

AGRICULTURAL INFORMATION CONSENT FORM

An Impact Evaluation of a Mobile Agricultural Extension Program

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The purpose of this study is to understand how different sources of agricultural information affect your agricultural practices and well being. The study has been extended from one year to two years starting from the initial survey to the last survey. As a part of this study, you have participated in an initial survey conducted in July 2011 and routine monthly phone surveys. Your participation in this paper survey will take about two hours and your participation in the phone surveys will be about 30 minutes bimonthly for the next 12 months. If you have any questions about the study, they will be answered for you. After the first paper survey, a random and fair lottery determined whether you were a part of a service that receives agricultural information on your mobile phone. This service allows you to receive agricultural information on your mobile phone in the form of push calls from CMF; these push calls are delivered weekly and each message is about 3-5 minutes in length. It also allows you to use your mobile phone to call into a phone line and ask questions and hear pre-recorded advice about agriculture. For your participation in the study, you will receive a phone top-up value of Rs. 50 for the paper surveys and a Rs. 30 top-up for the phone surveys as an official thank you from the researchers at Harvard University.

Your participation in this study is purely voluntary, and you may withdraw your participation or your data at any time without any penalty to you. You may decline to answer any question. Additionally, your relationship and activities with DSC, Sajjata Sangh (SS) or other NGOs will not be affected by your answers in this survey at all. No one except the CMF research team will be able to see your personal information. Your responses will also not be shared in an identifiable manner with DSC, SS or other NGO staff.

Furthermore, we will be asking you some questions about your top agricultural contacts. We will ask you to provide us with their contact information, after which we will contact them to ask them the same questions that we ask you today and offer them the same compensation. By doing this, we hope to understand with more accuracy how you and your contacts discuss and make decisions about agriculture. You may refuse to give this information; your contacts may also refuse to participate in the study at any point. In the latter case, any information you have provided about them will be deleted from our data.

Your data will be kept completely confidential in a secure location in the Ahmedabad CMF office. Once the research is completed, the paper documents will be destroyed. An electronic version of the data will be stored at Harvard Business School, without any personally identifiable information. These data may be made available to other researchers, again without any personally identifiable information.

You can also contact Ishani Desai (email ishani.desai@ifmr.ac.in) at +91 79 4007 3682/3 at the Ahmedabad Office of Centre for Microfinance. If you feel you have been treated unfairly, or you have questions regarding your rights as a research subject, you may contact the Director of the Institute of Rural Management Anand (IRMA), Dr. Vivek Bhandari, at 02692 261230 (Ext: 601) or by email at vivek@irma.ac.in or vivekirma@gmail.com. Whom to contact about your rights in this research, for questions, concerns, suggestions, or complaints that are not being addressed by the researcher, or research-related harm: Committee on the Use of Human Subjects in Research at Harvard University, 1414 Massachusetts Avenue, Second Floor,

Do you agree to participate in the study?

YES..... 1

NO..... 2 → END

We may record this survey to improve the quality of our survey in future rounds. This recording will be kept completely confidential following already outlined data security procedures.

Do you agree to have this survey recorded?

YES..... 1 → BEGIN SURVEY

NO..... 2 → DO NOT RECORD, BEGIN SURVEY

INTERVIEWER: COMPLETE BEFORE BEGINNING THE MODULE			
0.1A	Block Name: _____	B. Block Number:	<input type="text"/> <input type="text"/> <input type="text"/>
0.2A	District Name: _____	B. District Number:	<input type="text"/> <input type="text"/> <input type="text"/>
0.3A	Village name: _____	B. Village Number:	<input type="text"/> <input type="text"/> <input type="text"/>
0.4	Household ID Number:	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	
0.5	Respondent ID Number:	<input type="text"/> <input type="text"/>	
NOTE: Make sure the respondent is the CHIEF AGRICULTURAL DECISION-MAKER of the household.			
	Crops grown:	Cotton	Y N
		Wheat	Y N
		Cumin	Y N
0.6	Household Address: _____		
0.7	Landline Telephone: _____		
0.8A	Primary Mobile Telephone No.: _____		
NOTE: Confirm that this number is the same as in the respondent list. Also give the respondent a missed call to make sure the number is correct. If the number is not the same, write down new number and give it a missed call. Make sure that this number is the respondent's own or one that he has regular access to, i.e. should be within the household.			
0.8B	Mobile Network 1: _____		
0.8C	Alternate Mobile No: _____		
NOTE: Double-check mobile number with household. If there is no number in 0.8A, there should be no number written here.			
0.8D	Mobile Network 2: _____		
0.9	Interviewer Name: _____		
0.10A	Date of visit 1: Day <input type="text"/> <input type="text"/> Month <input type="text"/> <input type="text"/> Year <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>		
0.10B	Start Time 1 : Hour <input type="text"/> <input type="text"/> Min <input type="text"/> <input type="text"/>		
0.10C	End Time 1: Hour <input type="text"/> <input type="text"/> Min <input type="text"/> <input type="text"/>		
Note: If it takes more than one visit to finish surveying the household, please record the time of second visit on the following page.			
0.11A	Date of visit 2: Day <input type="text"/> <input type="text"/> Month <input type="text"/> <input type="text"/> Year <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>		
0.11B	Start Time 2 : Hour <input type="text"/> <input type="text"/> Min <input type="text"/> <input type="text"/>		
0.11C	End Time 2: Hour <input type="text"/> <input type="text"/> Min <input type="text"/> <input type="text"/>		

INTERVIEWER: COMPLETE AFTER FINISHING THE MODULE				
0.13	COMPLETED:	YES.....1		
		NO.....2		

COMPLETE AFTER FINISHING THE MODULE				
SCRUTINIZED BY (Name of supervisor) _____				
Date:	Day	<input type="text"/>	Month	<input type="text"/>
SCRUTINIZED BY (Name of monitor) _____				
Date:	Day	<input type="text"/>	Month	<input type="text"/>
BACKCHECKED BY (Name of supervisor) _____				
Date:	Day	<input type="text"/>	Month	<input type="text"/>
BACKCHECKED BY (Name of monitor) _____				
Date:	Day	<input type="text"/>	Month	<input type="text"/>

SECTION A: HOUSEHOLD INFORMATION				
INTERVIEWER: To begin, we will ask you some basic questions about you and your household.				
A0. BASIC HOUSEHOLD INFORMATION				
A0.1	What is the name of the head of the household?			
A0.2	What is the age of the head of the household?	AGE		
		AGE RANGE		
		DON'T KNOW	999	
A0.3	Is this person male or female?	MALE	1	
		FEMALE	2	
A0.4	Who is the person who makes all the agricultural decisions?			
INTERVIEWER CHECKPOINT: FOR THIS MODULE INTERVIEW THE PERSON WHO MAKES ALL DECISIONS RELATED TO AGRICULTURE.				
A0.5	Name of the respondent NOTE: Match name in A0.4.			
A0.6	Are you the head of the household?	YES	1	→A0.8
		NO	2	
A0.7	Relationship to the head of the household	SPOUSE / PARTNER	1	
		SON / DAUGHTER	2	
		SON-IN-LAW / DAUGHTER-IN-LAW	3	
		STEPSON / STEPDAUGHTER	4	
		GRANDCHILD	5	
		BROTHER / SISTER	6	
		BROTHER-IN-LAW / SISTER-IN-LAW	7	
		FATHER / MOTHER	8	
		FATHER-IN-LAW / MOTHER-IN-LAW	9	
		OTHER FAMILY (SPECIFY)	10	
A0.8	INTERVIEWER CHECKPOINT: Is the respondent male or female?	MALE	1	
		FEMALE	2	
A0.9	How many people are in this household?			
	READOUT: By that I mean all people, including children, who 1) live under this "roof" or within the same house at least 30 days in the past year, and 2) when they are together, they share food.			

A1. HOUSEHOLD ROSTER				
INTERVIEWER CHECKPOINT: ASK THE FOLLOWING QUESTIONS FOR THE MAIN RESPONDENT (I.E. THE AGRICULTURAL DECISION MAKER).				
A1.1	How old are you now?	AGE		
		AGE RANGE		
		DON'T KNOW	999	
A1.2	Can you read and write?	READ ONLY	1	
		WRITE ONLY	2	
		READ AND WRITE	3	
		NEITHER READ NOR WRITE	4	
A1.3	What is the highest education level of education that you have completed?	CLASS 1	1	
		CLASS 2	2	
		CLASS 3	3	
		CLASS 4	4	
		CLASS 5	5	
		CLASS 6	6	
		CLASS 7	7	
		CLASS 8	8	
		CLASS 9	9	
		CLASS 10	10	
		CLASS 11	11	
		CLASS 12	12	
		GRADUATE AND ABOVE	13	
		OTHER DIPLOMA	14	
DID NOT COMPLETE CLASS 1	15			

		NEVER ATTENDED SCHOOL	16	
		OLD AGE EDUCATION	17	
		OTHER (specify)	888	
A1.4	What is your main occupation? (ONLY ONE ANSWER) (Don't prompt)	OWN FARM ACTIVITIES (inc. MILK SALES/DA	1	
		AGRICULTURAL LABORER	2	
		CASUAL LABOUR, NONAGRICULTURE	3	
		SALARIED EMPLOYMENT	4	
		PETTY BUSINESS/TRADE/MANF	5	
		UNEMPLOYED	6	
		STUDENT	7	
		DOMESTIC DUTIES ONLY	8	
		RETIRED/TOO OLD	9	
		DISABLED/HANDICAPPED	10	
		NOT WORKING / TOO YOUNG	11	
		OTHER (Specify)	888	
A1.9	Do you hold any positions in your community?	YES	1	
		NO	2	→ A3.1
		DON'T KNOW	999	→ A3.1
A1.10	Which positions have you held (hold)?	LOCAL PANCHAYAT MEMBER	1	
		GP PRADHAN/DEPUTY SARPANCH	2	
		HIGHER PANCHAYAT MEMBER	3	
		MEMBER OF ANY MANDAL / MANDALI (EXCLUDING PANCHAYAT AND AGAKHAN)	4	
		MANTRI OF AN ORGANISATION (EXCEPT PANCHAYAT AND AGAKHAN)	5	
		AGAKHAN MEMBER/MANTRI	6	
		OTHER (specify)	888	
		DON'T KNOW	999	

A3. HOUSEHOLD INCOME

A3.1	From which sources did you make money from the start of the last Kharif season until now (10 months)?				
	NOTE: Make sure the respondent gives INCOME, but if the respondent is not able to, then record profit and tick profit box				
		YES	NO	If yes, how much?	Income or profit?
					I=1, P=2
	1. Agriculture- own cultivation	1	2	Rs.	1 2
	2. Agricultural labour	1	2	Rs.	1 2
	3. Own farm enterprise (inc. milk sales)	1	2	Rs.	1 2
	4. Casual Labour	1	2	Rs.	1 2
	5. Regular wage/salary (Diamond workers)	1	2	Rs.	1 2
	6. Non-agri. enterprise (tea shop)/Petty Business	1	2	Rs.	1 2
	7. Rent	1	2	Rs.	1 2
	8. Employment Generation Schemes	1	2	Rs.	1 2
	9. Remittances	1	2	Rs.	1 2
	10. Interests and Dividends	1	2	Rs.	1 2
	11. Pension	1	2	Rs.	1 2
	12. Gift/ Donation	1	2	Rs.	1 2
	13. Other (specify)	1	2	Rs.	1 2

SECTION B2. HOUSEHOLD LANDHOLDINGS AND PLOT DETAILS									
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1-Black soil	4-Loam Soil	7-Salt-affected soil
2-Medium Black soil	5-Hill Soil	888-other (specify)
3-Sandy Soil	6-Mixed sand and black soil	

B2.1 Plot Table									
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INTERVIEWER CHECKPOINT: Please ask following questions for all plots the respondent owned and farmed (i.e. rented in, sharecropped or pawned in) during the Last Kharif (2012) and the Last Rabi (2012-13). *Once you reach Plot Status (B) and (C) use the plot status codes to fill in this in.*

[illegible]

SECTION H. HARVEST										
INTERVIEWER READOUT: Now we will ask you about the crops you grew during last Kharif or Rabi and your market opportunities for these crops.										

H 1.0 Did you grow the any of the following crops in the LAST KHARIF (2012) OR LAST RABI (2012-2013)?										
	Crop [A]	Cult.? [B]	Date of Harvest (ww/mm) [C]	Qty. Harvested [E]	Unit [F] maund-1, kilo-2, 3- quintal, 4- pula	Qty. Sold [K]	Unit [L] maund-1, kilo-2, 3- quintal, 4- pula	Price per unit [G]	Total Value of Output [H]	Yield (maund/bigha) [M]
1	Cotton	1 2	1. 2.		1 2 3 4		1 2 3 4			
2	Castor	1 2	1. 2.		1 2 3 4		1 2 3 4			
3	Wheat	1 2	1. 2.		1 2 3 4		1 2 3 4			
4	Cumin	1 2	1. 2.		1 2 3 4		1 2 3 4			
5	Bajri	1 2	1. 2.		1 2 3 4		1 2 3 4			
6	Jowar	1 2	1. 2.		1 2 3 4		1 2 3 4			
9	Sesame	1 2	1. 2.		1 2 3 4		1 2 3 4			
10	Pulses	1 2	1. 2.		1 2 3 4		1 2 3 4			
11	Vegetables	1 2	1. 2.		1 2 3 4		1 2 3 4			
12	Corn	1 2	1. 2.		1 2 3 4		1 2 3 4			
13	Groundnut	1 2	1. 2.		1 2 3 4		1 2 3 4			
14	Rajko	1 2	1. 2.		1 2 3 4		1 2 3 4			
15	Guar	1 2	1. 2.		1 2 3 4		1 2 3 4			
16	Other 1		1. 2.		1 2 3 4		1 2 3 4			

SECTION K1: AGRICULTURAL INFORMATION				
INTERVIEWER NOTE: Do not mention Avaaj Otalo by name in these sections as an option.				
INTERVIEWER NOTE: Use the ladder scale provided to rate trust in information sources. A rating of 1 means least trustworthy whereas a rating of 10 means most				

Frequency Code	
1 - Once a week	6 - More than twice a month
2 - Twice a week	7 - Less than twice a month
3 - More than twice a week	8 - Once a season
4 - Once a month	9 - Never (did not meet)
5 - Twice a month	

K1. SOURCES				
K1.1	Have you ever received agricultural advice from a government extension worker?	YES		1
		NO		2 →K1.3
K1.2	How many times in the last year were you visited by a government extension worker?			
K1.3	What sources of information do you use to make agricultural decisions? (NOTE: Ask respondent about every source.)	Yes - 1, No - 2	Trust in Source (Score from 1 to 10)	Frequency Code (at start of section)
	1. Past experience	1 2		
	2. TV program	1 2		
	Others	Name _____ (Use code)		
	3. Cell phone based information	1 2		
	Others	Name _____ (Use code)		
	4. Newspaper / magazines	1 2		
	Others	Name _____ (Use Code)		
	5. Government extension worker	1 2		
	6. NGO	1 2		
	Others	Name _____ (Use code)		
	7. Other farmers	1 2		
	8. Agro shop	1 2		
	9. Trader / Commission Agent	1 2		
	10. Radio (also include Gam No Choro for th	1 2		
	11. Krushi Mela	1 2		
	888. Other	Specify _____		
	999. Don't know			
K1.4	Of these sources in K1.3, what are your top two sources for agricultural information? (READOUT: these can be media or persons)	Information Source	Code	
		FIRST		
		SECOND		
NOW WE WILL GET MORE SPECIFIC ABOUT DIFFERENT AGRICULTURAL INFORMATION.				
K1.5	What is your most important information source regarding: (USE SOURCE CODE or options in K1.3)	TOPIC	SOURCE	
		Crop decision		
		Soil/field preparation		
		Seeds		
		Fertilizers		
		Pest identification		
		Pesticide usage		
		Irrigation		
		Weather		
		Harvesting		
		Prices		

		Storage/Selling			
		Animal Husbandry			
		Other (Specify)			
K1.6	Did you attend any agricultural training or demonstrations in the past year?	YES		1	
		If yes, how many?			
		NO		2	
K1.7	When was the last time you attended an agricultural demonstration?	MONTH:			
		YEAR:			
		NEVER		666	
		DON'T KNOW		999	
K1.8	Which organization or group conducted these demonstrations or training? (CIRCLE ALL THAT APPLY- DO NOT PROMPT)	Government Krushi Mela		1	2
		Gram Sevak		1	2
		CMF/DSC/Sajjata Sangh/AKRSP		1	2
		AO		1	2
		Other NGO		1	2
		Name of NGO:			
		Agricultural University		1	2
		Private company		1	2
		Other		888	
K1.9	How would you rate your own knowledge about agriculture on a scale of 1 to 5, 1 being very low and 5 being very high?	Very low		1	
		Low		2	
		Medium		3	
		High		4	
		Very high		5	
K1.91	How would rate your own knowledge about pesticides and pest and pest management on a scale of 1 to 5, 1 being very low and 5 being very high?	Very low		1	
		Low		2	
		Medium		3	
		High		4	
		Very high		5	
K1.92	How would you rate your own knowledge about fertilizers on a scale of 1 to 5, 1 being very low and 5 being very high?	Very low		1	
		Low		2	
		Medium		3	
		High		4	
		Very high		5	
K1.10	Are there aspects of your agriculture where you feel you would benefit from receiving more advice than you are currently	YES		1	
		NO		2	
		DON'T KNOW		999	

SECTION K2: NETWORKS AND INFORMATION SOURCES				
INTERVIEWER NOTE: Do not mention Avaaj Otalo by name in these sections as an option.				
K2. Information Sharing and Networks				
K2.1	Do you use your cellphone to talk to fellow farmers about agriculture?	YES		1
		NO		2
K2.2	Provide the names and phone numbers of three fellow farmers you talk to MOST FREQUENTLY about agriculture. (INTERVIEWER NOTE: Please record name in the following manner: CASTE/FIRST/LAST. If the farmer does not have a number, ask whether the friend has a phone or not.)	PERSON 1:		ID:
		CELL PHONE: Y / N NO:		
		PERSON 2:		ID:
		CELL PHONE: Y / N NO:		
		PERSON 3:		ID:
		CELL PHONE: Y / N NO:		
INTERVIEWER: MATCH FRIEND NAMES WITH RESPONDENT LIST AND RECORD ID IF MATCHED.				
PERSON 1:				
K2.31.1	Usually, during the Kharif or the Rabi season how often did you talk to this friend in a month?	ONCE A WEEK		1
		TWICE A WEEK		2
		MORE THAN TWICE A WEEK		3
		ONCE A MONTH		4
		TWICE A MONTH		5
		MORE THAN TWICE A MONTH		6
		LESS THAN ONCE A MONTH		7
		ONCE A SEASON		8
		NEVER-DID NOT MEET		9
K2.31.2	Is this person a village or a plot neighbour? (MULTIPLE ANSWERS POSSIBLE.)	VILLAGE NEIGHBOUR		1
		PLOT NEIGHBOUR		2
		NEITHER		3
K2.31.3	What is your relationship to this person?	Relative		1
		Farmer friend in own village		2
		Farmer friend in different village		3
		DON'T KNOW		999
K2.31.4	How far does this person live from you?	Neighbour		1
		0- 2 kms in same village		2
		2 - 5 kms in same village		3
		5 - 10 kms in same village		4
		In a different village		5
		Other (specify)		888
		DON'T KNOW		999
K2.31.5	How far is this person's farm from yours? (INTERVIEWER: Take that plot where the farmers meet or have the highest likelihood of meeting most frequently.)	Neighbour		1
		0- 2 kms in same village		2
		2 - 5 kms in same village		3
		5 - 10 kms in same village		4
		In a different village		5
		Other (specify)		888
		DON'T KNOW		999
K2.31.6	Do you normally talk to this person about agriculture over the phone or in person?	IN PERSON		1
		ON PHONE		2
		BOTH, PHONE AND IN PERSON		3
K2.31.71	Where do you normally meet this friend to discuss agricultural information?	YOUR HOUSE		1
		FRIEND'S HOUSE		2
		YOUR FARM PLOT		3
		FRIEND'S FARM PLOT		4
		VILLAGE CENTRAL LOCATION		5
		OTHER		888
K2.31.72	Have you gone to this friend's house or farm specifically to discuss agricultural topics?	YES		1
		NO		2
K2.31.73	Has this friend come to YOUR house or farm specifically to discuss agricultural topics?	YES		1
		NO		2
K2.31.81	Have you given any agricultural information to this	YES		1

	friend during the last Kharif or Rabi?	NO	2	→ K2.31.83
		DON'T KNOW	999	→ K2.31.83
K2.31.82	If yes, on what topics? (MULTIPLE ANSWERS	Crop Decision	1	
		Field/soil preparation	2	
		Seeds	3	
		Fertilizers	4	
		Pests and Pesticides	5	
		Irrigation	6	
		Weather	7	
		Harvesting	8	
		Other (specify)	888	
K2.31.83	Have you received any agricultural information from this friend during the last Kharif or Rabi?	YES	1	
		NO	2	→ K2.31.85
		DON'T KNOW	999	→ K2.31.85
K2.31.84	If yes, on what topics? (MULTIPLE ANSWERS	Crop Decision	1	
		Field/soil preparation	2	
		Seeds	3	
		Fertilizers	4	
		Pests and Pesticides	5	
		Irrigation	6	
		Weather	7	
		Harvesting	8	
		Other (specify)	888	
K2.31.85	Did you learn any new information about agriculture from observing the field of this friend during the last kharif or Rabi?	YES	1	
		NO	2	→ K2.31.87
		DON'T KNOW	999	→ K2.31.87
K2.31.86	If yes, what did you observe? (MULTIPLE ANSWERS POSSIBLE)	Crop Decision	1	
		Field/soil preparation	2	
		Seeds	3	
		Fertilizers	4	
		Pests and Pesticides	5	
		Irrigation	6	
		Other (specify)	888	
	NOW WE WILL ASK SOME BASIC QUESTIONS ABOUT THIS PERSON'S AGRICULTURAL ANSWER TO THE BEST OF YOUR KNOWLEDGE.			
K2.31.9	Did this friend grow cotton during Kharif 2011?	YES	1	
		NO	2	
		DON'T KNOW	999	
K2.31.11.1	During the last Kharif or Rabi, did you recommend any inputs to this friend?	YES	1	
		NO	2	→K2.31.13
		DON'T KNOW	999	→K2.31.13
K2.31.11.2	What were these inputs?	Chemical Fertilizer	1 2	
	(MULTIPLE ANSWERS POSSIBLE)	Name:		
	(1 = YES, 2 = NO)	Name:		
	(Use codes from the cde sheet)	Pesticide	1 2	
		Name:		
		Name:		
		Different seed variety	1 2	
		Name:		
		Name:		
		Other (Please specify)	888	
		DON'T KNOW	999	
K2.31.13	How would you rate this person's knowledge about agriculture on a scale of 1 to 5, 1 being very low and 5 being very high?	Very low	1	
		Low	2	
		Medium	3	
		High	4	
		Very high	5	
K2.31.1	How would rate this person's knowledge about pesticides and pest and pest management on a scale	Very low	1	
		Low	2	

	of 1 to 5, 1 being very low and 5 being very high?	Medium	3		
		High	4		
		Very high	5		
K2.31.1	How would rate this person's knowledge about fertilizers on a scale of 1 to 5, 1 being very low and 5 being very high?	Very low	1		
		Low	2		
		Medium	3		
		High	4		
		Very high	5		
PERSON 2:					
K2.32.1	Usually, during the Kharif or the Rabi season how often did you talk to this friend in a month?	ONCE A WEEK		1	
		TWICE A WEEK		2	
		MORE THAN TWICE A WEEK		3	
		ONCE A MONTH		4	
		TWICE A MONTH		5	
		MORE THAN TWICE A MONTH		6	
		LESS THAN ONCE A MONTH		7	
		ONCE A SEASON		8	
		NEVER-DID NOT MEET		9	
K2.32.2	Is this person a village or a plot neighbour? (MULTIPLE ANSWERS POSSIBLE.)	VILLAGE NEIGHBOUR	1		
		PLOT NEIGHBOUR	2		
		NEITHER	3		
K2.32.3	What is your relationship to this person?	Relative	1		
		Farmer friend in own village	2		
		Farmer friend in different village	3		
		DON'T KNOW	999		
K2.31.4	How far does this person live from you?	Neighbour	1		
		0- 2 kms in same village	2		
		2 - 5 kms in same village	3		
		5 - 10 kms in same village	4		
		In a different village	5		
		Other (specify)	888		
		DON'T KNOW		999	
K2.32.5	How far is this person's farm from yours? (INTERVIEWER: Take that plot where the farmers meet or have the highest likelihood of meeting most frequently.)	Neighbour	1		
		0- 2 kms in same village	2		
		2 - 5 kms in same village	3		
		5 - 10 kms in same village	4		
		In a different village	5		
		Other (specify)	888		
		DON'T KNOW		999	
K2.32.6	Do you normally talk to this person about agriculture over the phone or in person?	IN PERSON	1		
		ON PHONE	2	→K2.32.81	
		BOTH, PHONE AND IN PERSON	3		
K2.32.71	Where do you normally meet this friend to discuss agricultural information?	YOUR HOUSE	1		
		FRIEND'S HOUSE	2		

		YOUR FARM PLOT	3	
		FRIEND'S FARM PLOT	4	
		VILLAGE CENTRAL LOCATION	5	
		OTHER	888	
K2.32.72	Have you gone to this friend's house or farm specifically to discuss agricultural topics?	YES	1	
		NO	2	
K2.32.73	Has this friend come to YOUR house or farm specifically to discuss agricultural topics?	YES	1	
		NO	2	
K2.32.81	Have you given any agricultural information to this friend during the last Kharif or Rabi?	YES	1	
		NO	2	→K2.32.83
		DON'T KNOW	999	→K2.32.83
K2.32.82	If yes, on what topics?	Crop Decision	1	
		Field/soil preparation	2	
		Seeds	3	
		Fertilizers	4	
		Pests and Pesticides	5	
		Irrigation	6	
		Weather	7	
		Harvesting	8	
		Other (specify)	888	
K2.32.83	Have you received any agricultural information from this friend during the last Kharif or Rabi?	YES	1	
		NO	2	→K2.32.85
		DON'T KNOW	999	→K2.32.85
K2.32.84	If yes, on what topics?	Crop Decision	1	
		Field/soil preparation	2	
		Seeds	3	
		Fertilizers	4	
		Pests and Pesticides	5	
		Irrigation	6	
		Weather	7	
		Harvesting	8	
		Other (specify)	888	
K2.32.85	Did you learn any new information about agriculture from observing the field of this friend during the last kharif or Rabi?	YES	1	
		NO	2	→K2.32.9
		DON'T KNOW	999	→K2.32.9
K2.32.86	If yes, what did you observe?	Crop Decision	1	
		Field/soil preparation	2	
		Seeds	3	
		Fertilizers	4	
		Pests and Pesticides	5	
		Irrigation	6	
		Other (specify)	888	
	NOW WE WILL ASK SOME BASIC QUESTIONS ABOUT THIS PERSON'S AGRICULTURAL ANSWER TO THE BEST OF YOUR KNOWLEDGE.			
K2.32.9	Did this friend grow cotton during Kharif 2011?	YES	1	

		NO	2	
		DON'T KNOW	999	
K2.32.11.2	During the last Kharif or Rabi, did you recommend any inputs to this friend?	YES	1	→K2.32.13
		NO	2	
		DON'T KNOW	999	
K2.32.11.2	What were these inputs? (MULTIPLE ANSWERS POSSIBLE) (1 = YES, 2 = NO) (Use codes from the cde sheet)	Chemical Fertilizer	1 2	
		Name:		
		Name:		
		Pesticide	1 2	
		Name:		
		Name:		
		Different seed variety	1 2	
		Name:		
		Name:		
		Other (Please specify)	888	
		DON'T KNOW	999	
K2.32.13	How would you rate this person's knowledge about agriculture on a scale of 1 to 5, 1 being very low and 5 being very high?	Very low	1	
		Low	2	
		Medium	3	
		High	4	
		Very high	5	
K2.32.1	How would rate this person's knowledge about pesticides and pest and pest management on a scale of 1 to 5, 1 being very low and 5 being very high?	Very low	1	
		Low	2	
		Medium	3	
		High	4	
		Very high	5	
K2.32.1	How would rate this person's knowledge about fertilizers on a scale of 1 to 5, 1 being very low and 5 being very high?	Very low	1	
		Low	2	
		Medium	3	
		High	4	
		Very high	5	
PERSON 3:				
K2.33.1	Usually, during the Kharif or the Rabi season how often did you talk to this friend in a month?	ONCE A WEEK	1	
		TWICE A WEEK	2	
		MORE THAN TWICE A WEEK	3	
		ONCE A MONTH	4	
		TWICE A MONTH	5	
		MORE THAN TWICE A MONTH	6	
		LESS THAN ONCE A MONTH	7	
		ONCE A SEASON	8	
		NEVER-DID NOT MEET	9	
K2.33.2	Is this person a village or a plot neighbour? (MULTIPLE ANSWERS POSSIBLE.)	VILLAGE NEIGHBOUR	1	
		PLOT NEIGHBOUR	2	
		NEITHER	3	

K2.33.3	What is your relationship to this person?	Relative	1	
		Farmer friend in own village	2	
		Farmer friend in different village	3	
		DON'T KNOW	999	
K2.33.4	How far does this person live from you?	Neighbour	1	
		0- 2 kms in same village	2	
		2 - 5 kms in same village	3	
		5 - 10 kms in same village	4	
		In a different village	5	
		Other (specify)	888	
		DON'T KNOW	999	
K2.33.5	How far is this person's farm from yours? (INTERVIEWER: Take that plot where the farmers meet or have the highest likelihood of meeting most frequently.)	Neighbour	1	
		0- 2 kms in same village	2	
		2 - 5 kms in same village	3	
		5 - 10 kms in same village	4	
		In a different village	5	
		Other (specify)	888	
		DON'T KNOW	999	
K2.33.6	Do you normally talk to this person about agriculture over the phone or in person?	IN PERSON	1	
		ON PHONE	2	→K2.33.81
		BOTH, PHONE AND IN PERSON	3	
K2.33.71	Where do you normally meet this friend to discuss agricultural information?	YOUR HOUSE	1	
		FRIEND'S HOUSE	2	
		YOUR FARM PLOT	3	
		FRIEND'S FARM PLOT	4	
		VILLAGE CENTRAL LOCATION	5	
		OTHER	888	
K2.33.72	Have you gone to this friend's house or farm specifically to discuss agricultural topics?	YES	1	
		NO	2	
K2.33.73	Has this friend come to YOUR house or farm specifically to discuss agricultural topics?	YES	1	
		NO	2	
K2.33.81	Have you given any agricultural information to this friend during the last Kharif or Rabi?	YES	1	
		NO	2	→K2.33.83
		DON'T KNOW	999	→K2.33.83
K2.33.82	If yes, on what topics?	Crop Decision	1	
		Field/soil preparation	2	
		Seeds	3	
		Fertilizers	4	
		Pests and Pesticides	5	
		Irrigation	6	
		Weather	7	

		Harvesting	8		
		Other (specify)	888		
K2.33.83	Have you received any agricultural information from this friend during the last Kharif or Rabi?	YES	1		
		NO	2	→K2.33.85	
		DON'T KNOW	999	→K2.33.85	
K2.33.84	If yes, on what topics?	Crop Decision	1		
		Field/soil preparation	2		
		Seeds	3		
		Fertilizers	4		
		Pests and Pesticides	5		
		Irrigation	6		
		Weather	7		
		Harvesting	8		
		Other (specify)	888		
K2.33.85	Did you learn any new information about agriculture from observing the field of this friend during the last kharif or Rabi?	YES	1		
		NO	2	→K2.33.89	
		DON'T KNOW	999	→K2.33.89	
K2.33.86	If yes, what did you observe?	Crop Decision	1		
		Field/soil preparation	2		
		Seeds	3		
		Fertilizers	4		
		Pests and Pesticides	5		
		Irrigation	6		
		Other (specify)	888		
NOW WE WILL ASK SOME BASIC QUESTIONS ABOUT THIS PERSON'S AGRICULTURAL ANSWER TO THE BEST OF YOUR KNOWLEDGE.					
K2.33.9	Did this friend grow cotton during Kharif 2011?	YES	1		
		NO	2		
		DON'T KNOW	999		
K2.33.11.2	During the last Kharif or Rabi, did you recommend any inputs to this friend?	YES	1	→K2.31.13	
		NO	2		
		DON'T KNOW	999		→K2.31.13
K2.33.11.2	What were these inputs? (MULTIPLE ANSWERS POSSIBLE) (1 = YES, 2 = NO) (Use codes from the cde sheet)	Chemical Fertilizer	1	2	
		Name:			
		Name:			
		Pesticide	1	2	
		Name:			
		Name:			
		Different seed variety	1	2	
		Name:			
		Name:			
		Other (Please specify)	888		
		DON'T KNOW	999		
K2.33.13	How would you rate this person's	Very low	1		

	knowledge about agriculture on a scale of 1 to 5, 1 being very low and 5 being very high?	Low	2	
		Medium	3	
		High	4	
		Very high	5	
K2.33.1	How would rate this person's knowledge about pesticides and pest and pest management on a scale of 1 to 5, 1 being very low and 5 being very high?	Very low	1	
		Low	2	
		Medium	3	
		High	4	
		Very high	5	
K2.33.1	How would rate this person's knowledge about fertilizers on a scale of 1 to 5, 1 being very low and 5 being very high?	Very low	1	
		Low	2	
		Medium	3	
		High	4	
		Very high	5	

A5. AO Usage				
*** NEEDS SKIP FOR CONTROL RESPONDENTS, BEST IF SUPERVISOR MARKS IT OUT FOR CONTROL GROUP WE WILL NOW ASK YOU SOME QUESTIONS ABOUT THE ADVICE YOU RECEIVE ON AO.				
A5.10	Have you received any information from AO that is of interest to you?	Yes		
		No		→D
A5.11	Which two topics of information on AO were you most interested in?	Seeds	1	
		Fertilizer Usage	2	
		Pesticide Usage	3	
		Irrigation Usage	4	
		Weather Information	5	
		Harvesting Practices	6	
		Did not find any information useful	7	→D
		Did not receive any information	8	→D
		Pest and Diseases Identification	9	
		Field preparation/Sowing	10	
		OTHER (SPECIFY)	888	
Mention the first piece of information for the questions below				
A5.21	Did you follow any advice/adopt any practice suggested by this information?	YES	1	→A5.41
		NO	2	
A5.31	Why have you not followed any advice given to you by AO? multiple possible, no prompting	LACK OF MONEY	1	→A5.22
		INPUT INAVAILABILITY IN MARKET	2	→A5.22
		DID NOT TRUST INFORMATION	3	→A5.22
		INAPPROPRIATE TIMING	4	→A5.22
		FRIENDS DON'T USE IT	5	→A5.22
		WATER UNAVAILABLE	6	→A5.22
		DIDN'T NEED NEW INFORMATION-	7	→A5.22
		DID NOT UNDERSTAND INFORMATION	8	→A5.22
		POOR QUALITY OF INFORMATION	9	→A5.22
		OTHER (SPECIFY)	888	→A5.22
A5.41	What were the main reasons why you decided to follow this advice / adopt this practice? (RECORD VERBATIM)			
A5.51	Of the following reasons, which do you think was the most important factor to you in following advice or adopting this practice? (READ OUT ALL CHOICES)	Trust in AO information	1	
		<i>Because inputs were easily available</i>	2	
		Recommended by Friends / Others were	3	
		Better information than other sources	4	
		Easy to understand	5	
		Received new information (didn't know before)	6	
		<i>Low cost to implement</i>	7	
		DON'T KNOW	999	
A5.61	Did this advice result in you purchasing any inputs or other items?	YES	1	
		NO	2	→A5.22
		DON'T KNOW	999	→A5.22
A5.71	If yes, what did you buy?	FERTILIZER	1	
		Name: _____		
		PESTICIDE	2	
		Name: _____		
		BIOLOGICAL PEST CONTROL	3	
		Name: _____		
		SEEDS	4	
		Name: _____		
		OTHER (SPECIFY)	888	
Mention the second piece of information for the questions below				
A5.22	Did you follow any advice/adopt any practice suggested by this information?	YES	1	→A5.42
		NO	2	
A5.32	Why have you not followed any advice given to you by AO? multiple possible, no prompting	LACK OF MONEY	1	→D
		INPUT INAVAILABILITY IN MARKET	2	→D
		DID NOT TRUST INFORMATION	3	→D
		INAPPROPRIATE TIMING	4	→D
		FRIENDS DON'T USE IT	5	→D
		WATER UNAVAILABLE	6	→D
		DIDN'T NEED NEW INFORMATION-	7	→D
		DID NOT UNDERSTAND INFORMATION	8	→D
		POOR QUALITY OF INFORMATION	9	→D
		OTHER (SPECIFY)	888	→D
A5.42	What were the main reasons why you decided to follow this advice / adopt this practice? (RECORD VERBATIM)			

A5.52	Of the following reasons, which do you think was the most important factor in following advice or adopting this practice? (READ OUT ALL CHOICES)	Trust in AO information	1	
		<i>Because inputs were easily available</i>	2	
		Recommended by Friends / Others were doing the same	3	
		Better information than other sources	4	
		Easy to understand	5	
		Received new information (didn't know bef	6	
		<i>Low cost to implement</i>	7	
		DON'T KNOW	999	
A5.62	Did this advice result in you purchasing any inputs or other items?	YES	1	→D
		NO	2	
		DON'T KNOW	999	
A5.72	If yes, what did you buy?	FERTILIZER	1	
		Name: _____ (Use Code)		
		PESTICIDE	2	
		Name: _____ (Use Code)		
		BIOLOGICAL PEST CONTROL	3	
		Name: _____		
		SEEDS	4	
		Name: _____ (Use Code)		
		OTHER (SPECIFY)	888	

SECTION D: KNOWLEDGE INDEX			
	INTERVIEWER NOTE: Do not mention Avaaj Otalo by name in these sections as an option.		
	Do not read out any of the choices for any of the questions in this section, only ask the respondent the question and record the answer		
	INTERVIEWER READOUT: We will now ask you some questions about agriculture.		
	The first set of questions will be general in nature, while the second set of questions will be specific to crops. Answer to the best of your knowledge.		
D1. General			
INTERVIEWER CHECKPOINT:DO NOT PROMPT OR READ OUT CHOICES FOR FOLLOWING QUESTIONS			
D1.2k	Which essential plant nutrients does UREA contain?	Nitrogen	1
		Phosphorus	2
		Potash	3
		Other	888
		DON'T KNOW	999
D1.3k	Which is the BEST fertilizer for adding phosphorus in the soil?	DAP/SSP	1
		12-32-16, 20-20-20 grade	2
		Other	888
		DON'T KNOW	999
D1.3kc	If you had the option of using 50 kg (1 bag) of DAP or 50kg (1 bag) of 20-20-20, which of the two would you use to add phosphorous to soil?	DAP/SSP	1
		20-20-20 grade	2
		Other	888
		DON'T KNOW	999
D1.4k	Which is the BEST fertilizer for adding Potash in the soil?	Murate of Potash (MoP)/Sulphate of Potash	1
		12-32-16, 20-20-20 grade	2
		Other	888
		DON'T KNOW	999
D1.4kc	If you had the option of using 50 kg (1 bag) of Murate of Potash or 50 kg (1 bag) of 12-32-16 , which of the two would you use to add potash to soil?	Murate of Potash (MoP)	1
		12-32-16 grade	2
		Other	888
		DON'T KNOW	999
D1.5k	Which is the BEST fertilizer for adding sulphur in the soil?	Ammonium Sulphate/SSP/Gypsum/Chirodi	1
		Sulphur Fertilizer	2
		Other	888
		DON'T KNOW	999
D1.5kc	If you had the option of using 50 kg of Ammonium Sulphate/SSP/Gypsum/Chirodi or 50 kg of Sulphur fertilizer ,which of the two would you use to add sulphur to soil?	Ammonium Sulphate/SSP/Gypsum/Chirodi	1
		Sulphur Fertilizer	2
		Other	888
		DON'T KNOW	999
E10_2	When mixing pesticide in the pump, which type of concentrate, POWDER OR LIQUID, should you add first?	Powder form	1
		Liquid form	2
		Doesn't matter - Either one	3
		Don't Know	999

D2. Crop-Specific Knowledge Questions			
	NOW WE WILL ASK YOU QUESTIONS ABOUT THE BEST AGRICULTURAL PRACTICES OF COTTON AND/ OR CASTOR. PLEASE ANSWER THESE TO THE BEST OF YOUR KNOWLEDGE.		
	INTERVIEWER CHECKPOINT:DO NOT PROMPT OR READ OUT CHOICES FOR FOLLOWING QUESTIONS		
D21. COTTON			
E2_2	What type of pests does BT cotton provide resistance against?	Boll worms	1
		All pest and diseases	2
		Sucking pests	3
		Any Other (Specify)	888
		Don't Know	999
D21.3a	Do you know what a pheromone trap is?	YES	1
		NO	2 →E8_1
D21.3k	What is the use of a pheromone trap in agriculture?	Pest Control	1
		Other	888
		DON'T KNOW	999
E8_1	After Flowering stage, which type of fertilizers are advised to spray to stop the falling of flower buds and for good development of balls?	Micronutrient Fertilizer-Zink,Boron	1
		Urea/DAP	2
		Other (Specify)	888

		Don't Know	999	
E6_1	In the flowering stage spraying of which fertilizer is highly advisable to stop yellowing of plants and to increase production?	Urea, 20-20-20, 13-0-45 grade	1	
		DAP	2	
		Other (Specify)	888	
		Don't Know	999	
e1_P	Monocrotophos pesticide is primarily intended to control which pests:	Ball worms - Heliothis/Spottel Ball warm	1	
		Sucking pest - Whitefly/Molo/Aphid/Jassid/Thrips	2	
		All pest and diseases	3	
		Don't know	999	
e2_P	Have you heard of Imida/confidor/tatamida/imidagold?	YES	1	
		NO	2	→e4_P
e3_P	Imidacloprid/Confidor/Tatamida/Imidagold pesticide is primarily intended to control which pests:	Sucking pest - Whitefly/Molo/Aphid/Jassid/Thrips	1	
		Ball worms - Heliothis/Spottel Ball warm	2	
		All pest and diseases	3	
		Don't know	999	
e4_P	Have you heard of Acetamapride/Pride?	YES	1	
		NO	2	→e6_P
e5_P	Acetamapride/Pride pesticide is primarily intended to control which pests:	Sucking pest - Whitefly/Molo/Aphid/Jassid/Thrips	1	
		Ball worms - Heliothis/Spottel Ball warm	2	
		All pest and diseases	3	
		Don't know	999	
e6_P	Acephate pesticide is primarily intended to control which pests:	Sucking pest - Whitefly/Molo/Aphid/Jassid/Thrips	1	
		Ball worms - Heliothis/Spottel Ball warm	2	
		All pests and diseases	3	
		Don't know	999	
E7_PC	If you had the option of using 1 Litre of Profenophos or 1 Litre of Monocrotophos, which would you use to most effectively treat MEALYBUG in cotton?	Profenophos	1	
		Monocrotophos	2	
		Chlorpyrifos/Triazophos/Hostathion	3	
		Other (Specify)	888	
		Don't Know	999	
E8_PC	If you had the option of using 1 Litre of Pride or 1 Litre of Monocrotophos, which would you use to most effectively treat WHITE FLY in cotton?	Pride/Tata Manik	1	
		Monocrotophos	2	
		Triazophos/Hostathion	3	
		Other (specify)	888	
		Don't Know	999	
E9_PC	If you had the option of using 1 Litre of Imida or 1 Litre of Monocrotophos, which would you use to most effectively treat APHID/LEAF CURL in cotton?	Imida/Tatamida/Confidor/Jumbo	1	
		Monocrotophos	2	
		Acephat/Pride/Ektara	3	
		Other (specify)	888	
		Don't Know	999	
E10_PC	If you had the option of using 1 Litre of Dithan 45 or 1 Litre of Monocrotophos, which would you use to most effectively treat WILT DISEASE in cotton?	Dithan 45/Mancozeb	1	
		Monocrotophos	2	
		Bavistin/Copper OxyChloride/ Carbendazim	3	
		Other (Specify)	888	
		Don't Know	999	
F1	To control wilt disease in Cotton which fungus or bio-product can be used with compost as a seed treatment or soil application?	Tricoderma Viridi-Tricoderma	1	
		Fungicide	2	
		Other (Specify)	888	
		Don't Know	999	
F2	Photo 1: Can you identify the following pest from its photo and damage symptoms	Aphid	1	
		Other (Specify)	888	
		Don't Know	999	
F3	Photo 2: Can you identify the following pest from its photo and damage symptoms	Thrips	1	
		Other (Specify)	888	
		Don't Know	999	
F4	Photo 3: Can you identify the following pest from its photo and damage symptoms	White fly	1	
		Other (Specify)	888	
		Don't Know	999	
F5	Photo 4: Can you identify the following pest from its photo and damage symptoms	Mealy bug	1	
		Other (Specify)	888	
		Don't Know	999	

	INTERVIEWER CHECKPOINT:DO NOT PROMPT OR READ OUT CHOICES FOR FOLLOWING QUESTIONS
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D22. WHEAT			
D22.1a	For timely sowing of wheat, which time is recommended?	15 to 25 November - After Dev Diwali	1
		First week of November - After Diwali	2
		Any Other (Specify)	888
		Don't Know	999
D22.2a	In case of late sowing the wheat crop should be planted latest by:	10-15 December	1
		Other (specify)	888
		Don't know	999
D22.4a	Which disease of wheat affects the grain quality and ultimately the price of wheat grains?	Black Point of grains	1
		Other (specify)	888
		Don't know	999
D22.1k	Which variety of wheat is recommended in gujarat for late sowing?	GW 173/Lok 1/Tukdi	1
		Other (specify)	888
		Don't know	999
D22.3k	What is the recommended dose of nitrogen in irrigated wheat?	120 kg /ha or 20 kg/vigha	1
		80-150 kg/ha or 15-25 kg/vigha	2
		Other (specify)	888
		Don't know	999
D22.4k	What is the recommended dose of phosphorus in irrigated wheat?	60 kg /ha or 10 kg/vigha	1
		50-75 kg/ha or 8-12 kg/vigha	2
		Other (specify)	888
		Don't know	999
F22.6	After one irrigation at the time of sowing, the next irrigation for wheat is recommended in:	20-21 days after sowing or at crown root initiation stage	1
		8-10 days after sowing	2
		Other (Specify)	888
		Don't Know	999

D23.CUMIN			
D23.1a	Which are the newly recommended varieties of Cumin resistant to wilt?	GC 3/ GC 4	1
		Other	888
		Don't know	999
D23.2a	What is the best time for sowing Cumin?	First week of November	1
		Other	888
		Don't know	999
E1_2	Before sowing, what should be done with cumin seeds to prevent fungal diseases?	Seed Treatment	1
		Nothing	2
		Other (specify)	888
		Don't know	999
D23.3k	What is the recommended dose of Nitrogen for cumin?	30 kg/ha or 5 kg/vigha	1
		Other (specify)	888
		Don't know	999
F23.6	When you notice wilt in your cumin, which fungicide is recommended for to control the harmful effects of the wilt disease?	Bavistin - Carbendazim - Mancozeb	1
		Confidor - Mono	2
		Any Other (Specify)	888
		Don't Know	999
F23.7C	If you had the option of using 1 Kg of Mancozeb or 1 Litre of Monocrotophos, which would you use to most effectively treat WILT DISEASE in cumin?	Mancozeb/Dithan 45/Bavistin/Carbendazim	1
		Monocrotophos	2
		Other (Specify)	888
		Don't Know	999
D23.7kc	If you had the option of using 1 Kg of Sulphur/Contaf or 1 Litre of Monocrotophos, which would you use to most effectively treat powdery mildew in cumin?	Sulphur/Dinocap/Contaf	1
		Other	888
		Don't know	999
E4_2	Which herbicide is advisable as pre-emergence for controlling weeds in cumin and wheat?	Pendimethalin - Basalin - Stomp	1
		2-4-D	2
		Any Other (Specify)	888
		Don't know	999
E6_2	To control wilt disease in cumin which fungus or bio-product can be used as a seed treatment or soil application with compost?	Tricoderma Viridi - Tricoderma	1
		Fungicide	2
		Any Other (Specify)	888
		Don't Know	999

SECTION C1: AGRICULTURAL PRACTICES - COTTON

INTERVIEWER NOTE: Do not mention Avaaj Otalo by name in these sections as an option.
 INTERVIEWER READOUT: Now we will ask you about your practices related to cotton for last Kharif.
 Remember that we would like information from your last cotton crop not for the upcoming Kharif.

C1. COTTON (General)				
C1.1	Do you solicit or receive any advice on planting of cotton?	YES		1
		NO		2
C1.2	Who or what were the TWO most important sources? (USE SOURCE CODE- DO NOT PROMPT)	FIRST		→C1.3
		SECOND		
C1.3	Did you plant cotton last Kharif?	YES		1
		NO		2
C1.5	What was the total area you planted last Kharif?			ACRE
				BIGHA
				GUNTHA
	INTERVIEWER CHECKPOINT: For quantity planted use same unit as in C1.5			
C1.5x	When did you plant cotton last Kharif?	1st Planting (ww/mm) :	Qty:	
		2nd Planting (ww/mm)	Qty:	
		3rd Planting (ww/mm)	Qty:	
C1.51	Total cotton crop loss due to weather, pests etc... last Kharif?			ACRE
				BIGHA
				GUNTHA
				Percentage
C1.51a	Which pests afflicted your cotton and what was the maximum area of infestation reached during the season?		What was	
		1: Yes 2: No	Area	%
	Bollworms	1. Spotted bollworm	1 2	a b g
		2. Pink bollworm	1 2	a b g
		3. Heliothis	1 2	a b g
		4. Prodenia	1 2	a b g
	Sucking pests	5. Aphid	1 2	a b g
		6. Jassid	1 2	a b g
		7. Thrips	1 2	a b g
		8. White fly	1 2	a b g
		9. Milibag	1 2	a b g
	Disease	10. Wilt	1 2	a b g
		11. Root Rot	1 2	a b g
		12. Bacterial Blight	1 2	a b g
		13. Leaf Spot	1 2	a b g
	Others	14. Other 1	1 2	a b g
		17. Not any	1	a b g
C1.6	Do you treat your soil before planting?	YES		1
		NO		2
C1.7	How did you treat your soil last Kharif? (CIRCLE ALL THAT APPLY) (1 = Yes, 2 = No)	Added organic manure	1 2	→C1.9
		Cleaned the soil from last harvest	1 2	
		Ploughing/Furrowing/Pulverizing	1 2	
		Leveling the soil as per crop	1 2	
		Other (specify)	888	
C1.9	Did you irrigate your cotton crop last Kharif?	YES		1
		NO		2
C1.10	How many times did you irrigate your cotton crop last Kharif?			→C1.12
C1.11	What was the cost per irrigation or total cost of irrigation for last Kharif?	TOTAL COST	Rs.	
		COST PER IRRIGATION	Rs.	
		DIESEL/KEROSENE	Rs.	
		ELECTRICITY BILL	Rs.	

INTERVIEWER READOUT: NOW, WE WILL ASK YOU DETAILED QUESTIONS ABOUT YOUR FARMING PRACTICES, FROM SEED TO FERTILIZER TO PESTICIDE USAGE.

S1. Seeds				
S1.1	What was the most important factor in determining which seed you used? (CIRCLE ONLY ONE)	Low Price		1
		Pest Resistance		2
		Safe Yield		3
		High Yield		4
		Few Input Requirements		5
		Water requirements		6
		What farmer friends use		7
		Availability		8
		Soil fertility		9
		General advice (specify source)		10
		Other (specify)		888
		Don't know		999
S1.3	Did you solicit or receive any advice on seeds related to cotton?	YES		1
		NO		2
S1.4	Who or what were the TWO most important sources? (USE SOURCE CODE- DO NOT PROMPT)	FIRST		
		SECOND		

S1.5	Did you purchase cotton seeds last Kharif or reuse old seeds?	PURCHASE		1	→\$1.7																																																																																																																													
		REUSE		2																																																																																																																														
		BOTH		3																																																																																																																														
S1.6	Which seeds have you purchased and/or used for cotton in last Kharif 2012?	<table border="1"> <thead> <tr> <th colspan="4">Purchase</th> <th colspan="4">Used</th> </tr> <tr> <th>Yes/No</th> <th>Quantity Purchased</th> <th colspan="2">Unit</th> <th>Total cost (Rs.)</th> <th>Yes/No</th> <th>(1)Hybrid/ Bt (2) Desi</th> <th>Quantity Used</th> <th>Unit</th> </tr> <tr> <th></th> <th></th> <th>(1) Kg (2) gm (3) packets</th> <th>If packets then Size of Packets in kg</th> <th></th> <th></th> <th></th> <th>(1) Kg (2) gm (3) packets</th> <th>If packets then Size of Packets in kg</th> </tr> </thead> <tbody> <tr><td>1. Vikram</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>2. Rasi</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>3. Ajit</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>4. Navbharat</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>5. Tulsi</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>6. Ankur</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>7. Nath</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>9. Ganga Kaveri</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>11. Other1 (Specify)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>12. Other2 (Specify)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>13. Other3 (Specify)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>				Purchase				Used				Yes/No	Quantity Purchased	Unit		Total cost (Rs.)	Yes/No	(1)Hybrid/ Bt (2) Desi	Quantity Used	Unit			(1) Kg (2) gm (3) packets	If packets then Size of Packets in kg				(1) Kg (2) gm (3) packets	If packets then Size of Packets in kg	1. Vikram									2. Rasi									3. Ajit									4. Navbharat									5. Tulsi									6. Ankur									7. Nath									9. Ganga Kaveri									11. Other1 (Specify)									12. Other2 (Specify)									13. Other3 (Specify)								
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S1.9	Did you treat your seeds before planting?	YES		1	→\$1.11																																																																																																																													
		NO		2																																																																																																																														
S1.10	How did you treat your seeds? (INTERVIEWER NOTE: MULTIPLE ANSWERS POSSIBLE AND USE THE CODE SHEET)	Option	Yes/ No	Specify																																																																																																																														
		A. FUNGICIDES	1 2																																																																																																																															
		B. PESTICIDES	1 2																																																																																																																															
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		D1.	1 2																																																																																																																															
		D2.	1 2																																																																																																																															
S1.11	At what depth did you sow the cotton seeds? (INTERVIEWER: Measure using a ruler.)			CMS																																																																																																																														
				INCHES																																																																																																																														
		DON'T KNOW		999																																																																																																																														
S1.12	What was the spacing between the seeds in the same row? (INTERVIEWER: Measure using a ruler.)			CMS																																																																																																																														
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		DON'T KNOW		999																																																																																																																														

F1. Fertilizers						
NOW WE WILL ASK YOU QUESTIONS ABOUT YOUR FERTILIZER USAGE IN THE LAST KHARIF. Remember these questions only pertain to your cotton crop.						
F1.0	Did you solicit or receive any advice regarding fertilizer last Kharif?	YES		1	→F1.2	
		NO		2		
F1.1	Who or what were the TWO most important sources? (USE SOURCE CODE- DO NOT PROMPT)	FIRST				
		SECOND				
F1.2	Did you use fertilizers last Kharif with your cotton crop?	YES		1	→F1.4	
		NO		2		
F1.3	Why did you not use fertilizer?	Wrong time in crop phase		1 2	→ P1	
		Too expensive		1 2	→ P1	
		Not useful		1 2	→ P1	
		Not available		1 2	→ P1	
		Bad experience		1 2	→ P1	
		Don't know how		1 2	→ P1	
		Other (specify)		888	→ P1	
F1.7	Did you purchase fertilizers or reuse from the previous year?	PURCHASE		1	→F1.10	
		REUSE		2		
		BOTH		3		
F1.8	Which chemical fertilizers did you purchase and use for your cotton crop? In what quantities?	Purchase?	Amount	Used?	Cost (Rs.)	If bags, then size of bags in kilos
		Yes = 1 YES = 1 NO = 2	1. liter 2. kg 3. No. of bags	1. liter 2. kg 3. No. of bags	1. Cost/unit 2. Total	
	A. Urea	1 2	1. 2. 3.	1. 2. 3.	1. 2.	
	B. Ammonium Sulfate	1 2	1. 2. 3.	1. 2. 3.	1. 2.	
	C. DAP	1 2	1. 2. 3.	1. 2. 3.	1. 2.	
	D. Murate of Potash (MoP)	1 2	1. 2. 3.	1. 2. 3.	1. 2.	
	E. N-P-K grade fertilizers	1 2	1. 2. 3.	1. 2. 3.	1. 2.	
	E1.		1. 2. 3.	1. 2. 3.	1. 2.	

	E2.		1. 3.	2.	1. 2. 3.	1. 2.	
	F. Micronutrient Fertilizer	1 2	1. 3.	2.	1. 2. 3.	1. 2.	
	F1.		1. 3.	2.	1. 2. 3.	1. 2.	
	F2.		1. 3.	2.	1. 2. 3.	1. 2.	
	G. OTHER (specify)						
	G1.	1 2	1. 3.	2.	1. 2. 3.	1. 2.	
	G2.	1 2	1. 3.	2.	1. 2. 3.	1. 2.	
F1.10	What were the labour costs for the application of chemical fertilizer? (INTERVIEWER: Remind the respondent to consider multiple applications.)	Number of Applications: Household labour _____ Total Labour Days Hired Labour _____ Total Labour Days _____ Daily wage _____ Total Labour Cost					
F1.11	Did you use any organic fertilizers on your cotton crop last Kharif?	Yes _____ 1 No _____ 2 →P1					
F1.12	Which organic fertilizers did you purchase and use for your cotton crop? In what quantities?	Purchase? Yes = 1 No =2	Amount 1. Trolley 2. Kgs	Used? 1. Trolley 2. Kgs	Cost (Rs.) 1. Cost/unit 2. Total	Size of trolley in kilos	
	A. Manure /Compost/FYM	1 2	1. 2.	1. 2.	1. 2.		
	B. Biofertilizer	1 2	1. 2.	1. 2.	1. 2.		
	C. Vermicompost	1 2	1. 2.	1. 2.	1. 2.		
	D. Cake (Castor cake)	1 2	1. 2.	1. 2.	1. 2.		
	E. OTHER (specify)						
	E1.	1 2	1. 2.	1. 2.	1. 2.		
	E2.	1 2	1. 2.	1. 2.	1. 2.		
F1.13	What was the labour costs for the application of organic fertilizer for cotton? (INTERVIEWER: Remind the respondent to consider multiple applications.)	Number of applications: Household labour _____ Total Labour Days Hired Labour _____ Total Labour Days _____ Daily wage _____ Total Labour Cost Tractor/Bullock _____ Total Cost _____ Total hours or vigha _____ Rs/hr or rs/vigha					

P1. Pesticides and Diseases					
NOW, WE WILL ASK YOU SIMILAR QUESTIONS REGARDING YOUR PESTICIDE USAGE.					
P1.0	Did you solicit or receive any advice on pesticides for cotton during Kharif 2010?	YES _____ 1 NO _____ 2 →P1.2			
P1.1	Who or what were the TWO most important sources of advice? (USE SOURCE CODE- DO NOT PROMPT)	FIRST _____ SECOND _____			
P1.2	Did you use any pesticides with your cotton?	YES _____ 1 NO _____ 2 →P1.10			
INTERVIEWER CHECKPOINT: If respondent did not use any pesticides, only ask P1.10 and P1.10t					
P1.10t	What biological method have you used? (CIRCLE ALL THAT APPLY)	Used Yes/No	Quantity used	Unit 1. Nos 2. Kg 3. Lit 4. Bag	Size of bags in kilos
	A. Installation of pheromone trap	1 2			
	B. Release of Chrysoperla	1 2			
	C. Spraying of Neem form or Neem seed kernel suspension	1 2			

	D. Release of Trichogramma	1	2			
	E. Spraying of HNPV/SNPV	1	2			
	F. Use of Tricoderma	1	2			
	G. Installation of Sticky cards (yellow/blue)	1	2			
	H. Other (Specify)					
	H1.	1	2			
	H2.	1	2			
P1.11	What was the TOTAL labour costs for the application of pesticides and fungicides last Kharif? (INTERVIEWER: Remind respondent of multiple applications, and for all listed bollworms, sucking pests and diseases.)	Number of applications:				
		Household labour				
						Total labour days
		Hired Labour				
						Total labour days
						Daily wage
						Total labour cost

P1.71	Which pesticides have you purchased and/or used in last Kharif 2012											
	Purchase				Used			Purpose		Application		
	Yes/No	Quantity	Unit (1)Lit (2)ml (3)Kg (4)gm (5)bags (Size in	Total cost (Rs.)	Yes/No	Total Quantity Used	Unit (1)Lit (2)ml (3)Kg (4)gm (5)bags (Size in	Did you purchase this pesticide to treat : 1 All pests 2. Specific pest	If it was a specific pest, which one was it? (Use Code)	No. of Application s	Area of Applicatio n	Unit of area 1. Acre 2. Bigha 3. Guntha
1. Endosulphan	Y N				Y N			1 2				
2. Quinalphos	Y N				Y N			1 2				
3. Monocrotophos	Y N				Y N			1 2				
4. Cypermethrin	Y N				Y N			1 2				
5. Chlorpyrithos	Y N				Y N			1 2				
6. Phosphamidon	Y N				Y N			1 2				
7. Dimethoate	Y N				Y N			1 2				
8. Imidachloprid	Y N				Y N			1 2				
9. Acetamaprid	Y N				Y N			1 2				
10. Acephat	Y N				Y N			1 2				
11. Dicofo	Y N				Y N			1 2				
12. Bumflower	Y N				Y N			1 2				
13. Thiamethoxam	Y N				Y N			1 2				
14. Profenofos	Y N				Y N			1 2				
15. Fenvalrate	Y N				Y N			1 2				
16. Mancozeb	Y N				Y N			1 2				
17. Carbendazim	Y N				Y N			1 2				
18. Planofix	Y N				Y N			1 2				
19. Triazophos	Y N				Y N			1 2				
20. Other 1	Y N				Y N			1 2				

Codes for Purpose															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	888
Spotted bollworm	Pink bollworm	Heliothis	Prodenia	Aphid	Jassid	Thrips	White fly	Milibag	Wilt	Ro ot	Bacteri al	Leaf Spot	All boll worms	All sucking	Other

999
Don't know

SECTION C2: AGRICULTURAL PRACTICES- WHEAT

INTERVIEWER NOTE: Do not mention Avaaj Otalo by name in these sections as an option.

INTERVIEWER READOUT: Now we will ask you about your practices related to Wheat for last Rabi.

C2. WHEAT (General)						
C2.1	Do you solicit or receive any advice on planting of wheat?	YES		1		
		NO		2 → C2.3		
C2.2	Who or what were the TWO most important sources? (USE SOURCE CODE- DO NOT PROMPT)	FIRST				
		SECOND				
C2.3	Did you plant Wheat last Rabi?	YES		1		
		NO		2 → C3		
C2.5	What was the total area you planted?			ACRE		
				BIGHA		
				GUNTHA		
		INTERVIEWER CHECKPOINT: For quantity planted use same unit as in C2.5				
C2.5x	When did you plant wheat last Rabi?	1st Planting (ww/mm) :	Qty:			
		2nd Planting (ww/mm) :	Qty:			
		3rd Planting (ww/mm) :	Qty:			
C2.51	Total crop loss due to weather, pests etc..			ACRE		
				BIGHA		
				GUNTHA		
				Percentage		
C2.51a	Which pests afflicted wheat and what was the maximum area of infestation?			What was the maximum area of infestation during the Kharif and Rabi? Area or % of cotton planted		
			1: Yes 2: No	Area %		
		Worms	1. Termite	1 2	a b g	
			2. Stem borer	1 2	a b g	
			3. Cut worm	1 2	a b g	
		Sucking pests	4. Aphid	1 2	a b g	
			Disease	5. Stem Rust	1 2	a b g
				6. Seedling Blight	1 2	a b g
				7. Bacterial Blight	1 2	a b g
			8. Loose Smut	1 2	a b g	
			9. Black seed Spot	1 2	a b g	
		Others	10. Other 1	1 2	a b g	
11. Not any	1 2		a b g			
C2.6	Do you treat your soil before planting?	YES		1		
		NO		2 → C2.9		
C2.7	How did you treat your soil before planting of wheat? (CIRCLE ALL THAT APPLY)	Added organic manure		2		
		Cleaned the soil from last harvest		2		
		Ploughing/Furrowing/Pulverizing		2		
		Levelling the soil as per crop		2		
		Prepares Irrigation bed/furrows	1 2	2		
		Other (specify)		888		
C2.9	Have you grown Irrigated wheat or Un-irrigated wheat in last Rabi?	Irrigated Wheat		1		
		Un-irrigated Wheat		2 → S2		
C2.10	How many times did you irrigate your wheat crop last Rabi?					
C2.11	What was the cost per irrigation or total cost of irrigation for last Rabi?	TOTAL COST	Rs.			
		COST PER IRRIGATION	Rs.			
		DIESEL/KEROSENE	Rs.			
		ELECTRICITY BILL	Rs.			

INTERVIEWER READOUT: NOW, WE WILL ASK YOU DETAILED QUESTIONS ABOUT YOUR FARMING PRACTICES, FROM SEED TO FERTILIZER TO PESTICIDE USAGE.

S2. Seeds								
S2.1	What was the most important factor in determining which seed you used? (CIRCLE ONLY ONE)	Low Price		1				
		Pest Resistance		2				
		Safe Yield		3				
		High Yield		4				
		Few Input Requirements		5				
		Water requirements		6				
		What farmer friends use		7				
		Availability		8				
		Soil fertility		9				
		General advice (specify source)		10				
		Other (specify)		888				
	Don't know		999					
S2.3	Did you solicit or receive any advice on seeds last Rabi 2012?	YES		1				
		NO		2 → S2.5				
S2.4	Who or what were the TWO most important sources? (USE SOURCE CODE- DO NOT PROMPT)	FIRST						
		SECOND						
S2.5	Did you purchase wheat seeds last Rabi or reuse old seeds?	PURCHASE		1				
		REUSE		2				
		BOTH		3				
S2.6	Which seeds have you purchased and/or	Purchase			Used			
		Yes/No	Quantity Purchased	Unit (1) Kg If packets	Total cost (Rs.)	Yes/No	(1) Hybrid/B	Quantity Used

	used for wheat in last Rabi 2012?			(2) gm (3) packets	then Size of Packets in kg			t (2) Desi		(2) gm (3) packets	then Size of Packets in kg
	1. GW 496										
	2. GW 322										
	3. GW 173										
	4. GW 273										
	5. LOK 1										
	6. Sonalika										
	7. Tukda/Tukri										
	888. Other, (specify)										
S2.9	Did you treat your seeds before planting?	YES		1							
		NO		2		→S2.11					
S2.10	How did you treat your seeds? (INTERVIEWER NOTE: Find out exactly what names/brands respondent used.)	Option	Code	Specify							
		A. FUNGICIDES	1 2								
		B. PESTICIDES	1 2								
		C. BIOLOGICAL METHO	1 2								
		D. OTHER									
		D1.	1 2								
		D2.	1 2								
S2.11	In last Rabi, did you use the broadcasting method for planting or did you plant in rows?	Broadcasting		1		→F2					
		In rows		2							
		DON'T KNOW		999		→F2					
S2.12	What was the spacing between the rows? (INTERVIEWER: Measure using a ruler.)			CMS							
				FT							
				INCHES							
		DON'T KNOW		999							
F2. Fertilizers											
NOW WE WILL ASK YOU QUESTIONS ABOUT YOUR FERTILIZER USAGE IN THE LAST MONTH. Remember these questions only											
F2.0	Did you solicit or receive any advice regarding fertilizer last Rabi?	YES		1							
		NO		2		→F2.2					
F2.1	Who or what were the TWO most important sources? (USE SOURCE CODE- DO NOT PROMPT)	FIRST									
		SECOND									
F2.2	Did you use fertilizers last Rabi with your wheat crop?	YES		1		→F2.4					
		NO		2							
F2.3	Why did you not use fertilizer?	Wrong time in crop phase		1 2		→ P2					
		Too expensive		1 2		→ P2					
		Not useful		1 2		→ P2					
		Not available		1 2		→ P2					
		Bad experience		1 2		→ P2					
		Don't know how		1 2		→ P2					
		Other (specify)		888		→ P2					
F2.7	Did you purchase fertilizers or reuse from the previous year?	PURCHASE		1							
		REUSE		2		→F2.10					
		BOTH		3							
F2.8	Which chemical fertilizers did you purchase and use for your wheat crop? In what quantities?	Purchase? YES = 1 NO = 2	Amount 1. liter 2. kg 3. No. of bags	Used? 1. liter 2. kg 3. No. of bags	Cost (Rs.) 1. then size of bags in 2. Total kilos	If bags,					
	A. Urea	1 2	3.	1. 2. 3.	1. 2.						
	B. Ammonium Sulfate	1 2	3.	1. 2. 3.	1. 2.						
	C. DAP	1 2	3.	1. 2. 3.	1. 2.						
	D. Murate of Potash (MoP)	1 2	3.	1. 2. 3.	1. 2.						
	E. N-P-K grade fertilizers	1 2	3.	1. 2. 3.	1. 2.						
	E1.		3.	1. 2. 3.	1. 2.						
	E2.		3.	1. 2. 3.	1. 2.						
	F. Micronutrient Fertilizer	1 2	3.	1. 2. 3.	1. 2.						
	F1.		3.	1. 2. 3.	1. 2.						
	F2.		3.	1. 2. 3.	1. 2.						
	G. OTHER (specify)										
	G1.	1 2	3.	1. 2. 3.	1. 2.						
	G2.	1 2	3.	1. 2. 3.	1. 2.						
F2.10	What were the labour costs for the application of chemical fertilizer for wheat? (INTERVIEWER: Remind the respondent to consider multiple applications.)	Number of Applications:									
		Household labour									
		Total Labour Days									
		Hired Labour									
		Total Labour Days									
		Daily wage									
		Total Labour Cost									
F2.11	Did you use any organic fertilizers on your wheat crop last Rabi?	Yes		1							
		No		2		→P2					
F2.12	Which organic fertilizers did you purchase and use for your cotton crop? In what quantities?	Purchase? Yes = 1 No = 2	Amount 1. Trolley 2. Kgs	Used? 1. Trolley 2. Kgs	Cost (Rs.) 1.	Size of trolley in kgs					
	A. Manure /Compost/FYM	1 2	1. 2.	1. 2.	1. 2.						
	B. Biofertilizer	1 2	1. 2.	1. 2.	1. 2.						
	C. Vermicompost	1 2	1. 2.	1. 2.	1. 2.						

	D. Cake (Castor cake)	1 2	1. 2.	1. 2.	1. 2.	
	E. OTHER (specify)					
	E1.	1 2	1. 2.	1. 2.	1. 2.	
	E2.	1 2	1. 2.	1. 2.	1. 2.	
F2.13	What was the labour costs for the application of organic fertilizer for wheat? (INTERVIEWER: Remind the respondent to consider multiple applications.)	Number of applications:				
		Household labour				
						Total Labour Days
		Hired Labour				
						Total Labour Days
						Daily wage
						Total Labour Cost
		Tractor/Bullock				
						Total Cost
						Total hours or vigha
				Rs/hr or rs/vigha		
P2. Pesticides and Diseases						
NOW, WE WILL ASK YOU SIMILAR QUESTIONS REGARDING YOUR PESTICIDE USAGE.						
P2.0	Did you solicit or receive any advice on pesticides during Rabi 2012-13?	YES	1			
		NO	2		→P2.2	
P2.1	Who or what were the TWO most important sources of advice? (USE SOURCE CODE- DO NOT PROMPT)	FIRST				
		SECOND				
INTERVIEWER CHECKPOINT: If the respondent did not use any pesticides, only ask P2.9, P2.9t						
P2.9	Have you applied any bio-control methods to control pests or diseases Rabi 2012-13 for wheat?	YES	1		Area of infestation (1. %)	
		NO	2		→P2.10	
		DON'T KNOW		999		
P2.9t	What biological method have you used?	Used Yes/No	Quantity used	Unit	Total Cost	
	A. Installation of pheromone trap	1 2				
	B. Release of Chrysoperla	1 2				
	C. Spraying of Neem form or Neem seed kernel suspension	1 2				Size of bag in kilos
	D. Release of Trichogramma	1 2				
	E. Spraying of HNPV/SNPV	1 2				
	F. Use of Tricoderma	1 2				
	G. Installation of Sticky cards (yellow/blue)	1 2				
	H. Other (Specify)					
	H1.	1 2				
H2.	1 2					
P2.10	What was the TOTAL labour costs for the application of pesticides and fungicides last Kharif? (INTERVIEWER: Remind respondent of multiple applications, and all potential pests and diseases.)	Number of applications:				
		Household labour				
						Total labour days
		Hired Labour				
						Total labour days
				Daily wage		
				Total labour cost		

P2.71 Which pesticides have you purchased and/or used in last Rabi 2011

	Purchase				Used			Purpose		Application		
	Yes/No	Quantity	Unit	Total cost (Rs.)	Yes/No	Total Quantity Used	Unit	Did you purchase this pesticide to treat : 1 All pests 2.	If it was a specific pest, which one was it? (Use Code)	No. of Applications	Area of Application	Unit of area 1.Acre 2. Bigha 3. Guntha
			3. Kg 4. gm 5. bags (Size in kgs)				ml 3. Kg 4. gm 5. bags (Size in kgs)					
1. Endosulphan	Y N				Y N			1 2				
2. Quinalphos	Y N				Y N			1 2				
3. Monocrotophos	Y N				Y N			1 2				
6. Phosphamidon	Y N				Y N			1 2				
8. Imidachloprid	Y N				Y N			1 2				
10. Acephat	Y N				Y N			1 2				
15. Fenvalrate	Y N				Y N			1 2				
16. Mancozeb	Y N				Y N			1 2				
17. Carbendazim	Y N				Y N			1 2				
20. Other 1	Y N				Y N			1 2				
21. Other 2	Y N				Y N			1 2				
22. Other 3	Y N				Y N			1 2				

Codes for Purpose

1	2	3	4	5	6	7	8	888	999
Termite	Stem Borer	Cut Worm	Aphid	Stem Rust	Seedling Blight	Loose Smut	Black seed Spot	Other	Don't Know

P3. Pesticides and Diseases						
NOW, WE WILL ASK YOU SIMILAR QUESTIONS REGARDING YOUR PESTICIDE USAGE.						
P3.0	Did you solicit or receive any advice on pesticides during Rabi 2012-13 for cumin?	YES	1		→P3.2	
		NO	2			
P3.1	Who or what were the TWO most important sources of advice? (USE SOURCE CODE- DO NOT PROMPT)	FIRST				
		SECOND				
P3.2	Did you use any pesticides with your cumin?	YES	1		→P3.9	
		NO	2			
INTERVIEWER CHECKPOINT: If the respondent did not use any pesticides, only ask P3.9 and P3.9t						
P3.9	Have you applied any bio-control methods to control pests or diseases last month?	YES	1		→P3.10	
		NO	2			
		DON'T KNOW	999			
P3.9t	What biological method have you used? (CIRCLE ALL THAT APPLY)	Used Yes/No	Quantity used	Unit 1. Nos 2. Kg 3. Lit 4. Bag	Total Cost (Rs)	Size of bags in kilos
	A. Installation of pheromone trap	1 2				
	B. Release of Chrysoperla	1 2				
	C. Spraying of Neem form or Neem seed kernel suspension	1 2				
	D. Release of Trichogramma	1 2				
	E. Spraying of HNPV/SNPV	1 2				
	F. Use of Tricoderma	1 2				
	G. Installation of Sticky cards (yellow/blue)	1 2				
	H. Other (Specify)					
	H1.	1 2				
	H2.	1 2				
	P3.10	What was the TOTAL labour costs for the application of pesticides and fungicides last Kharif?	Number of applications:			
		Household labour				
		Total labour days				
(INTERVIEWER: Remind respondent of multiple applications, and all potential pests and diseases.)		Hired Labour				
		Total labour days				
		Daily wage				
		Total labour cost				

P3.71 Which pesticides have you purchased and/or used in last Rabi 2012-13

Sl. No.	Which pesticides have you purchased and, if used in last season?	Purchase				Used				Purpose		Application		
		Yes/No	Quantity	Unit	Total cost (Rs.)	Yes/No	Total Quantity Used	Unit	Did you purchase this pesticide to treat : All pests 2.	If it was a specific pest, which one was it? (Use Code)	No. of Applications	Area of Application	Unit of area 1. Acre 2. Bigha 3. Guntha	
				1. Lit 2. ml 3. Kg 4. gm 5. bags (Size in kgs)				1. Litre 2. ml 3. Kg 4. gm 5. bags (Size in kgs)						
3.	Monocrotophos	Y N				Y N			1 2					
6.	Phosphamidon	Y N				Y N			1 2					
7.	Dimethoate	Y N				Y N			1 2					
8.	Imidachloprid	Y N				Y N			1 2					
9.	Acetamaprid	Y N				Y N			1 2					
10.	Acephat	Y N				Y N			1 2					
13.	Thiamethoxam	Y N				Y N			1 2					
16.	Mancozeb	Y N				Y N			1 2					
17.	Carbendazim	Y N				Y N			1 2					
20.	Sulphur	Y N				Y N			1 2					
21.	Other 1	Y N				Y N			1 2					
22.	Other 2	Y N				Y N			1 2					
23.	Hexaconazole	Y N				Y N			1 2					
24.	Fipronil	Y N				Y N			1 2					

Codes for Purpose

1	2	3	4	5	6	7	888	999
Aphid	Blight	Powdery Mildew	Wilt	Thrips	White fly	Jassids	Other	Don't know

Section N: Household Consumption

	Category	value of consumption (Rs) during	
		last 30 days	last year
Food Consumption			
N1.1	cereals & cereal products (includes muri, chira, maida, suji, noodles, bread (bakery), barley, cereal substitutes, etc.) ; pulses & pulse products (includes soyabean, gram products, besan, sattu, etc.); edible oil and vanaspati; sugar (includes gur, candy (misri), honey, etc.); salt & spices and other food items (includes beverages such as tea, coffee, fruit juice and processed food such as biscuits, cake, pickles, sauce, cooked meals, dry chillies, curry powder, etc.)		
N1.2	milk and milk products (includes milk condensed/powder, baby food, ghee, butter, ice-cream, etc.)		
N1.3	vegetables, fruits & nuts (includes garlic, ginger, mango, banana, coconut, dates, kishmish, monacca, other dry fruits , etc.)		



value of consumption (Rs) during	
last 30 days	last year

Entertainment			
N2.1	pan & tobacco		
N2.2	Eating out (hotels, restaurants)		
N2.3	entertainment (includes cinema, picnic, sports, club fees, video cassettes, cable charges, etc.)		
N2.4	Social functions (marraiges, funerals, gifts, jewelry)		
N2.5	Mobile phone costs (phone, recharge, etc.)		



N10	TOTAL		
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KP. Pesticide Knowledge and Perception

KP1.1	Does Monocrotophos leave "lushness" (kunap) on leaves?	1	2	
KP1.2	Do pesticides other than mono leave lushness (kunap) on leaves?	1	2	
KP1.3	Do you always mix two or more pesticides together?	1	2	
KP1.4	Can pesticides help cotton grow even when there is no pest infestation all season?	1	2	
KP1.5	In general, do shinier leaves mean that the plant is healthier?	1	2	
KP1.6	Sometimes, pesticide leaves immediate shine on leaves. Does this mean that the cotton is healthier?	1	2	
KP1.7	Even if pesticide kunap had no benefit to growth other than making the leaves shiny, would you still like to apply it on cotton?	1	2	
KP1.8	Is Monocrotophos effective against Bt cotton pests in the first 20 days of sowing cotton?	1	2	
KP1.9	Is Monocrotophos effective against Bt cotton pests after first 20 days of sowing Bt cotton?	1	2	
KP1.10	Based on UID, pick group respondent is in (C or D) and record here:			
C (KP1.10, KP1.11)	Suppose you spray a pesticide other than mono on a bigha of cotton plot and sufficiently control for pests all season. Under usual weather conditions and prices, what would be your expected yield from this cotton plot (in man), if you applied Monocrotophos?			
	Suppose you spray a pesticide other than mono on a bigha of cotton plot and sufficiently control for pests all season. Under usual weather conditions and prices, what would be your expected yield from this cotton plot (in man), if you did not apply any pesticide?			
D (KP1.11, KP1.10)	Suppose you spray a pesticide other than mono on a bigha of cotton plot and sufficiently control for pests all season. Under usual weather conditions and prices, what would be your expected yield from this cotton plot (in man), if you did not apply any pesticide?			
	Suppose you spray a pesticide other than mono on a bigha of cotton plot and sufficiently control for pests all season. Under usual weather conditions and prices, what would be your expected yield from this cotton plot (in man), if you applied Monocrotophos?			

KP2.1	Have you grown vegetables in the last Kharif?	1	
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KP2.1	Have you grown vegetables in the last Kharif?	2	->KP3.1
KP2.2	What is the area of the vegetables planted this last Kharif?		
KP2.3	Units for area: 1 acre 2 bigha 3 guntha	1 2 3	
KP2.4	Did you use pesticides for vegetables?	1	
		2	->KP2.8
KP2.5	Did you use monocrotophos for vegetables?	1	
		2	->KP2.8
KP2.6	How much monocrotophos did you use for vegetables?		
KP2.7	Unit. 1. L 2. ml 3. Kg 4. gm	1 2 3 4	
KP2.8	How would you rate how well suited your soil type is for growing vegetables, 1 being of very badly suited, 5 being very well suited?	1 2 3 4 5	
KP2.9	How would you rate how well watered your soil is for growing vegetables in general, 1 being of very badly suited, 5 being very well suited?	1 2 3 4 5	
KP2.10	What is the soil type for your vegetable plot?		

Note: This section asks about guar gum seeds from the last Kharif season

KP3.1	Have you grown guar gum in the last Kharif season?	1	
		2	-> go to IH
KP3.2	What is the area of guar gum seeds planted?		
KP3.3	Units: 1. L 2. ml 3. Kg 4. gm	1 2 3	
KP3.4	Total quantity of guar gum seeds harvested last Kharif season?		
KP3.5	Units: 1 - kg 2 - maund	1 2	
KP3.6	How much did you receive for the guar gum seeds?	Rs.	
KP3.7	Did you use pesticides for guar gum?	1	
		2	->KP3.9
KP3.8	Did you use monocrotophos for guar gum?	1	
		2	->KP3.9
KP3.9	How much monocrotophos did you use for guar gum?		
KP3.10	Units: 1. L 2. ml 3. Kg 4. gm	1 2 3 4	
KP3.11	How would you rate how well suited your soil type is for growing guar gum seeds, 1 being of very badly suited, 5 being very well suited?	1 2 3 4 5	
KP3.12	How would you rate how well watered your plot is for growing guar gum seeds, 1 being of very badly suited, 5 being very well suited?	1 2 3 4 5	
KP3.13	What is the soil type for your guar plot?		

IH: Land Ownership & Inheritances Section

B1.1	How much land do you own in total (this includes agricultural land as well as all other	Area	Unit						
		a	b	g					
B1.2	Do you presently own any cultivable land?	1							
		2		> SKIP to IH1					
B1.2a	If yes, then how many plots and what is the area?	No of plots	Area	Unit					
			a	b g					
IH1	Did your father or does your father own any cultivable land?	1							
		2		> END SECTION					
IH2	Did you inherit any land from your father?	1		> SKIP to IH4					
		2							
IH3	Did your father inherit any land from your grandfather?	1							
		2		> SKIP to IH12					
Ask about FATHER if IH2 is YES(1); Ask about GRANDFATHER is IH3 is YES(1)									
IH4	Father's Name or Grandfather's Name								
IH5	What was your father's or grandfather's occupation? (Primary source of income)	Record Code [], 888, 999							
IH6	How many years of education did your father or grandfather complete?	Record Code [], 888, 999							
IH7	How much land did your father or grandfather own prior to it being split up for inheritance?	a b g, 888, 999							
IH8	How much land did you inherit from your father or grandfather?	a b g, 888, 999							
IH9	How old were you or your father when you inherited this land?	Record Age [], 888, 999							
IH10	What was the reason for inheritance? Death of father or grandfather, marriage, old age of father or grandfather?	Death of father/grandfather		1					
		Marriage		2					
		Old age of father		3					
		Other (Specify)		888					
		Don't know		999					
Interviewer Checkpoint: Ask questions about all siblings of the household head both male and female in order of birth (oldest sibling to youngest). If deceased prior to collecting inheritance, skip E-I									
IH11	Detail of household respondent's or father's siblings								
Birth Order	Name of sibling or father's sibling (listed from first born to last born) [A]	Sex [B]	Deceased prior to collecting inheritance? [C]	Age (If alive record current age, if deceased)	Land Inherited (Acre/Vigha) [E]	Non-Land Assets Inherited	Land Now (Acre/Vigha) [G]	Occupation ** [H]	Phone Number [I]
1st born			Y N						
2nd born			Y N						
3rd born			Y N						
4th born			Y N						
5th born			Y N						
6th born			Y N						

7th born			Y	N					
8th born			Y	N					
9th born			Y	N					
10th born			Y	N					
* Farmer-Own Cultivatjojn (F) Agricultural Laborer (L), Business (B), Non-Farm Labor (NF), Migrant (M) , Other (Specify(
IH11.1	If siblings inherited different amounts of land, what was the reason? (Record verbatim answer)								
Inheritance Practices									
IH12	What is your understanding of how land is divided among family when the father passes away? (If respondent has not inherited himself, then ask in general)	Both brothers and sisters get equal share		1					
		Land is divided equally among brothers, sisters do not receive land		2					
		Older brother gets more		3					
		Mother inherits the land		4					
		No standard rule, depends on circumstances		5					
		Do not know		999					
		Will not say		777					
		Other(Specify)		888					
IH13	Did everyone inherit similar quality land or did some receive better quality than others? (If respondent has not inherited himself, then ask in general)	Similar		1					
		Different		2					
		Do not know		999					
		Will not say		777					
		Other(Specify)		888					
IH14	If one brother is more educated or has a better job, will he inherited less land than other brothers? (If respondent has not inherited himself, then ask in general)	Yes		1					
		No		2					
		Do not know		999					
		Will not say		777					
		Other(Specify)		888					
IH15	Other than land, what was the most valuable asset that was split up for your inheritance? (If respondent has not inherited himself, then ask in general)	Jewellery		1					
		Cattle		2					
		House		999					
		Cars / Trucks		777					
		Other(Specify)		888					

IH16	What are the ways in which you acquired land?	Type	Amount	Unit		
		Government scheme		a	b	g
		Inheritance		a	b	g
		New Purchase		a	b	g
		Gift		a	b	g
		Through marriage		a	b	g
		Other (Specify)		a	b	g

I, _____, CERTIFY THAT I HAVE RECEIVED A TOP-UP OF 50 RS. FOR PARTICIPATING IN THE AGRICULTURAL INFORMATION SURVEY WITH CMF-DSC-SAJJATA SANGH.

DATE:

INTERVIEWER NOTE: RECORD THE TOP-UP SERIAL NUMBER: _____

THANK THE FARMER FOR HIS TIME AND PARTICIPATION.

Plot Status Key	
1	own plot, cultivated by self
2	own plot, cultivated with other
3	own plot, rented out
4	own plot, pawned, cultivated by self
5	own plot, pawned, cultivated by other
6	Plot rented in
7	Plot sharecropped
8	Plot pawned in, cultivated by self
9	Plot pawned in, cultivated by other
10	Own plot - fallow
11	Plot rented in/pawned in but kept fallow
12	Returned back to the landlord
888	Other (specify)
999	Don't know

A0.7 CODE	
SPOUSE / PARTNER	1
SON / DAUGHTER	2
SON-IN-LAW / DAUGHTER-IN-LAW	3
STEPSON / STEPDAUGHTER	4
GRANDCHILD	5
BROTHER / SISTER	6
BROTHER-IN-LAW / SISTER-IN- LAW	7
FATHER / MOTHER	8
FATHER-IN-LAW / MOTHER-IN-LAW	9
OTHER FAMILY (SPECIFY)	10
OTHER (SPECIFY)	888

FREQUENCY CODE	
Once a week	1
Twice a week	2
More than twice a week	3
Once a month	4
Twice a month	5
More than twice a month	6
Less than twice a month	7
Once a season	8
Never (did not meet)	9

SOURCE CODE	
Past experience	1
TV program	2
Doordarshan/ Krushi Darshan/	2a
ETV/VTV	2b
Advertisements	2c
Cell phone based information	3
Avaaj Otalo	3a
Newspaper / magazines	4
Divya Bhaskar Sandesh	4a
Gujarat Sandesh	4b
Krushi Jivan	4c
Government Extension Worker	5
NGO	6
Agakhan	6a
Krushi Vikas Rath	6b
Other farmers	7
Agro Shop	8
Trader/Commission Agent	9
Radio (also include Gam no Choro)	10
Krushi Mela	11
Others	888
Don't Know	999

PESTICIDE CODE		
Technical	Code	Brand Names
Endosulphan	1	Thiodan, Endocel, Devi Sulphan, Endovip, Camando, Endostar, Tufan, Endo
Quinalphos	2	Ikalux, Quinal, flesh, Smesh, Shakti, Sukvin, Quingaurd, Chemilux, Qufos
Monocrotophos	3	Nuvacron, Balvan, Hilkon, Mono, Monofos, Sufos, Foskil, Croton, Paver, Bilfos
Cypermethrin	4	Simbush, Cyperkill, Cyper, Ustad, lacer, Trophy, Kolt, Ripcord, Bullet
Chlorpyrifos	5	Darsban, Koroban, Ruban, Trishul, Radar, Suban, Katar, Classic, Kaman
Phosphamidon	6	Dimecron, Sumidon, Agromidon, Umecon, Sildan, Fosful
Dimethoate	7	Roger, Tagor, Tara-909, Saygo, Agromet, Devigor, Topogar
Imidachloprid	8	Confidor, Jumbo, TataMida, Imidagold, Medea, Josh, Imida, Sumida, Imitex
Acetamaprid	9	Pride, Ekka, Polar, Tata Manik, Reward, Pashion, Takil, Airbon
Acephat	10	Temron, Megastar, Target, Delthen, Dhanraj, Taskar
Dicofol	11	Kalthan, Fetal, Hexakel, Devikol
Bumflower	12	Bumflower, Flower, Flowergold

Thiamethoxam	13	Ektara, Kruzer, Reva, Renova, Spora
Profenofos	14	Kurakron, Karina, Kemkron, Provon, Solzer, Profos
Fenvalrate	15	Sumisidin, Fyter, Fenval, Fen, Golfen, Perifen, Lukon-20
Mancozeb	16	Dithan, Dithan-45, Menco, Dhanukem-45, Menco-75, Hilthem, Devizeb, Zebra
Carbendazim	17	Bavistin, Bengaurd, karbon, Hitastin, Benfil, Erest, Subiz, Derosal
Planofix	18	Planofix, Super fix, NAA
Triazophos	19	Hostathion, Ghatak, Visma, Kranti, Trizo, Tryfos
Other (Specify)	888	

Fertilizer Code		
Name of Fertilizer	Code	Other Names
Urea	A	Nitrogen, Sardar Urea
Ammonium Sulfate	B	Ammonia, Sulphate
DAP	C	Sardar Phos, Narmada Phos
Murate of Potash (MoP)	D	Potash, Pottassium Fertilizer
N-P-K grade Fertilizer	E	12-32-16, 19-19-19, 13-0-45, 20-20-20
Micronutrient Fertilizer	F	Zink, Magnesium, Micromix, Borex, HighZink, Boron
Other (Specify)	888	

Seed Code - Cotton		
Brand Name	Code	
Vikram	1	
Rasi	2	
Ajit	3	
Navbharat	4	
Tulsi	5	
Ankur	6	
Nath	7	
Prabhat	8	
Ganga kaveri	9	
Nuzeevidu	10	
Other (Specify)		888

Seed Code - Wheat	
Brand Name	Code
GW 496	W1
GW 322	W2
GW 173	W3
GW 273	W4
Lok 1	W5
Other (Specify)	888

Seed Code - Cumin	
Brand Name	
Gujarat Cumin 1	
Gujarat Cumin 2	
Gujarat Cumin 3	
Gujarat Cumin 4	
Rajasthan Cumin 2	
Other (Specify)	