

Khudiakhali Village at a Glance: Chuadanga, 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.

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Basic information about the village

A) LOCATION AND BASIC CHARACTERISTICS

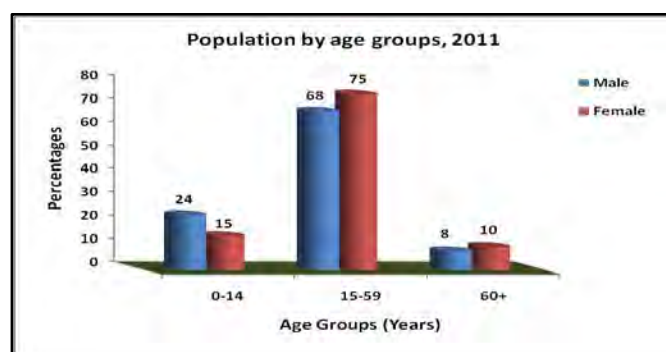
Name of the village	:	Khudiakhali
Name of the union	:	Jehala
Name of the Upazila	:	Alamdanga
Name of the district	:	Chuadanga
Agro-ecological zone (AEZ)	:	High Ganges River Floodplain (AEZ 11)
Agro-ecology	:	Unfavorable-drought
Development infrastructures	:	Favorable
Distance from Upazila HQ	km	11
Distance from district HQ	km	7
Latitude (N)	:	23°64'
Longitude (E)	:	88°85'
Total land area (whole village)	ha	93.45
Total land area (sample households)	ha	27.30
Total households (whole village)	no.	233
Total households (sample households)	no.	40
Total population (whole village)	no.	1004 (Male: 520; Female: 484)
Total population (sample households)	no.	186 (Male: 97; Female: 89)
Households involved in crop production	%	72
Distance from nearest district town	km	7
Distance from nearest national highways	km	7
Head of the village	:	Union Parishad Member



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

Classification of Population

Population density (Sq. km)	: 1074
Population growth rate (%/yr)	: -3.63
Child-women ratio (Per 1000)	: 55
Male-Female sex ratio	: 109
Income earner (Person/hh)	: 1.75
Dependency ratio (%)	: 40



Classification of Households

Male headed households (no.)	: 38
Female headed households (no.)	: 2
Total households (no.)	: 40

Household and population, by types of religion

Types of religion	Household (no.)	Population (no.)
Islam	35	161
Hindu	5	25

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	17	42.50	3.94
Small	17	42.50	5.00
Medium	5	12.50	5.80
Large	1	2.50	12.00
All farms	40	100	4.83

*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

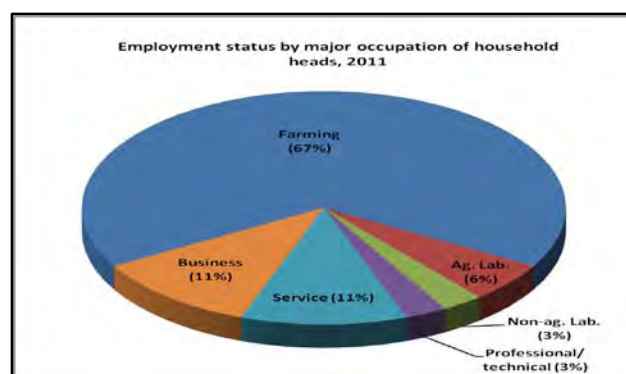
Levels of education*	Male (no.)	Female (no.)	Both sex (no.)
Illiterate	6	15	21
Can sign only	1	4	5
Primary	17	12	29
Secondary	39	43	82
Higher secondary	13	7	20
Technical/vocational	0	1	1
Graduate & above	9	3	12
Total literate persons	79	70	149
Literacy rate (%)	87.64	76.74	82.29

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

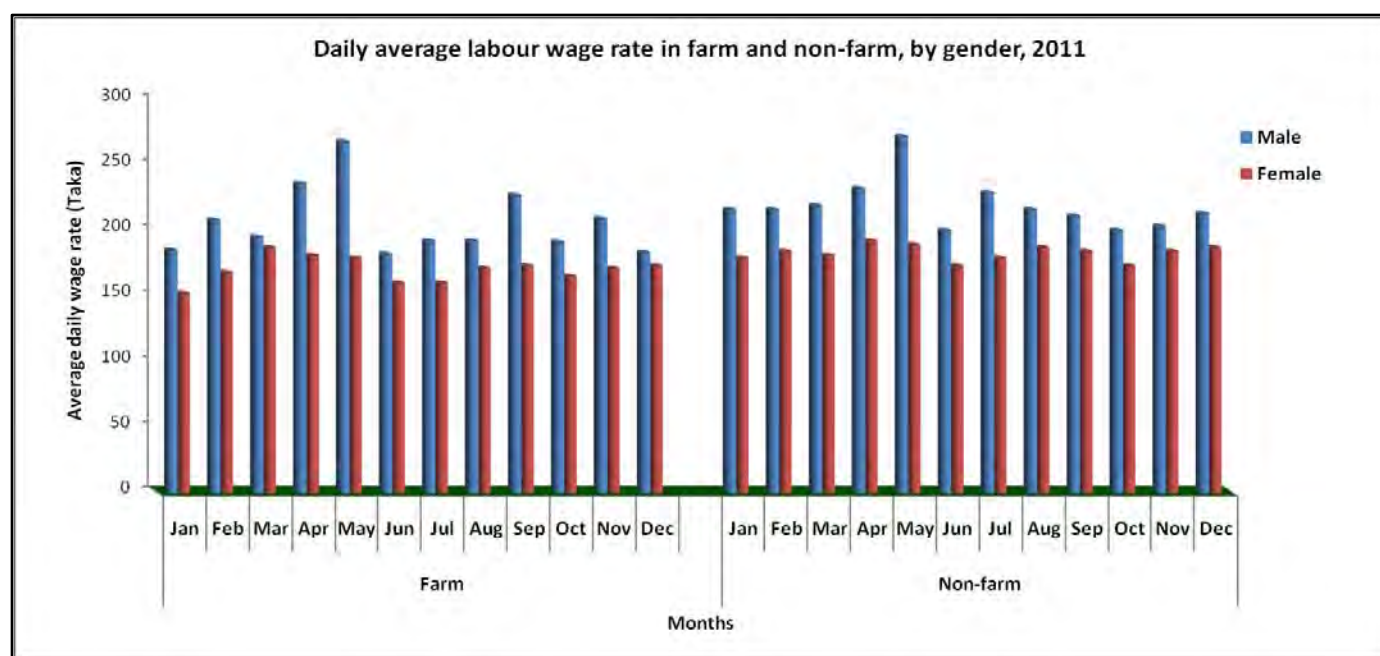
Occupation

Employment status, by major occupation

Types of occupation	Population (no.)
Farming	34
Agricultural labor	10
Non-agricultural labor	2
Professional or technical worker	2
Service worker	14
Business	8
Total economically active persons	70
Total economically inactive persons	116



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

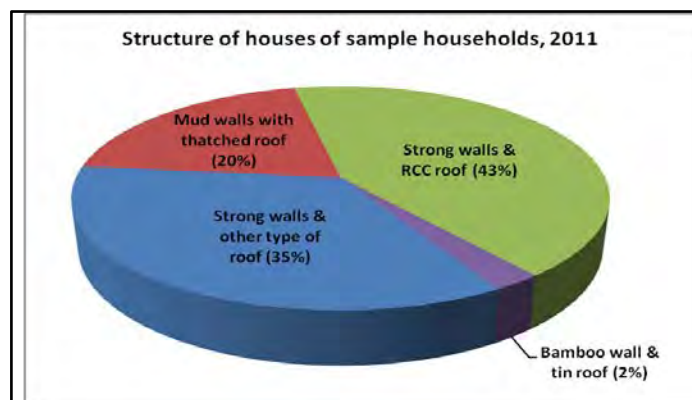


Migrated population in the sample households

Migration	Both sex (no.)	Male (no.)	Female (no.)
Within the district	5	2	3
Another district	7	6	1
Foreign country	0	0	0
Total out-migration	12	8	4
Total in-migration	17	8	9

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	10	0.25
Buffaloes	3	0.08
Cow	29	0.73
Young cattle/calf	27	0.68
Goat	104	2.60
Sheep	8	0.20
Poultry	209	5.23

Possession of agricultural/farm assets of the sample households

Farm machinery	Total numbers	Average (no./hh)
Local plough (iron/wooden)	13	0.33
Sprayers	13	0.33
Chaff cutter	18	0.45
Weeding implements	29	0.73
Power tiller/tractor	1	0.03
Shallow tube well (STW)	26	0.65
Power pump (LLP)	5	0.13
Submersible pump	1	0.03
Pipeline (feet)	384	9.60
Thresher	5	0.13
Agro processing unit	21	0.53
Implements used for caste occupation	5	0.13
Other minor implements	267	6.68

Possession of consumer assets of the sample households

Types	Total numbers	Average (no./hh)
Television	31	0.72
Radio	9	0.21
Mobile phone	66	1.53
Tape recorder	15	0.35
Watches	54	1.26
Sewing machine	3	0.07
Fan	89	2.07
Motor cycle	12	0.28
Computer	1	0.02
Refrigerator	3	0.07
Bicycle/rickshaw	37	0.86

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

Particulars	Male	Female	Jointly
1) Asset ownership			
Land	78	0	22
Livestock	60	15	20
Credit	25	5	30
Machinery	68	0	18
Investment	40	8	33
2) Decision making for input use			
Seeds	63	0	23
Fertilizers	65	0	20
Pesticides	63	0	23
Family labor	8	0	88
Hired labor	15	0	68
3) Decision making for output sell			
Crop main production	25	0	60
Sale quantity	20	0	65
Fodder production & use	15	0	70
4) Decision making for other activities			
Children marriage	0	3	73
Education of children	0	3	63
Coping mechanisms for disaster	3	3	93
Household maintenance	0	3	97
Migration	0	0	0
Pleasure trip	3	2	95
Whom to give vote	0	3	97

*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	Soil types	Area (ha)	% of total area
High land	0.3464	53.08	Problem soil	0.0023	0.36
Medium land	0.2297	35.19	Loamy	0.1112	17.05
Low land	0.0598	9.17	Sandy loam	0.2725	41.75
Very low land	0.0167	2.56	Clay loam	0.2665	40.84

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

Total land status by land ownership

Per capita total land (ha)	: 0.0931	Ownership	Total land area (ha/hh)	Total irrigated area (ha/hh)
Per capita agricultural land (ha)	: 0.0750			
Per capita homestead area (ha)	: 0.0058	Own land	0.5639	0.5631
Per capita homestead garden and bush (ha)	: 0.0123	Leased-in on crop share	0.0045	0.0045
		Leased-in on fixed rent	0.0609	0.0609
		Leased-out on crop share	0.0354	0.0354
		Leased-out on fixed rent	0.1046	0.1046
		Mortgaged-in	0.0233	0.0233
		Mortgaged-out	0.0211	0.0211
		Operated area	0.4915	0.4907

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

Enterprises	Aus	Aman	Boro	Rabi	Annual
1) Cereal Crops:					
Paddy	-	0.0572 (4.15)	0.0613 (6.19)	-	-
Wheat	-	-	-	0.0093 (2.57)	-
Maize	0.0262 (2.50)	-	-	0.1331 (8.34)	-
2) Cash Crops:					
Jute	0.0680 (1.99)	-	-	-	-
3) Pulse Crops:					
Black Gram	-	-	-	0.0105 (0.47)	-
Lentil	-	-	-	0.0016 (0.56)	-
4) Oilseed Crops:					
Mustard	-	-	-	0.0364 (0.52)	-
Sesame	0.0117 (0.36)	-	-	-	-
5) Spice Crops:					
Garlic	-	-	-	0.0055 (4.25)	-
Onion	-	-	-	0.0009 (4.22)	-
Turmeric	-	-	-	-	0.0012 (3.17)
6) Tuber Crops:					
Potato	-	-	-	0.0044 (25.57)	-
7) Vegetables:					
Tomato	-	-	-	0.0021 (1.52)	-
Arum	0.0020 (7.50)	-	-	-	-
Gourd**	-	-	-	0.0008 (Damage)	-
Vegetables	-	-	-	0.0018 (5.78)	-
8) Fruits					
Banana**	-	-	-	-	0.0300 (242867)
9) Betel Leaf**	-	-	-	-	0.1179 (315479)
10) <i>Dhancha</i> **	0.0038 (11053)	-	-	-	-
Gross Cropped Area	0.1118	0.0572	0.0613	0.2065	0.1491

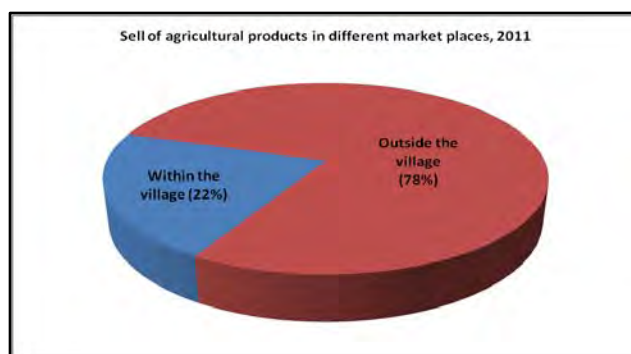
*Figure in the parenthesis indicates yield in metric tonne per hectare and ** means Taka per hectare.

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	0.0025	0.0038	0	0.0500	0.1258
Modern	0	0.0486	0.0588	0.0851	0	0.0175	0.0233
Hybrid	0	0.0086	0	0.0229	0	0.1390	0
Total area	0	0.0572	0.0613	0.1118	0	0.2065	0.1491

Production, consumption and sale of all agricultural commodities

Particulars	Amount
Crop production (metric tonne/hh)	2.18
Sell (metric tonne/hh)	1.31
Sell of total production (%)	60
Consumption of total production (%)	40



Sell of agricultural products, by different market intermediaries

Market intermediaries	Percentages
Large trader/shop	7.14
Middleman/broker	85.71
Money lender	0
Input supplier	0
Neighbor	7.14

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	25	2	27
Grameen bank	0	7	7
ASA	0	1	1
BRAC	0	2	2
Other NGOs/local NGOs	2	11	13

Institutional and non-institutional sources of borrowing and saving

Sources	Numbers*	Amount (Tk/hh)	Annual interest rate (%)
A) Borrowing			
Cooperatives	12 (30.00)	4475	20.00
Government organization	1 (2.50)	150	11.00
NGOs	29 (72.50)	12025	15.00
Public bank	2 (5.00)	2375	9.00
Private bank	4 (10.00)	2050	15.00
B) Saving			
Bank	15 (37.50)	2463	-
Cooperatives	29 (72.50)	7736	20.00
NGOs	20 (50.00)	1532	-
Post office	1 (2.50)	66	9.00

*Figure in the parenthesis indicates percentage of total.

H) INFRASTRUCTURE AND ACCESSIBILITY

Nearest market place (Name & distance)	: Poshurhat; 0.5 km
Distance from the village market to Upazila market (km)	: 11
Distance from the village market to district market (km):	: 7
Mode of transportation	: Bus, Nosimon, Motor cycle, Bicycle
Number of primary schools	: Nil
Number of high schools	: Nil
Number of colleges	: Nil
Total number of shops in the village	: 11
Number of rice husking mills in the village	: 1
Number of public health clinic/centre	: Nil
Number of private health clinic/centre	: Nil
Number of religious institute in the village	: (1) Mosque, (1) Temple, (0) Church
Number of hand tube-well for drinking water	: 120

Others business units in the village (unit in numbers)

Grocery Shop	: 11	PDS Shop	: 0	Hotel/Canteen	: 0
Meat Shop	: 0	Carpenter	: 0	Blacksmith	: 3
Medical Shop	: 0	Mason	: 3	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	Munshiganj (Poshurhat)	1
Fertilizer	No	Munshiganj (Poshurhat)	1
Pesticide	No	Munshiganj (Poshurhat)	1
Machinery-purchase	No	Union HQ	3
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	39	97.50
Toilet facility	Yes	40	100
Bathroom facility	Yes	17	42.50
Tap water connection	Yes	2	5.00
Village electrification	Yes	33	82.50
Dish connection/TV cable	Yes	17	42.50
Cooking gas facility	No	-	-

Access to sources of information of the sample households

Sources of information	Numbers (Index)	Rank
Block supervisor/union agri. officer	3.91	4
Community leaders	3.13	5
Community or local news paper	1.29	6
Input supplier	6.29	2
National news paper	0.11	10
NGOs	0.25	9
Relatives, friends and neighbors	7.11	1
Television	4.18	3
Upazila agriculture officer	0.80	7
Village panchayat/leader (Chairman)	0.49	8

I) 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	9 (22.50)	272
Family planning	9 (22.50)	187
Old aged pension	4 (10.00)	5400
Physically handicapped pension	1 (2.50)	3600
Widow pension	1 (2.50)	3600
Agriculture input subsidy/crop production program	1 (2.50)	480
Scholarships and economic assistance	4 (10.00)	1363
Free health camps	19 (47.50)	258

*Figure in the parenthesis indicates percentage of total household.