

Dakshin Kabirkathi Village at a Glance: Patuakhali, Bangladesh

Salient features of the VDSA Project sample village



Village Dynamics in South Asia (VDSA) Project

VDSA Project has been collecting panel data on farm households in South Asia. Based on these panel data, it provides profound insights into the social and economic changes in the village and household economies in the South Asia. The project collecting long-term socioeconomic data to better link and strengthens research, policy, and capacity building activities.

VDSA is funded by the Bill and Melinda Gates Foundation and implemented jointly by International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Indian Council for Agriculture Research (ICAR), and International Rice Research Institute (IRRI).

Humnath Bhandari, Abdur Rouf Sarkar, Samarendu Mohanty, Alamgir Chowdhury, Rafiqul Islam

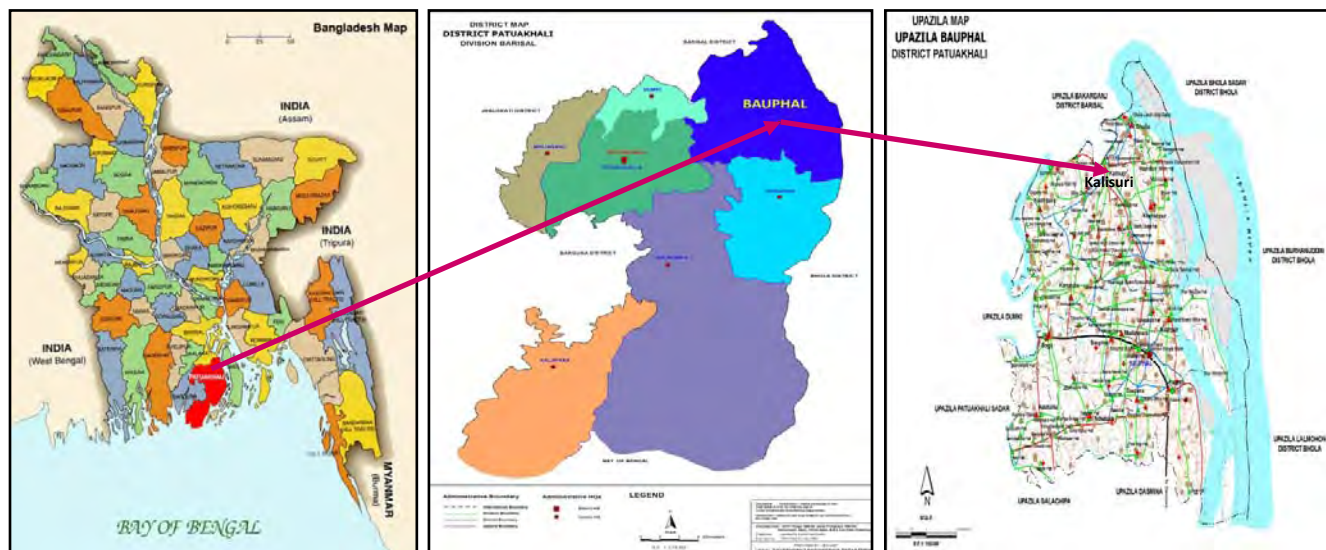
Social Sciences Division
International Rice Research
Institute (IRRI)
Los Banos, Laguna 4031
Philippines

2013

Basic information about the village

A) LOCATION AND BASIC CHARACTERISTICS

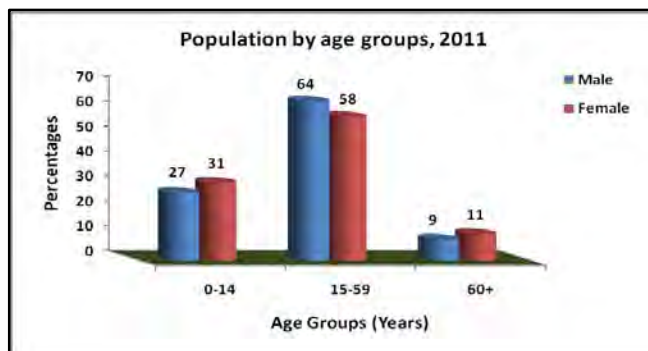
Name of the village	:	Dakshin Kabirkathi
Name of the union	:	Kalisuri
Name of the Upazila	:	Bauphal
Name of the district	:	Patuakhali
Agro-ecological zone (AEZ)	:	Ganges Tidal Floodplain (AEZ 13)
Agro-ecology	:	Coastal
Development infrastructures	:	Unfavorable
Distance from Upazila HQ	km	14
Distance from district HQ	km	38
Latitude (N)	:	21°95'
Longitude (E)	:	90°37'
Total land area (whole village)	ha	136.05
Total land area (sample households)	ha	29.62
Total households (whole village)	no.	187
Total households (sample households)	no.	41
Total population (whole village)	no.	951 (Male: 481; Female: 470)
Total population (sample households)	no.	249 (Male: 128; Female: 121)
Households involved in crop production	%	71
Distance from nearest district town	km	42
Distance from nearest national highways	km	42
Head of the village	:	Union Parishad Member



B) DEMOGRAPHY OF THE SAMPLE HOUSEHOLDS (as of 2011)

Classification of Population

Population density (Sq. km)	: 699
Population growth rate (%/yr)	: 0.81
Child-women ratio (Per 1000)	: 249
Male-Female sex ratio	: 106
Income earner (Person/hh)	: 1.02
Dependency ratio (%)	: 64



Classification of Households

Male headed households (no.)	: 36
Female headed households (no.)	: 5
Total households (no.)	: 41

Household and population, by types of religion

Types of religion	Household (no.)	Population (no.)
Islam	41	249
Hindu	0	0

Distribution of households and their family size, by farm size category

Farm household category*	Number of household	Percentage share in all farms	Family size (Person/Household)
Landless	15	36.58	5.93
Small	23	56.10	6.09
Medium	1	2.44	6.00
Large	2	4.88	9.00
All farms	41	100	6.17

*Landless (<=0.2 ha), Small (0.21-1.00 ha), Medium (1.01-2.00 ha) & Large (>2.00 ha)

Educational Level

Number of literate persons and literacy rate of the population

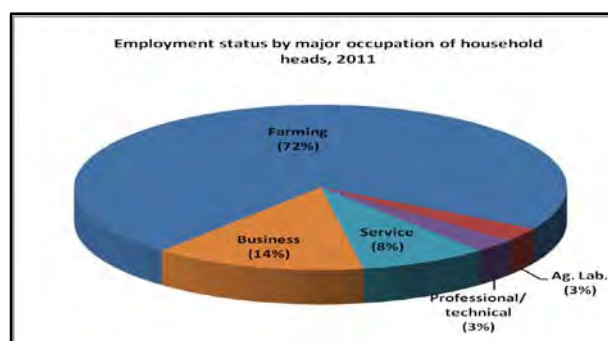
Levels of education*	Male (no.)	Female (no.)	Both sex (no.)
Illiterate	6	8	14
Can sign only	12	12	24
Primary	21	25	46
Secondary	63	50	113
Higher secondary	7	9	16
Technical/vocational	3	-	3
Graduate & above	6	3	9
Total literate persons	112	99	211
Literacy rate (%)	83.33	77.68	80.60

* Literacy rate was calculated for people aged 5 years and above.

Occupation

Employment status, by major occupation

Types of occupation	Population (no.)
Farming	34
Agricultural labor	1
Non-agricultural labor	2
Professional or technical worker	2
Service worker	35
Business	8
Total economically active persons	42
Total economically inactive persons	167



Wage rates of farm and non-farm labor, by gender

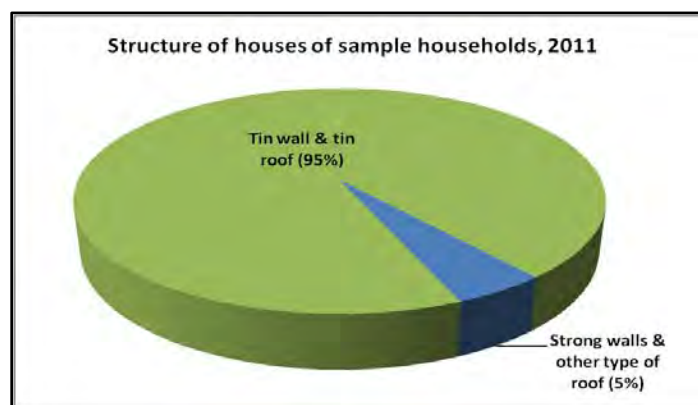


Migrated population in the sample households

Migration	Both sex (no.)	Male (no.)	Female (no.)
Within the district	5	0	5
Another district	50	36	14
Foreign country	3	3	0
Total out-migration	58	39	19
Total in-migration	0	0	0

C) OWNERSHIP OF ASSETS OF THE SAMPLE HOUSEHOLDS (as of 2011)

Structure of houses of the sample households



Possession of livestock and poultry

Types of livestock	Total numbers	Average (no./hh)
Bullocks	44	1.07
Cows	43	1.05
Young cattle/calf	15	0.37
Goat	6	0.15
Poultry	704	17.17

Possession of agricultural/farm assets of the sample households

Farm machinery	Total numbers	Average (no./hh)
Local plough (iron/wooden)	20	0.49
Sprayers	5	0.12
Weeding implements	56	1.37
Power tiller/tractor	1	0.02
Deep tube well (DTW)	1	0.02
Power pump (LLP)	1	0.02
Husking machine	2	0.05
Thresher	11	0.27
Agro processing unit	89	2.17
Rice/flour/grinding mills	1	0.02
Other minor implements	152	3.71

Possession of consumer assets of the sample households

Types	Total numbers	Average (no./hh)
Television	7	0.17
Radio	3	0.07
Mobile phone	43	1.05
Tape recorder	3	0.07
Watches	25	0.61
Sewing machine	3	0.07
Fan	36	0.88
Auto	1	0.02
Fridge	1	0.02
Bicycle/rickshaw	10	0.24

Percentage of sample households of resource ownership and decision making, by gender

Particulars	Male	Female	Jointly
1) Asset ownership			
Land	95	0	5
Livestock	12	0	80
Credit	5	0	44
Machinery	7	0	49
Investment	5	0	88
2) Decision making for input use			
Seeds	39	2	51
Fertilizers	49	2	46
Pesticides	49	2	46
Family labor	44	2	54
Hired labor	41	2	54
3) Decision making for output sell			
Crop main production	12	0	85
Sale quantity	5	0	93
Fodder production & use	2	0	95
4) Decision making for other activities			
Children marriage	0	0	80
Education of children	0	0	90
Coping mechanisms for disaster	0	0	98
Household maintenance	0	0	100
Migration	0	0	59
Pleasure trip	0	0	98
Whom to give vote	0	0	100

*Sample households which belong to landless group and did not grow any crops were excluded.

D) LAND RESOURCES OF THE SAMPLE HOUSEHOLDS (as on 2011)

Area coverage per household, by types of land

Land types	Area (ha)	% of total area
Medium slope	0.0180	2.56
High land	0.0937	13.34
Medium land	0.5757	81.94
Low land	0.0152	2.16

Area coverage per household, by types of soil

Soil types	Area (ha)	% of total area
Sandy soil	0.0089	1.26
Loamy	0.3157	44.93
Sandy loam	0.2193	31.22
Clay	0.0030	0.43
Clay loam	0.1557	22.16

E) LAND USE PATTERN OF THE SAMPLE HOUSEHOLDS (As on 2011)

Per capita total land (ha)	:	0.1431
Per capita agricultural land (ha)	:	0.1221
Per capita homestead area (ha)	:	0.0045
Per capita homestead garden and bush (ha)	:	0.0165

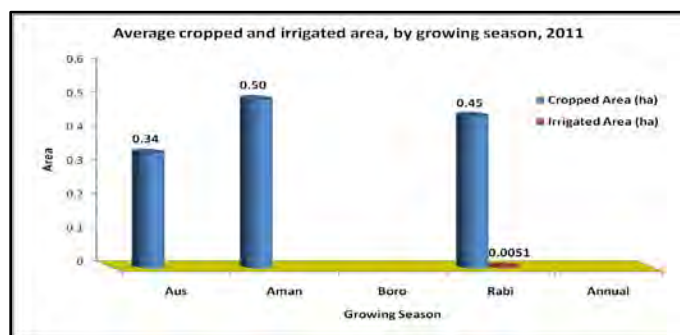
Total land status, by land ownership

Ownership	Total land area (ha/hh)	Total irrigated area (ha/hh)
Own land	0.4877	0.4820
Leased-in on crop share	0.0147	0.0147
Leased-in on fixed rent	0.1861	0.1861
Leased-out on crop share	0.0092	0.0092
Leased-out on fixed rent	0.1471	0.1471
Mortgaged-in	0.0140	0.0140
Mortgaged-out	0.0315	0.0315
Operated area	0.5148	0.5090

Average area per household of major land patterns, by growing season (area in hectare)

Enterprises	Aus	Aman	Boro	Rabi	Annual
Cropped area	0.3426	0.5020	-	0.4518	-
Pond/fish culture			-	-	-
Agro-forestry			-	-	0.0052
Fallow land	0.0358	0.0130	0.4878	0.0258	-

*Total operated area may differ from season to season due to changes in land ownership patterns.



Area coverage, by sources of irrigation

Irrigation source	Area (ha/hh)	% of total area
STW	0.5090	100

F) Crop Production (As on 2011)

Seasonality of cropping calendar

S	January				February				March				April				May				June				July				August				September				October				November				December			
	Week				Week				Week				Week				Week				Week				Week				Week				Week				Week				Week							
L	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
1																																																
2																																																
3																																																
4																																																
5																																																
6																																																
7																																																

Legend:

	1	Aus (Rice)		3	Legumes		5	Coriander		7	Arum
	2	T. Aman (Rice)		4	Chilli		6	Tomato			

Crops area and yield, by growing season (area in hectare)

Enterprises	Aus	Aman	Boro	Rabi	Annual
1) Cereal Crops:					
Paddy	0.3426 (2.87)	0.5020 (2.45)	-	-	-
2) Pulse Crops:					
Chickpea	-	-	-	0.0150 (0.42)	-
Grass Pea	-	-	-	0.3443 (0.41)	-
Green Gram	-	-	-	0.0421 (0.15)	-
Lentil	-	-	-	0.0185 (0.45)	-
3) Spice Crops:					
Chilli	-	-	-	0.0250 (1.30)	-
Coriander	-	-	-	0.0030 (1.07)	-
4) Vegetables:					
Tomato	-	-	-	0.0034 (3.62)	-
Arum	-	-	-	0.0006 (9.33)	-
Gross Cropped Area	0.3426	0.5020	-	0.4518	-

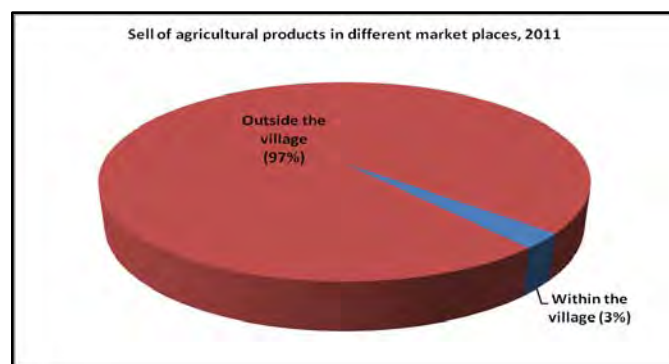
*Figure in the parenthesis indicates yield in metric tonne per hectare.

Seasonal cropped area, by types of variety of the sample households (area in hectare)

Variety types	Rice			Non-rice			Annual
	Aus	Aman	Boro	Kharif-I	Kharif-II	Rabi	
Local	0.0960	0.5012	0	0	0	0.4484	0
Modern	0.2466	0.0008	0	0	0	0.0034	0
Hybrid	0	0	0	0	0	0	0
Total area	0.3426	0.5020	0	0	0	0.4518	0

Production, consumption and sale of all agricultural commodities

Particulars	Amount
Crop production (metric tonne/hh)	2.40
Sell (metric tonne/hh)	0.48
Sell of total production (%)	21
Consumption of total production (%)	79



Sell of agricultural products, by different market intermediaries

Market intermediaries	Percentages
Large trader/shop	0
Middleman/broker	100
Money lender	0
Input supplier	0

G) BORROWING AND SAVINGS BY SAMPLE HOUSEHOLDS (as on 2011)

Membership of household members in different organizations (unit in numbers)

Name of organization	Male	Female	Both sex
Cooperative society	2	0	2
Grameen bank	0	11	11
BRAC	2	2	4
Other NGOs/local NGOs	2	4	6

Institutional and non-institutional sources of borrowing and saving

Sources	Numbers*	Amount (Tk/hh)	Annual interest rate (%)
A) Borrowing			
Cooperatives	1 (2.44)	122	72.00
NGOs	16 (39.02)	13146	14.75
Public bank	1 (2.44)	122	8.00
Friends & relatives	5 (12.20)	2780	0
Money lender	1 (2.44)	610	48.00
B) Saving			
Bank	9 (21.86)	828	-
Cooperatives	1 (2.44)	59	-
NGOs	19 (46.34)	973	-

*Figure in the parenthesis indicates percentage of total.

H) INFRASTRUCTURE AND ACCESSIBILITY

Nearest market place (Name & distance)	:	Kalisuri; 2.0 km
Distance from the village market to Upazila market (km)	:	17
Distance from the village market to district market (km)	:	42
Mode of transportation	:	Motor cycle, Tomtom, Van, Rickshaw
Number of primary schools	:	1
Number of high schools	:	Nil
Number of colleges	:	Nil
Total number of shops in the village	:	2
Number of rice husking mills in the village	:	3
Number of public health clinic/centre	:	Nil
Number of private health clinic/centre	:	Nil
Number of religious institute in the village	:	(6) Mosque, (0) Temple, (0) Church
Number of hand tube-well for drinking water	:	13

Others business units in the village (Unit in Numbers)

Grocery Shop	:	2	PDS Shop	:	0	Hotel/Canteen	:	0
Meat Shop	:	0	Carpenter	:	0	Blacksmith	:	0
Medical Shop	:	0	Mason	:	5	TV/Radio Mechanic	:	0
Money Lenders	:	0	Cold Storage	:	0	Milk Dairy	:	0
Cobbler	:	0	Cycle Repair Shop	:	0	Cyber Shop	:	0

Agricultural input shops in the village

Input	Available in village (Yes/No)	If NO, name of nearest available place	Distance from village (km)
Seed	No	Kalisuri	2
Fertilizer	No	Kalisuri	2
Pesticide	No	Kalisuri	2
Machinery-purchase	No	Kalisuri	2
Machinery-custom hiring	Yes	-	-

Access to basic facilities of the sampled households

Facilities	Available in village	If YES, no. of house having access	Percentage of total households
Health facility	No	-	-
Drinking water facility	Yes	2	4.88
Toilet facility	Yes	41	100
Bathroom facility	Yes	4	9.76
Tap water connection	No	-	-
Village electrification	Yes	17	41.46
Dish connection/TV cable	No	-	-
Cooking gas facility	No	-	-

Access to sources of information of the sample households

Sources of information	Numbers (Index)	Rank
Block supervisor/union agri. officer	4.55	4
Community leaders	5.98	3
Field days	0.53	7
Input supplier	6.69	2
NGOs	4.11	6
Relatives, friends and neighbors	7.04	1
Television	4.16	5
Village panchayat/leader (Chairman)	0.11	8

D) GOVERNMENT WELFARE PROGRAMS

Access to social safety nets programs of the sample households

Government program	Beneficiaries*	Average amount (Tk/year/hh)
Integrated mother & child development program	5 (12.20)	152
Family planning	16 (39.02)	168
Old aged pension	4 (9.76)	2025
Widow pension	1 (2.44)	3600
Agriculture input subsidy/crop production program	8 (19.51)	1500
National family benefits scheme	1 (2.44)	1500
Scholarships and economic assistance	15 (36.59)	1240
Vulnerable group feeding (VGF)	1 (2.44)	4200

*Figure in the parenthesis indicates percentage of total household.