGRICULTURAL DECISION MAKER)

1	What is the principal unit you use for measuring land? (Select one) land_unit	1	Acre
		2	Hectare
		3	Decimal
		4	Bigha
		5	Koode
		6	Square feet
		95	Other, specify
2	1 acre = how many $\{land_unit\}$?		
3	area of land leased in		In $\{land_unit\}$
4	area of land leased out		In $\{land_unit\}$
5	area of sharecropped		In $\{land_unit\}$
6	Area of land sharecropped out		In $\{land_unit\}$
7	Area of community land in		
8 total_agrilandholding	Total operational holding		To be calculated according to formula [(Owned + leased + sharecropped in+ community land+ homestead land) – (sharecropped out + leased out)]
9 total_mainland	Mainland		Total operational holding- homestead land

SECTION D: LAND CHARACTERISTICS OF TOP 3 PLOTS (TO BE ASKED TO PRIMARY AGRICULTURAL DECISION MAKER)

1	<p>Select the different types of land on which to collect data now: (Select Multiple)</p> <p>Note: If there is more than one agriculture plot, choose the one that is the largest and on which the farmer cultivates the most. But if there are more than 1 plot joint together/adjacent to each other but differ only in ownership status, then choose that entire continuous patch here. - Major type of agriculture land</p> <p>If there is more than one plot near the house, choose the one which is closest to the house- Homestead.</p> <p>If there is more than one plot near natural vegetation, choose the one which is nearest to the natural vegetation and farthest from human habitation. If there is no natural vegetation near the land, then choose the one which is farthest from human habitation. Moreover, if there are more than 1 plot joint together/adjacent to each other but differ only in ownership status, then choose that entire continuous patch here- Upland closer to the forest land</p>	1	Major Jheel/ normal agriculture land
		2	Barra land/land close to forest
	Now we will ask you questions about the LANDTYPE.		
	Begin Land type repeat for 1		
2	What is the total area of this $\{area_landtype\} \{land_unit_final\}$ $\{landtype_names\}$?		(In $\{land_unit\}$)
3	What is the major land use type of this $\{area_landtype\} \{land_unit_final\}$ $\{landtype_names\}$	1	Crop production
		2	Rearing Livestock
		3	Grazing land/pasture land
		4	Kitchen garden
		5	Farm forestry
		95	Other (pls. specify)
4	What is the distance of this this $\{area_landtype\} \{land_unit_final\}$ $\{landtype_names\}$ from household?		In kms

5	What is the Soil type of this \${area_landtype} \${land_unit_final} \${landtype_names} ?	1	Black soil
		2	Brown soil
		3	Grey soil
		4	Red soil
		5	Yellow soil
		6	Murram soil
		7	Sandy soil
		8	Clayey soil
		9	Loamy
		95	Others, specify
6	How would you describe the soil fertility of this \${area_landtype} \${land_unit_final} \${landtype_names}?	1	Highly fertile
		2	Moderately fertile
		3	Low fertility
		4	Infertile
7	How would you describe the slope of this \${area_landtype} \${land_unit_final} \${landtype_names} ?	1	Flat
		2	Slight Incline (up to 30 degree)
		3	Steep
8	How would you describe the soil erosion of this \${area_landtype} \${land_unit_final} \${landtype_names}?	1	No erosion
		2	Mild erosion
		3	Severe erosion
9	Did you use any mechanism to improve soil quality of this \${area_landtype} \${land_unit_final} \${landtype_names}?	1	Yes
		2	No
10	On this \${area_landtype} \${land_unit_final} \${landtype_names} which of the following practices did you adopt to improve soil or land quality and health: (select multiple)	1	Add inoculants (fungi, bacteria) for example curd.
		2	Biochar (coal powder)
		3	Leave crop residues on ground after harvesting
		4	Fertilizer microdosing
		5	Mulching
		6	No tillage

		7	Plant cover crops
		8	Plant legumes
		9	Planting basins
		10	Reduced tillage
		11	Manually removed plants and fruits showing signs of disease
		12	Planted naturally pest repelling plants
		13	Planted improved varieties or genetically modified that are pest repellent (for example type of hybrid)
		14	Used cover crops/ intercropping/ crop rotation to increase biological interactions
		15	Let beneficial organisms grow for biological-control
		16	Crop Rotation
		17	Left fallow
		95	Other (please specify)
11	Did you use this \${area_landtype} \${land_unit_final} \${landtype_names} to graze animals?	1	Yes
		2	No
12	Which of the following practices on this land used for grazing on \${area_landtype} \${land_unit_final} \${landtype_names} to improve it?	1	Fodder shrubs
		2	Pasture rehabilitation (improving land like lantana removal)
		3	No manure management
		4	Ex closures
		5	Pasture fertilization
		6	Biogas production (like gobar gas)
		7	Silvopastoralism (using one land for grazing, cropping and plating tree- for example community land which are used as grazing land and have mahua, tendu patta trees as well)
		8	Overgrazing

		9	Producing feed legumes
		10	Reducing grazing pressure
		11	Keeping improve breeds
		12	Manure collection
		13	Improve manure storage
		15	Incllosures
		95	Other (please specify)
		99	None
13	In which of the seasons did you cultivate this \${area_landtype} \${land_unit_final} \${landtype_names} agriculture land? (Select Multiple)	1	Kharif 2024
		2	Summer 2024
		3	Rabi 2023-24
		91	Did not cultivate this land in last one year
14	Repeat for each season		
15	Select all the crops grown on \${area_landtype} in \${land_unit_final} land in \${season_name} (Select Multiple)	1	Rice
		2	Wheat
		3	Maize
		4	Gram
		5	Pigeon pea (Arhar)
		6	Green gram (moong)
		7	Urad
		8	Lentils (Masoor)
		9	Flaxseed
		10	Soybean
		11	Sesamum
		12	Niger seeds
		13	Mustard
		14	Groundnut
		15	Leafy vegetables like spinach, lal bhaji, etc.

		16	Brinjal
		17	Bottle Gourd
		18	Tomato
		19	Ginger
		20	Coriander
		21	Chilli
		22	Beans
		23	Mushroom
		24	Sugarcane
		25	Sorghum
		26	Barley
		27	Kodu
		28	Kutki
		29	Sunn hemp (used for making ropes)
		30	Other 1, specify
		31	Other 2, specify
		32	Other 3, specify
		33	Pea
		98	No seasonal crops grown in the past 12 month
16	Who manages \${area_landtype} in \${land_unit_final} land in \${season_name} SELECT Multiple	1	Self
		2	Husband/Wife
		3	Father
		4	Mother
		5	Father-in-law
		6	Mother-in-law
		7	Grandfather
		8	Grandfather-in-law
		9	Grandmother

		10	Grandmother-in-law
		11	Son
		12	Daughter
		13	Son-in-law
		14	Daughter-in-law
		15	Brother
		16	Sister
		17	Brother-in-law
		18	Brother-in-law
		19	Sister-in-law
		20	Sister-in-law 1
		21	Sister-in-law 2
		22	Uncle
		23	Aunt
		24	niece
		25	nephew
		26	grandson
		27	granddaughter
		95	Other specify
17	Is this \${area_landtype} in \${land_unit_final} land in \${season_name}?	1	Irrigated
		2	Rainfed
18	[If 17=1] What is the source of irrigation for this \${area_landtype} in \${land_unit_final} land in \${season_name}?	1	Public irrigation system/canals
		2	Tubewell/Borewell
		3	Hand-dug well
		4	Community reservoir
		5	Pumping/Using from river or nala
		6	Pump from pond/lake/well
		7	Roof water harvesting

		8	Surface/road runoff water harvesting
		9	rainfed
		10	water left from household use
		95	Others, specify
19	How many irrigations did you do on this $\{area_landtype\}$ in $\{land_unit_final\}$ land in $\{season_name\}$?		In number
20	Do you use any machines that operate on electricity/fuel in this plot in $\{area_landtype\}$ in $\{land_unit_final\}$ land in $\{season_name\}$?	1	Yes
		2	No
21	Area of Land left fallow of $\{area_landtype\}$ in $\{land_unit_final\}$ land in $\{season_name\}$?		(In $\{land_unit\}$)
22	[Skip if 21=0] What were the reasons for leaving $\{area_landtype\}$ in $\{land_unit_final\}$ land in fallow in $\{season_name\}$?	1	Slash and leave it on the surface for livestock to graze on
		2	Livestock Gazing
		3	Infested with Lantana
		4	Could not cultivate due to insufficient rainfall
		5	To make fertile
		95	Others, specify
	End Repeat for Seasons		
	End Repeat Land type repeat		

SECTION E: CROP ECONOMICS (TO BE ASKED TO PRIMARY AGRICULTURAL DECISION MAKER)

	This section would be coded three times with condition for each season- Kharif 2024, Summer 2024, Rabi 2023-24	
	Crop Production - Seasonal crops (for crops grown in the past year/12 months) (To be asked to the primary agricultural decision maker) for agricultural main land (Exclude homestead land but include any other land that is owned in your name, owned by combined household, leased or rented land, land given for free to you, community land on which you are working jointly with others, irrespective of whether you did any activity on it-like agriculture, livestock rearing, fisheries, any other business- or not).	
1	Select two main crops grown in \${season_name} on your {total_mainland} \${land_unit_final} main agriculture land?	1 Rice
		2 Wheat
		3 Maize
		4 Gram
		5 Pigeon pea (Arhar)
		6 Green gram (moong)
		7 urad
		8 Lentils (Masoor)
		9 Flaxseed
		10 Soybean
		11 Sesamum
		12 Niger seeds
		13 Mustard
		14 Groundnut
		15 Leafy vegetables like spinach, lal bhaji, etc.
		16 Brinjal
		17 Bottle Gourd
		18 Tomato
		19 Ginger
		20 Coriander

		21	Chilli
		22	Beans
		23	Mushroom
		24	Sugarcane
		25	Sorghum
		26	Barley
		27	Kodu
		28	Kutki
		29	Sunn hemp (used for making ropes)
		30	Other 1, specify
		31	Other 2, specify
		32	Other 3, specify
		33	Pea
		98	No seasonal crops grown in the past 12 month
	Begin Repeat for crop selected		
Land Characteristics And Irrigation			
2	Total Area dedicated to this \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final}		In \${land_unit}
3	Planting date [day, month, year] for this \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final}		
4	Have you harvested for this \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final}		Yes
			no

5	Harvesting date [day, month, year] \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final}		
6	Source of water for \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final} Select multiple	1	Public irrigation system/canals
		2	Tubewell/Borewell
		3	Hand-dug well
		4	Community reservoir
		5	Pumping/Using from river or nala
		6	Pump from pond/lake/well
		7	Roof water harvesting
		8	Surface/road runoff water harvesting
		9	rainfed
		10	water left from household use
		95	Others, specify
7	If irrigation \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final}, specify type	1	Flood
		2	Furrow
		3	Border
		4	Micro sprayer
		5	Surface Drip
		6	Center Pivot
		7	Trickle
		8	Sprinkle
		9	Individual (Hose, Bucket, Watering can)
		10	Drip Irrigation
		98	No irrigation

	8	Total estimated cost of irrigating for \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final} (Cost of buying water + fuel+ other cost)		
Cost Of Production				
		Seed		
	9	Source of Seed for \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final} (use code)	1	Flood
			2	Furrow
			3	Border
			4	Micro sprayer
			5	Surface Drip
			6	Center Pivot
			7	Trickle
			8	Sprinkle
			9	Individual (Hose, Bucket, Watering can)
			10	Drip Irrigation
			9	No irrigation
			9	Other specify
			10	Kind of Seed for \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final}
	2	Hybrid		
	3	improved/certified		
	11	Quantity of Seed (in kg) for \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final}		
	12		1	KG

			Seed unit for \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final}	2	Gram	
				3	Bundle	
				4	Number	
				9	Other specify	
				5		
	13	Total cost of seed (Rs.) for \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final}				
	Labor					
	14	Own/family labor used (no. of person days) for male for \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final}				
	15	Own/family labor used (no. of person days) for female for \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final}				
	16	Hired Labor used (no. of person days)- for male for \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final}				
	17	Hired Labor used (no. of person days)- for female for \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final}				
	18	Exchange Labour used (no. of person days)- for male for \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final}				
	19	Exchange Labour used (no. of person days)-				

		for female for \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final}		
	20	Did you pay labour in cash or kind for \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final}	1	cash
			2	kind
	21	Value of daily wage paid to hired labor per day for male for \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final} in INR Assess the paid labour value- for example if 1 katha of the crop is given as a labour cost for entire season then write the value of one katha divided by number of days labour was hired-		
	21 a	Value of daily wage paid to hired labor per day for female for \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final} in INR Assess the paid labour value- for example if 1 katha of the crop is given as a labour cost for entire season then write the value of one katha divided by number of days labour was hired-		
	22	Daily wage paid to hired labor per day (in INR)- for male for \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final}		
	23	Daily wage paid to hired labor per day (in INR)-		

		for female for \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final}		
	Fertilizer, Pesticide, Weedicide Use			
	24	Which of these fertilizers did you use for \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final}?	1	Urea
			2	DAP
			3	Potash
			4	Complex Fertilizer (NPK)
			5	Other Chemical Fertilizer
			6	Total Amount on Other fertilizer (including micronutrients lie zinc, borax, sulphur etc)
			7	Pesticide
			8	Weedicide
			9	Organic Fertilizer- example Ganjeevamrith, Matka khad
			1 0	Organic Pesticide- Neemastra
			1 1	Cow Dung Manure
			9 8	None
	Begin Repeat for Fertilizer, Pesticide, Weedicide Use			
	25	[If 24 =1] Total Amount spent on Urea for \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final}		(in Rupees)
	26	[If 24 =2] Total Amount spent on DAP for \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final}		(in Rupees)

		27	[If 24 =3] Total Amount spent on Potash for \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final}	(in Rupees)
		28	[If 24 =4] Total Amount spent on Complex Fertilizer for \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final}	(in Rupees)
		29	[If 24 =5] Total Amount spent on Other Chemical Fertilizer for \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final}	(in Rupees)
		30	[If 24 =6] Total Amount spent on Other fertilizer (including micronutrients like zinc, borax, sulphur etc) for \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final}	(in Rupees)
		31	[If 24 =7] Total Amount spent on Pesticide for \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final}	(in Rupees)
		32	[If 24 =8]	(in Rupees)

			Total Amount spent on Weedicide for \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final}		
		33	[If 24 =9] Total Amount spent on Organic Fertilizer- example Ganjeevamrith, Matka khad for \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final}		(in Rupees)
		34	[If 24 =10] Total Amount spent on Organic Pesticide- Neemastra for \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final}		(in Rupees)
		35	[If 24 =11] Total Amount spent on cowdung for \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final}		
			Machine Use		
		36	Did you use machinery for land preparation, transplanting, sowing, spraying pesticide & weedicide, harvesting and threshing for \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final}	1	Yes
				2	No
		37	If yes, what is the Total fuel cost on \${cropname} in		

			6	did not sell the harvest due to low market rate
			7	no demand for this in market-so did not sell
			95	Other specify
	43	Total loss after harvest [KG] for \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final}		In Kg
	44	Reason for loss for \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final}	1	Drought
			2	Flood
			3	Other weather-related shock
			4	Pest/disease
			5	crop raid by animals
			6	did not sell the harvest due to low market rate
			7	no demand for this in market-so did not sell
			95	Other specify
	45	For which of the following purposes did you use \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final}	1	Home consumption (by people)
			2	Own livestock consumption (feed)
			3	Sold in exchange for cash
			4	Gave as gift
			5	Gave as labour cost
		Sale		
	46	How much did you sell for \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final}		In Kg

		47	At what price for \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final}		In Rs/Kg
		48	Who did you sell to (select main buyer) for \${cropname} in \${season_name} on your {total_mainland} \${land_unit_final}	1	sold in the village to another farmer
				2	Local market
				3	Middleman/Trader in the village
				4	Cooperative
				5	Sold in a bigger mandi/market outside the village
				6	Government procurement
				95	Other specify
			End repeat		

SECTION F: FARM MACHINERY, WELLS & PUMPS, AND WAGE RATES (TO BE ASKED TO PRIMARY AGRICULTURAL DECISION MAKER)

Now we will ask about farming Tools that you that you used on your farms in the last one year

1	Which of the following Farming tools did you use in last one year ? Read out question & options:		1	Machete (panga)
			2	Hand hoe
			3	Spade/shovel
			4	Pick ax
			5	Winnower
			6	Plough and yoke for animals
			7	Reaper/Sickle
			8	Manual sprayer
			9	Plough-tip
			10	Plough handle
			11	Rake
			12	Wheelbarrow
			13	Carts (hauling)
			14	Pitch fork (fork jembe)
			15	Planting stick (muro)
			16	Slasher
			17	Shears (for pruning)
			18	Hand pump
		98	None of above	
	Repeat for Farming tools			
	2	Do you own or rented $\${farm_tool}$?	1	Owned
			2	Rentend
			3	Borrowed
			4	Community
		If $\${farm_tool}$ rented, total rent paid in last one year		

	End repeat			
3	Which of the following mechanised Farming tools did you use in last one year ? Read out question & options:		1	Tractor
			2	Thresher
			3	Power tiller
			4	Power/Electric pump
			5	Diesel pump
			6	Deep tubewell
			7	Shallow tubewell
			8	Treadle pump
			9	Rotavator
			10	Hose pipe
			11	Engine operated or machanised Sprayer
			12	Husking machine
			13	Reaper
			14	Rice transplanter
			15	Cultivator
			16	Country boat
			17	Solar Pump
			18	Fishing net
			19	Storage house/Granary
			20	Combined harvester
			21	Laser guided land leveler
		98	None of above	
	Repeat mechanised Farming tools			
	4	Do you own or rented $\${farm_toolmech}$?	1	Owned
			2	Rentend
			3	Borrowed
			4	Community
	5	If $\${farm_toolmech}$ rented, total rent paid in last one year		

	6	If $\{\text{farm_toolmech}\}$ owned, total fuel cost in last one year		
	7	Did you have any maintaince cost for $\{\text{farm_toolmech}\}$	1	Yes
			2	No
	8	Cost of maintainance for $\{\text{farm_toolmech}\}$		

SECTION G: HOMESTEAD CROPPING PATTERNS (TO BE ASKED TO FEMALE RESPONDENTS ONLY)

Now we will ask questions related to your homestead land

1	What is the major land use type of this land	1	Crop production
		2	Rearing Livestock
		3	Grazing land/pasture land
		4	Kitchen garden
		5	Farm forestry
		95	Other (pls. specify)
2	What is the distance of this land from household? (in kms)		
3	What is the Soil type of this land?	1	Black soil
		2	Brown soil
		3	Grey soil
		4	Red soil
		5	Yellow soil
		6	Murram soil
		7	Sandy soil
		8	Clayey soil
		9	Loamy
		95	Others, specify
4	How would you describe the soil fertility of this land?	1	Highly fertile
		2	Moderately fertile
		3	Low fertility
		4	Infertile
5	How would you describe the slope of this land ?	1	Flat
		2	Slight Incline (up to 30 degree)
		3	Steep

6	How would you describe the soil erosion of this land?		1	No erosion
			2	Mild erosion
			3	Severe erosion
7	Do you have timber yielding crop or fruits trees in your homestead in past one year		1	Yes
			2	No
8	Select all the tree variety that you have on your homestead?		1	papaya
			2	tamarind
			3	guava
			4	sangwan
			5	eucalyptus
			6	mango
			95	others, specify
Repeat for tree variety				
	9	how many trees of \${name_homs_treevariety} are there on your homestead land		
	10	What did you do with the fruits of the trees/by products of the \${name_homs_treevariety}?	1	sold in the market for income
			2	given to friends,neighbours, other farmers
			3	consumed at household level
			95	others, specify
			98	Did nothing
	11	What is the income from this \${name_homs_treevariety} in past 12 months?		
End repeat				
12 [homs_seasons]	In which season did you cultivate the homestead land?		1	Rabi 2023-24
			2	Summer 2024 &
			3	Kharif 2024
			91	Did not cultivate this land in last one year
Begin Homsteaad Season Repeat				

Now we will ask question related to homs_season_cultivated on homstead land

13 [homs_crops]	Category of crop grown in homstead in \${homs_season}	1	Spinach
		2	Green bhaji
		3	Cabbage
		4	Radish
		5	Lal bhaji
		6	Onion
		7	Potato
		8	Okra
		9	Tomato
		10	Cucumber
		11	Beans
		12	Watermelon
		13	Mango
		14	Papaya
		15	Bel
		16	Bamboo
		17	Maize
		18	Kodu
		19	Kutki
		20	Pea
		21	Niger seeds
		22	Mustard
		23	Others 1 specify
		24	Others 2 specify
		25	Others 3 specify

End repeat Homsteaad Season Repeat

Homestead Crop Section

Now ask the ques for all the crops selected that are grown in the homstead land in this season				
Begin Repeat for Homstead Crop				
	14	Total Area dedicated to all $\{homs_crop\}$ in $\{homs_season_cultivat\}$		
	15	Source of water for all these crops in $\{homs_season_cultivat\}$ Select multiple	1	Public irrigation system/canals
			2	Tubewell/Borewell
			3	Hand-dug well
			4	Community reservoir
			5	Pumping/Using from river or nala
			6	Pump from pond/lake/well
			7	Roof water harvesting
			8	Surface/road runoff water harvesting
			9	rainfed
			10	water left from household use
	95	Others, specify		
	16	If irrigation, specify type	1	Flood
			2	Furrow
			3	Border
			4	Micro sprayer
			5	Surface Drip
			6	Center Pivot
			7	Trickle
			8	Sprinkle
			9	Individual (Hose, Bucket, Watering can)
			10	Drip Irrigation
	98	No irrigation		

			95	Other specify
17	Total estimated cost of irrigating for all these crops in $\{homs_season_cultivated\}$ (Cost of buying water + fuel+ other cost)			
Cost Of Production				
		Seed		
18	Source of Seed/plants for all these crops in $\{homs_season_cultivated\}$ Select Multiple	1	Agro-vets	
		2	Seed Company	
		3	Co-operatives	
		4	NARS- Government agency	
		5	Purchased from source	
		6	Subsidy	
		7	Free Seeds	
		8	Own Saving	
		9	Received from FES	
		10	Purchased from Other farmer	
		95	Other specify	
19	Kind of Seed for for all these crops in $\{homs_season_cultivated\}$	1	local/desi	
		2	Hybrid	
		3	improved/certified	
20	Total cost of no of seed/plants (Rs.) for all these crops in $\{homs_season_cultivated\}$		(in kg)	
Labour				
21	Own/family labor used (no. of person days) for male for $\{homs_season_cultivated\}$			
22	Own/family labor used (no. of person days) for			

			female \${homs_season_cultivated}		
		23	Hired Labor used (no. of person days)- for male \${homs_season_cultivated}		
		24	Hired Labor used (no. of person days)- for female \${homs_season_cultivated}		
		25	Exchange Labour used (no. of person days)- for male \${homs_season_cultivated}		
		26	Exchange Labour used (no. of person days)- for female \${homs_season_cultivated}		
		27	Did you pay labour in cash or kind for \${homs_season_cultivated}	1	cash
				2	kind
		28	Value of daily wage paid to hired labor per day for male for \${homs_season_cultivated} in INR Assess the paid labour value- for example if 1 katha of the crop is given as a labour cost for entire season then write the value of one katha divided by number of days labour was hired-		
		29	Value of daily wage paid to hired labor per day for female for \${homs_season_cultivated} in INR Assess the paid labour value- for example if 1 katha of the crop is given as a labour cost for entire season then write the value of one katha divided by number of days labour was hired-		

		30	Daily wage paid to hired labor per day (in INR)- for male for all homestead crops			
		31	Daily wage paid to hired labor per day (in INR)- for female for all homestead crops			
		Repeat for input use				
		32	Which of all these fertilizers did you use on all these crops in $\${homs_season_cultivated}$	1	Urea	
				2	DAP	
				3	Potash	
				4	Complex Fertilizer (NPK)	
				5	Other Chemical Fertilizer	
				6	Total Amount on Other fertilizer (including micronutrients like zinc, borax, sulphur etc)	
				7	Pesticide	
				8	Weedicide	
				9	Organic Fertilizer- example Ganjeevamrith, Matka khad	
				10	Organic Pesticide- Neemastra	
				11	Cow Dung Manure	
		98	None			
		Begin Repeat for E4.3.1				
		33	[If E4.3.1 =1] Total Amount spent on Urea for all these crops in $\${homs_season_cultivated}$		(in Rupees)	
		34	Total Amount spent on DAP for all these crops in $\${homs_season_cultivated}$		(in Rupees)	
		35	Total Amount spent on Potash for all these		(in Rupees)	

			crops in \${homs_season_cultivat ed}		
		36	Total Amount spent on Complex Fertilizer for all these crops in \${homs_season_cultivat ed}		(in Rupees)
		37	Total Amount spent on Other Chemical Fertilizer for all these crops in \${homs_season_cultivat ed}		(in Rupees)
		38	Total Amount spent on Other fertilizer (including micronutrients lie zinc, borax, sulphur etc) for all these crops in \${homs_season_cultivat ed}		(in Rupees)
		39	Total Amount spent on Pesticide for all these crops in \${homs_season_cultivat ed}		(in Rupees)
		40	Total Amount spent on Weedicide for all these crops in \${homs_season_cultivat ed}		(in Rupees)
		41	Total Amount spent on Organic Fertilizer- example Ganjeevamrith, Matka khad for all these crops in \${homs_season_cultivat ed}		(in Rupees)
		42	Total Amount spent on for all these crops in \${homs_season_cultivat ed}		(in Rupees)
		43	Total Amount spent on gobar khaad for all these crops in \${homs_season_cultivat ed}		(in Rupees)
			Machines Use		

	44	Did you use machinery for land preparation, transplanting, sowing, spraying pesticide & weedicide, harvesting and threshing on on all these crops in $\${homs_season_cultivated}$ crop?	1	Yes
			2	No
	45	If yes, what is the Total fuel cost on all these crops in $\${homs_season_cultivated}$?		In rupees
	46	If yes, what is the Total rental cost on all these crops in $\${homs_season_cultivated}$?		
	47	If yes, what is the Total maintenance cost on all these crops in $\${homs_season_cultivated}$?		
		Animal Use		
	48	Did you use animal draught/labour for this $\${homs_crop}$ in $\{homs_season\}$	1	Yes
			2	No
		Output/Production		
	49	Total output of all these crops in $\${homs_season_cultivated}$ [KG]		In kg
	50	Total Output used for home consumption		
		Pre and Post-Harvest Loss		
	51	Total loss before harvest for all these crops in $\${homs_season_cultivated}$ (in kg)		
	52	Reason for loss for all these crops in	1	Drought
2			Flood	

			<p>3 Other weather-related shock</p> <p>4 Pest/disease</p> <p>5 crop raid by animals</p> <p>6 did not sell the harvest due to low market rate</p> <p>7 no demand for this in market-so did not sell</p>
	53	Total loss after harvest [KG] for all these crops in $\$(homs_season_cultivat ed)$	In Kg
	54	Reason for loss for all these crops in $\$(homs_season_cultivat ed)$	<p>1 Drought</p> <p>2 Flood</p> <p>3 Other weather-related shock</p> <p>4 Pest/disease</p> <p>5 crop raid by animals</p> <p>6 did not sell the harvest due to low market rate</p> <p>7 no demand for this in market-so did not sell</p> <p>95 Other specify</p>
		Sale	
	55	How did you you the outputs of $\$(homs_season)$	<p>1 Home consumption (by people)</p> <p>2 Own livestock consumption (feed)</p> <p>3 Sold in exchange for cash</p> <p>4 Gave as gift</p> <p>5 Gave as labour cost</p>
	56	How much did you sell for all these crops in $\$(homs_season_cultivat ed)$	In Kg
	57	At what price for all these crops in	In Rs/Kg

			#{homs_season_cultivated}		
		58	Who did you sell to (select main buyer) all these crops in #{homs_season_cultivated}	1	sold in the village to another farmer
				2	Local market
				4	Middleman/Trader in the Village
				5	Cooperative
				6	Sold in a bigger mandi/market outside the village
				7	Government procurement
				95	Other specify
		End Repeat for Homestead Crop			

SECTION H: LIVESTOCK SECTION (TO BE ASKED TO FEMALE RESPONDENTS ONLY)

Now we will ask questions related to Livestock Production (For the past one year/12 months)

1	Does your household own Livestock, including Fish? (include community fish) in past 12 months?	1	Yes	
		2	No	
2	[If 1=1] Select all the type of livestock you owned (select multiple) in last one year?	1	Large milking ruminants (cow, buffalo)	
		2	Large non-milking ruminants (bull, oxen)	
		3	Small ruminants (E.g.-Sheep, goat)	
		4	Poultry	
		5	Fish (own pond)	
		95	Other, Specify	
	Repeat for every \${livestocktype}			
	Begin livestock repeat			
	3	Do you personally own \${livestocktype} in past one year ?	1	Yes
			2	No
	4	Type of \${livestocktype} owned in past one year	1	Indigenous
			2	Exogenous
			3	Hybrid
	5	Reasons for keeping \${livestocktype} owned in past one year	1	Meat production for sale
			2	Meat production for consumption
			3	Milk for sale
			4	Milk for consumption
			5	Dairy products like- ghee, curd, cheese etc for sale
			6	Dairy products like- ghee, curd, cheese etc for consumption
			7	Fibre production for sale
			8	Egg production for sale

			9	Egg production for consumption
			10	Honey production for sale
			11	Honey production for consumption
			12	Livestock breeding production
			13	Manure production
			14	Transportation
			15	For using on land
			16	Draft power(traction),
			17	Planned expenditure
			18	Savings
			19	Dowry payment
			20	Social status
			21	Hides/Skin
			22	Gobar/upla
			95	Other (please specify)
	6	Where did you obtain the seed for animal raised on the in the last 1 year \${livestocktype} owned in past one year	1	Market
			2	Self-produced/ saved from las year
			3	Exchanged with other farmers
			4	Received from FES
			5	Received from other institutions such as PACS, NGO etc.
			6	Received from government department
			7	Got from dowry/gift
			95	Other specify
	7	How much time per week does the family contribute to managing \${livestocktype} [Hours		

		Per week]		
	8	If hired labor is used, how much is paid per month? [INR Per month]		
	9	Estimated Total cost spent on \${livestocktype} per month? (including feed, healthcare, etc) [INR Per month]		
	10	How much income did \${livestocktype} generate from last 12 months (including milk, milk products, egg, meat wool etc.) [INR]		
Feed improvement techniques and management				
Now we will ask you about Feed improvement techniques and management for livestock in past 12 months				
11	In which month(s) do you experience shortages of feed for livestock?	1	Jan	
		2	Feb	
		3	March	
		4	April	
		5	May	
		6	June	
		7	July	
		8	August	
		9	Sept	
		10	October	
		11	November	
		12	December	
		98	Not faced any such problem	
12	To what extent does your livestock face any problem of injury, illness, or death in the last 1 year?	0	None	
		1	Low	
		2	Medium	
		3	High	
		99	Don't know	
13		1	Vaccination	

	Which measures did you adopt to manage disease/ illness for your livestock in the last 1 year?	2	Antibiotics
		3	Organic treatments
		4	Quarantine (keeping sick livestock alone/separate)
		5	Genetic selection for disease resistance
		6	Herbal remedies or traditional medicine
		7	went to doctor for treatment
		95	Other (please specify)
		94	Did nothing
		98	Don't know
14	What measures did you take to maintain the well-being of your livestock?	1	Provided food timely
		2	Provide diversified diets
		3	Provided clean drinking water timely
		4	Provided shelter
		5	Conducted regular checks for injuries/ diseases
		6	Provided hygienic surroundings
		7	Provided medical assistance when needed
		98	No action taken
		95	Other (please describe)
15	Have there been any changes in availability of feed sources compared to 10 years ago?	1	Yes increased
		2	Yes Decreased
		3	No changed
		98	Don't know
	Livestock products Market		
16		1	Yes

	Do you sell your livestock products in the market/shopping center?	2	No
17	What transport do you use to get to market? Choose the most used transport	1	Truck
		2	Bus
		3	Bicycle
		4	Walk
		5	Animal drawn cart
		6	Scooter/Motorcycle
		7	Car/Jeep
		8	Tractor
		9	Autorickshaw
		10	Shared Auto
		95	Other (please specify)
18	If yes, how far is it to the nearest market where you sell your livestock products? (Hours)		
19	From where do you access your inputs for livestock rearing?	1	Market Input vendor
		2	Own Field
		3	Taken from other farmers
		4	Local agro-vet stockiest
		5	Farmers coop society stores
		6	Major towns
		7	Ordinary local shops
		8	From FES/other NGO
		9	government source
		95	Other specify
20	If from the market, how far is it to the nearest market where you obtain your inputs? (Km)		
21	If from the market, how far is it to the nearest market where you obtain your inputs? (Hours)		
End livestock section			

SECTION I: USE OF COMMONS, FOREST LAND (TO BE ASKED TO FEMALE RESPONDENT ONLY)

Now we will ask questions regarding commons. Commons include forests, hillocks, pastures, water bodies or barren lands that formally belong to the state but are managed (with varying degrees of success) by the community. You might have used these commons to access forest products like timber, Mahua, Tendu leaves, Kodu, Kutki, Vegetable, fruits, mushroom, etc.

1	Do you use any common land?	1	Yes
		2	No
2	What type of common land do you use? (Select multiple)	1	Forest Land
		2	Fallow land that is owned by state- this could be hillocks, upland.
		3	Upland that is privately owned by someone but commonly used.
		4	Common water bodies
		95	Other specify
3	Is there any mechanism or Groups in the village to maintain these commons?	1	Yes
		2	No
		99	Don't know
4	If 3=1, then are you part of such Groups?	1	Yes
		2	No
5	If 4=2 then, why are you not part of these groups? Note: Let the respondent answer this question, in case the respondent is not able to answer then read the options.	1	Time-constraints- I do not have enough time to participate in such Groups.
		2	Poor past experience- I have been part of such Groups in the past, they did not Give positive result.
		3	I don't think it is useful.
		4	Heard bad reviews from others
		5	Family members/spouse don't allow me join
		6	Don't know how to join
		7	Meeting place is too far from home
		95	Others, Specify
6	If 4=1 then, what is the type of such Group/mechanism? (Select multiple)	1	FES led Groups such as Mahila Sabha, Samiti, Federation
		2	Other informal Groups

		3	NMRC
		4	Other formal Groups
		95	Others, specify
7	What all are the main activities of these Groups?	1	Remove Lantana
		2	Measures to prevent soil erosion (bunds)
		3	Carry out water conservation measures (check dams, Gabions, ponds etc)
		4	Restoration of vegetation (seed ball dispersal, tree planting activities, assisted natural regeneration)
		5	Awareness sessions/campaigns on conservation of commons
		6	Establish rules on usage of NTFPs
		7	Collaborate with formal institutions such as forest departments, village panchayat for collective management of commons
		8	Establish rules on grazing
		9	Establish vegetable larden for landless
		10	Bio-char preparation and application
		11	Stone bunding
		12	Water conservation efforts- Stone Gully Plug,
		13	Contour Trenches
		14	Seed ball preparation and dispersal
		15	Tree planting activities
		16	Planting of tubers for wild boars
		17	Bamboo planting
		18	Fish cultivation

		19	Water chestnuts
		95	Others, specify
		98	Don't know
8	If 3=1 then, what are the activities done so far on the common lands in your village?	1	Remove Lantana
		2	Measures to prevent soil erosion (bunds)
		3	Carry out water conservation measures (check dams, Gabions, ponds etc)
		4	Restoration of vegetation (seed ball dispersal, tree planting activities, assisted natural regeneration)
		5	Awareness sessions/campaigns on conservation of commons
		6	Establish rules on usage of NTFPs
		7	Collaborate with formal institutions such as forest departments, village panchayat for collective management of commons
		8	Establish rules on grazing
		9	Establish vegetable larden for landless
		10	Bio-char preparation and application
		11	Stone bunding
		12	Water conservation efforts- Stone Gully Plug,
		13	Contour Trenches
		14	Seed ball preparation and dispersal
		15	Tree planting activities
		16	Planting of tubers for wild boars
		17	Bamboo planting

		18	Fish cultivation
		19	Water chestnuts
		95	Others, specify
		98	Don't know
9	Do you think you were able to materialise the benefits of the activities done on common land?	1	Yes
		2	No
		3	Don't know
10	If 9=1 then, select all the benefits derived from increased direct access to commons now:	1	Access to timber/ firewood increased
		2	Access to Tendu leaves
		3	Access to Mahua flowers, seeds
		4	Access to leaves that are used to make leaf bowl like Butea leaves, palash leaves,sal
		5	Access to vegetables such as Chakoda
		6	Access to fruits such as harra, baheda, Manihar, karonda, tendu, seetaphal
		7	Access to honey
		8	Harvest kodu/ kutki
		9	Used Lantana to make biochar
		10	Used as grazing Land
		11	Used for fishing
		12	Used for growing water chestnut
		13	Used to collect leaves for mulching
		14	chaar/chiraunji (Almondette tree)
		15	local mushroom- pihri
		951	Others 1, specify

		952	Others 2, specify
		953	Others 3, specify
11	If 9=1, then, select all the benefits experienced on your cropland from activities done on common land:	1	Water availability extended by longer than usual
		2	Increased moisture retention in soil- (the soil looks moister now)
		3	Bees increased and improved pollination
		4	Visit by birds increased (pest controlled)
		5	Biochar was used in farms lands, thus improved soil quality
		6	Mulch from commons improved soil water retention
		7	Planting tubers reduced crop damage by boar
		8	Reduced crop raids by wild animals
		9	Reduced soil erosion
		10	Able to Grow and harvest crops due to increased soil layer
		95	Others, specify
		99	None of the above type of benefits derived
12	Have the interventions carried out in the commons brought about any visible changes in the landscape?	1	Yes
		2	No
		98	Don't know
13	If 12=1 then, Select all the visible changes brought in the commons in the landscape?	1	Water availability improved
		2	Regeneration of useful plants/trees increased
		3	Bird diversity increased
		4	Increased Greenery
		95	Others, specify
Now, I will ask General questions on land degradation of commons, forest land.			
14	Do you think there is land degradation in your village in common land or forest land?	1	Yes
		2	No
15	If 16=1, According to you, what are the major reasons for land degradation in your village?	1	Loss of Vegetative cover
		2	Landscape disturbances
		3	Un-scientific land use

		4	Socio-economic
		95	Others, specify
16	If 17=1, According to you, what are the drivers for loss of vegetation cover in your village?	1	Forest and Grass fires
		2	Overgrazing
		3	Deforestation
		4	Invasive species
		95	Others, specify
17	If 17=2, According to you, what are the major landscape disturbances in your village?	1	Soil erosion
		2	Wind Erosion
		3	Landslides
		4	Mining and road construction
		5	Livestock and vehicle trails
		6	Urban Growth and industrialization
		95	Others, specify
18	If 17=3, According to you, which of the following issues have you observed in your village in agriculture?	1	Low & Imbalanced fertilization
		2	Excessive tillage
		3	Burning of crop residue
		4	Poor crop rotation
		5	Heavy metal pollution
		95	Others, specify
19	If 17=4, What are the major land related issues in your village impacting farming, land use, ecology?	1	Land shortage
		2	Land fragmentation
		3	lack of capital
		4	Tenurial issues
		95	Others, specify

SECTION J: ENERGY USE FOR HH AND FARM (TO BE ASKED TO FEMALE RESPONDENTS)

Energy Sources Used

Energy Sources for HH And Farm [ask to females only]

Now I'd like to ask you about sources of energy used in your household and your farm in past 12 months

1 Energysorc_cooking	What are the main sources of energy used in your household for cooking. Mention up to 2 main sources of energy for cooking in your home.	1	LPG
		2	Electricity
		3	Firewood and Crop Residue
		4	Dung Cakes
		5	Coal, Charcoal, coke
		6	Biogas/Gobar Gas
		7	Solar
		8	Diesel/kerosene generators
		9	Batteries/ Inventors
		10	Paraffin/Wax
		95	Other (specify)
		98	NA
	Begin group for Energysorc_cooking1		
2	How is this \${Energysorc_cooking1} source procured?	1	Only Purchase
		2	Only Home-grown stock
		3	Both Purchase and home-grown
		4	Only free collection
		5	From Neighbour
		95	Other specify
3	Time (in minutes) spent per day collecting fuel for \${Energysorc_cooking1}		
	[If SOURCE 1 or 2 =3,4]		

4	If purchase, expenditure in last 30 days for \${Energysorc_cooking1} [If SOURCE 1 or 2 =1,2,5,6,7,8,9,10]		In NPR
5	Who is responsible for procurement for \${Energysorc_cooking1}?	1	Self
		2	Spouse
		3	Other HH member
		4	Other non-HH member
		98	Not applicable
End group for Energysorc_cooking			
6	What are the main sources of energy used in your household for lighting/heating. Mention up to 2 main sources of energy for lighting/heating in your home.	00	LPG
		01	Kerosene
		02	Electricity
		03	Firewood and Crop residue
		04	Dung Cakes
		05	Coal, charcoal, coke
		06	Biogas/Gobar gas
		07	Solar
		08	Diesel/kerosene generators
		09	Batteries/Inverters
		10	Paraffin/Wax
		95	Other (specify)
98	NA		
Begin Group for Energysorc_cooking2 [IF Energysorc_cooking2 = 94, then this section would not appear]			
7	How is this \${Energysorc_cooking2} source procured?	1	Only Purchase
		2	Only Home-grown stock
		3	Both Purchase and home-grown
		4	Only free collection
		5	From Neighbour

		95	Other specify
8	Time (in minutes) spent per day collecting fuel for \${Energysorc_cooking2}? [If SOURCE 1 or 2 =3,4]		
9	If purchase, expenditure in last 30 days for \${Energysorc_cooking2}? [If SOURCE 1 or 2 =1,2,5,6,7,8,9,10]		In NPR
10	Who is responsible for procurement for \${Energysorc_cooking2}?	1	Self
		2	Spouse
		3	Other HH member
		4	Other non-HH member
		98	Not applicable
	Begin Group for Energysorc_cooking2		
11	Nearest source of Energy fuel		
12	Nearest source of Energy fuel	00	LPG
		01	Kerosene
		02	Electricity
		03	Firewood and Crop residue
		04	Dung Cakes
		05	Coal, charcoal, coke
		06	Biogas/Gobar gas
		07	Solar
		08	Diesel/kerosene generators
		09	Batteries/Inverters
		10	Paraffin/Wax
		95	Other (specify)
		98	NA
13	Where is the nearest source of LPG [e.g. LPG dealership]		
14	Nearest distance of LPG (kms)		

15	Where is the nearest source of Kerosene [e.g. PDS shop]		
16	Nearest distance of Kerosene (kms)		
17	Where is the nearest source of Solid Fuel (such as firewood) [e.g. common village land for firewood]		
18	Nearest distance of Solid Fuel (such as firewood)		
19	Where is the nearest source of Dung Cakes		
20	Nearest distance of Dung Cakes (kms) [If hh's own dung cakes, avg distance of farms from hh]		
21	Where is the nearest source of Coal, charcoal, coke		
22	Nearest distance of Coal, charcoal, coke (kms)		
23	Where is the nearest source of Biogas/Gobar gas		
24	Nearest distance of Biogas/Gobar gas (kms)		
Electricity Access			
25	Does the house have electricity connection	1	Yes
		2	No
26	[If 25=2] Why did you not get electricity connection?	00	Credit Constraint
		01	Money Constraint
		02	Do not need an electricity
		3	Do not have an access to electricity at that particular area.
		4	No water source nearby
		95	Other (specify)
27	[If 25=1] Which Month/Year did you get electricity connection		
28	[If 25=1] Type of Electricity connection	1	Metered
		2	Flat
		3	free/illegal connection
29	[If 25=1]		In Rupees

	Cost incurred on setting up electricity connection (Rs) “-98” if don’t know			
30	[If 25=1] How much was your electricity bill over the past 1 month		In Rupees	
31	Does the farm have electricity connection	1	Yes	
		2	No	
32	[If 31=2] Why did you not get electricity connection? (Use code)	00	Credit Constraint	
		01	Money Constraint	
		02	Do not need an electricity	
		3	Do not have an access to electricity at that particular area.	
		4	No water source nearby	
		95	Other (specify)	
33	[If 31=1] Do you receive electricity bill separately for irrigation	1	Yes	
		2	No	
34	[If 31=1] How many hours of electricity do you get in a day	1	24 hours	
		2	Between 20-24 hours	
		3	Between 15-20 hours	
		4	less than 15 hours	
35	[If 34=2/3/4] If less than 24 hours, does access vary by season	1	Yes	
		2	No	
36	If yes, which season had better access in 2021-2022	1	Summer	
		2	Winter	
		3	Rainy	
	Energy insecurity experiences scale			
	Now we will ask you about energy insecurity that you might have faced in past one month.			
37	In the last month, how often do you worry you would not have reliable energy for all of your household needs?	1	2	3

		Never	Sometimes	Always
38	In the last month, how often do you or anyone in your household have to change your cooking schedule or plans due to energy unavailability? e.g., switch to less nutritious dish, undercook food, eat food that is not fresh,			
39	In the last month, how often you or your family member were sick with major and minor respiratory disease, eyesight/infection due to unavailability of improved energy sources?			
40	In the last month, how many times were your domestic activities disturbed due to issues with energy unavailability? e.g., kids study program, cooking			
41	During the last irrigation season, how often did you experience interruptions in agricultural activities due to lack of energy sources such as diesel, gasoline, solar power, electricity?			
42	In the last month, how often have you experienced interruptions to non-agricultural income-generating activities due to non-availability of energy sources such as diesel, petrol, solar, electricity?			
43	In the last month, how frequently did you or anyone in your household feel frustrated/angry about your energy access situation?			
44	In the last month, how frequently have you or anyone in your household gone to sleep without lighting because there wasn't any energy source available			
45	In the last month, how frequently have you or anyone in your household gone to sleep without eating dinner because there wasn't any energy source available			

SECTION K: SHOCKS AND ADAPTATION (TO BE ASKED TO PRIMARY AGRICULTURAL DECISION MAKER)

1 shocksfaced	In the last 5 years, what were the most severe shocks faced by the household. (read options) Explanation: Shock means an unexpected or unpredictable event not in control of the household, which caused a disturbance to the normal functioning of the household, either in a good way or bad way.	1	Drought
		2	Flood
		3	Erratic rainfall pattern
		4	Hailstorm
		5	Fire outbreak
		6	Landslide
		7	Windstorm
		8	khraa/pala in winters
		95	Other, specify
		98	My household did not face major climatic shocks
	Repeat for shocks faced		
2	When was the last time you experienced this \${shocksfaced} shock (year in last 5 years)	1	Current year
		2	One year ago,
		3	Two years ago,
		4	Three years ago,
		5	Four years ago,
		6	Five years ago,
3	What did this \${shocksfaced} shock result in?	1	Loss of assets
		2	Loss of income,
		3	Decline in crop yield
		4	Loss of entire crop
		5	Loss of life
		6	Death of livestock
		7	Food shortage/insecurity
		8	Food price increase
		95	Other, specify

4	What did you do for this \${shocksfaced}? - Action? Select multiple	1	Did nothing
		2	Sold livestock
		3	Sold crops
		4	Sold land/home
		5	Sold assets
		6	Borrowed from relatives or friends
		7	Borrowed from bank/cooperative/ MFI etc.
		8	Borrowed from private money lenders
		9	Received food aid
		10	Participated in food for work.
		11	HH head migrated to other rural area
		12	HH plus others migrated to rural area
		13	Migrated to urban area
		14	Sought off-farm employment
		15	Bought food
		16	Ate less
		17	Ate different foods
		18	Kept children home from school
		95	Other specify
5	How widespread was the shock this \${shocksfaced}?	1	only my household
		2	some households in village
		3	most households in the village
		4	all households in the village
		5	many households in the district
		6	all households in the district
	End repeat		
6	During the last large drought, did you change your farming practice (crop and livestock)?	1	Yes
		2	No
7	IF K1.6=1,	1	Change crop variety

What did you do?	2	Change crop type
	3	Change planting dates
	4	Increase amount of land under production
	5	Reduce amount of land under production
	6	Change field location
	7	Implement soil and water management techniques
	8	Change fertilizer application
	9	Build a water harvesting scheme
	10	Build a diversion ditch
	11	Plant trees for shading
	12	Irrigate more
	13	Buy insurance
	14	Mix crop and livestock production
	15	Change from crop to livestock production
	16	Change from livestock to crop production
	17	Change pattern of crop consumption
	18	Change pattern of animal consumption
	19	Increase the number of livestock
	20	Decrease the number of livestock (de-stocking)
	21	Diversify livestock feeds
	22	Change livestock feeds
	23	Supplement livestock feeds
	24	Change veterinary interventions
	25	Change portfolio of animal species
	26	Change animal breeds
	27	Move animals to another site
	28	Seek off farm employment
	29	Migrate to another piece of land
	30	Set up communal seed banks/food storage facilities
	95	Other (specify)

8	During the last time you experienced too much rain/flood, did you change your farming practice (crop and livestock)?	1	Yes
		2	No
9	What did you do? (key)	1	Change crop variety
		2	Change crop type
		3	Change planting dates
		4	Increase amount of land under production
		5	Reduce amount of land under production
		6	Change field location
		7	Implement soil and water management techniques
		8	Change fertilizer application
		9	Build a water harvesting scheme
		10	Build a diversion ditch
		11	Plant trees for shading
		12	Irrigate more
		13	Buy insurance
		14	Mix crop and livestock production
		15	Change from crop to livestock production
		16	Change from livestock to crop production
		17	Change pattern of crop consumption
		18	Change pattern of animal consumption
		19	Increase the number of livestock
		20	Decrease the number of livestock (de-stocking)
		21	Diversify livestock feeds
		22	Change livestock feeds
		23	Supplement livestock feeds
		24	Change veterinary interventions
		25	Change portfolio of animal species
		26	Change animal breeds
		27	Move animals to another site

		28	Seek off farm employment
		29	Migrate to another piece of land
		30	Set up communal seed banks/food storage facilities
		95	Other (specify)
10	If you did not change your farming practices in response to drought or too much rain, why?	1	No access to money
		2	No access to credit
		3	No access to land
		4	No inputs
		5	Shortage of labor
		6	No information on climate change and appropriate adaptations
		95	Other (specify)
11	Have any other shocks affected your household during the last 5 years? (Has this household been affected by a serious shock—an event that led to a serious reduction in your asset holdings, caused your household income to fall substantially or resulted in a significant reduction in consumption?)	1	Yes
		2	No
12	Type of shock Select Two	1	Pests in crops before harvest
		2	Diseases in crops before harvest
		3	Unusually high severity of weeds
		4	Labor shortage
		5	Crop loss during storage
		6	Animal disease
		7	Large increase in input prices
		8	large decline in output prices
		9	Inability to sell agricultural

			products
		10	Inability to sell nonagricultural products
		11	Expropriation of land by government
		12	Ethnic violence
		13	Forced migration/relocation
		14	Discrimination for political reasons
		15	Forced contributions
		16	Arbitrary taxation
		17	Discrimination for social reasons
		18	Theft of crops
		19	Theft of livestock
		20	Destruction or theft of tools or inputs for production
		21	Loss of job by family member
		22	Death of family member
		23	Illness of family member
		24	Separation of family member[s]
		25	Dispute with extended family
		26	Dispute with others in village
		27	Imprisonment
		95	Other [specify]
	Repeat for othershocks faced		
13	When was the shock this \${Othershocks} occur year in last 5 years	1	Current year
		2	One year ago,
		3	Two years ago,
		4	Three years ago,

		5	Four years ago,
		6	Five years ago,
14	What did this \${Othershocks} shock result in?	1	Loss of assets
		2	Loss of income,
		3	Decline in crop yield
		4	Loss of entire crop
		5	Loss of life
		6	Death of livestock
		7	Food shortage/insecurity
		8	Food price increase
		95	Other, specify
15	What did you do for \${Othershocks}? Action? Select multiple	1	Did nothing
		2	Sold livestock
		3	Sold crops
		4	Sold land/home
		5	Sold assests
		6	Borrowed from relatives or friends
		7	Borrowed from bank/Cooperative/ MFI etc.
		8	Borrowed from private money lenders
		9	Received food aid
		10	Participated in food for work
		11	HH head migrated to other rural area
		12	HH plus others migrated to rural area
		13	Migrated to urban area
		14	Sought off-farm employment
		15	Bought food

		16	Ate less
		17	Ate different foods
		18	Kept children home from school
		95	Other please specify
16	How widespread was this shock? Select One	1	only my household
		2	some households in the village
		3	most households in the village
		4	all households in the village
		5	many households in the district
		6	all households in the district
	End Repeat		
Climate Change Perception			
17	How do you generally decide to plant your crops	1	Based on calendar
		2	I plant when it rains
		3	Based on plant/animal indicators
		4	Based on local indigenous knowledge
		5	Based on wind indicators
		6	Based on government information
		7	Based on information from friends
		95	Other Specify
18	Have you noticed any long-term changes in the average temperature over the last 20 years? (If too difficult: Have you noticed a change in the number of hot days over the last 20 years?)	1	Increased
		2	Decreased
		3	Stayed the same
		98	Don't know
19	Have you noticed any long-term changes in the average rainfall over the last 20 years? (If too difficult: Have you noticed a change in the number of rainfall days over the last 20 years?)	1	Increased
		2	Decreased
		3	Stayed the same
		98	Don't know

20	<p>What changes have you noticed? (Check all that apply) Select Multiple</p>	1 2 3 4 5 6 7 95	Rains have become more erratic Rains come earlier Rains come later Rains are heavier Longer periods of drought More floods Shift in rainy seasons Others, specify
Adaptation strategies			
21	<p>What measures would you have or would like to implement to adapt to changing climate variables (e.g. variable rainfall pattern and amount, longer droughts, hot temperatures)?</p>	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	No change/none Change crop variety Change crop type Change planting dates Increase amount of land under production Reduce amount of land under production Change field location Implement soil and water management techniques Change fertilizer application Build a water harvesting scheme Build a diversion ditch Plant trees for shading Irrigated Irrigate more Buy insurance Migrate to other piece of land Mix crop and livestock production Change from crop to livestock production Change from livestock to crop production

		20	Change pattern of crop consumption
		21	Change pattern of animal consumption
		22	Increase the number of livestock
		23	Decrease the number of livestock (de-stocking)
		24	Diversify livestock feeds
		25	Change livestock feeds
		26	Supplement livestock feeds
		27	Change veterinary interventions
		28	Change portfolio of animal species
		29	Change animal breeds
		30	Move animals to another site
		31	Seek off farm employment
		32	Set up communal seed banks/food storage facilities
		95	Others, Specify
22	What are the main constraints/difficulties in implementing these measures	1	No money
		2	No access to credit
		3	No access to land
		4	No access to inputs
		5	No water
		6	Shortage of labor
		7	No market
		8	No information on climate change and appropriate adaptations
		95	Other, specify
23	Have you seen any changes in the number of malaria cases over the last 20 years?	1	Increased
		2	Decreased
		3	Stayed the same
		98	Don't know
24	Has the incidence of livestock disease from ticks changed over the last 20 years?	1	Increased
		2	Decreased

		3	Stayed the same
		98	Don't know
25	Are you aware that agricultural practices contribute to climate change?	1	Yes
		2	No
26	As a result of temperature changes or extreme weather events, have you/anyone in your household ever experienced any of the following consequences	1	Injury
		2	Illness
		3	Destroyed home
		4	Destroyed water sources
		5	Power Outage
		6	Loss of income
		95	Other specify
		98	Did not experience any of the above

SECTION L: FOOD SECURITY (TO BE ASKED FROM ALL THE RESPONDENTS)

Food Insecurity Experience Scale (FIES)			
READ: Now I would like to ask you some questions about food			
1	During the last two weeks, was there a time when you were worried about not having enough food to eat because of lack of money or other resources?	1	No
		2	Yes
		3	Don't know
		96	Refused
2	[If 1=2] Was it specifically linked to rising food and fuel prices?	1	No
		2	Yes
		3	Don't know
		96	Refused
3	[1=2] During the last two weeks, was there a time when you were unable to eat healthy and nutritious food (for example pulses, beans, meat, dairy, fruits, etc.) because of lack of money or other resources?	1	No
		2	Yes
		3	Don't know
		96	Refused
4	During the last two weeks, was there a time when you ate only a few kinds of foods because of lack of money or other resources?	1	No
		2	Yes
		3	Don't know
		96	Refused
5	During the last two weeks, was there a time when you had to skip a meal because of lack of money or other resources to get food?	1	No
		2	Yes
		3	Don't know
		96	Refused
6	During the last two weeks, was there a time when you ate less than you thought you should because of lack of money or other resources?	1	No
		2	Yes
		3	Don't know
		96	Refused

7	During last two weeks, was there a time when you ran out of food because of lack of money or other resources?	1	No
		2	Yes
		3	Don't know
		96	Refused
8	During the last two weeks, was there a time when you were hungry but did not eat because there was not enough money or other resources for food?	1	No
		2	Yes
		3	Don't know
		96	Refused
9	During the last two weeks, was there a time when you went without eating for a whole day because of lack of money or other resources?	1	No
		2	Yes
		3	Don't know
		96	Refused

Section M: Dietary diversity and Diet Quality-DQQ-9

	<p>Read: Now I'd like to ask you some yes-or-no questions about foods and drinks that you consumed yesterday during the day or night, whether you had it at home or somewhere else.</p> <p>First, I would like you to think about yesterday, from the time you woke up through the night. Think to yourself about the first thing you ate or drank after you woke up in the morning ... Think about where you were when you had any food or drink in the middle of the day ... Think about where you were when you had any evening meal ... and any food or drink you may have had in the evening or late-night... and any other snacks or drinks you may have had between meals throughout the day or night.</p> <p>I am interested in whether you had the food items I will mention even if they were combined with other foods.</p> <p>Please listen to the list of foods and drinks, and if you ate or drank ANY ONE OF THEM, say yes.</p>		
1	Yesterday, did you eat any of the following foods:	1	2
1a	Rice, paratha, naan, roti,	Yes	no
1b	Roti, whole grain bread, maize, millet, Kodu, kutki barley, sorghum, buckwheat?		
1c	Potato, yam, wild yam, or white sweet potato?		
1d	Daal, chickpeas, beans, soybeans, or quanti?		
2	Yesterday, did you eat any of the following vegetables:	1	2
2a	Carrots or ripe yellow pumpkin?	Yes	No
2b	Dark green leafy vegetables: Spinach, fenugreek, chakoda, laal bhaji Saag, mustard greens, fennel greens, pumpkin shoots, taro leaves, or amaranth greens?		
2c	Tomatoes, cauliflower, cabbage, gourd, or eggplant?		
2d	Bitter gourd, bottle gourd, green pumpkin, lady finger, or radish?		
3	Yesterday, did you eat any of the following fruits:	1	2
3a	Papaya, ripe mango, apricots?	Yes	No
3b	Orange, Karaunda pomelo, grapefruit, or kumquat?		

3c	Apple, banana, avocado, watermelon, mulberries, amla, or guava?		
3d	Grapes, raisins, peaches, plums, pomegranate, Asian pear, or jackfruit?		
4	Yesterday, did you eat any of the following sweets:	1	2
4a	Cakes, biscuits, cookies, donuts, haluwa, jeri or jalebi?	Yes	No
4b	Mithai, kheer, chocolates, candies, toffees, or ice cream?		
5	Yesterday, did you eat any of the following foods of animal origin:	1	2
5a	Eggs?	Yes	No
5b	Paneer or cheese?		
5c	Dahi, butter milk, or lassi?		
5d	Sausages, ham, bacon, or canned meat?		
5e	Goat, mountain goat, lamb or sheep, buffalo, or yak?		
5f	Chicken, duck, or pigeon?		
5g	Fish or dried fish.		
6	Yesterday, did you eat any of the following other foods:	1	2
6a	Almonds, peanuts, cashews, pistachios, or walnuts?	Yes	No
6b	Chips, Kurkure, Dalmoth, or Bhujija?		
6c	Maggi?		
6d	24 Samosa, pakora, sel roti, puri, or tareko khaja?		
7	Yesterday, did you have any of the following beverages:	1	2
7a	Milk, tea with milk, or powdered milk.	Yes	No
7b	Chai with sugar, coffee with sugar, milk with sugar, Horlicks or Bournvita?		
7c	Fruit juice, fruit drinks such as Real or Frooti, or sugar cane juice?		
7d	Sweet bottled drinks such as Coke, Fanta, or Sprite, or energy drinks such as Red Bull?		

7e	Sugar-sweetened beverages (soft drinks, energy drinks, sports drinks): Cola, energy drinks		
8	Yesterday, did you get food from any place like...	1	2
8a	KFC, Pizza Hut, or other places that serve pizza or burgers?	Yes	No

SECTION N: OPTIMISED PRO-WEAI (TO BE ASKED TO ALL RESPONDENTS)

<p>The Optimised Pro-WEAI includes six modules- In this section, I will ask you about your input in productive decisions, control over use of income, ownership of assets, access to and decisions on credit, workload (time allocation), and group membership.</p>			
<p>WEAI- Module 1 Role in Household Decision Making Around Production And Income</p>			
<p>Now I'd like to ask you some questions about your participation in certain types of work activities and on making decisions on various aspects of household life.</p>			
<p>1 activities</p>	<p>Did you yourself participate in Activity in the past 12 months (that is, during the last [one/two] cropping seasons), from December last year to December this year?</p>	1	Horticultural (gardens) or high value crop farming and processing of the harvest
		2	Large livestock raising (cattle, buffaloes) and processing of milk and/or meat
		3	Small livestock raising (sheep, goats, pigs) and processing of milk and/or meat
		4	Poultry and other small animals raising (chickens, ducks, turkeys) and processing of eggs and/or meat
		5	Non-farm economic activities (running a small business, self-employment, buy-and-sell)
		6	Wage and salary employment (work that is paid for in cash or in-kind, including both agriculture and other wage work)
		7	Staple grain farming and processing of the harvest: grains that are grown primarily for food consumption (rice, maize, wheat, millet)
		8	Fishpond culture
		<p>Begin repeat.</p> <p>(calculate- name_activity - jr:choice-name(selected-at({activities},index()-1),'{activities}')</p>	
		<p>Begin group</p>	

		ROLE IN HOUSEHOLD DECISION MAKING AROUND PRODUCTION AND INCOME > Activity work (1)		
		Note: Now we will ask questions about decision making that you take on various aspects of household life.		
	2	Did you participate in *[h1_name]* in the past 12 months (that is, during the last [one/two] cropping seasons), from December last year (2023) to December this year (2024)?	1	Yes
			2	No
	3	When decisions are made regarding *[h1_name]*, who is it that normally takes the decision??	1	Self
			2	Spouse
			3	Other HH Member
			4	Other Non-HH Member
			9 8	Not Applicable
	4	How much input did you have in making decisions about *[h1_name]*?	1	No Input Or Input In Few Decisions
			2	Input Into Some Decisions
			3	Input Into Most Or All Decisions
			9 8	No Decision Made
	5	How much input did you have in decisions about how to use income generated from *[h1_name]*?	1	No Input Or Input In Few Decisions
			2	Input Into Some Decisions
			3	Input Into Most Or All Decisions
			9 8	No Decision Made
		End group		
		End repeat		
N2	WEAI Module 2: Access to Productive Capital			
	Now I'd like to ask you about your household's access to and ownership of a number of items that could be used to generate income.			
		Now I'd like to ask you specifically about your household's land.		
	6		1	Yes

		Does anyone in your household currently own or cultivate land?	2	No
	7	Do you own any of the land owned or cultivated by your household?	1	Yes, solely
			2	Yes, jointly
			3	Yes, solely, and jointly
			4	No
	Now I'd Like to ask you about a number of items that could be used to generate income.			
8 asset	Does anyone in your household following item? Select all that apply		1	Large livestock (cattle, buffaloes)
			2	Small livestock (sheep, goats, pigs)
			3	Mechanized/" energized" farm equipment—for sowing, planting, harvesting and land preparation: tractor-plough, power tiller, treadle pump, laser land leveller etc
			4	Mechanized/" energized" farm equipment for post-harvest: Cold storage, driers, milling machine
			5	Mechanized irrigation technology: Diesel or solar pump
			6	Non-farm business equipment: Cookstoves, motorized sewing machine, brewing equipment, fryers, solar panels used for recharging
			7	Refrigerator
			8	TV
			9	Cookstove
			10	Traditional Cell phone
			11	Smart phone (that would allow use of mobile internet)
			12	Computer, laptop, or iPad
			13	Means of transportation (bicycle, motorcycle, car)
	14	Nothing		
	Begin repeat			
	(calculate- name_asset - jr:choice-name(selected-at({asset},index()-1),'{asset}')			

	Begin group		
	Note: Now we will ask questions about assets owned by your household		
9	Does anyone in your household currently have (own or use) any <u>[h2_name]</u> ?	1	Yes
		2	No
10	Do you have unrestricted access to use of this <u>[h2_name]</u> (even if your household does not own it)?	1	Yes
		2	No
11	Do you personally own any <u>*[h2_name]*</u> ?	1	Yes, solely
		2	Yes, jointly
		3	Yes, solely, and jointly
		4	No
12	When decisions are made regarding whether and how much of <u>[h2_name]</u> to purchase or use, who is it that normally takes the decision?	1	Self
		2	Spouse
		3	Other HH Member
		4	Other Non-HH Member
		9 8	Not Applicable
13	To what extent do you feel you can make your own personal decisions regarding purchase or use of <u>[h2_name]</u> if you want(ed) to?	1	Not at all
		2	Small Extent
		3	Medium Extent
		4	To a high extent
		9 8	Not Applicable
14	When you need <u>[h2_name]</u> , who usually purchases/acquires it?	1	Self
		2	Spouse
		3	Other HH Member
		4	Other Non-HH Member
		9 8	Not Applicable
	END group		
	End Repeat		

N3	WEAI Module 3: Access to Financial Services		
	Next, I'd like to ask about your household's experience with borrowing money or other items (in-kind) in the past 12 months.		
15 creditsource	Would you or anyone in your household be able to take a loan or borrow cash/in-kind from source if you wanted to?	1	Non-governmental organization (NGO)
		2	Formal lender (banks/development banks/finance companies)
		3	Informal lender
		4	Friends or relatives
		5	Micro-finance and/or cooperatives SHG/MFI
		6	Informal credit / savings groups (. e.g., mother's group, women's group, youth club, etc.)
<p>Begin repeat</p> <p>(calculate- name_ creditsource - jr:choice-name(selected-at({creditsource},index()-1),'{creditsource}')</p>			
Begin group			
Note: Now we well ask questions about decision-making about credit			
16	Would you or anyone in your household be able to take a loan or borrow cash/in-kind from \${name_ creditsource} if you wanted to?	1	yes
		2	no
		3	maybe
17	<p>Has anyone in your household taken any loans or borrowed cash/in-kind from \${name_ creditsource} in the past 12 months?</p> <p>Select multiple</p>	1	Yes, cash
		2	Yes, in-kind
		3	Yes, cash and in-kind
		4	No
		9 8	Don't know
18	<p>Who makes the decision about what to do with the money or item borrowed from \${name_ creditsource} most of the time?</p> <p>Select all that apply</p>	1	Self
		2	Spouse
		3	Other HH Member
		4	Other Non-HH Member
		9 8	Not Applicable

		End group		
		End repeat		
	19	An account can be used to save money, to make or receive payments, or to receive wages or financial help. Do you, either by yourself or jointly with someone else, currently have an account at any of the following places: banks or other formal institution (e.g., post office)?	1	Yes
			2	No
			9 8	Don't know
N4	WEAI Module 4: Time Allocation			
	NOTE FOR ENUMERATORS: PLEASE RECORD A LOG OF THE ACTIVITIES FOR THE INDIVIDUAL IN THE LAST COMPLETE 24 HOURS (STARTING YESTERDAY MORNING AT 4 AM, FINISHING 3:59 AM OF THE CURRENT DAY). LIST THE ACTIVITIES IN ORDER OF TIME BY SELECTING THE CORRESPONDING ACTIVITY FROM THE OPTION CHOICES AND MENTIONING THE DURATION FOR EACH ACTIVITY.			
20	Now I'd like to ask you about how you spent your time during the past 24 hours. We'll begin from yesterday morning, and continue through to this morning. This will be a detailed accounting. I'm interested in everything you did (i.e. resting, eating, personal care, work inside and outside the home, caring for children, cooking, shopping, socializing, etc.), even if it didn't take you much time. I'm particularly interested in agricultural activities such as farming, gardening, and livestock raising whether in the field or on the homestead. I'm also interested in how much time you spent caring for children, especially if it happened while you did some other activity (e.g., collecting water while carrying a child or cooking while watching after a sleeping child). INSTRUCTIONS: Swipe forward and press "Add Group".			
	INSTRUCTIONS: This is a 24 clock. For example, enter 6:00 for 6 in the morning and 18:00 for 6 in the evening.			

Night		Morning	Day									
4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	

				15 Weaving / sewing / textile care				
				16 Domestic work: Cooking				
				17 Domestic work: Fetching water				
				18 Domestic work: Collecting fuel for cooking				
				19 Domestic work: Other activities				
				20 Caring for children				
				21 Caring for adults (sick, elderly)				
				22 Traveling (not for work / school)				
				23 Exercising				
				24 Social activities and hobbies				
				25 Religious activities				
				95 - Other (specify)				
	Note: WARNING:							
	You have finished capturing 24 hours of activity. Press "Do Not Add" on the next screen.							
	Note: WARNING:							
	PLEASE GO BACK. YOU MUST CONTINUE TO CAPTURE ACTIVITIES UNTIL YOU HAVE CAPTURED 24 HOURS OF ACTIVITIES. ONLY PRESS 'DO NOT ADD' ONCE YOU HAVE CAPTURED THE LAST PERIOD UP TO 4AM.							
21	In the last 24 hours did you work (at home or outside of the home including chores or other domestic activities) less than usual, about the same as usual, or more than usual?		1	Less than usual				
2			About the same as usual					
3			More than usual					
N5	WEAI Module 5: Physical Mobility							
	Respondent ID – Select from dropdown							
			1	2	3	4	5	6

22	How often do you visit an urban center?	Everyday	Every week at least once	Every 2 week at least once	Every month at least once	Less than once a month	Never
23	How often do you go to the market / haat / bazaar?						
24	How often do you go to visit family or relatives?						
25	How often do you go to the hospital / clinic / doctor (seek health service)?						
26	How often do you go to a public village gathering / community meeting / training for NGO or programs?						
N6(A)	WEAI Module 6(A): Autonomy In Decision-Making						
	Respondent ID – Select from dropdown						
	<p>Now I am going to read you some stories about different farmers and their situations regarding different agricultural activities. This question format is different from the rest so take your time in answering. For each I will then ask you how much you are like or not like each of these people. We would like to know if you are completely different from them, similar to them, or somewhere in between. There are no right or wrong answers to these questions.</p>						
27	How to use income generated from agricultural and non-agricultural activities			Are you like this person?			
				1	2		
		28	“Reena/Ramesh uses her (his) income how another person tells her (him) she (he) must use.” Are you like this person?	Yes	No		
		29	No one tells Reena/Ramesh how to use her (his) income. But, she (he) uses her (his) income in the way that her (his) family or community expects.” Are you like this person?				
30	Reena/Ramesh chooses to use her (his) income how she (he) personally wants and thinks is best.” Are you like this person?						
N6(B)	WEAI Module N6(B): New General Self-Efficacy Scale						

	Respondent ID – Select from dropdown					
	Now I'm going to ask you some questions about different feelings you might have. Please listen to each of the following statements. Think about how each statement relates to your life, and then tell me how much you agree or disagree with the statement on a scale of 1 to 5, where 1 means you "strongly disagree" and 5 means you "strongly agree." (Note: Randomize order of statements)	1	2	3	4	5
31	When facing difficult tasks, I am certain that I will accomplish them.	Strongly Disagree	Disagree	Neither agree or disagree	Agree	Strongly agree
32	I am confident that I can perform effectively on many different tasks.					
N7	WEAI Module 7: Attitudes About Intimate Partner Violence Against Women					
	Respondent ID – Select from dropdown					
	Now I would like to ask about your opinion on the following issues. Please keep in mind that I am not asking about your personal experience or whether the following scenarios have happened to you. I would only like to know whether you think the following issues are acceptable.					
33	In your opinion, is a husband justified in hitting or beating his wife in the following situations?	1	2	99		
	33a	If she goes out without telling him?	Yes	No	Don't Know	
	33b	If she neglects the children?				
	33c	If she argues with him?				
	33d	If she burns the food?				
N8	WEAI Module 8: Group Membership					
	Respondent ID – Select from dropdown					
	Now I'm going to ask you about groups in the community. These can be either formal or informal and customary groups.					

34	Select all the groups below that you are active member of?		1	Agricultural / livestock / fisheries producer's group or cooperative (including marketing groups)
			2	Water users' group
			4	Forest users' group
			5	Credit and savings group or microfinance group (SHG)
			6	Mutual help or insurance group (including burial societies)
			7	Trade and business association group
			8	Civic group (improving community) or charitable group (helping others)
			9	Religious group
			10	Mahila Sabha
			11	Other [women's/men's] group (only if it does not fit into one of the other categories)
			12	Natural Resource Management Committee
			13	Federation
			14	SHG
			98	None of above
95	Other, specify			
WEAI MODULE ENDS HERE BUT THE QUESTIONS BELOW ARE LOOPED TOGETHER IN THE GROUP				
35	Is this \${name_ group} composed of all male or female or mixed-sex members?	1	All male	
		2	All female	
		3	Both male and female	
		98	Don't know	
36	What are the activities of the [name_wgroup]?	1	Joint forest management for NTFP collection	
		2	common resource management activity like-lantana removal	

			3	common resource management activity like- bunding
			4	Grievance Redressal- for domestic issues such as domestic violence, alcohol abuse.
			5	Coordinate with other formal and informal institutions.
			6	GPDP- Gram Panchayat Development Plans
			7	Domestic issues
			8	Credit lending activities
			9	Money Saving activities
			10	Capacity building activities- bio-input making like jeevamrut, ganjeevamrut, neemastra, etc
			11	Upkeep of natural resources like forests, rivers, grazing lands etc.
			12	Mixed cropping method
			13	Efficient water use management for home and/or irrigation
			14	Livestock management
			15	Agribusiness management
			16	Operating any farm machinery
			17	Protect forest
			18	Other training on best-farming practices
			95	Others, specify
	37	Do you hold position in [name_wgroup]	1	Yes
			2	No
	38	[If N8.1e=1] Name of the position in [name_wgroup]	1	Board/Director/Trustee
			2	President
			3	Vice-president

			4	Secretary/vice-secretary				
			5	Treasurer				
			6	Producer Group representative				
			7	Producer group President, Secretary, Treasurer				
			8	Producer Group manager/MKS manager				
			95	Other, specify				
			98	Don't know/don't remember				
	N9	Collective agency						
		READ: For this section, I am going to ask you to read you several statements about \${name_group} and ask you to indicate the extent to which you agree or disagree with the statement.	1	2	3	4	5	6
	39	The group has clear goals for the future.	Agree	Disagree	Partly agree	Partly disagree	Completely agree	Completely disagree
	40	Members are aware of and agree with the group's goals.						
	41	Members agree with the actions taken by the group in pursuit of the group's goals.						
	42	Being part of the group helps members achieve their own personal goals.						
	43	Members of the group are confident that the group will achieve the group's goals.						
	44	Members of the group are confident they can work together to overcome obstacles.						
	45	In critical situations, members of the group can rely on each other for help						
	46	Members of the group have influence in decisions about which goals the group should pursue.						

	47	Members of the group have influence in decisions about which actions the group should take to pursue the group's goals.							
	48	Members of the group are comfortable sharing worries and concerns with each other.							
	49	Members of the group work with each other to find solutions to problems							
	50	Being part of the group, allows members to take actions to pursue their personal goals.							
	51	Even when members disagree, they find ways to work together.							
	52	In your opinion, are your community's land and natural resources well-managed?							
	N10	Social Cohesion							
		<p>READ: For this section, I am going to ask you to read you several statements about \${name_group} and ask you to indicate the extent to which you agree or disagree with the statement.</p> <p>Sense of Belonging: How strongly do you agree or disagree with the following statements on a scale from 1 to 5, where 1 means strongly disagree and 5 means strongly agree</p>	1	2	3	4	5	6	
	53	I feel like I belong in my community:	Agree	Disagree	Partly agree	Partly disagree	Completely agree	Completely disagree	
	54	I feel connected to the people in my community							
	55	I believe that people in my community help each other							
	56	I feel safe in my community							
	57	Your involvement in community or social groups influenced your sense of belonging?							

--	--	--	--	--	--	--	--	--

SECTION O: ASSET MODULE AND ACCESS TO BASIC SERVICES (TO BE ASKED TO FEMALE RESPONDENTS ONLY)

Main House			
1	How many separate rooms are there?		(Number)
2	What is your present occupancy status	1	Owner
		2	Tenant
		3	Provided free by a relative or the employer
		4	Squatter
		5	Govt Residence
		95	Others, specify
3	Main material for the walls of the main house	0	Straw/bamboo/hemp/hay
		1	Earth/mud
		2	Plastic/fabrics
		3	Bricks
		4	Metal sheet/corrugate
		5	Wood
		6	Stone
		7	concrete/cement
		95	Others, specify
4	Main material for the floors of the main house	0	Earth
		1	Cement
		2	Brick
		3	Tiles
		4	Straw carpet
		5	wood
		6	concrete/cement

		95	Others, specify
5	Main material for the roof of the main house	0	Straw/bamboo/hemp/hay
		1	Plastic/fabrics
		2	Bricks/cement/stone
		3	Metal sheet/corrugate
		4	Wood
		5	Tiling
		6	No roof
		7	Thatch/Palm leaves
		8	Rustic mat
		9	Asbestos
		10	Cardboard
		11	Calamine/cement fiber
		12	kachha khaprail
		13	concrete/cement
		95	Others, specify
6	What is the main type of latrine used by the HH members	0	Sanitary
		1	Pucca Water sealed
		2	Pucca not sealed (pit)
		3	Katcha permanent
		4	Katcha temporary
		5	Open
ASSET MODULE and ACCESS TO BASIC SERVICES			
	7	How many of the following vehicles do you own? (in numbers)	
	A	Motorcycle	
	B	Car	
	C	Tractor	

	D	Bicycle		
	E	Bullock cart		
	F	Scooter/Scooty		
	95	Other		
	Household assets			
8	How many of the following household assets does the household own?			
	A	Gas cooker		
	B	Electric cooker		
	C	Normal Mobile phone		
	D	Smartphone (with internet access)		
	E	Radio/Transistor		
	F	Television (colour/BW)		
	G	Sewing machine		
	H	Laptop/Computer		
	I	Air conditioner/cooler		
	J	Refrigerator		
	K	Washing machine		
	Household Services			
9	Does your household have the following services:			
	A	Waste (rubbish) collection service	1	Yes
			2	No
	B	Mobile phone network	1	Yes
			2	No
	C	Internet i.e., wifi availability or mobile data	1	Yes
			2	No
10	How far (one way) are the following places from your home (in kilometer):			
	A	Your closest farm?		
		-		

	B	closest accessible and functioning FRESHWATER SOURCE? (like river, pond etc.) -		
	C	closest accessible and functioning PRIMARY SCHOOL? -		
	D	closest accessible and functioning PUBLIC HOSPITAL OR HEALTH FACILITY -		
	E	closest accessible and functioning AGRICULTURAL/CROPS MARKET -		
	F	closest accessible and functioning PUBLIC TRANSPORT (like railways, bus stop etc.) -		
	G	closest accessible and functioning WELL-MAINTAINED ROAD SUITABLE FOR CARS/bike -		
ASSET MODULE and ACCESS TO BASIC SERVICES: Food Aid or other Government Subsidies				
10	Select the type of aid you received in the past 3 years Select Multiple	1	Cash for work	
		2	Food, Emergency Relief	
		3	Income generating scheme- NREGA	
		4	Food subsidies	
		5	Mid day meal	
		6	Pension	
		7	Ladli Behna Scheme	
		95	Others, specify	

		98	My household has not received food or other aid in the past three years	
	Repeat Above			
	11	Institution responsible for \${name_aid}	1	Central government
			2	State government
			3	Local government /panchayat
			4	NGO programs – PRADAN, FES etc.
			5	Community group/support
			6	Private sector
			95	Others, specify
	End Repeat			
	Farm Support			
12	[If O3.3=1] Select which types of farm support you received in the past 3 years Select Multiple	1	input subsidy	
		2	public procurement	
		3	agriculture insurance	
		4	cash transfer for farmers	
		95	Others, specify	
	Repeat Above			
	13	Institution responsible for \${name_farmsupport}	1	Central government
			2	State government
			3	Local government /panchayat
			4	NGO programs – PRADAN, FES etc.
			5	Community group/support
			6	Private sector
			95	Others, specify
	End Repeat			

SECTION P: ASPIRATION MODULE (TO BE ASKED FROM ALL RESPONDENTS)

Now I will ask few questions about your aspirations related your income, children, social status.

1	Do you have any daughters?	1	Yes
		2	No
2	Do you have any sons?	1	Yes
		2	No
3	When we talk about assets we mean non-productive assets such as fridge, TV, furniture etc. Please give value for your entire household. Give us an estimate of the total value of such assets in Rupees.		
4	What is the value of assets you have at present?		In INR (Rupees)
5	What is the value of assets you would like to achieve? In INR (Rupees)		
6	What is the maximum value of assets one can have in your village? In INR (Rupees)	1	50000
		2	60000
		3	70000
		4	80000
		5	90000
		6	100000
		7	200000
		8	300000
		9	400000
		10	above 500000
		11	Don't know/cant answer
7	What is the minimum value of assets one can have in your village? In INR (Rupees)	1	less than 5000
		2	10000
		3	15000

Social Status											
<p>In this section we would like to know about your social status. Please answer on a scale of 1 to 10, where 1 means "no social status- no one asks me for my advice on any significant decision, in my community", 5 means "half the people in my community ask for my advice on important decisions" and 10 means "No important decision in the community is taken without consulting me"</p>											
8	What is the level of social status you have at present?	1	2	3	4	5	6	7	8	9	10
9	What is the level of social status that you would like to achieve?										
10	What is the maximum level of social status that a person can have in your village?										
11	What is the minimum level of social status that a person can have in your village?										

Education																	
Please answer in terms of level of education completed.																	
1 2	What is your current level of education?	1 No schooling/literate	2 Nursery or KG	3 Class 1	4 Class 2	5 Class 3	6 Class 4	7 Class 5	8 Class 6	9 Class 7	10 Class 8	11 Class 9	12 Class 10	13 Class 11	14 Class 12	15 Completed college at least or higher (Masters, PhD, Doctor, engineering etc)	98 Don't know/Too young
1 3	What level of education you would like to (or wanted to) achieve?																
1 4	What is the level of education that your oldest daughter currently has?																
1 5	What is the level of education that your oldest son currently has?																

1 6	What is the level of education that you would like your oldest daughter to achieve?																
1 7	What is the level of education that you would like your oldest son to achieve?																
1 8	What is the maximum level of education that a man can have in your village?																
1 9	What is the minimum level of education that a																

	man can have in your village?																		
20	What is the maximum level of education that a woman can have in your village?																		
21	What is the minimum level of education that a woman can have in your village?																		
Income																			
Annual income is the amount of CASH income you earn from all agricultural and non-agricultural activities, and money from any other government assistance programmes																			
22	What is the amount of household annual income you have at present? In INR (Rupees)																		
23	What is the amount of household annual income that you would like to achieve? In INR (Rupees)																		
24	What is the maximum amount of annual household income that a person can have in your village?															1	50000		
																2	60000		

	In INR (Rupees)	3	70000
		4	80000
		5	90000
		6	100000
		7	200000
		8	300000
		9	400000
		10	above 500000
		11	Don't know/cant answer
		0	0
25	What is the minimum amount of annual household income that a person can have in your village? In INR (Rupees)	1	50000
		2	60000
		3	70000
		4	80000
		5	90000
		6	100000
		7	200000
		8	300000
		9	400000
		10	above 500000
		11	Don't know/cant answer
		0	0
	Environment		
	Environment consists of all natural resources around you including air, water, land, forests.		
26	What is the level of quality of environment you have at present?	1	Very bad

		2	Bad
		3	Acceptable
		4	Good
		5	Very good
27	What is the level of quality of environment that you would like to achieve?	1	Very bad
		2	Bad
		3	Acceptable
		4	Good
		5	Very good
	Imp Allocation		
28	<p>We have asked you about income, assets, social status and education. Here is a square representing each. Now I would like you to tell me which of these four are the most important. Divide the 20 beans based on the level of importance for that particular square. More beans in one square means you have very high importance for that item, no beans means you have no importance for that item.</p> <p>Here are 20 beans. Please distribute all the 20 beans in the 4 squares according to their importance. No bean in a square means you do not attach any importance to that square. Many beans in a square means you attach a significant importance to it.</p>		
A	Beans for Annual Income		
B	Beans for Assets		
C	Beans for Social Status		
D	Beans for Education		
29	The sum of beans should be 20. You entered [sum_beans]. Please make sure you entered the correct value. Go back and make necessary corrections.	1	Yes
		2	No
30	What would you like your oldest son to be when they grow up?	1	Farmer
		2	Teacher
		3	Doctor
		4	Engineer
		5	Labourer

		6	House wife/Hoemaker
		7	Politician
		95	Others, specify
31	What do you think he will be when he grows up?	1	Farmer
		2	Teacher
		3	Doctor
		4	Engineer
		5	Labourer
		6	House wife/Hoemaker
		7	Politician
		95	Others, specify
32	What would you like your oldest daughter to be when they grow up?	1	Farmer
		2	Teacher
		3	Doctor
		4	Engineer
		5	Labourer
		6	House wife/Hoemaker
		7	Politician
		95	Others, specify
33	What do you think she will be when he grows up?	1	Farmer

		2	Teacher
		3	Doctor
		4	Engineer
		5	Labourer
		6	Housewife/Homemaker
		7	Politician
		95	Others, specify

SECTION Q: FARMER IDENTIFICATION (TO BE ASKED TO PRIMARY AGRICULTURAL DECISION MAKER)

	Now I will ask few questions about on your perception on how do you identify a farmer		
1	According to you, who is a farmer? (Multiple choice question)	1	Owns land
		2	Relies on agriculture as the main source of livelihood
		3	Takes decisions related to farming practices
		4	Takes decisions related to how to spend income from farming
		5	Spends most time on farming activities
		6	Takes part in training programs
		7	Registered as beneficiary under agricultural programs for inputs, subsidies, cash transfer programs
		95	Others, specify
2	Who would you identify as farmers in your household? (Multiple choice question)	1	Self
		2	Spouse
		3	Son/Son-in-law
		4	Daughter/daughter-in-law
		5	Mother/Mother-in-law
		6	Father/Father-in-law
		7	Brother/Brother-in-law
		8	Sister/Sister-in-law

		98	Nobody
		95	Others, specify
	farmer identification > farmers in household (1) > farmers documents		
4	Do [name_pb_farmeriden] have any kind of document to assert their identity as farmers	1	Farmer I-cards/Farmer certificate
		2	Land titles in their name
		3	Any other document that mentions their name to indicate they are engaged in farming or eligible to receive assistance for farming
		4	No document
		99	Not sure/Don't know/Can't say
5	How strongly do you agree with the following statement? "I consider myself a farmer and take pride in my farming role"	1	Strongly agree
		2	Agree
		3	Neutral
		4	Disagree
		5	Strongly disagree
6	How likely are you to invest your own money in improving your farm (e.g., through buying new equipment, improving irrigation, etc.)?	1	Very likely
		2	Somewhat likely
		3	Neutral
		4	Somewhat unlikely
		5	Very unlikely
7	How interested are you in learning about new farming technologies or practices (e.g., mechanization, crop rotation, pest management techniques)?	1	Very interested
		2	Somewhat interested
		3	Neutral
		4	Not very interested
		5	Not interested at all
8	How often do you actively seek out information on new farming techniques, tools, or practices (e.g., through workshops, extension agents, agricultural programs)?	1	Very often
		2	Sometimes
		3	Rarely

		4	Never
9	In the past year, have you participated in any agricultural programs, workshops, or community groups to improve your farming practices?	1	Yes, multiple times
		2	Yes, once
		3	No, but I am interested in participating
		4	No, and I am not interested in participating
10	How much do you agree with the following statement? "I feel a strong responsibility to improve my farm and contribute to agricultural progress in my community."	1	Strongly agree
		2	Agree
		3	Neutral
		4	Disagree
		5	Strongly disagree
	The household interview is complete. Please share your comments, if any		
	Thank you for your participation. If you have any questions, please contact us at: Dr. Muzna Alvi, International Food Policy Research Institute, New Delhi a.alvi@cgiar.org Pradyumna Acharya, FES, Mandla pradyumna.acharya@fes.org.in		
	Enumerators please write comment, if needed		
	FOR ENUMERATOR ABILITY TO BE INTERVIEWED ALONE	1	Alone
		2	With adult females present
		3	With adult males present
		4	With adults of BOTH sex present
		5	With children present
		6	With adults OF BOTH sex and children present
	Were you able to finish interview?	1	Yes
		2	No

	Please take a GPS point GPS coordinates can only be collected when outside.		
--	--	--	--

Sonali Singh, Senior Research Analyst, sonali.singh@cgiar.org

Muzna Alvi, Research Fellow, m.alvi@cgiar.org

CGIAR is a global research partnership for a food-secure future. CGIAR science is dedicated to transforming food, land, and water systems in a climate crisis. Its research is carried out by 13 CGIAR Centers/Alliances in close collaboration with hundreds of partners, including national and regional research institutes, civil society organizations, academia, development organizations and the private sector. www.cgiar.org

We would like to thank all funders who support this research through their contributions to the CGIAR Trust Fund: www.cgiar.org/funders.

To learn more about this Initiative, please visit <https://www.cgiar.org/initiative/agroecology/>

To learn more about this and other Initiatives in the CGIAR Research Portfolio, please visit www.cgiar.org/cgiar-portfolio

© 2024 CGIAR System Organization. Some rights reserved.

This work is licensed under a Creative Commons Attribution-Noncommercial 4.0 International Licence (CC BYNC 4.0).



INITIATIVE ON
Agroecology

Sonali Singh, Senior Research Analyst, sonali.singh@cgiar.org

Muzna Alvi, Research Fellow, m.alvi@cgiar.org

CGIAR is a global research partnership for a food-secure future. CGIAR science is dedicated to transforming food, land, and water systems in a climate crisis. Its research is carried out by 13 CGIAR Centers/Alliances in close collaboration with hundreds of partners, including national and regional research institutes, civil society organizations, academia, development organizations and the private sector. www.cgiar.org

We would like to thank all funders who support this research through their contributions to the CGIAR Trust Fund: www.cgiar.org/funders.

To learn more about this Initiative, please visit <https://www.cgiar.org/initiative/agroecology/>

To learn more about this and other Initiatives in the CGIAR Research Portfolio, please visit www.cgiar.org/cgiar-portfolio

© 2024 CGIAR System Organization. Some rights reserved.

This work is licensed under a Creative Commons Attribution-Noncommercial 4.0 International Licence (CC BYNC 4.0).



INITIATIVE ON
Agroecology