

Appendix 1: Village-accountant survey

Village accountant survey

Name of village:

Name of village accountant:

Date:

1a.Main village in the village area:

1b.Other villages in the village area:

2a.Name and distance to the nearest city:

2b.Name and distance to the second nearest city:

2c.Location of the village relative to nearest city: N/E/S/W

=> *Ask for village map*

3a.Total geographical area of the village area (in acres):

3b.Land use forms (in acres):

Land use	2003	1998	1993
Cultivable land			
Net area sown			
Forest			
Pastures			
Village area			
Residential areas			
Industrial areas			
Roads			
Government land (functions: schools/ colleges..)			
Common lands			
Reasons for changes and locations of land use change:			

3c.Soil types:

Soil type (in %)	Red	Black	Mixed	Rocky/ hillside
Percentage				
Location				

4a.Used irrigation sources:

Sources	2003	1998	1993
Canal			
Tank			
Open well			
Wastewater (nrs)			
Borewell (nrs)			
Reasons:			

4b.Irrigation area

Acres under irrigation	2003	1998	1993
Mungary			
Hingary			
Summer			
Reasons:			

5. Population

	present	2001	1991
Inhabitants:			
Reasons for change (in/out-migration):			

6.a Land value:

Land value (laks p/acre)	Road side	Interior	Other:
2003			
1998			
1993			
Reasons:			

6b.

	2003	1998	1993
Land transactions			
In-/decrease of number:			
In/outside village buyers:			

7.a Economic activities

	2003	1998	1993
Percentage working outside village			
Percentage working in agriculture			
Percentage working off-farm			
Reasons:			

7b. Non-agricultural land use forms:

	2003	1998	1993
Brick kilns			
Mines			
Gowdams			
Garages			
Shops			
Industries/factories			
Market			
Restaurants/ hotels			
Petrol station			
Poultry farm			
Agro-industry			
Other:			
Reasons:			

7c. Estimate of number of workers:

Workers in	2003	1998	1993
Brick kilns			
Mining			
Industries/factories			
Commuters			

8.a. What are the dominant forms of transport for agricultural goods to the city (in %):

	Bus	Tractor	Tempo	Bullock card
2003				
1998				
1993				

8b. What are the dominant forms of transport for people to the city (in %):

	Bus	Tractor	Tempo	Jeep
2003				
1998				
1993				

10.a Crop wise land use in acres: 2003-1999

Crops	Mungary 2003-02	Hingary 2003-02	Mungary 2002-01	Hingary 2002-01	Mungary 2001- 1999	Hingary 2001-1999	Mungary 1999-98	Hingary 1999-98	Irrigated :
Cereals:									
Jowar									
Paddy									
Ragi									
Bajera									
Navane									
Wheat									
Sawi									
Maize									
Pulses:									
Bengal gram									
Green gram									
Horse gram									
Black gram									
Tur									
Alesandi									
Gurellu									
Avare									
Oilseeds:									
Sunflower									
Groundnut									
Castor									
Sesamum									
Soyabean									
Safflower									
Linseed									

<i>Non-food crops:</i>									
Cotton									
Tobacco									
Mulberry									
Vegetables:									
Chillies									
Onion									
Potato									
Garlic									
Peas									
Beans									
Ladyfinger									
Cucumber									
Brinjal									
Cauliflower									
Tomato									
Spices:									
Coriander									
Cardamom									
Horticulture :									
Mango									
Sapotha									
Guava									
Banana									
Betalnut									
Coconut									
Pome-grenade									
Papaya									
Lemon									
Teak									
Nime									
Floriculture									
Rose									
Jasmin									
Total:									

10b. What kind of crops have been experimented with in the village in the past?

10c. What are the reasons for the changes in cropping patterns?

Appendix 2: Landowners Land Use Questionnaire

Land owners Land Use Questionnaire

Name:

Date:

Village:

1.a Land ownership:

	Amount of land (acres)
Big (>10) > 4 ha	
Medium (5-10) 2-4 ha	
Small (0-5) 0-2 ha	

1b.Type of soil:

1c. Location of land relative to the village/ roadside in km:

2a.Do you lease any land (this year/ before), type of arrangement:

2b.What crops were grown before you leased it?

3a.Did you sell/ purchase any land? If yes, to who (private/government):

3b.Is there any non-agricultural land use on your land (brick kilns/ residential)?

4.a Do you own a tractor/ since when and do you hire out a tractor?

4b.How many animals do you own?

4c. Was there an increase or decrease in the number of animals the last 5 years
Reasons: (lack of fodder/drought/ financial problems/mechanisation)
Do you do any diary production?

5a.How long have you been farming here?

5b. What level of education do you have?

5c.How many family members share the income from this...acres of land?

5d.Your family is: nuclear/ joint?

5.e Family members engaged in different activities:

Members	Age	Main activity	In/outside village

5f. Is the income of your family now more or less than 5 years back?

6a. How much acres do you have under irrigation?

Irrigation	Acres	Sources
Present		
1998		
1993		

6b. If no, do you bring water to the field?

6c. If, yes, since when and what source (bore well)?

6d. Irrigation type (drip/sprinkler/tube):

7a. How many acres are under cultivation and under which crops in 2003

Crops	Mix cropping	Acres	Season	Irrigated
1				
2				
3				
4				
5				
6				
7				

7b. How many acres are under cultivation and under which crops in 1998?

Crops	Mix cropping	Acres	Season	Irrigated
1				
2				
3				
4				
5				
6				
7				

7c. Did you experiment with any crops?

8. Plantation/floriculture/vegetables

8a. Do you grow any plantation crops (*sapotha/ mango/ guava*)?

Number of trees:

Since when:

Reasons for plantation crops (less labour/ good investment/ demand/ etc.):

How do you mix your crops?

How did you get the idea for plantation crops (neighbours/ agricultural college/ others.):

8b. Do you cultivate any flowers?

Since when:

Reasons for flowers:

How did you get the idea for flowers:

8c. What kind of vegetables do you grow and on how many acres?

8d. Where do you sell your plantation crops/ flowers/ vegetables?

9a. Which of the field crops are for selling/ home consumption?

9b. Where do you sell these crops?

9c. Do you store any harvest?

9d. On what basis do you choose crops for next year (market prices/ suitable soil/ tradition/ other)?

10a. Do you have any permanent labourers (number)?

10b. Do you have any daily wagers?

10c. Is there an increase/ decrease in the number of labourers you have used the last 5 years? (with reasons)

10c. Do you have any problem with getting labourers?

11. Have you any future plans for agriculture or non-agricultural activities for you and your family (bore well, plantation crops/ off-farm employment)?

Appendix 3: Development in number of bore wells and area irrigated for all villages in the three transects.

Transect North:

Village:	cultivable area	bore wells 2003	bore wells 1998	Irrigated area 2003	Irrigated area 1998	% irrigated 2003	% irrigated 1998
Dharwad rural	2850 acres	38	20	62 acres	50 acres	2,2%	1,8%
<i>Malapur</i>	754 acres	12	4	24 acres	10 acres	3,2%	1,3%
<i>Kamalapur</i>	1657 acres	4	0	0 acre	0 acre	0,0%	0,0%
<i>Yadwad</i>	2965 acres	30	13	57 acres	30 acres	1,9%	1,0%
<i>Shibargatti</i>	739 acres	6	3	17 acres	9 acres	2,3%	1,2%
<i>Kurabagatti</i>	1442 acres	22	14	60 acres	45 acres	4,2%	3,1%
<i>Lokur</i>	2412 acres	40	25	120 acres	55 acres	5,0%	2,3%
<i>Amminbhavi</i>	10922 acres	60	40	250 acres	200 acres	2,3%	1,8%
<i>Lakamapur</i>	1251 acres	15	8	75 acres	20 acres	6,0%	1,6%
<i>Heballi</i>	12646 acres	25	8	75 acres	30 acres	0,6%	0,2%

Source: Collected data from interviews with village-accountants (2003)

Transect South:

Village:	cultivable area	bore wells 2003	bore wells 1998	Irrigated area 2003	Irrigated area 1998	% irrigated 2003	% irrigated 1998
<i>Navalur</i>	5139 acres	200	75	250 acres	200 acres	4,9%	3,9%
<i>Rayapur</i>	551 acres	4	4	24 acres	24 acres	4,4%	4,4%
<i>Lakmanhalli</i>	850 acres	17	9	55 acres	30 acres	6,5%	3,5%
<i>Jogellapur</i>	353 acres	6	3	14 acres	50 acres	4,0%	14,2%
<i>Manigundi</i>	3933 acres	26	10	25 acres	150 acres	0,6%	3,8%
<i>Salakinkoppa</i>	987 acres	14	6	45 acres	70 acres	4,6%	7,1%
<i>Baad</i>	1115 acres	22	10	70 acres	22 acres	6,3%	2,0%
<i>Nigadi</i>	1070 acres	9	7	20 acres	16 acres	1,9%	1,5%
<i>Devarhuballi</i>	1252 acres	55	25	75 acres	500 acres	6,0%	39,9%

Source: Collected data from interviews with village-accountants (2003)

Transect West:

<i>Village:</i>	cultivable area (acres)	bore wells 2003	bore wells 1998	Irrigated area 2003	Irrigated area 1998	% irrigated 2003	% irrigated 1998
Hiremalligwad	751 acres	6	2	24 acre	8 acres	3,2%	1,1%
<i>Chikmalligwad</i>	817 acres	6	2	20 acre	10 acres	2,4%	1,2%
<i>Devageri</i>	541 acres	6	1	20 acre	150 acres	3,7%	27,7%
<i>Yattinguda</i>	507 acres	4	0	30 acre	0 acre	5,9%	0,0%
<i>Narendra</i>	2663 acres	35	10	100 acre	40 acres	3,8%	1,5%
<i>Mummigatti</i>	1776 acres	16	4	65 acre	40 acres	3,7%	2,3%
<i>Belur</i>	854 acres	26	15	72 acre	40 acres	8,4%	4,7%

Source: Collected data from interviews with village-accountants (2003)