

CODEBOOK SOCIAL NETWORKS AND BT COTTON

This is the codebook corresponding the Kanzara, Kinkhed and Aurepalle survey on social networks and Bt cotton. The Aurepalle questionnaire has a couple of additional questions compared to the Kanzara and Kinkhed questionnaires. Note that HHno 52, 235, 267, 310, 317 of Aurepalle permanently migrated from the village and hence were not interviewed. The data collection proceeded in two rounds, a main data collection phase (Jan-July 2008) and a data validation phase (Sept 2008-July 2009). The physical copy of the questionnaire of HHno 288 of Aurepalle and plot AA of Hhno 45 of Kanzara got lost during the data validation phase. The data was recovered in the former case but not in the latter.

Notes:

DK Don't know
9999 Don't know
7777 Missing value (forgotten on the field)

If two numbers are mentioned, separated by a dot or comma or -, when only whole numbers are allowed, both answers are valid.

In some cases the categories are not mutually exclusive; in practice, they were always interpreted as being mutually exclusive. For instance, 'agree' was interpreted as 'somewhat agree' if 'strongly agree' was an option as well

A. HOUSEHOLD QUESTIONNAIRE

I. Household Information

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
---	Household Number	hhno	A refers to Aurepalle, E refers to Kanzara, F refers to Kinkhed
1	New VLS Household Number	newvls	hhno – initial letter
2	Old VLS Household Number	oldvls	if missing value, household cannot be linked to first generation VLS
3	Village	vill	---
4	Respondent full name	rname	--- replaced by IDresp to indicate member ID of the respondent in publicly available dataset
5	Contact attempts	ca1 up to ca5	day/month/year
6	Full name household head	fullname	--- replaced by IDhead to indicate member ID of household head in publicly available dataset
8	Phone household	phone	---
9	E-mail household	e-mail	---
10	Full name field investigator	namefi	---
11	Was Annemie present at the interview?	annemie	yes 1 no 0
12	Was senior investigator present at the interview and name?	seninv	yes 1 no 0
12	Was senior investigator present at the interview and name?	seninvname	question dropped in STATA Mohan Rao for Aurepalle VK Chopde for Kanzara and Kinkhed
13	Date when data checked by field investigator	datedefi	day/month/year
14	Date checked by Annemie	datedca	day/month/year
15	Date when data entered in STATA	datestata	question dropped in STATA

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
---	Comments	comments	comments pertinent to questionnaire as a whole, noted down during the data validation round in November 2008
---	ID2001-ID2007	ID2001-ID2007	IDs of household in VLS-ICRISAT respective years, using the respondent as the linking member

II. Family Composition and Identity

Section A

I dropped the question on old member ID.

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
---	Household number	hhno	A refers to Aurepalle, E refers to Kanzara, F refers to Kinkhed
---	New VLS Household Number	newvls	hhno – initial letter
---	Member number created by Annemie	memberno	---
---	Village?	village	---
1	Name of member	name	not present in publicly available dataset
2	Sex	sex	male 1 female 2
3	Age	age	in years Note: respondents do not always recall the correct age, one should imagine a confidence interval of 2-3 years
4	Member ID (NEW)	memid	---
5	Spouse of.... new male ID	spousemale	member ID (NEW) of spouse in case individual is female
5	Spouse of.... new female ID	spousefem	memID (or memberno in case of PF) of spouse in case individual is male
6	Child of new male ID	chmaleid	memID (or memberno in case of PF) of the father of the individual
6	Child of new female ID	chfemale	memID (or memberno in case of PF) of the mother of the individual
7	Current marital status	maritalst	never married 1 married 2 separated 3 divorced 4 widowed 5
8	Degree of disability	disab	only to be filled in for members 15 years and older can do any farm or domestic work 1 can do only domestic work 2 can do only light farm work 3 can do only light domestic work 4 completely disabled 5
9	Does this person currently live in your home?	live	yes 1 no 0

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
10	Where does this person currently live?	curlive	name location
11	How far away is this location from your home?	farkm	kilometres
11	How far away is this location from your home?	farhr	hours
11	How far away is this location from your home?	farmins	minutes
12	How frequent does this person visit the house?	visit	<div> <div>> once a month</div> <div>once a month</div> <div>> once a year</div> <div>once a year</div> <div>once in 2-3 years</div> </div> <div> <div>1</div> <div>2</div> <div>3</div> <div>4</div> <div>5</div> </div>
13	What is the purpose of migration and the date that the person moved out?	migpurp	<div> <div>work</div> <div>marriage</div> <div>study</div> <div>holiday</div> <div>personal</div> <div>other</div> </div> <div> <div>1</div> <div>2</div> <div>3</div> <div>4</div> <div>5</div> <div>specify</div> </div>
13	What is the purpose of migration and the date that the person moved out?	migmonth	---
13	What is the purpose of migration and the date that the person moved out?	migyear	---
14	What is the highest education level this person passed?	education	in years of education
15	Main occupation last 12 months?	mainocc	---
16	Subsidiary occupation last 12 months?	subsocc	---
17	How many years does this person have experience in the main occupation?	mainoccexp	---
18	How many years does this person have experience in the subs. occupation?	subsoccexp	---
19	Caste at birth	casteb	Table 1, Table 2
19	Religion at birth	relbirth	---
20	Current personal caste	castecur	Table 1, Table 2
20	Current personal religion	relcur	---
21	Current personal caste category	ccat	---
22	Current official caste	casteo	Table 1, Table 2
22	Current official religion	relo	---
23	Current official caste category	ocat	---

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
24	INTERVIEWER CHECKPOINT Are (21), (22) and (24) different?	diff	yes 1 no 0
25	When did this person take up (20) and/or (22)?	when1 to when3	year
26	Why did this person take up (20) and/or (22)?	why1 to why3	---

Table 1: Caste names Aurepalle

Caste name Telugu	Traditional occupation	Alternative names
Bindla	Priest of Madiga caste	Baindla
Chakali	Washerman	
Gowda	Toddy tapper	Gouda
Kamsali	Goldsmith	Hamsali, Hausala
Katika	Butcher	
Kummari	Potters	
Kurma	Shepherd	
Madiga	Agricultural laborers, leatherworkers	One of the subcategories is Ba(i)ndla
Mala	Agricultural laborers, servants	
Mangali	Barber	Mangal
Mudhiraj	Farmer	
Padmasali	Weaver	Padmasale, Sale
Reddy	Farmer	
Telaga	Fruit seller, fish catcher, farmer	One of the subcategories is Mudhiraj
Vadla	Carpenter	Wadla
Velama	Farmer	
Vysya	Small business	

Table 2: Caste names Kanzara and Kinkhed

Caste name Marathi	Traditional occupation	Alternative names
Beldar	Construction	
Dhangar	Shepherd	
Gosavi	Religious mendicants	
Gowari	Cattle herder	
Kalal	Distillers	Kalar
Kumbhar	Potter	
Kunbi	Farmer	Kunbhi
Mali	Farmer	Jirimali
Maratha	Farmer	Maratha Deshmukh
Maratha	Farmer	Maratha Deshmukh
Matang	Animal rearing	Mang
Muslim	Farmer and government	
Muslim	Farmer and government	
Navboudha	Weaving	Nav Boudha, Navboudh

Table 2 (continue): Caste names Kanzara and Kinkhed

Caste name Marathi	Traditional occupation	Alternative names
Parit	Washerman	Dhobi
Sutar	Carpenter	
Warik	Barber	Navhi
Tirmal	Weaving	

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
27	Does or did this person belong to any of the following organization in the last 7 years for any period of time?	org	yes 1 no 0
29	Type of organization	typeo1-typeo7	Table 3
30	From when to when does/did this person join this organization?	fromom1-fromom7	from month
30	From when to when does/did this person join this organization?	fromoy1-fromoy7	from year
30	From when to when does/did this person join this organization?	toorgm1-toorgm7	to month if still a member write '7777' with ending date
30	From when to when does/did this person join this organization?	toorgy1-toorgy7	to year if still a member write '7777' with ending date
31	Did this person ever hold a position of leadership in this group?	leader1-leader7	yes 1 no 0
32	Which position was/is this?	position1-position7	---
33	When does/did this person hold this position?	fromposm1-fromposm7	from month
33	When does/did this person hold this position?	fromposy1-fromposy7	from year
33	When does/did this person hold this position?	toposm1-toposm7	to month if still write 'current' with ending date
33	When does/did this person hold this position?	toposy1-toposy7	to year if still write 'current' with ending date
---	Is this member the respondent and main decision-maker with regard to agriculture? (not for PF)	dmaker	yes 1 no 0

Table 3: List of organizations

Raithu Mitra or famer	1	Chit fund	15
Farmers' cooperative	2	Market committee	16
Water User Association (canal)	3	Traders' association	17
Borewell User Association	4	Business group	18
Watershed group	5	Youth group	19
Garam Panchayat	6	Labor union	20
Caste group/association	7	NGO	21
Manhila Mandal (women's ass)	8	Political groups, political parties	22
Health/nutrition committee	9	Religious group (church, Bhajan...)	23
Self-Help Groups	10	Cultural group	24
Education/Vidya Committee	11	Sport group.	25
Mothers' committee (eg. Agawadi Center)	12	Dispute committee	26
Library group	13	Other	
Credit society/cooperative	14		

Section B

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
---	Household number	hhno	A refers to Aurepalle, E refers to Kanzara, F refers to Kinkhed
---	New VLS Household Number	newvls	hhno – initial letter
---	Village?	village	---
---	Is this person a farmer?	farmer	yes (crossed) 1 no (not crossed) 0
34	Compared to other farmers, how do you judge your own farming abilities?	ability	much worse than others 1 somewhat worse than others 2 about the same as others 3 somewhat better than others 4 much better than others 5 do not know 6
35	Compared to other farmers, how often do you have doubts related to which agricultural practices to use?	practices	much more often than others 1 somewhat more often than others 2 somewhat less often than others 3 about the same as others 4 much less often than others 5 do not know 6
36	Compared to others, how educated do you consider yourself?	education	much less than others 1 somewhat less than others 2 about the same as others 3 somewhat better than others 4 much better than others 5 do not know 6
37	Compared to others, you think that you take:	risk	much less risks 1 somewhat less risks 2 about the same risks 3 somewhat more risks 4 much more risks 5 do not know 6

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
38	Compared to others, how often do you make decisions quickly/fast?	decision	much more often than others 1 somewhat more often than others 2 about the same as others 3 somewhat less often than others 4 much less often than others 5 do not know 6
39	Compared to others, how much do you plan ahead?	plan	plan ahead much less than others 1 plan ahead somewhat less than others 2 about the same as others 3 plan ahead somewhat more than others 4 plan ahead much more than others 5 do not know 6
40	Compared to others, do you get angry easily?	angry	get angry much more easily than others 1 get angry somewhat more easily than others 2 about the same as others 3 get angry somewhat less easily than others 4 get angry much less easily than others 5 do not know 6
41	How do you feel about the following statement 'if one works hard, one can improve one's situation in life'	improve	strongly disagree 1 disagree 2 neutral 3 agree 4 strongly agree 5 do not know 6

Notes: During the qualitative round it appeared that it was not possible to ask these subjective questions without the “compared to others” benchmark (one would get a “somewhat” answer from all farmers). Despite standardisation in the way these questions were framed, as the respondent could not tick the box themselves, the answers on these questions are likely to be enumerator dependent. Question (37): people referred to their income while answering this question. Question (39): people often told us that they *had* to make decisions quickly often due to economic necessity.

III. Major Sources of Income

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
---	Household number	hhno	A refers to Aurepalle, E refers to Kanzara, F refers to Kinkhed
---	New VLS Household Number	newvls	hhno – initial letter
---	Village?	village	---
1	Agriculture	agri	Rs
2	Farmwork	farmwork	Rs
3	Livestock (milk and milk products)	livesto	Rs
4	Regular farm servant	farmserv	Rs
5	Income from selling sheep, goats, chicken, meat, eggs, wool (all animals)	animal	Rs
6	Income from selling dung	dung	Rs

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
7	Selling Common Property Resources (firewood, fruits, stones, mats, and leaf plates)	common	Rs
8	Selling of water for agricultural purposes	water	Rs
9	Caste occupation	caste	Rs
9	Caste name	castename	---
10	Stitching cloths	stitch	Rs
11	Handicrafts	handi	Rs
12	Non farm work (wage, both government and private)	nonfarm	Rs
13	Other business	otherbus	Rs
13	Other business name	otherbnam	---
14	Out migration (of temporary migrants)	mig	Rs
15	Remittances	remit	Rs
16	Income from hiring out bullocks	bull	Rs
17	Rental income from machinery	machine	Rs
18	Rental income from leased out – shared out land	lease	Rs
19	Rental income from renting buildings, houses, apartments, rooms	rent	Rs
20	Interest on saving and on money lending	saving	Rs
21	Dowry received (cash and kind)	dowry	Rs
22	Cash and gifts received	gift	Rs
23	Pension	pension	Rs
24	Other government welfare/development programs	welfare	Rs Note: this is an estimate by the respondent of the value of the program
25	Others	other	Rs
25	Othersname	othername	--- Note: this sometimes mentions the name of 24 instead

Note the time period:

1 June 2007 – 15 January 2008 for non agricultural income

June 2007 up to kharif harvest for agricultural income

Note the following definitions:

Agricultural income = value of production– costs, own consumption is included, only paid out costs deducted

Business income = value of production – costs, only paid out costs deducted

Out-migration: in the case of Aurepalle only money sent home; in case of K and K: everything earned

IV. Farm equipment

Section A

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
---	Household number	hhno	A refers to Aurepalle, E refers to Kanzara, F refers to Kinkhed
---	New VLS Household Number	newvls	hhno – initial letter

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
---	Village?	village	---
How many of the following items does your household own?			
1	Desi plough	dplough	number
1	Modern plough	mplough	number
1	Blade harrow	bharrow	number
1	Blade hoe	bhoe	number
1	Seed drill	sdrill	number
1	Chaff cutter	ccutter	number
1	Manual sprayer/duster	msprayer	number
1	Bullock cart	bcart	number
1	Pipeline	pline	in feet

Section B

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
---	Household number	hhno	A refers to Aurepalle, E refers to Kanzara, F refers to Kinkhed
---	New VLS Household Number	newvls	hhno – initial letter
---	Village?	village	---
2	Do you currently own a?	own	yes 1 no 0
3	What is the type of item you own?	type	HP
4	Do you share owner-ship with another household?	share	in percentage
5	When did you buy the item?	whenbuy	month/year
6	What was the price when you bought the item?	pricebuy	Rs
7	How much would you receive when you would sell the item today?	pricesell	Rs
8	What was the total amount borrowed?	borrow	Rs
9	Are you paying interest on this loan?	interest	yes 1 no 0
10	What is the rate of interest? Rate	interestrate	in percentage per unit
10	What is the rate of interest? Unit	interestunit	---
11	How often do you make payments?	freqpay	daily 1 weekly 2 monthly 3 quarterly 4 annual 5 one final 6 no set schedule 7
12	What amount do you pay at each payment?	Install	Rs
13	How many payments do you have to make to repay the loan?	numinstall	Rs
14	How much will you repay in the end?	repayamt	Rs
15	When will you finish repay the loan?	repaytime	month/year

V. Landholding during 2007-08

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
---	Household number	hhno	A refers to Aurepalle, E refers to Kanzara, F refers to Kinkhed
---	New VLS Household Number	newvls	hhno – initial letter
---	Village?	village	---
---	Does the HH posses or leases in/shares in land?	land	yes 1 no 0
---	Plot code	plotcode	---
1	What is the plot name?	plotname	---
2	Season	season	khariif k rabi r summer s annual a perennial p
3	What is the ownership status?	ownstatus	owned 1 shared-in on crop share 2 leased-in on fixed rent (cash) 3 leased-in on fixed rent (kind) 4 shared-out on crop share 5 leased-out on fixed rent (cash) 6 leased-out on fixed rent (kind) 7
4	What is the amount of inputs that the landowner provides? Amount	inputrent	rs (always per season concerned, for plot as a whole)
4	What is the amount of inputs that the landowner provides? Unit	inputrentunit	---
4	What is the amount of rent/share paid to the landowner? Amount	outputrent	---
4	What is the amount of rent/share paid to the landowner? Unit	outputrentunit	---
5	From whom/to whom land is leased	partnerland	VLS HH number if no VLS member missing value
6	What is the rental value of this plot? Value	rentvalue	note: this number cannot always be compared across plots due to the different units. The season varies as does the unit of price which can be share (of a certain crop) with/without input sharing or rs. A better measure of the value of the plot is variable valueplot
6	What is the rental value of this plot? Unit	rentunit	---
7	What is the land tax on this land? (per acre) Value	taxvalue	the respondent often guessed this number
7	What is the land tax on this land? (per acre) Unit	taxunit	at times it was unclear whether this was Rs/plot/year or Rs/acre/year
---	Any comments?	landcomm	---
8	What is the total plot area?	totplotarea	acre
9	What is the area of permanent fallow and uncultivable land?	fallowland	acre

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
---	What is the area of cultivable land?	cultivableland	acre
10	What is the area of cultivated land that season?	cultivated land	acre
---	Interview checkpoint: written down this plot down before?	icplotname	yes 1 no 0
11	What is the irrigable area?	irriarea	acre
12	What is the source of irrigation on this plot?	sourceirri	open well 1 borewell 2 tubewell 3 main canal 4 tank/pond 5 river 6 others specify
13	What is the distance from the irrigation source?	distsourceirri	meters
14	What is the soil type of this plot?	soiltype	red soils 1 sandy soils 2 murrum soils 3 deep black 4 medium black 5 shallow black 6 saline/alkaline 7 problematic 8
15	What is the soil depth of this plot?	soildepth	cm
16	How would you rank the soil fertility of this plot?	soilfert	very good 1 somewhat good 2 average 3 somewhat poor 4 very poor 5
17	What is the slope of this plot?	slopeplot	levelled 0-1% 1 slight slope 1-3% 2 medium slope 3-10% 3 steep slope >10% 4
18	Does this plot suffer from soil erosion?	erosion	no problem 1 small problem 2 severe problem 3
18	Does this plot suffer from nutrient depletion?	nutrient	no problem 1 small problem 2 severe problem 3
18	Does this plot suffer from water logging?	waterlog	no problem 1 small problem 2 severe problem 3
18	Does this plot suffer from salinity/acidity?	salinity	no problem 1 small problem 2 severe problem 3
18	Does this plot suffer from other soil degradation?	otherdgrad	no problem 1 small problem 2 severe problem 3
18	Does this plot suffer from soil degradation?	otherdgradname	---
19	Does this plot have bunds?	plotbund	yes 1 no 0

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
20	What is the number of trees on this plot?	numtrees	---
21	What would your estimate be of the value of this plot (per acre) if one were to sell it today?	valueplot	rs/acre
22	What is the distance from the plot to your home?	distplot	km note: this variable often posed problems for the respondent, and the enumerator often had to help 'guessing' the distance
23	How long does it take you to get to this plot?	timetoplot	minutes note: if a range was mentioned, the average was taken

Note: If the land ownership situation is different for two subplots of one plot, each subplot is mentioned separately, the number of trees pertain to the plot as a whole. The plotcode contains two letters in this case, which the second one referring to the subplot.

VI. Input/Output (2007-2008)

Only data regarding kharif 2007-2008 was collected as cotton is never cultivated in rabi season and rabi season was still in progress during data collection.

Section A

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
---	Household number	hhno	A refers to Aurepalle, E refers to Kanzara, F refers to Kinkhed
---	New VLS Household Number	newvls	hhno – initial letter
---	Village?	village	---
1	Plotname of section V	plotname1	---
2	Plot code (the code of the main plot as mentioned in section V)	plotcode1	---
2	Plotcode (the code of the subplot as mentioned in I/O)	plotcode2	---
3	Season	season	kharif k rabi r summer s annual a perennial p
4	What is the total (actual) cultivated area? In acres	totcultarea	acre
5	What is the total (actual) irrigated area? In acres	totirriarea	acre
6	Crop name(s)	cropname1 cropname2 cropname3 cropname4	cropname5 cropname6 cropname7 ---

Number of question	Question	Variable Name			Comments, Variable Codes and/or Format	
7	Proportions of crops.	propcrop1 propcrop2 propcrop3 propcrop4	propcrop5 propcrop6 propcrop7		---	
7	Proportions of crops (unit)	propunit1			note: percentage refers to percentage in terms of acreage	
8	Crop cultivars	crop1c1 crop1c2 crop1c3 crop2c1 crop2c2 crop2c3	crop3c1 crop3c2 crop3c3 crop4c1 crop4c2 crop4c3	crop5c1 crop5c2 crop5c3 crop6c1 crop6c2 crop6c3	crop7c1 crop7c2 crop7c3	---
9	Proportions of cultivars	c1c1prop c1c2prop c1c3prop c2c1prop c2c2prop c2c3prop	c3c1prop c3c2prop c3c3prop c4c1prop c4c2prop c4c3prop	c5c1prop c5c2prop c5c3prop c6c1prop c6c2prop c6c3prop	c7c1prop c7c2prop c7c3prop	---
9	Proportions of cultivars (unit)	propunit2			---	

Notes: Question (8) in Aurepalle, the following definitions are used. Improved: bought from government extension agent, ICRISAT, progressive farmer; Hybrid: bought from seed company; local: own seed, bought from local farmer.

Section B

This section is structured in the same fashion as the input-output questionnaire is structured. In addition, four columns are added to indicate the dates, if relevant (date of sowing, date of harvesting). The last two columns are yield and price, needed for questions 25 and 34. If no price is mentioned, no money exchanged hands.

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format	
---	Household number	hhno	A refers to Aurepalle, E refers to Kanzara, F refers to Kinkhed	
---	New VLS Household Number	newvls	hhno – initial letter	
---	Village?	village	---	
---	Plotcode2	plotcode2	---	
---	Season	season	kharif rabi summer annual perennial	k r s a p
---	Item	item	---	
---	Cropcultivar	cropcultivar	---	
---	Which kind	whichkind	---	
---	Units	units	---	
---	Labor use (family labor)	laborfam	---	
---	Labor use (hired labor)	laborhire	---	
---	Wage rate	wage	---	

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
---	Month	Month	---
---	Input (quantity)	input	---
---	Input price	inputprice	---
---	Day	day	---
---	Week	week	---
---	Year	year	---
---	Yield	yield	---

Notes: In Kanzara and Kinkhed, the bullocks' price does not include the operator wage while the tractor's price includes the operator wage. In Aurepalle, the bullocks' and tractor's price include the operator wage. A workday is 6 hours in Kanzara and Kinkhed and 8 hours in Aurepalle.

Section C

This section is for questions 28 and 33.

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
---	Household number	hhno	A refers to Aurepalle, E refers to Kanzara, F refers to Kinkhed
---	New VLS Household Number	newvls	hhno – initial letter
---	Village?	village	---
none	Plotcode2	plotcode2	---
none	Season	season	kharif k rabi r summer s annual a perennial p
none	Item	item	borrowing lending
none	Cropcultivar	cropcultivar	---
none	How much did he borrow?	borrow	Rs
none	How much did he lent?	lend	Rs
none	Which input/output	which	---
none	What was the rate of interest?	interestrate	percentage
none	What was the rate of interest? Unit of time	interestunit	---
none	How much will you/the borrower repay in the end?	repay	Rs
none	When will you/the borrower finish repaying the loan? Month	whenrepaym	---
none	When will you/the borrowed finish repaying the loan? Year	whenrepayyr	---

Section D

This section is for questions 29, 30, 31 and 32

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
---	Household number	hhno	A refers to Aurepalle, E refers to Kanzara, F refers to Kinkhed
---	New VLS Household Number	newvls	hhno – initial letter
---	Village?	village	---
none	Plotcode2	plotcode2	---
none	Season	season	kharif rabi summer annual perennial k r s a p
none	item	item	
none	crop cultivar	cropcultivar	---
none	unit	units	---
none	total output	totaloutput	---
none	Amount used for own consumption	consumption	---
none	How did you use this own consumption?	howcons	food fodder for animals seed for next year plough them back in field fuel other 1 2 3 4 5
none	Amount lost	lost	---
none	Amount sold	sold	---
none	Unit price sold	pricesold	Rs
none	Amount given to the landlord	landlord	---

VII. Current and past information networks

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
---	Household number	hhno	A refers to Aurepalle, E refers to Kanzara, F refers to Kinkhed
---	New VLS Household Number	newvls	hhno – initial letter
---	Village?	village	---
---	For Aurepalle: member of Aurepalle or Nallavaripalli	aur1/aur2	Aurepalle Nallavaripalli 1 2
---	Number given to x from 1 to 10	numberx	---
	New VLS HH number of X	hhno	note: no number for progressive farmers that are not part of VLS

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
1	Name of X	namex	not present in publicly available dataset
1	VLS number of X	VLSx	New VLS household number of X
2	Do you know X?	knowx	yes 1 no 0 don't know 9999 since childhood 8888
3	How long have you known X?	timeknowx	in years
4	How did your relationship with X change after you became a part of the VLS?	relchangex	better 1 same 2 worse 3
5	Is X or a member of his family a member of a same organization (on page 6) as you or a member of your family?	orgx1 orgx2 orgx3	first number corresponds to member ID of respondent's household; second number corresponds to member ID of X's household; third number corresponds to the organization codes on page 6 of the questionnaire
5	Comments to question 5	commorgx	---
6	Does X live in the same neighborhood as you in the village?	neighx	yes 1 no 0 don't know 9999
7	How frequently do you or a member of your household talk to X or a member of his/her household?	freqtalkx1 freqtalkx2 freqtalkx3	first number corresponds to member ID of respondent's household; second number corresponds to member ID of X's household; d=daily, m=monthly, w=weekly; 6m=6monthly, etc. note: 'child' refers to all children in the respective household. note 'all' refers to all the members of the respective household
7	Comments to question 7	commfreqtalk	
8	How risks averse are you compared to X?	riskaverx	X takes much more risk 1 X takes more risk 2 X takes about the same level of risk 3 X takes less risk 4 X takes much less risks 5
9	Is X or a member of his/her household a farmer (last 7 years)?	farmerx	yes 1 no 0 don't know 9999
10	Is the respondent or a member of his household a farmer (last 7 years)?	resfarmer	yes 1 no 2 don't know 9999
11	Do you pass by X's field if you go to your farm?	fieldx	yes 1 no 0 don't know...DK 9999
12	Does X have a field neighboring one of your fields?	neighfieldx	yes 1 no 0 don't know 9999
13	How profitable do you think X is on the farm compared to your farm?	profitx	res. is much more profitable than X 1 res. is somewhat more profitable than X 2 res. is about the same than X 3 res. is somewhat less profitable than X 4 res. is much less profitable than X 5

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format	
14	Did X's family farm cotton in Kharif 2007?	Cottonx	yes no don't know	1 0 9999
15	What is the soil type of the soil on which X's family farmed cotton in Kharif 2007?	soiltypex	red soils sandy soils murrum soils deep black medium black shallow black saline/alkaline problematic	1 2 3 4 5 6 7 8
16	What is the soil fertility of the soil on which X's family farmed cotton in Kharif 2007?	soilfertx	very good somewhat good average somewhat poor very poor	1 2 3 4 5
17	Does X's family have access to irrigation on their cotton field in Kharif 2007?	irrix	yes no don't know	1 0 9999
18	Which cotton cultivar(s) did X's family use in Kharif 2007?	ccx1 ccx2 ccx3	cultivar name – bt/nonbt	
18	Indicate how (18) is known	ccx1how ccx2how ccx3how	observation conversation third party	o c t
19	What was the cotton yield obtained by X's family in Kharif 2007 for these cultivar(s)?	cotyieldx1 cotyielldx2 cotyielldx3	quintal/acre write in same order as cultivars in 18	
19	Indicate how (19) is known	cotyieldx1how cotyielldx2how cotyielldx3how	observation conversation third party	o c t
20	How many times did X's family spray pesticides in Kharif 2007 on his cotton cultivar(s)? Write in same order as cultivars in 18	pestx1 pestx2 pestx3	number of sprays note: farmers often knew whether X was spraying or not. If the farmer knew this binary choice, but not the number of sprays '9999' was written.	
20	Indicate how (20) is known	pestx1how pestx2how pestx3how	observation conversation third party	o c t
21	Does the respondent's family farm cotton (past 7 years)?	respondcot	yes no don't know	0 1 9999

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format	
22	Interviewer checkpoint: Did the respondent think that X farmed cotton?	interfarmcotx	yes no don't know	0 1 9999
23	In Kharif 2007, how was X's family yield (quintal/acre) compared to yours?	kharifyieldx	resp has much higher yield than X resp has a somewhat higher yield than X resp yield is about same than X resp has a somewhat lower yield than X resp has a much lower yield than X	1 2 4 4 5
24	In Kharif 2007, how was X's family pesticide use (number of sprays) compared to you?	kharifpestx	resp uses much more than X resp uses somewhat more than X resp uses about the same than X resp uses somewhat less than X resp uses much less than X	1 2 3 4 5
25	Do you think X knows your cotton yield of Kharif 2007?	respyieldx	yes no don't know	0 1 9999
26	Do you think X knows your pesticide use during Kharif 2007 (in number of sprays)?	resppestx	yes no don't know	0 1 9999
			This question was misinterpreted on the field, in all villages 1 indicates that the binary decision is thought to be known (spray versus non spray), but not necessarily the number of sprays	
27	If you had a problem with your cotton crop <u>WOULD</u> you approach X for advice?	cotprobx	yes no don't know	0 1 9999
---	What is the rank of this individual in terms of information about cotton	rank	---	

Notes: Aurepalle consists of two sub-villages, denoted Aurepalle (1) and Aurepalle (2). We used the 4-2 distribution in case of farmers (4 cards drawn from the same village as the respondent, 2 cards drawn from the other village) and the 3-1 distribution in case of progressive farmers. Question (26): this was answered in a binary fashion, 1 indicates that X knows the respondent has sprayed or not, 0 indicates that X does not know this. Questions (18), (19) and (20): due to a number of missing values and notational mistakes, this section was repeated for several households in Kanzara and Kinkhed in the data validation round. Only in case of missing values or notational mistakes I replaced the old value by the new. In Kanzara all (T), (C) and (O) questions were replaced by the new value of the data validation round as the question had been asked incorrectly before. In all villages (18) refers to the total yield obtained (not per acre) and a single value in (19) refers to the sum of all the cultivars mentioned in (18). Similarly, a single value of (20) refers to all the cultivars mentioned in (18).

VIII. Additional Details on Cotton Production and Marketing

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
---	Household number	hhno	A refers to Aurepalle, E refers to Kanzara, F refers to Kinkhed
---	New VLS Household Number	newvls	hhno – initial letter
---	Village?	village	---
---	If this section is filled in using a farm logbook, cross the box on the right	icsect8a	yes (crossed) 1 no (not crossed) 0
None	Year	year	---
1	Did you grow cotton this year?	growcot	yes 1 no 0
None	Cotton crop number	cotcrop 1 up to 3	---
2A	Which cultivar did you grow?	cotcult	---
2B	Who made the decision of (2A)?	cotcultdeci	new member ID separated with a comma
3	Was this a Bt cotton cultivar?	btcotcult	yes 1 no 0
4	What is the name of the plot on which the crop was sown?	plotname	---
5	What was the acreage of this cultivar?	cotcultacre	acres
None	Is this cultivar intercropped?	intercrop	yes 1 no 0
None	What is the row arrangement?	rowarr	for instance, 2A:3B means 2 rows of A and 3 rows of B
None	Was the seed of multiple cultivars mixed?	mixseed	yes 1 no 0
None	What is the seed mixture?	mixprop	in percentage (based on kg)
6	Did you apply any pesticides?	appest	yes 1 no 0
7	How many times did you apply pesticide?	timespest	number per season
8	Give the timeline of the pesticide application	tmlnpest	for instance: 2M - 5M, means once after 2 months of sowing and once after 5 months, or verbally described M = month and D = day
9	How many times did you irrigate the crop?	timesirri	number per season
10	Give the timeline of the water application	tmlnirri	For instance: 2M - 5M, means once after 2 months of sowing and once after 5 months, or verbally described M = month and D = day
11	Did you want to irrigate the crop more, but you could not?	moreirri	yes 1 no 0
12	Reason	reasirri	well permanently dry 1 well temporarily dry 2 well little water 3 no water in main canal 4 little water in main canal 5 no irrigation facilities 6 other

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
13	In how many pickings did you harvest the crop?	pickharv	number
14	What is the proportion of saved seeds/total seeds used?	propseed	number between 0 and 1
15	From whom did you buy the seeds?	sellerseed	farmer from village 1 farmer from outside the village 2 input dealer 3 directly from company 4 government extension agent 5 other
16	What is the location of (15)?	locsellerseed	---
17	Was this the first time that you went to this provider?	firstsellerseed	yes 1 no 0
18	From whom did you buy the other inputs?	sellerinp	farmer from village 1 farmer from outside the village 2 input dealer 3 directly from company 4 government extension agent 5 other
18	Put a cross in column if this person (18) is the same as person (15)	inputsame	yes (crossed) 1 no (not crossed) 0
19	Did you buy any of the inputs on credit?	inponcredit	yes 1 no 0
20	To whom did you sell the crop?	soldto	farmer from village 1 farmer from outside the village 2 input dealer 3 directly from company 4 government extension agent 5 other
20	Put a cross in column if this person (20) is the same as person (15)	outputsame	yes (crossed) 1 no (not crossed) 0
21	Were you required to sell the crop to this person? Under which conditions?	intsoldtowhy	---

Table 4: Abbreviations used rowarr

Abbreviation	Crop name
c	cotton
pp	pigeonpea
gg	greengram
bg	blackgram
s	sorghum

IX. Social learning and Imitation

Section A

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
---	Household number	hhno	A refers to Aurepalle, E refers to Kanzara, F refers to Kinkhed
---	New VLS Household Number	newvls	hhno – initial letter
---	Village?	village	---
1	Have you ever grown cotton?	evergrowcot	yes 1 no 0
2	Have you ever heard of Bt cotton?	everheardbtcot	yes 1 no 0
3	When did you <u>first</u> hear about Bt cotton?	yrheardbtcot	year
4	From whom did you <u>first</u> hear about Bt cotton?	whobtcot	name – not present in publicly available dataset
5	What is your relationship with this person or organization in (4)?	relwhobtcot	farmer from village 1 farmer from outside the village 2 relative from village 3 relative outside of village 4 input dealer 5 NGO 6 government extension agent 7 TV and radio 8 newspaper, magazine 9 other specify
6	Have you ever grown Bt cotton?	evergrowbtcot	yes 1 no 0
7	In which year did you first grow Bt cotton?	yrgrowbtcot	year
9	Which cropping years did you not grow Bt cotton?	yearnotgrowbtcot	years
10	Why did you not grow Bt cotton in those years?	reasnotgrow1 up to 3	one column for each reason mentioned
11	The year you first grew Bt cotton, did you adapt your management practices compared to the non-Bt cotton?	adaptmgmt1 up to 3	one column for each change mentioned
12	Did you adapt your management practices afterwards?	adaptlater1 up to 3	one column for each change mentioned
13	Why did you not grow Bt cotton immediately?	icsecta	---
14	Why did you never grow Bt cotton?	nevergrow1 up to 3	one column for each reason mentioned
15	If you would have access to a good piece of land and irrigation, would you grow Bt cotton?	wldgrow	yes 1 no 0 may be 2

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
16	Interviewer checkpoint: if the household is not a farming household (last 7 years), cross the box	icsect9b	yes (crossed) 1 no (not crossed) 0
17	Who in your household makes the decisions related to the farm?	hhdecimkr	new member ID separated with a comma
18	What are the main issues you take into account when you decide on the cropping pattern of the next season? Mention issues, in order of importance.	isscroppat1 up to 3	one column for each issue mentioned
19	Do you first decide on the cropping pattern, or first on whether or not to lease-in (share-in) lease-out (share-out) land?	croppatlandrent	first decide cropping pattern first decide lease land
20	Would you (did you) ever consider buying inputs on credit?	consdincred	yes 1 no 0
21	Who would you approach? Mention 3 in order of importance	whoapp1 whoapp2 whoapp3	farmer from village 1 farmer from outside the village 2 relative from village 3 relative outside of village 4 input dealer 5 commission agent 6 private bank 7 other specify
22	If you approached this person/institution, would you get the credit?	wldcred1 wldcred2 wldcred3	yes 1 no 0 maybe 2
None	Interviewer checkpoint: if the farmer has not farmed any cotton in the last seven years, cross the box	icsect9c	yes (crossed) 1 no (not crossed) 0
24	Was there any time in the last 7 years that either Bt seeds or non Bt seeds were hard to come by? Explain and mention the years concerned.	nonavyear	year(s)
24	Was there any time in the last 7 years that either Bt seeds or non Bt seeds were hard to come by? Explain and mention the years concerned.	nonavreason	reason
25	When your cotton crop is growing, when do you decide to apply pesticides? Explain.	whenapppest	---
26	Do you think a cotton field requires crop rotation? Explain.	cotfldrot	---
27	Do you practice crop rotation on your cotton fields? Explain	practcotfldrot	---

Section B

For each household, only that many rows are written down as the number of information channels given by the household.

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
---	Household number	hhno	A refers to Aurepalle, E refers to Kanzara, F refers to Kinkhed
---	New VLS Household Number	newvls	hhno – initial letter
---	Village?	village	---
---	If respondent has never heard about Bt cotton check this box	icsect9d	yes (crossed) 1 no (not crossed) 0
---	---	icsect9d2	dummy added: if no observations for this HH this equals 0.
1	Name	heardfrom	name, not present in publicly available dataset
2	Relationship	heardfromrel	input dealer 1 NGO 2 government extension worker 3 TV 4 radio 5 newspaper, magazine 6 ICRISAT 7 other specify
3	When did you receive information?	inford	month/year
4	Did you obtain the information through:	infothru	conversation1 1 observation 2 listen to lecture 3 other specify
5A	Did this information concern one particular cultivar?	cultinfo	---
5B	Did you obtain any specific information about pesticide use?	pestinfo	yes 1 no 0 don't know 9999
6	Do you recall the recommended number of spraying or the recommended pesticide schedule?	pestspray	for example, 2M - 5M, means once after 2 months of sowing and once after 5 months M = month and D = day
7	Did you have the travel somewhere to get this information?	infotravhours	no.....0 otherwise, mention hours
7	Did you have the travel somewhere to get this information?	infotravmin	no.....0 otherwise, mention minutes
8	Did you have to pay a fee to get this information?	infopay	yes....fee in Rs no.....0
9	Was this information useful to you?	infouse	very useful 1 somewhat useful 2 not useful 3
10	How did this information change your opinion about Bt cotton? Yield	infoopyld	much more favorable 1 somewhat more favorable 2 same opinion 3 somewhat worse opinion 4 much worse opinion 5

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
11	How did this information change your opinion about Bt cotton? Variance	infoopvar	much less variance 1 somewhat less variance 2 same opinion 3 somewhat more variance 4 much more variance 5

Section C

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
---	Household number	hhno	A refers to Aurepalle, E refers to Kanzara, F refers to Kinkhed
---	New VLS Household Number	newvls	hhno – initial letter
---	Village?	village	---
none	Interviewer checkpoint: if the respondent has never heard about Bt cotton check this box	icsect9e	yes (crossed) 1 no (not crossed) 0
none	Interviewer checkpoint: if the respondent has never grown Bt cotton cross the box	icsect9f	yes (crossed) 1 no (not crossed) 0
1	When you decided to adopt Bt cotton, how many farmers (at that time) knew of this decision?	farmknew	number
2	(Continue 1) Of these farmers who knew of your decision to grow Bt cotton, how many (at that time) lived in the village?	farmvill	number
none	Year	year	---
3	About how many farmers that you knew_of had adopted Bt cotton in this season?	uknewfarm	number
4	Of these farmers in (3), how many lived in the village at that time?	uknewfarmvill	number
5	Of these farmers in (3), how many were your relatives?	uknewfarmrel	number
6	On average, what was the experience of these farmers in (3) with Bt cotton at the time?	uknewfarmexp	very positive 1 somewhat positive 2 mixed experience 3 somewhat negative 4 very negative 5

Section D

For each household, only that many rows are written down as the number of information channels given by the household.

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
If you, today, would have a specific problem with your cotton crop who or where would you go to? Mention in order of importance.			
---	Household number	hhno	A refers to Aurepalle, E refers to Kanzara, F refers to Kinkhed
---	New VLS Household Number	newvls	hhno – initial letter
---	Village?	village	---
None	Interviewer checkpoint: has the respondent farmed cotton in the past or plans so in the future, if not, cross the box	icsect9g	yes (crossed) 1 no (not crossed) 0
1	Name	potinfofname	--- not present in publicly available dataset
2	Relationship	potinfofrel	farmer from village 1 farmer from outside the village 2 relative from village 3 relative outside of village 4 input dealer 5 NGO 6 government ext worker 7 other specify
3	How long have you known (1)?	potinfoknown	years 8888 since childhood
4	How frequently do you talk to this person?	potinfofotalk	---
5	Do you expect this person to be able to help you?	potinfohelp	yes 1 no 0 may be 2
6	How profitable do you think (1) is on the farm compared to your farm?	potinfofprof	X is much more profitable 1 X is more profitable 2 X is about same 3 X is less profitable 4 X is much less profitable 5 no comparison possible 8888
7	How was (1)'s experience with Bt?	potinfoexpbtc	very positive 1 somewhat positive 2 mixed 3 somewhat negative 4 very negative 5 no experience 8888

X. Beliefs and Social Norms

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
---	Household number	hhno	A refers to Aurepalle, E refers to Kanzara, F refers to Kinkhed
---	New VLS Household Number	newvls	hhno – initial letter
---	Village?	village	---
---	Is part of the data validation round? (refers to stone game – question 8)	repeat	yes data validation (sept-oct 2008) no data collection (spring 2008)
1A	In your (current) view what is the main difference between Bt cotton and non Bt cotton?	diffbtc1 up to 3	---
1D	In total how many working days do you think a normal hybrid cotton crop requires?	labhyb	days
1B	Some people say that Bt cotton requires more attention and labor. How many days of labor do you think Bt cotton needs?	labbtc	days
2	Do you plan to plant cotton next season (now in June 2008)?	plantcot08	yes 1 no 0 may be 2
3A	Which cultivars?	cc1 cc2 cc3	cultivar name(bt/non-bt)
3A	How many acres of each cultivar?	ccacre1 ccacre2 ccacre3	acres
3A	How many acres of each cultivar? Unit used in proportion	ccunit1 ccunit2 ccunit3	rows or percentage
3A	How many acres of each cultivar? Proportion	ccprop1 ccprop2 ccprop3	
3B	How many farmers that you know off do you think will plant Bt cotton the upcoming Kharif season (June 2008)?	farmplantbtc08	number
3B	How many of these (in 3B) live in the village?	farmplantbtc08vill	number
4	Bt cotton is hazardous for animal health: they might sick or die when they eat the fodder		
4	Yourself, farmers in village, farmers outside village, relatives, icrisat, government extension agents, NGOs, seed-dealers	you4, farmvill4, farmvillout4, rel4, icrisat4, govtext4, ngos4, seeddeal4	strongly disagree 1 disagree 2 neutral 3 agree 4 strongly agree 5 don't know 6

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
5	Bt cotton is hazardous for human health: if you touch it too much, you might get sick.		
5	Yourself, farmers in village, farmers outside village, relatives, icrisat, government extension agents, NGOs, seed-dealers	you5, farmvill5, farmvillout5, rel5, icrisat5, govtext5, ngos5, seeddeal5	strongly disagree 1 disagree 2 neutral 3 agree 4 strongly agree 5 don't know 6
6	Bt cotton is hazardous for the environment: it damages crops and soils		
6	Yourself, farmers in village, farmers outside village, relatives, icrisat, government extension agents, NGOs, seed-dealers	you6, farmvill6, farmvillout6, rel6, icrisat6, govtext6, ngos6, seeddeal6	strongly disagree 1 disagree 2 neutral 3 agree 4 strongly agree 5 don't know 6
None	Interviewer checkpoint: if the respondent has never grown Bt cotton, cross this box	icsect10a	yes (crossed) 1 no (not crossed) 0
7	When you first decided to grow Bt cotton, did you experience any resistance from people in your environment? Explain, from whom did you experience this resistance? Why did these people/organisations disagree?	faceres	---
8	Stone game (trial question)	weather	yes (crossed) 1 no (not crossed) 0
8	Stone game (trial question)	election	yes (crossed) 1 no (not crossed) 0
8	Stone game (trial question)	passssc	yes (crossed) 1 no (not crossed) 0
8	Stone game (trial question)	cricket	yes (crossed) 1 no (not crossed) 0
8	Stone game (cultivars mentioned in table on page 27)	bt1 bt2 nbt1 nbt2	---
8	Stone game (cultivars mentioned in table on page 27) Note: crossed if the respondent could not come up with a cultivar him/herself. In this case cultivar was taken from a list provided to the enumerators	bt1cross, bt2cross nbt1cross, nbt2cross	yes (crossed) 1 no (not crossed) 0
The rows below are repeated for all 4 cultivars, bt1, bt2, nonbt1 and nonbt2			
8	Stone game (cultivar name of cultivar 1)	bt1	----
8	Stone game (Yield, 5 division points)	bt1div1, bt1div2 bt1div3, bt1div4 bt1div5, bt1div6	---
8	Stone game (stones, in order)	bt1stone1, bt1stone2 bt1stone3, bt1stone4	---

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
8	Stone game (plot code)	bt1plot	---
8	Stone game (how many times would you spray?)	bt1spray	number
8	Stone game (how much do you expect to spend on pesticides per acre?)	bt1pest	Rs
8	Stone game (how much do you expect to spend on seed per acre?)	bt1seed	Rs
8	Stone game (do you think of this plot as irrigated?)	bt1irri	fully 1 partially 2 no 0

The following cultivars were used (in case the farmer could not come up with any):

Table 5: Cultivars used for stone game

Village	Bt cultivar	Non-Bt cultivar
Aurepalle	Banny, Tulasi	Savitha, NHH-44
Nallavaripalli	Raasi, Tulasi	Hima, Tulasi
Kanzara	Mahyco-6301, Ankur-651	NHH-44, AK-5
Kinkhed	Tulasi, Raasi-2	Hima, Tulasi

Notes (stone game): Not all the stone games add up to 20 stones – this is a data collection error. In the data validation round, the stone game was repeated for all Kanzara and selected Kinkhed households. This is indicated with the variable “repeat” which is “yes” in case of the data validation round. In the first round, in Kanzara the stone game question was framed in a different way that implied a non-conditional production function rather than a conditional production function (“out of 20 farmers in the village, how many had between 4 and 5 quintal etc”). In Kinkhed, in case of non-cotton farmers, the enumerator sometimes supplied the minimum and maximum in the first round. The pesticide question after the stone game (bt1pest) refers to all direct costs excluding seed costs in case of Kanzara and Kinkhed in the first round and all direct costs including seed costs in case of Kanzara and Kinkhed in the data validation round.

XI. Risk Experiments

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
---	Household number	hhno	A refers to Aurepalle, E refers to Kanzara, F refers to Kinkhed
---	New VLS Household Number	newvls	hhno – initial letter
---	Village?	village	---
---	Is HH not a farming household?	icsect11a	yes (crossed) 1 no (not crossed) 0
Trial experiment 1	Maximum willingness to pay?	trial1	Rs
Trial experiment 2	Maximum willingness to pay?	trial2	Rs
Experiment 1	Maximum willingness to pay?	risk1	Rs
Experiment 2	Maximum willingness to pay?	risk2	Rs
Experiment 3	Maximum willingness to pay?	risk3	Rs
Experiment4	Maximum willingness to pay?	risk4	Rs

Notes: that ICSECT11a was added to Kanzara and Kinkhed during data entry. Note the difference in question from the ICSECT2b variable in Section II. HH KANZARA 237 was forgotten on the field. This household possesses no

land and sometimes leases in land during Rabi. The Kinkhed and Kanzara enumerators sometimes used the cumulative distribution instead of the density function to explain the set-up of the game. The Kinkhed investigator did not ask the question in a different manner compared to the Kanzara enumerator.

B. RECALL MODULE

Not all VLS households were part of the VLS since 2001-2002. For the households who have been added later, an additional recall module was added to the household questionnaires.

Notes: A child becomes an adult when he or she becomes 15 years.

‘Working’ means all kinds of work: labourer, farmer, housework. ‘Not working’ means: students, being idle at home (lying in bed for the elderly, playing or education for kids....)

I. Recall module 1

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
---	Household number	hhno	A refers to Aurepalle, E refers to Kanzara, F refers to Kinkhed
---	Village?	village	---
	Year	year	
1	Did the respondent live in the village?	livevillag	yes 1 no 0
2	Acres of owned dryland	owndry	acres
3	Acres of owned irrigable land	ownirr	acres
4	Acres of leased-out/shared-out dryland Kharif	outdrykharif	acres
5	Acres of leased-out/shared-out dryland Rabi (Jan-Feb)	outdryrab	acres
6	Acres of leased-out/shared-out irrigable land Kharif	outirrkharif	acres
7	Acres of leased-out/shared-out irrigable land Rabi (Jan-Feb)	outirrabi	acres
8	Acres of leased-in/shared-in dryland Kharif	indrykharif	acres
9	Acres of leased-in/shared-in dryland Rabi (Jan-Feb)	indryrabi	acres
10	Acres of leased-in/shared-in irrigable land Kharif	inirrkharif	acres
11	Acres of leased-in/shared-in irrigable land Rabi	inirrabi	acres
12	Number of adults household members (male)	adultmale	acres
13	Number of adult household members (female)	adultfem	acres
14	Number of children (female)	childfem	acres
15	Number of children (male)	childmale	acres
16	Number of working adult household members (male)	workamale	acres
17	Number of working adult household members (female)	workafem	acres
18	Number of working children (female)	workcfem	acres
19	Number of working children (male)	workcmale	acres
20	Estimated total net-income 1 June – 31 May	netincome	Rs

II. Recall module 2

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
---	Household number	hhno	A refers to Aurepalle, E refers to Kanzara, F refers to Kinkhed
---	Village?	village	---
---	If this section is filled in using a farm logbook, cross the box on the right	icsect8a	yes (crossed) 1 no (not crossed) 0
None	Year	year	---
1	Did you grow cotton this year?	growcot	yes 1 no 0
None	Cotton crop number	cotcrop	cc1, cc2, cc3
2	What is the soil type of this plot?	soiltype	red soils 1 sandy soils 2 murrum soils 3 deep black 4 medium black 5 shallow black 6 saline/alkaline 7 problematic 8
3	How would you rank the soil fertility of this plot?	soilfert	very good 1 somewhat good 2 average 3 somewhat poor 4 very poor 5
4	Did this plot, at the time, suffer from soil erosion?	erosion	no problem 1 small problem 2 severe problem 3
4	Did this plot, at the time, suffer from nutrient depletion?	nutrient	no problem 1 small problem 2 severe problem 3
4	Did this plot, at the time, suffer from water logging?	waterlog	no problem 1 small problem 2 severe problem 3
4	Did this plot, at the time, suffer from salinity/acidity?	salinity	no problem 1 small problem 2 severe problem 3
4	Did this plot, at the time, suffer from other soil degradation?	otherdgrad	no problem 1 small problem 2 severe problem 3
4	Did this plot, at the time, suffer from soil degradation?	otherdgradname	---
5	What was the soil depth of this plot	soildepth	cm
6	Did this plot, at the time, have bunds?	plotbund	yes 1 no 0
7	What was, at the time, the number of trees on this plot?	numtrees	---
8	What was the percentage of saved seed used	saveseed	%

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
9	What was the total cost of the seed	seedcost	Rs
10	What was the total cost of pesticides for this cultivar	pestcost	
11	What were the total irrigation costs?	irricost	Rs
12	What was the total costs of inputs for this cultivar	inputcost	Rs
12	How much did you harvest	qtharv	quintal
13	How much did you sell?	qtsold	quintal
14	How much did you use for self-consumption?	qself	quintal
15	How much did you lose?	qtlost	quintal
16	How much did you pay on storage and transportation costs?	transportcost	quintal
17	How much did you received in total from the sales of this crop?	mainprod	Rs
18	How much did you receive in total from the sales of this crop?	byprod	Rs

C. PROGRESSIVE FARMER'S QUESTIONNAIRE

The progressive farmers were selected through group discussion with the VLS investigators, selected village elderly and myself. The progressive farmers who are part of the VLS received a household questionnaire. The progressive farmers who are not part of the VLS received a progressive farmer questionnaire. All progressive farmers received the additions to the progressive farmer questionnaire.

The progressive farmer questionnaire is structured as outlined in Table 6.

Table 6: Structure progressive farmer questionnaire

Household questionnaire	Progressive farmer questionnaire
I	I
II	II
III	IIIA
	Added IIIB
IV	Changed IV
VII	V
V, VI and VIII	Changed VI
IX	VII
X	VIII
XI	IX

IIIB. Recall Section Income and Wealth

Notes: A child becomes an adult when he or she becomes 15 years.

‘Working’ means all kinds of work: labourer, farmer, housework. ‘Not working’ means: students, being idle at home (lying in bed for the elderly, playing or education for kids....)

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
---	Household number	hhno	A refers to Aurepalle, E refers to Kanzara, F refers to Kinkhed
---	Village?	village	---
	Year	pf_year	
1	Did the respondent live in the village?	pf_livevillag	yes 1 no 0
2	Acres of owned dryland	pf_owndry	acres
3	Acres of owned irrigable land	pf_ownirr	acres
4	Acres of leased-out/shared-out dryland Kharif	pf_outdrykharif	acres
5	Acres of leased-out/shared-out dryland Rabi (Jan-Feb)	pf_outdryrab	acres
6	Acres of leased-out/shared-out irrigable land Kharif	pf_outirrkhari	acres
7	Acres of leased-out/shared-out irrigable land Rabi (Jan-Feb)	pf_outirrabi	acres
8	Acres of leased-in/shared-in dryland Kharif	pf_indrykharif	acres
9	Acres of leased-in/shared-in dryland Rabi (Jan-Feb)	pf_indryabi	acres
10	Acres of leased-in/shared-in irrigable land Kharif	pf_inirrkhari	acres
11	Acres of leased-in/shared-in irrigable land Rabi	pf_inirrabi	acres
12	Number of adults household members (male)	pf_adultmale	acres
13	Number of adult household members (female)	pf_adultfem	acres
14	Number of children (female)	pf_childfem	acres
15	Number of children (male)	pf_childmale	acres
16	Number of working adult household members (male)	pf_workamale	acres
17	Number of working adult household members (female)	pf_workafem	acres
18	Number of working children (female)	pf_workcfem	acres
19	Number of working children (male)	pf_workcmale	acres
20	Estimated total net-income 1 June – 31 May	pf_netincome	Rs

IV. Farm Equipment

Section A

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
---	Household number	hhno	A refers to Aurepalle, E refers to Kanzara, F refers to Kinkhed
---	Village?	village	---
1	How many of the following items does your household own? Desi plough	dplough	number
1	How many of the following items does your household own? Modern plough	mplough	number
1	How many of the following items does your household own? Blade harrow	bharrow	number
1	How many of the following items does your household own? Blade hoe	bhoe	number
1	How many of the following items does your household own? Seed drill	sdrill	number
1	How many of the following items does your household own? Chaff cutter	ccutter	number
1	How many of the following items does your household own? Manual sprayer/duster	msprayer	number
1	How many of the following items does your household own? Pipeline	pline	feet

Section B

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
---	Household number	hhno	A refers to Aurepalle, E refers to Kanzara, F refers to Kinkhed
---	Village?	village	---
2	Do you currently own a.....?	own	yes 1 no 0
3	What is the type of item you own?	type	Watt
4	Do you share owner-ship with another household? If yes, mention %, if no write 100%	share	%
5	When did you buy the item?	whenbuy	month/year
6	What was the price when you bought the item?	pricebuy	Rs
7	How much would you receive when you would sell the item today?	pricesell	Rs

VI. Additional Details on Cotton Production and Marketing

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
---	Household number	hhno	A refers to Aurepalle, E refers to Kanzara, F refers to Kinkhed
---	Village?	village	---
---	If this section is filled in using a farm logbook, cross the box on the right	icsect8a	yes (crossed) 1 no (not crossed) 0
None	Year	Year	---
1	Did you grow cotton this year?	growcot	yes 1 no 0
None	Cotton crop number	cotcrop	cc1, cc2, cc3
2	Which cultivar did you grow?	cotcult	---
3	Was this a Bt cotton cultivar?	btcotcult	yes 1 no 0
4	What was the acreage of this cultivar?	cotcultacre	acres
5	If intercropping write row arrangement	intercrop	---
6	What was the name of the plot on which the crop was sown?	plotname	---
7	What was the soil type of this plot?	soiltype	red soils 1 sandy soils 2 murrum soils 3 deep black 4 medium black 5 shallow black 6 saline/alkaline 7 problematic 8
8	How would you rank the soil fertility of this plot, at the time?	soilfert	very good 1 somewhat good 2 average 3 somewhat poor 4 very poor 5
9	Did this plot, at the time, suffer from soil erosion?	erosion	no problem 1 small problem 2 severe problem 3
9	Did this plot, at the time, suffer from nutrient depletion?	nutrient	no problem 1 small problem 2 severe problem 3
9	Did this plot, at the time, suffer from water logging?	waterlog	no problem 1 small problem 2 severe problem 3
9	Did this plot, at the time, suffer from salinity/acidity?	salinity	no problem 1 small problem 2 severe problem 3
9	Did this plot, at the time, suffer from other soil degradation?	otherdgrad	no problem 1 small problem 2 severe problem 3
9	Did this plot, at the time, suffer from soil degradation?	otherdgradname	---

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
10	What was the soil depth of this plot?	soildepth	cm
11	Did this plot, at the time, have bunds?	plotbund	yes 1 no 0
12	What was, at the time, the number of trees on this plot?	numtrees	---
13	What was the total costs of inputs for this cultivar?	inputcost	Rs
14	What was the percentage of saved seed used?	propseed	%
15	What was the total cost of the seed?	seedcost	Rs
16	From whom did you buy the seeds?	sellerseed	farmer from village 1 farmer from outside the village 2 input dealer 3 directly from company 4 government extension agent 5 other
17	What is the location of (16)?	locsellerseed	---
18	Was this the first time that you went to this provider?	firstsellerseed	yes 1 no 0
19	Did you apply any pesticides?	apest	yes 1 no 0
20	What was the total cost of pesticides for this cultivar?	pestcost	
21	How many times did you apply pesticide?	timespest	number per season
22	Give the timeline of the pesticide application	tmlnpest	for instance: 2M - 5M, means once after 2 months of sowing and once after 5 months M = month and D = day
23	Was this cultivar irrigated?	irrigate	yes 1 no 0
24	How many times did you irrigate the crop?	timesirri	number per season
25	Give the timeline of the water application	tmlnirri	For instance: 2M - 5M, means once after 2 months of sowing and once after 5 months M = month and D = day
26	Did you want to irrigate the crop more, but you could not?	moreirri	yes 1 no 0
27	Reason	reasirri	well permanently dry 1 well temporarily dry 2 well little water 3 no water in main canal 4 little water in main canal 5 no irrigation facilities 6 other
28	What were the total irrigation costs?	irricost	Rs
29	How much did you harvest	harvest	quintal
30	In how many pickings did you harvest the crop?	pickharv	number
31	How much did you sell?	sold	quintal

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
32	How much did you use for self-consumption?	self	quintal
33	How much did you lose?	lost	quintal
34	How much did you pay on storage and transportation costs?	transportcost	quintal
35	How much did you received in total from the sales of this crop?	revmainprod	Rs
26	How much did you receive in total from the sales of this crop?	revbyprod	Rs
none	Comments	comments	---

Additions to PF Questionnaire

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
	Progressive farmer number	hhno	
1	HH-head to whom PF talks daily	talkdaily	VLS number
1	HH-head to whom PF talks weekly	talkweekly	VLS number
1	HH-head to whom PF talks monthly	talkmonthly	VLS number
1	HH-head to whom PF talks yearly	talkyearly	VLS number
1	HH-head to whom PF talks every 2-3 year	talk2yearly	VLS number
1	HH-head to whom PF talks never	never	VLS number
2	Do you think the following person knows which cultivar(s) you have sown and how much yield you got from each cultivar this year? If yes	cultivaryes	VLS number
2	Do you think the following person knows which cultivar(s) you have sown and how much yield you got from each cultivar this year? If may be	cultivarmaybe	VLS number
2	Do you think the following person knows which cultivar(s) you have sown and how much yield you got from each cultivar this year? If no	cultivarno	VLS number

D. VILLAGE QUESTIONNAIRE

I. General village information

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format	
1	Name of village?	vilname	---	
2	Distance from the main road?	dmroad	km	
3	Qualities of that main road? Asphalt road (yes/no)	mrtard	yes no	1 0
3	Qualities of that main road? When road established?	mryear	year	
3	Qualities of that main road? When road asphalted?	mrtarded	year	
4	Distance from national highway?	disnahigh	km	
5	What is the town that the people <u>consider</u> nearest to them?	townname	---	
5	What is the town that the people <u>consider</u> nearest to them? Distance	towndis	km	
6	What is the usual means of transportation to this town?	transpre1 trans3yr1 trans5yr1 trans8yr1 trans8yr4	In Kanzara and Kinkhed 3,5, 8 years ago have been replaced by 5, 10 and 15 years ago	
7	How long does it take to get there using this means of transportation?	timepre1 time3yr1 time5yr1 time8yr1 time8yr4	minutes	
9	What is the town that is <u>actually</u> nearest to the village?	townvil	---	
9	What is the town that is <u>actually</u> nearest to the village?	townvild	km	
10	Nearest railway station?	townrail	---	
10	Nearest railway station? Distance	townrild	km	
10	Nearest railway station? Travel time	travelrail	minutes	
11	Facility of bus service in the village? Type	pvt/p/b/n	Private Public Both None	pvt p b n
11	Facility of bus service in the village? Frequency	buservfre	times per day	

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
12	Earliest post office in village?	postoff	---
12	Earliest post office in village? Distance	postofdis	km
12	Earliest post office in village? Travel time	postoftime	minutes
12	Earliest post office in village? When established?	postofyr	year
13	Earliest phone service in village?	phonserv	---
13	Earliest phone service in village? Distance	phonedis	km
13	Earliest phone service in village? Travel time	phonetim	minutes
13	Earliest phone service in village? When established?	phoneyr	year
14	Nearest internet access point?	netpoint	---
14	Nearest internet access point? Distance	netdis	km
14	Nearest internet access point? Travel time	nettime	minutes
15	Nearest banking facility?	banknam	---
15	Nearest banking facility? Distance	bankdis	km
15	Nearest banking facility? Travel time	banktim	minutes
15	Nearest banking facility? Year established?	bankyr	year
16	Since when cell phone coverage?	cellyear	year
17	Since when electricity in the village?	electyear	year
18	Since when does the village have piped water?	pwateryr	year
19	How many women self-help groups does this village have? For each group indicate the data that the activities started.	helpgrp1 helpyr1 helpgrp2 helpyr2 helpgrp3 helpyr3	
16	Regulated markets?	mrkt1 to mrkt4	---
16	Regulated markets? Distance	mrkt1dis to markt4dis	km
16	Regulated markets? Travel time	mrktime1 to rktime4	minutes
16	Regulated markets? Year established?	mrkt1yr to mrkt4yr	year

II. Village household profile

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
1	Name pradhan/sarpanch?	sarpnnam	---
2	Date interview?	dateintrv	day/month/year
3	Number of households in the village?	nh07-08 to nh01-02	number
4	Number of individuals in the village?	ni07-08 to ni01-02	number
5	Caste composition in 2008 Caste names	castnam1 to	---
6	Caste composition in 2008 Number of individuals	castnum1 to	number
7	Gender composition in 2008	female	number
8	Gender composition in 2008	male	number

Notes: Question (6) in case of Kanzara is number of households

III. Agricultural profile

Section A

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
---	Area under cotton	areacot07-08 to areacot01-02	acres hectare for Kanzara
---	Area under Bt cotton	areabt07-08 to areabt01-02	acres hectare for Kanzara
---	Number of farmers growing cotton	farmrcot07-08 to farmrcot01-02	number
---	Number of famers growing Bt cotton	farmrbt07-08 to farmrbt01-02	number
---	Bollworm pressure	bmpre07-08 to bmpre01-02	---
---	Ask three knowledge people in the village about their views on the climate during these years:	cperson1 to cperson3	not available in publicly available version
---	Ask three knowledge people in the village about their views on the climate during these years: Function	cfunct1 to cfunc3	1= first individual 2 = second individual 3 = third individual

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
---	What is your opinion about the rainfall pattern during the 2007-2008 year?	2007_a_1 to 2007_a_10 2007_b_1 to 2007_b_10 2007_c_1 to 2007_c_10	a = first individual b = second individual c = third individual
---	What is your opinion about the rainfall pattern during the 2006-2007 year?	2006_a_1 to 2006_a_10 2006_b_1 to 2006_b_10 2006_c_1 to 2006_c_10	a = first individual b = second individual c = third individual
---	What is your opinion about the rainfall pattern during the 2005-2006 year?	2005_a_1 to 2005_a_10 2005_b_1 to 2005_b_10 2005_c_1 to 2005_c_10	a = first individual b = second individual c = third individual
---	What is your opinion about the rainfall pattern of the upcoming 2008-2009 year?	2008_a_1 to 2008_a_10 2008_b_1 to 2008_b_10 2008_c_1 to 2008_c_10	a = first individual b = second individual c = third individual
---	Write down the village calendar below with the main events	cal01-02 to cal07-08	Note that the year starts 1 June.
---	List of popular cultivars Name	btnam1 btnam2 nbtnam1 nbtnam2	---
---	List of popular cultivars Expected yield	btexyd1 btexyd2 nbtexyd1 nbtexyd2	q/acre
---	List of popular cultivars Number of farmers using this cultivar	btfarm1 btfarm2 nbtfarm1 nbtfarm2	---

Section B

Note: The information in section B is incomplete.

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
---	Village?	village	---
---	Individual name	name	Not available in publicly available dataset
---	Individual function	function	---
---	Group (agricultural extension officers, agricultural NGOs, ICRISAT, other agricultural organizations)	group	extension ngo icrisat other
---	Who came?	who	---
---	When did they come?	when	---
---	What did they do?	what	---

Section C

List of progressive farmers in the village

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
---	Village?	village	---
---	Name	name	Not available in publicly available dataset
---	Function	function	---
---	New VLS number	newvls	---
---	Land owned	landown	acres
---	Other characteristics	other	
---	Rank given by Annemie to indicate level of importance of the farmer in terms on influence (top 4 is selected for random matching within sample game)	importance	

IV. Rainfall data

Monthly rainfall data

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
---	Which location?	location	---
---	Which year?	year	---
---	Which month?	month	---
---	How much rain fell that month?	rain	mm
---	What was the number of rain days that month?	number	number
---	What is the source of the data?	source	---

Daily rainfall data

Number of question	Question	Variable Name	Comments, Variable Codes and/or Format
---	Which year?	year	---
---	Which location?	location	---
---	Which day?	day	---
---	Which month?	month	---
---	How much rain fell that day?	rain	mm
---	What is the source of the data?	source	---

Appendix A: Location of places mentioned

Place mentioned	Taluka/Mandal	District	State
---	Anjan Gaon	Surji	Maharashtra
Akola	Akola	Akola	Maharashtra
Amangal	Amangal	Mahabubnagar	Andhra Pradesh
Amravati	Amravati	Amravati	Maharashtra
Aurangabad	Aurangabad	Aurangabad	Maharashtra
Aurepalle	Madgul	Mahbubnagar	Andhra Pradesh
Bavandlapaili	Madgul	Mahabubnagar	Andhra Pradesh
Bheechpally	Pebbair	Mahabubnagar	Andhra Pradesh
Bhrahmanpalli	Madgul	Mahabubnagar	Andhra Pradesh
Bhuthpur	Bhutpur	Mahabubnagar	Andhra Pradesh
Buldhana	Amravati	Amravati	Maharashtra
Charakonda	Vangoor	Mahbubnagar	Andhra Pradesh
Chipalam	?	?	?
Darva	Darva	Yavatmal	Maharashtra
	Dapalli		Andhra Pradesh
Dodlapahad	Madgul	Mahabubnagar	Andhra Pradesh
Hyderabad	Hyderabad	Hyderabad	Andhra Pradesh
Irvin	Madgul	Mahabubnagar	Andhra Pradesh
Jadcharla	Jadcharla	Mahabubnagar	Andhra Pradesh
Kalwakurthi	Kalwakurthi	Mahabubnagar	Andhra Pradesh
Kalwakurty	Kalwakurty	Mahabubnagar	Andhra Pradesh
Kammagudem	Madgul	Mahabubnagar	Andhra Pradesh
Kanzara	Murtizapur	Akola	Maharashtra
Karanja	Karanja	Washim	Maharashtra
Kinkhed	Murtizapur	Akola	Maharashtra
Kupata	Manora	Washim	Maharashtra
Kurmidda	Kalwakurthy	Mahabubnagar	Andhra Pradesh
Kudrimalla	Doultabad	Mahabubnagar	Andhra Pradesh
Madgul	Madgul	Mahabubnagar	Andhra Pradesh
Marigudem	Marigudem	Nalgonda	Andhra Pradesh
Murtizapur	Murtizapur	Akola	Maharashtra
Nallacheruvu	Madgul	Mahabubnagar	Andhra Pradesh
Nallavaripalli	Madgul	Mahbubnagar	Andhra Pradesh
Nimba	Balapur	Akola	Maharashtra
Pune	Pune	Pune	Maharashtra
Reddipuram	Madgul	Mahabubnagar	Andhra Pradesh
Reddypuram	Madgul	Mahabubnagar	Andhra Pradesh
Shadnagar	Shadnagar	Mahabubnagar	Andhra Pradesh
Sharakonda	Vangur	Mahabubnagar	Andhra Pradesh
Surat	Surat	Surat	Gujarat
Susarna	Dharni	Amravati	Maharashtra
Talakondapalli	Talakondapalli	Mahabubnagar	Andhra Pradesh
Vitalpalli	Amangal	Mahabubnagar	Andhra Pradesh
Washim	Washim	Washim	Maharashtra
---	Daryapur	Amravati	Maharashtra