

Paschim Bahadurpur Village at a Glance: Madaripur, 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, Showkot Hossain

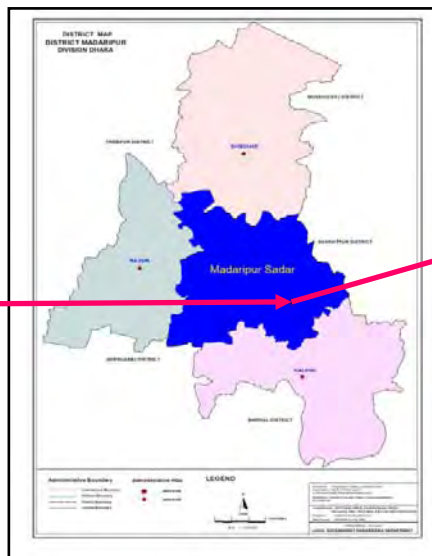
Social Sciences Division
International Rice Research
Institute (IRRI)
Los Banos, Laguna 4031
Philippines

2013

Basic information about the village

A) LOCATION AND BASIC CHARACTERISTICS

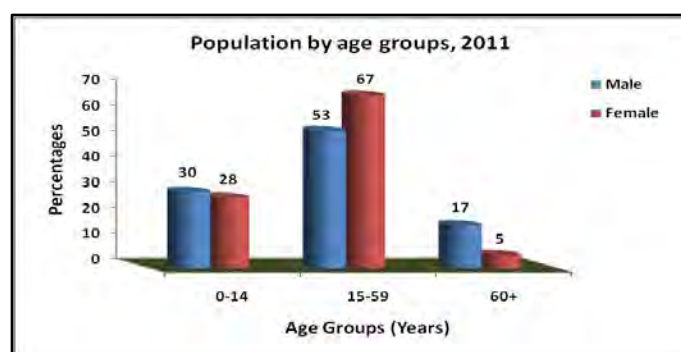
Name of the village	:	Paschim Bahadurpur
Name of the union	:	Bahadurpur
Name of the Upazila	:	Madaripur Sadar
Name of the district	:	Madaripur
Agro-ecological zone (AEZ)	:	Low Ganges River Floodplain (AEZ 12)
Agro-ecology	:	Unfavorable-flood prone
Development infrastructures	:	Unfavorable
Distance from Upazila HQ	km	17
Distance from district HQ	km	20
Latitude (N)	:	23°23'
Longitude (E)	:	90°15'
Total land area (whole village)	ha	60.58
Total land area (sample households)	ha	40.09
Total households (whole village)	no.	169
Total households (sample households)	no.	40
Total population (whole village)	no.	937 (Male: 486; Female: 451)
Total population (sample households)	no.	234 (Male: 114; Female: 120)
Households involved in crop production	%	75
Distance from nearest district town	km	16
Distance from nearest national highways	km	10.5
Head of the village	:	Union Parishad Member



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

Classification of Population

Population density (Sq. km)	: 1606
Population growth rate (%/yr)	: -0.85
Child-women ratio (Per 1000)	: 147
Male-Female sex ratio	: 95
Income earner (Person/hh)	: 2.08
Dependency ratio (%)	: 69



Classification of Households

Male headed households (no.)	: 29
Female headed households (no.)	: 11
Total households (no.)	: 40

Household and population, by types of religion

Types of religion	Household (no.)	Population (no.)
Islam	40	234
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	16	40.00	5.56
Small	20	50.00	6.50
Medium	3	7.50	7.00
Large	1	2.50	3.00
All farms	40	100	6.08

*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	20	32	52
Can sign only	23	7	30
Primary	19	35	54
Secondary	38	38	76
Higher secondary	2	1	3
Total literate persons	82	81	163
Literacy rate (%)	55.14	64.35	59.91

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

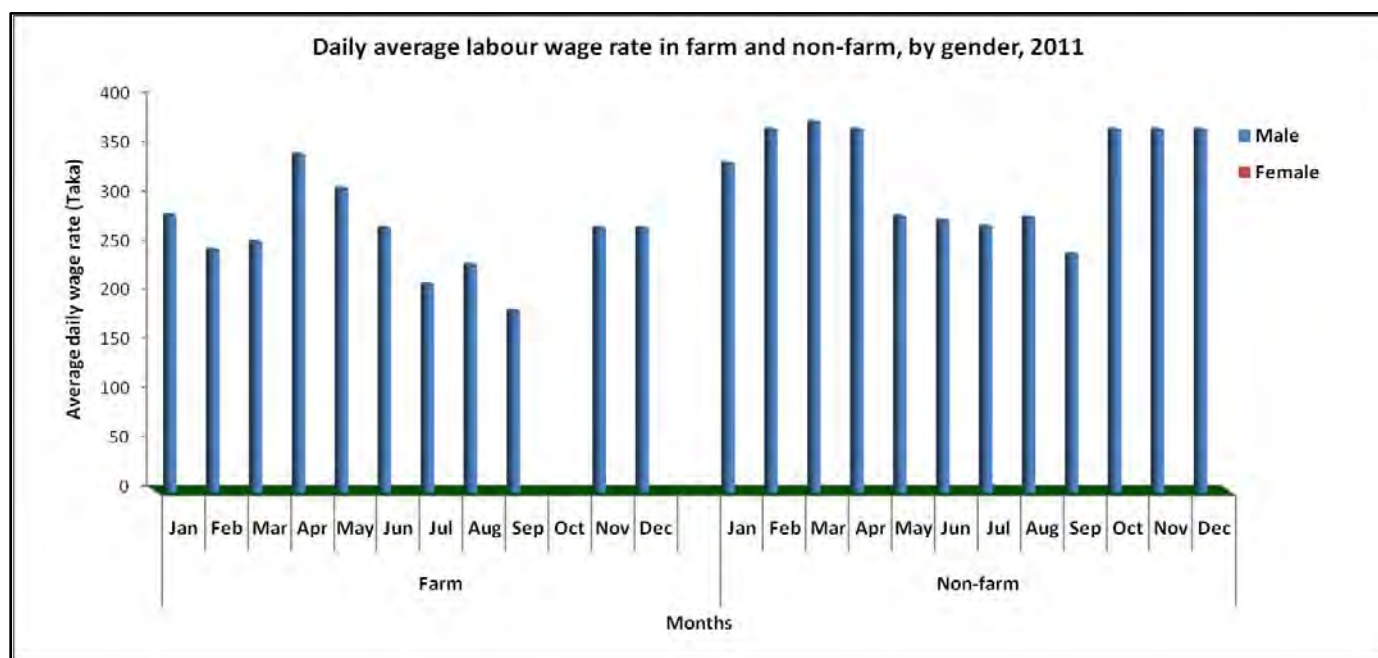
Occupation

Employment status, by major occupation

Types of occupation	Population (no.)
Farming	36
Agricultural labor	0
Non-agricultural labor	2
Professional or technical worker	0
Service worker	39
Business	6
Total economically active persons	83
Total economically inactive persons	151



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

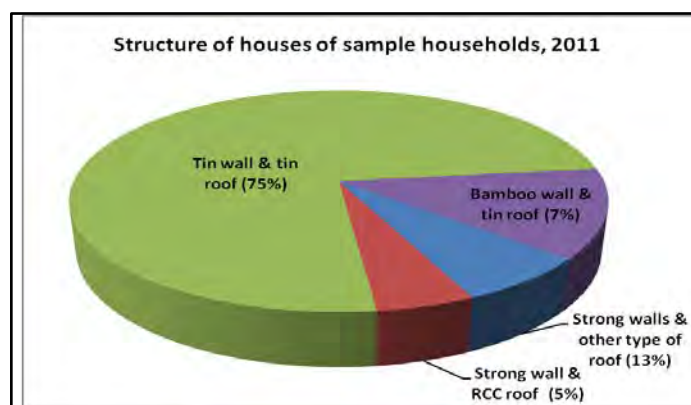


Migrated population in the sample households

Migration	Both sex (no.)	Male (no.)	Female (no.)
Within the district	5	3	2
Another district	24	19	5
Foreign country	19	17	2
Total out-migration	48	39	9
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)
Cow	19	0.48
Young cattle/calf	33	0.83
Goat	35	0.88
Poultry	295	7.38

Possession of agricultural/farm assets of the sample households

Farm machinery	Total numbers	Average (no./hh)
Sprayers	1	0.03
Weeding implements	73	1.83
Power tiller/tractor	1	0.03
Shallow tube well (STW)	1	0.03
Power pump (LLP)	5	0.13
Thresher	1	0.03
Agro processing unit	53	1.33
Other minor implements	131	3.28

Possession of consumer assets of the sample households

Types	Total numbers	Average (no./hh)
Television	20	0.50
Mobile phone	57	1.43
Tape recorder	17	0.43
Watches	36	0.90
Sewing machine	3	0.08
Fan	89	2.23
Motor cycle	2	0.05
Computer	1	0.03
Refrigerator	12	0.30
Bicycle/rickshaw	6	0.15

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

Particulars	Male	Female	Jointly
1) Asset ownership			
Land	85	0	12
Livestock	5	7	55
Credit	0	0	40
Machinery	0	2	45
Investment	0	0	82
2) Decision making for input use			
Seeds	5	0	80
Fertilizers	8	0	83
Pesticides	8	0	83
Family labor	18	3	75
Hired labor	5	0	80
3) Decision making for output sell			
Crop main production	3	0	88
Sale quantity	3	0	88
Fodder production & use	0	0	65
4) Decision making for other activities			
Children marriage	0	3	85
Education of children	0	3	78
Coping mechanisms for disaster	0	5	93
Household maintenance	0	8	92
Migration	0	3	73
Pleasure trip	0	0	98
Whom to give vote	0	5	95

*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

Area coverage per household, by types of soil

Land types	Area (ha)	% of total area
High land	0.0256	2.64
Medium land	0.8201	84.35
Low land	0.1265	13.01

Soil types	Area (ha)	% of total area
Loamy	0.0088	0.91
Sandy loam	0.0082	0.84
Clay loam	0.9553	98.25

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

Total land status by land ownership

Per capita total land (ha)	: 0.0623
Per capita agricultural land (ha)	: 0.0562
Per capita homestead area (ha)	: 0.0041
Per capita homestead garden and bush (ha)	: 0.0020

Ownership	Total land area (ha/hh)	Total irrigated area (ha/hh)
Own land	0.5541	0.5038
Leased-in on crop share	0.2488	0.1641
Leased-in on fixed rent	0.0725	0.0661
Leased-out on crop share	0.0639	0.0471
Leased-out on fixed rent	0.0170	0.0170
Mortgaged-in	0.0969	0.0647
Mortgaged-out	0.2575	0.2387
Operated area	0.6339	0.4960

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

Enterprises	Aus	Aman	Boro	Rabi	Annual
1) Cereal Crops:					
Paddy	-	0.4191 (1.85)	0.0091 (4.79)	-	-
Wheat	-	-	-	0.0288 (3.17)	-
2) Cash Crops:					
Jute	0.3206 (1.37)	-	-	-	-
3) Pulse Crops:					
Black Gram	-	-	-	0.0133 (0.53)	-
Grass Pea	-	-	-	0.0837 (1.14)	-
Lentil	-	-	-	0.0456 (0.65)	-
Pigeon Pea	-	-	-	0.0126 (0.76)	-
4) Oilseed Crops:					
Mustard	-	-	-	0.0210 (1.27)	-
5) Spice Crops:					
Black Cumin	-	-	-	0.0530 (0.76)	-
Coriander	-	-	-	0.0267 (1.45)	-
Garlic	-	-	-	0.0012 (3.50)	-
Onion	-	-	-	0.0015 (1.87)	-
6) Mixed Crops	-	-	-	0.3399 (0.81)	-
Gross Cropped Area	0.3206	0.4191	0.0091	0.6273	-

*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)

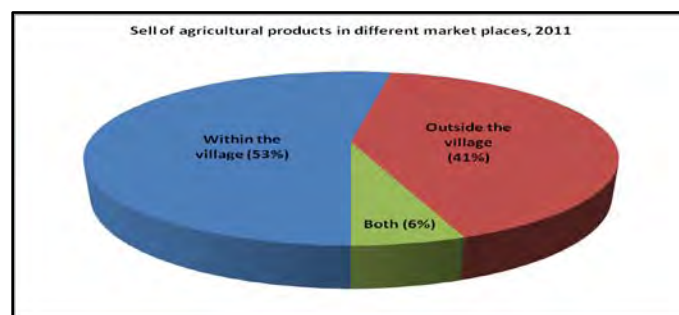
Variety types	Rice			Non-rice			Annual
	Aus	Aman	Boro	Kharif-I	Kharif-II	Rabi	
Local	0	0.4191	0	0.0024	0	0.5827	0
Modern	0	0	0.0091	0.3182	0	0.0446	0
Hybrid	0	0	0	0	0	0	0
Total area	0	0.4191	0.0091	0.3206	0	0.6273	0

Production, consumption and sale of all agricultural commodities

Particulars	Amount
Crop production (metric tonne/hh)	2.44
Sell (metric tonne/hh)	0.98
Sell of total production (%)	40
Consumption of total production (%)	60

Sell of agricultural products, by different market intermediaries

Market intermediaries	Percentages
Large trader/shop	0
Middleman/broker	100
Money lender	0
Input supplier	0
Neighbor	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
Grameen bank	0	6	6
BRAC	1	3	4
Other NGOs/local NGOs	3	3	6

Institutional and non-institutional sources of borrowing and saving

Sources	Numbers*	Amount (Tk/hh)	Annual interest rate (%)
A) Borrowing			
NGOs	23 (57.50)	16550	14.30
Friends & relatives	2 (5.00)	750	0
Moneylender	1 (2.50)	1250	100
B) Saving			
Bank	14 (35.00)	45928	-
Cooperatives	1 (2.50)	30	-
NGOs	13 (32.50)	1958	-

*Figure in the parenthesis indicates percentage of total.

H) INFRASTRUCTURE AND ACCESSIBILITY

Nearest market place (Name & distance)	:	Rajarhat; 1.5 km
Distance from the village market to Upazila market (km)	:	14
Distance from the village market to district market (km):	:	15
Mode of transportation	:	Van, Motor cycle, Bicycle, Nosimon, Auto, Rickshaw, CNG
Number of primary schools	:	1
Number of high schools	:	Nil
Number of colleges	:	Nil
Total number of shops in the village	:	4
Number of rice husking mills in the village	:	Nil
Number of public health clinic/centre	:	Nil
Number of private health clinic/centre	:	Nil
Number of religious institute in the village	:	(3) Mosque, (0) Temple, (0) Church
Number of hand tube-well for drinking water	:	63

Others business units in the village (unit in numbers)

Grocery Shop	:	4	PDS Shop	:	0	Hotel/Canteen	:	0
Meat Shop	:	0	Carpenter	:	0	Blacksmith	:	0
Medical Shop	:	0	Mason	:	0	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	Rajarhat	1.5
Fertilizer	No	Rajarhat	1.5
Pesticide	No	Rajarhat	1.5
Machinery-purchase	No	Rajarhat	1.5
Machinery-custom hiring	No	Rajarhat	1.5

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	34	85.00
Toilet facility	Yes	37	92.50
Bathroom facility	Yes	6	15.00
Tap water connection	Yes	2	5.00
Village electrification	Yes	33	82.50
Dish connection/TV cable	Yes	4	10.00
Cooking gas facility	Yes	3	7.50

Access to sources of information of the sample households

Sources of information	Numbers (Index)	Rank
Block supervisor/union agri. officer	5.13	4
Community leaders	6.11	2
Input supplier	5.82	3
National news paper	0.35	7
NGOs	1.24	6
Relatives, friends and neighbors	7.27	1
Television	4.51	5

I) GOVERNMENT WELFARE PROGRAMS

Access to social safety net programs of the sample households

Government program	Beneficiaries*	Average amount (Tk/year/hh)
Integrated mother & child development program	4 (10.00)	143
Family planning	7 (17.50)	177
Old aged pension	4 (10.00)	3600
Agriculture input subsidy/crop production program	15 (37.50)	200
Scholarships and economic assistance	12 (30.00)	1300
Free health camps	27 (67.50)	205
Vulnerable group development (VGD)	2 (5.00)	1150

*Figure in the parenthesis indicates percentage of total household.