Household ID: __*01_basicidentification* __ Interviewer name: _____ Date: _*01_basicidentification* _
Questionnaire type: R-R / R-W / R-M / R-S / W-M / W-S / W-C *01_basicidentification*

CSISA Household Survey Questionnaire 2010

Indicating corresponding data files (18/06/2013)

1 General household and farming information

1.1. Household identification

district (state)	*01_basicidentification*	block/VDC/US	
village name	*01_basicidentification*	village ID	*01_basicidentification*
household head name	*not included*	hh head father's name	*not included*
respondent's name	*not included*	respondent's relation with hh head	*not included*
hh head gender	male / female *01_basicidentification*	phone number	*not included*
address	*not included*		

1.2. Land units ***(02_land)***

local land unit (LU) followed by farmer	acre / decimal / bigha / katha /other_____(specify)
LU conversion rate	1 acre = _____LU

1.3. Farm size during 2009/10 and land usage arrangements ***(02_land)***

total cultivable area owned	[LU]			
area leased-in	[LU]		lease-in price per year [Rs/LU]	
area leased-out	[LU]		lease-out price per year [Rs/LU]	
area shared-in	[LU]		share arrangement, inputs [%]	
area shared-out	[LU]		share arrangement, outputs [%]	
total area under share	[LU]		number of farmers in share arrangement	
total area cultivated	[LU]			
area not cultivated in kharif	[LU]		due to	flooding - _____ (other reason)
area not cultivated in rabi	[LU]		due to	lack of water - _____ (other reason)

1.4. Details on crops cultivated

(a) crops cultivated- **rabi** 2009/10 ***(03_cropping pattern)***

crop, type	totl	irrgtd	area (LU) under			area (LU) by till			varieties grown		main product by variety		
(e.g. rice, basmati)	area (LU)	area[1] (LU)	inter-crop	DSR	hyb-rid	0 till	≤ 2 till	>2 till	name	area (LU)	yield (qtl/LU)	mrktd %	price (Rs/qtl)
									1.				
									2.				
									3.				
									4.				
									5.				
									1.				
									2.				
									3.				
									4.				
									1.				
									2.				
									3.				
									1.				
									2.				
									3.				
									1.				
									2.				
									3.				
									1.				
									2.				
									3.				
									1.				
									2.				
									3.				
									1.				
									2.				

[1] irrigated area: irrigated at least once during the crop season

(b) crops cultivated - **kharif** 2009 ***(03_cropping pattern)***

crop, type	totl	irgtd	area (LU) under			area (LU) by till			varieties grown		main product by variety		
(e.g. rice, basmti)	area (LU)	area[1] (LU)	inter-crop	DSR	hyb-rid	0 till	≤ 2 till	>2 till	name	area (LU)	yield (qtl/LU)	mrktd %	price (Rs/qtl)
									1.				
									2.				
									3.				
									4.				
									5.				
									1.				
									2.				
									3.				
									4.				
									1.				
									2.				
									3.				
									1.				
									2.				
									3.				
									1.				
									2.				
									3.				
									1.				
									2.				
									3.				
									1.				
									2.				
									3.				
									1.				
									2.				

[1] irrigated area: irrigated at least once during the crop season

(c) crops cultivated - **summer** 2009 ***(03_cropping pattern)***

crop, type (e.g. rice, summer)	totl area (LU)	irgtd area[1] (LU)	area (LU) under			area (LU) by till			varieties grown		main product by variety		
			inter-crop	DSR	hyb-rid	0 till	≤ 2 till	>2 till	name	area (LU)	yield (qtl/LU)	mrktd %	price (Rs/qtl)
									1.				
									2.				
									3.				
									1.				
									2.				
									3.				
									1.				
									2.				
									1.				
									2.				
									1.				
									2.				

[1] irrigated area: irrigated at least once during the crop season

1.5. Storage of grain produce ***(04_storage of grain produce)***

crop - type	major storage structure[1]	avg. duration of storage (weeks)	storage loss [%]	major cause of post harvest loss[2]
rice 1- _____				
rice 2- _____				
wheat				
maize - hybrids				
maize - OPVs				

[1] storage structure: 1-heaped inside room, 2- in sacks inside room, 3-in sacks outside the house, 4-built structures outside the house, 5-wooden box, 6-others (specify)

[2] causes of ph loss: 1-rhodents, 2-insect pests, 3-moisture, 4-fungus infestation, 5-others (specify)

1.6. Crop buyers ***(not included)***

crop - type	primary buyer				secondary buyer				
	type[1]	time[2]	dist. [km]	share [%]	type[1]	time[2]	dist. [km]	share [%]	price diff [%][3]
rice 1- _____									
rice 2- _____									
wheat									
maize - hybrids									
maize - OPVs									

[1] buyer type: 1-gov. mandi, 2-co-operative, 3-village trader, 4-district trader, 5-state trader

[2] average time (in weeks, <1, 1, 2 etc) difference between date of harvest and date of marketing.

[3] price difference is positive if the market price of secondary source > that of primary source. Negative otherwise.

1.7. Specify maximum & minimum yield obtained in farmers' field during last 5 years (2004/05 - 2009/10) **(05_variability in yield)**

crop	season	type	minimum yield		maximum yield		major reason behind yield variability[1]
			qty [qtl]	year	qty [qtl]	year	
rice							
rice							
wheat	rabi						
maize							
maize							

[1] reasons for variability: 1-cultivar selection; 2-adoption of particular tillage practice (specify) 3-weather; 4-pests, 5-input use difference; 6- others (specify); 7- don't know

1.8. Details of **rice** production during 2009/10 in the **largest plot** *(06_Crop production, inputs, labor on largest plot)*

		tillage type:	no. opertns	own?[2]	cost, 1 op [Rs/LU]
season (name)		no till	y / n		
largest plot size [LU]		manual		o – h	
crop type (boro, basmati)		draft animal		o – h	
variety (name)		2w tractor		o – h	
intercropped with crop, name		4w tract. w cultivator		o – h	
crop in previous season, name		4w tractor with disc		o – h	
residue of prev. crop, burnt	y / n	4w tract. w rotavator		o – h	
RCTs in this plot[1]		other:		o – h	

[1] 1-laser land leveller, 2-SSNM, 3-bed planting, 4-double-no till, 5-residue retention, 6-leaf colour charts, 7-none; [2] **o**wned – **h**ired

1.9. Input use in **rice** production during 2009/10 in the **largest plot** *(06_Crop production, inputs, labor on largest plot)*

	qty	price, cost (Rs)	/unit	
seeding type*			/LU	* seeding type: 1-manual broadcast, 2-seed drill (tractor), 3-PTOS, 4-drum seeder, 5-rotavator, 6-turbo-seeder, 7: transplanting.
seed rate [kg/LU]			/kg	
seed treatment	y / n		/event	
date of sowing [dd/mm]				
FYM use [qtl/LU]			/qtl	
other manures [qtl/LU]			/qtl	
fertilizers & growth reg.s (specify)				time of fertilizer applcn.
(a) urea [qtl/LU]			/qtl	before irrign/after irrign
(b) DAP [qtl/LU]			/qtl	before irrign/after irrign
(c) ..... [qtl/LU]			/qtl	before irrign/after irrign
(d) ..... [qtl/LU]			/qtl	before irrign/after irrign

1.9 Continues.. *(06_Crop production, inputs, labor on largest plot)*

herbicides (specify)					Any production constraint that is specific to this particular plot? ☐ poor soil nutrition ☐ soil borne diseases ☐ acidity/alkalinity ☐ poor germination ☐ high weed growth ☐ missing irrigation ☐ improper cultivars ☐ water-logging ☐ others_____
(a)	[l/LU]			/l	
(b)	[l/LU]			/l	
fungicides and insecticides (specify)					
(a)	[l/LU]			/l	
(b)	[l/LU]			/l	
(c)	[l/LU]			/l	
(d)	[l/LU]			/l	
date of harvest	[dd/mm]		type of harvest	man-comb	

1.10. Labour requirements for **rice** cropping **on largest plot (/LU)** *(06_Crop production, inputs, labor on largest plot)*

	number of operations	delayed due to labour unavailblty?	no. of days required/ 1 operation	no. of hired lab/day		no. of family lab/day	
				male	female	male	female
nursery preparation		y / n					
puddling & levelling		y / n					
transplanting		y / n					
seeding		y / n					
weeding		y / n					
irrigation		y / n					
fertilizer application		y / n					
pesticide application		y / n					
harvesting	1	y / n					
transport, threshing etc	1	y / n					

1.11. Details of **wheat** production during 2009/10 in the **largest plot** *(06_Crop production, inputs, labor on largest plot)*

		tillage type:	no. opertns	own?[2]	cost, 1 op [Rs/LU]
season (name)		no till	y / n		
largest plot size [LU]		manual		o – h	
		draft animal		o – h	
variety (name)		2w tractor		o – h	
intercropped with crop, name		4w tract. w cultivator		o – h	
crop in previous season, name		4w tractor with disc		o – h	
residue of prev. crop, burnt	y / n	4w tract. w rotavator		o – h	
RCTs in this plot[1]		other:		o – h	

[1] 1-laser land leveller, 2-SSNM, 3-bed planting, 4-double-no till, 5-residue retention, 6-leaf colour charts, 7-none; [2] **o**wned – **h**ired

1.12. Input use in **wheat** production during 2009/10 in the **largest plot** *(06_Crop production, inputs, labor on largest plot)*

	qty	**price, cost (Rs)**	**/unit**	
seeding type*			/LU	* seeding type: 1-manual broadcast, 2-seed drill (tractor), 3-PTOS, 4-drum seeder, 5-rotavator; 6-turbo-seeder; 7: transplanting
seed rate [kg/LU]			/kg	
seed treatment	y / n		/event	
date of sowing [dd/mm]				
FYM use [qtl/LU]			/qtl	
other manures [qtl/LU]			/qtl	
fertilizers & growth reg.s (specify)				time of fertilizer applcn.
(a) urea [qtl/LU]			/qtl	before irrign/after irrign
(b) DAP [qtl/LU]			/qtl	before irrign/after irrign
(c) ..... [qtl/LU]			/qtl	before irrign/after irrign
(d) ..... [qtl/LU]			/qtl	before irrign/after irrign
herbicides (specify)				
(a) ..... [l/LU]			/l	Any production constraint that is specific to this particular plot? ☐ poor soil nutrition ☐ soil borne diseases ☐ acidity/alkalinity ☐ poor germination ☐ high weed growth ☐ missing irrigation ☐ improper cultivars ☐ water-logging ☐ others_____
(b) ..... [l/LU]			/l	
fungicides and insecticides (specify)				
(a) ..... [l/LU]			/l	
(b) ..... [l/LU]			/l	
(c) ..... [l/LU]			/l	
(d) ..... [l/LU]			/l	
date of harvest [dd/mm]		type of harvest	man-comb	

1.13. Labour requirements for **wheat** cropping **on largest plot (/LU)** *(06_Crop production, inputs, labor on largest plot)*

	number of operations	delayed due to labour unavailblty?	no. of days required/ 1 operation	no. of hired lab/day		no. of family lab/day	
				male	female	male	female
plot preparation		y / n					
seeding	1	y / n					
weeding		y / n					
irrigation		y / n					
fertilizer application		y / n					
pesticide application		y / n					
harvesting	1	y / n					
transport, threshing etc	1	y / n					

1.14. Permanent on-farm labour *(07_permanent on-farm labour)*

permanent labourers on farm	[no.]	male		female	
salary	[Rs/month]	male		female	
region of origin of labourers		male		female	

1.15. Source of crop inputs *(08_source of crop inputs)*

		primary source			secondary source			comparison of sources		
		name/ type[1]	dist. [km]	shr [%]	name/ type[1]	dist. [km]	shr [%]	price diff [%][2]	better quality	more timely availability
fertilizers									prim/sec/=	prim/sec/=
pesticides									prim/sec/=	prim/sec/=
rice seed	OPV								prim/sec/=	prim/sec/=
	hybrid								prim/sec/=	prim/sec/=
wheat seed									prim/sec/=	prim/sec/=
maize seed	OPV								prim/sec/=	prim/sec/=
	hybrid								prim/sec/=	prim/sec/=
machinery repair									prim/sec/=	prim/sec/=

[1] source type: 1-government supply, 2-co-operative, 3-private dealer, village, 4-private dealer, district

[2] price difference is positive if the market price of secondary source > that of primary source; negative otherwise

1.16. Fertilizer availability during last year *(09_fertilizer availability)*

season	timely availability			quality[1]			purchased earlier and stored?		
	urea	DAP	potash	urea	DAP	potash	urea	DAP	potash
kharif	timely / late	timely / late	timely / late	g / m / b	g / m / b	g / m / b	y / n	y / n	y / n
rabi	timely / late	timely / late	timely / late	g / m / b	g / m / b	g / m / b	y / n	y / n	y / n
summer	timely / late	timely / late	timely / late	g / m / b	g / m / b	g / m / b	y / n	y / n	y / n

[1]: g-good, m-medium, b-bad

1.17. Use of crop residues ***(10_use of crop residues)***

[%]	crop name	rice		rice		wheat		maize		maize	
	crop type[1]										
	harvest mode	comb	man	comb	man	comb	man	comb	man	comb	man
share of harvest mode (within crop)											
in field	left as mulch										
	stubble grazing										
	burnt										
taken away from field	sold										
	given as payment in kind										
	collected by others (free)										
taken home	for stall feeding										
	as household fuel										
	for roofing/construction										
other use											
total		100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

[1] crop type: rice: boro, basmati, coarse, aus, hybrid, etc.; maize: hybrid, OPV, fodder etc.

1.18. Irrigation sources (share of irrigation water) ***(11_irrigation sources and other details)***

electric tube-well		diesel tubewell		canal	tank	river	
own	purch	own	purch				
%	%	%	%	%	%	%	%

1.19. Price of purchased water ***(11_irrigation sources and other details)***

	/unit	tube-well (purch)	canal	tank	river
price [Rs]					

1.20. Cost of water from own tube-well ***(11_irrigation sources and other details)***

	using electricity	using diesel powered generator
cost of irrigating (Rs)	/ (unit)	/ (unit)

1.21. Time taken to irrigate 1 LU of land using different sources ***(12_irrigation - time taken to irrigate)***

		tubew. own	tubew. purch	canal	tank	river
total time required to irrigate 1 LU of land **NOT** levelled by LLL (put "x" if all land is LLL-ed)	(a) rice					
	(b) wheat					
	(c) maize					
total time required to irrigate 1 LU of land levelled by LLL ("x"if no land is LLL-ed)	(a) rice					
	(b) wheat					
	(c) maize					
diameter of water outlet (inch)						

1.22. If the farmer owns tube-well (optional/hub specific) ***(11_irrigation sources and other details)***

number of operational tube-wells in farmer's owned land			
number of tube-wells used by farmer			
average horsepower of tube-wells	tw 1:	tw 2:	tw 3:
average depth (m) of tube-well	in 2010:	in 2005:	in 2000:
average depth (m) of water table	in 2010:	in 2005:	in 2000:
year of last act of well-deepening			
the tube-well depth increased in the last deepening (m)			
the total cost of well-deepening (Rs/event)			

1.23. If tube-wells (hired or owned) are used for irrigation (optional/hub specific) ***(11_irrigation sources and other details)***

	kharif	rabi	summer
number of hours water pumped in the season using electricity			
number of hours water pumped in the season using diesel generator			

2 Technology adoption and information

2.1. Adoption of technologies *(13_adoption of technologies)*

	usage				ownership			hiring	
	first year of use	last year of use	farm area last use [lu]	owned/ hired	year of recent purchase	maint. cost (Rs/y)[2]	price [Rs/unit]	charge [Rs]	unit
elect. submrsble pmp				o / h					
monoblk pump				o / h					
diesel pump				o / h					
diesel generator				o / h					
4-wheel tractor				o / h					
2-wheel tractor				o / h					
tine cultivator[1]				o / h					
disc harrow[1]				o / h					
rotavator[1]				o / h					
Seed-drill[1]				o / h					
mech transplanter				o / h					
PTOS				o / h					
turbo/happy seeder				o / h					
drum seeder				o / h					
laser land leveller				o / h					
mech. pestcide sprayr				o / h					
knapsack sprayer				o / h					
bed planter				o / h					
sugarcane/cotton/ potato planter				o / h					
thresher (power)				o / h					
thresher (pedal)				o / h					
combine harvester				o / h					
dehusker (maize)				o / h					
bhusa reaper				o / h					
fodder chopper				o / h					

[1]: hiring charges with the 4-wheel tractor;

[2]: elicit this only if used during 2009/10.

2.2. Familiarity and adoption of CA and associated technologies ***(14_adopton-familiarity ca technology)***

	fami-liarity[1]	if fmlr, main info sources[2]	main info source name[3]	contact freq. main source	info qual main source	if ever adopted: year of 1st use	if ever adopted: year of last use	if ever adopted: on largest plot?	use next year?	impact of technology on: irrig. use	impact of technology on: cost of cultvn	impact of technology on: yield	impact of technology on: profit	if familiar (>0), reasons for non-adoption or dis-adoption[6]
laser land levelling				w-m-q-n[4]	h-m-l-n[5]			y / n	y / n	↑ = ↓ni	↑ = ↓ni	↑ = ↓ni	↑ = ↓ni	
bed planting				w-m-q-n[3]	h-m-l-n[4]			y / n	y / n	↑ = ↓ni	↑ = ↓ni	↑ = ↓ni	↑ = ↓ni	
ZT wheat (no till!)				w-m-q-n[4]	h-m-l-n[5]			y / n	y / n	↑ = ↓ni	↑ = ↓ni	↑ = ↓ni	↑ = ↓ni	
happy/turbo seedr				w-m-q-n[3]	h-m-l-n[4]			y / n	y / n	↑ = ↓ni	↑ = ↓ni	↑ = ↓ni	↑ = ↓ni	
rotavator				w-m-q-n[3]	h-m-l-n[4]			y / n	y / n	↑ = ↓ni	↑ = ↓ni	↑ = ↓ni	↑ = ↓ni	
direct seeded rice				w-m-q-n[3]	h-m-l-n[4]			y / n	y / n	↑ = ↓ni	↑ = ↓ni	↑ = ↓ni	↑ = ↓ni	
double no-till				w-m-q-n[3]	h-m-l-n[4]			y / n	y / n	↑ = ↓ni	↑ = ↓ni	↑ = ↓ni	↑ = ↓ni	
hybrid rice				w-m-q-n[3]	h-m-l-n[4]			y / n	y / n	↑ = ↓ni	↑ = ↓ni	↑ = ↓ni	↑ = ↓ni	
hybrid maize				w-m-q-n[3]	h-m-l-n[4]			y / n	y / n	↑ = ↓ni	↑ = ↓ni	↑ = ↓ni	↑ = ↓ni	
quality prot. maize				w-m-q-n[3]	h-m-l-n[4]			y / n	y / n	↑ = ↓ni	↑ = ↓ni	↑ = ↓ni	↑ = ↓ni	
seed trtment/ priming				w-m-q-n[3]	h-m-l-n[4]			y / n	y / n	↑ = ↓ni	↑ = ↓ni	↑ = ↓ni	↑ = ↓ni	
leaf colour chart				w-m-q-n[3]	h-m-l-n[4]			y / n	y / n	↑ = ↓ni	↑ = ↓ni	↑ = ↓ni	↑ = ↓ni	
site spec nutr mgmt				w-m-q-n[3]	h-m-l-n[4]			y / n	y / n	↑ = ↓ni	↑ = ↓ni	↑ = ↓ni	↑ = ↓ni	
relay cropping				w-m-q-n[3]	h-m-l-n[4]			y / n	y / n	↑ = ↓ni	↑ = ↓ni	↑ = ↓ni	↑ = ↓ni	

[1] familiarity: 0-none, 1-heard, 2-seen, 3-adopted in own-field

[2] main information sources, type: 1-CSISA personnel or field days, 2-govt extension agents, 3-cooperative society, cooperative union or farmers' association, 4-NGOs, 5-private dealers, 6-exhibitions or melas, 7-mass media, 8-friends, neighbours or other farmers, 9-relatives or family members, 10-others (specify).

[3] list main information source name if type <7

[4] contact frequency with main information source: **w**eekly, **m**onthly, **q**uarterly, **n**ever

[5] information quality, main source: **h**igh, **m**edium, **l**ow, **n**ot useful at all

[6] disadoption happens if the last year of adoption is on or before 2006/07 in case of laser leveler and on or before 2009/10 in others. It is also disadoption, if the farmer adopted the technology in 2009/10, but is not planning to use it in the next year.

3 Livestock production

3.1. Livestock assets Livestock assets *(not included)*

	currently keeping			purchased last 12 months			sold last 12 months		
	adult anim.	growng anim.[1]	young anim.[2]	adult anim.	growng anim.[1]	young anim.[2]	adult anim.	growng anim.[1]	young anim.[2]
cow - local									
cow - crossbred									
cattle male, bullocks[3]									
buffalo, female									
buffalo, male[3]									
goat									
sheep									
pig									
poultry (local)									
poultry (commercial)									

1 growing animals (large ruminants): 6 months to 3 years; [2] young animals: up to 6 months; [3] for draft and breeding

3.2. Seasonal composition of daily feed ration for most common dairy animal (during milking period) *(not included)*

most common dairy animal in herd size group			local cow - crossbred cow- buffalo	
	feed name	kharif [kg/d]	rabi [kg/d]	summer [kg/d]
dry fodder				
green fodder[1] (incl. collected grasses, leaves, fodder trees etc.)				
concentrates				

[1] List **individual** green fodder types (not the mixture name). Also include the names of fodder trees.
If types are mixed during feeding, determine **separate** feed amounts of individual green fodders by their proportion in the mixture.

3.3. Share of straw/stover fed to animals in various forms (average over whole year) *(15_straw stover fed share in various forms)*

[% straw/stover fed]	rice	rice	wheat	maize	maize
crop type					
fed unchopped [%]					
fed chopped/cut, not mixed [%]					
fed chopped, mixed with water only [%]					
fed chopped, mixed w. water & concentrates [%]					
fed chopped, mixed with green fodder only [%]					
fed chopped, mixed w. _____ [%]					
total	100%	100%	100%	100%	100%

3.4. Breeding, reproduction & lactation characteristics of own animals *(16_breeding reproduction and lactation)*

dairy animal	AI [%]	impr. bull [%]	age of 1st calving [months]	calving interval [months]	lactation length [months]	avg milk yield [l/d]	max milk yield [l/d]	avg. life expectancy [y]
local cow								
crossbred cow								
buffalo								

3.5. Insemination and animal health services ***(not included)***

	insemination		animal health (visit)		
	AI	bull, impr.	stock assistant	private vet	gov. vet clinic
distance [km]					
cost [rs/unit]					
last used [months ago]					

3.6. Use of milk ***(not included)***

season	avg daily hh milk production [l/d]	use of produced milk			
		sold [%]	consumed as milk [%]	processed for home [%]	processed for sale [%]
kharif					
rabi					
summer					

[1] processed product: 2-curd; 3-cheese; 4-ghee; 5-butter; 6-sweets; 7-other (specify)

3.7. Details of two main buyers of milk or milk products ***(not included)***

	type of buyer[1]	main product [2]	price [Rs/l or kg]	product share [%]	place of sale [3]
buyer 1					
buyer 2					

[1] type of buyer: 1-milk vendor; 2-co-operative milk collection centre; 3-dairy society; 4-private milk collection centre; 5-industries; 6-shopkeepers; 7-consumers; 8-others (specify)

[2] main product: 1-milk; 2-curd; 3-cheese; 4-ghee; 5- butter; 6-sweets; 7-other (specify)

[3] place of sale: 1-at producer home; 2-in village; 3-at milk collection centre; 4-other (specify)

4 Credit use

4.1. Please indicate all credit taken during 2009-10 ***(17_credit use)***
(Include input credit and money borrowed from friends and relatives also)

source	amount [Rs]	repayment period [m]	interest [% p.a.]	credit used for (tick)				
				rice	wheat	maize	lvstck	others (specify)
comm. bank				☐	☐	☐	☐	
co-operative				☐	☐	☐	☐	
money lender				☐	☐	☐	☐	
other farmers				☐	☐	☐	☐	
_____				☐	☐	☐	☐	

4.2. If no credit was taken last year, what was the reason (tick relevant cell) ***(17_credit use)***:

I could manage farming without taking credit	☐	I am against the very idea of taking credit	☐
I was unable to gather credit for farm activities	☐		

5 General household information

5.1. Household head characteristics ***(18_general household information)***

gender	age [y]	years in school	primary occupation	primary place[1]	secondary occupation	secondary place[1]
m - f						

[1] 1-farm, 2- village, 3-district, 4-state, 5-India, 6-foreign country

5.2. Household member characteristics ***(18_general household information)***

[no. of hh members]	adults (>15y)		young (6-15y)		children (<6y)	
	Male	female	male	female	male	female
total in household						
working on farm (incl lvst.) full-time						
working on farm (incl lvst.) part-time						
schooling/studying						
working/ employment off-farm						
staying out of village (some time of year)						

5.3. Food security issues in your household during the past year ***(18_general household information)***

What is the frequency in the last year that you or any household member…	frequency[1]
worried that your household would **not have enough food**?	
were **not able to eat the kinds of foods** you wanted to eat because of lack of resources?	
had to eat a **limited variation (less types)** of foods because of lack of resources?	
did **not have enough food grains** to eat?	

[1] frequency: 0-never, 1-rarely, 2-sometimes, 3-often

5.4. Household access to assets ***(18_general household information)***

house with thatched roof	y / n	electricity	y / n
house with concrete floor	y / n	telephone – mobile (monthly exp.) [Rs]	
number of rooms in house		telephone - landline (monthly exp.) [Rs]	
piped drinking water	y / n	television	y / n
cooking gas	y / n	access to subsidised food (ration card)	y / n
open-well (privately owned)	y / n	BPL card	y / n
latrine	y / n		

5.5. Average monthly household expenditure and involvement in decisions ***(18_general household information)***

type	food	fuel & electr.	clothing & footwear	hh items (e.g. pots)	travel	educa-tion	medicine & health	cere-monies	
[Rs/month]									
involvemnt[1]	m - f- j	m - f- j	m - f- j	m - f- j	m - f- j	m - f- j	m - f- j	m - f- j	m - f- j

[1] involvement in expense decisions: **m**ale - **f**emale - **j**ointly

5.6. Contribution of various sources income to total household income[1] ***(18_general household information)***

source	remittances	business	service	non-ag labour	ag labour	other farm inc.	livestock	crops
share [%]								

[1]income = (value of sold + consumed products) - production costs

5.7. Indicate involvement of women in each of these decisions and activities ***(18_general household information)***

selecting crop varieties	full - partial - none	managing livestock feeding	full - partial - none
purchasing machinery	full - partial - none	managing milking	full - partial - none
adopting new crop technologies	full - partial - none	deciding on sale of milk	full - partial - none
employing labour in farm	full - partial - none	deciding on use of milk income	full - partial - none
selling of grains	full - partial - none	deciding on sale of livestock	full - partial - none
selling of crop residues	full - partial - none	deciding on use of dung as fuel	full - partial - none
using crop residues as feed	full - partial - none	deciding on lease/share of land	full - partial - none
deciding what to feed livestock	full - partial - none	deciding on sale of land	full - partial - none

5.8. Details about participation in any kind of group activities (co-ops, farmer groups etc) ***(18_general household information)***

group name	group size (no.)	activities*	hh members in group [no.]	since when one of the hh members first joined

* credit, input provision, machinery service, extension activities etc.

Thank you very much for your time and patience!

6 Extra pages for crop production inputs for maize/sugar-cane/cotton

6.1. Details of **maize/sugar-cane/cotton** production during 2009/10 in the **largest plot**

crop		tillage type:	no. opertns	own?[2]	cost, 1 op [Rs/LU]
season (name)		no till	y / n		
largest plot size [LU]		manual		o – h	
		draft animal		o – h	
variety (name)[1]		2w tractor		o – h	
intercropped with crop, name		4w tract. w cultivator		o – h	
crop in previous season, name		4w tractor with disc		o – h	
residue of prev. crop, burnt	y / n	4w tract. w rotavator		o – h	
RCTs in this plot		other:		o – h	

[1] in case of cotton, along with variety name also indicate whether it is Bt or non-Bt and if Bt, single or double. In case of maize, also indicate hybrid/OPV.

[2] **o**wned – **h**ired

6.2. Input use in **maize/sugar-cane/cotton** production during 2009/10 in the **largest plot**

	qty	**price, cost (Rs)**	**/unit**	
seeding type*			/LU	* seeding type: 1-manual broadcast, 2-seed drill (tractor), 3-PTOS, 4-drum seeder, 5-rotavator; 6-turbo-seeder; 7: transplanting 8: others_____
seed rate [kg/LU]			/kg	
seed treatment	y / n		/event	
date of sowing [dd/mm]				
FYM use [qtl/LU]			/qtl	
other manures [qtl/LU]			/qtl	
fertilizers & growth reg.s (specify)				time of fertilizer applcn.
(a) urea [qtl/LU]			/qtl	before irrign/after irrign
(b) DAP [qtl/LU]			/qtl	before irrign/after irrign
(c) ..... [qtl/LU]			/qtl	before irrign/after irrign
(d) ..... [qtl/LU]			/qtl	before irrign/after irrign
herbicides (specify)				
(a) ..... [l/LU]			/l	Any production constraint that is specific to this particular plot? ☐ poor soil nutrition ☐ soil borne diseases ☐ acidity/alkalinity ☐ poor germination ☐ high weed growth ☐ missing irrigation ☐ improper cultivars ☐ water-logging ☐ others_____
(b) ..... [l/LU]			/l	
fungicides and insecticides (specify)				
(a) ..... [l/LU]			/l	
(b) ..... [l/LU]			/l	
(c) ..... [l/LU]			/l	
(d) ..... [l/LU]			/l	
date of harvest [dd/mm]		type of harvest	man-comb	

6.3. Labour requirements for **maize/sugar-cane/cotton** cropping **on largest plot (/LU)**

	number of operations	delayed due to labour unavailblty?	no. of days required/ 1 operation	no. of hired lab/day		no. of family lab/day	
				male	female	male	female
plot preparation		y / n					
seeding	1	y / n					
weeding		y / n					
irrigation		y / n					
fertilizer application		y / n					
pesticide application		y / n					
harvesting	1	y / n					
transport, threshing etc	1	y / n					