

Niamatpur Village at a Glance: Jhenaidah, 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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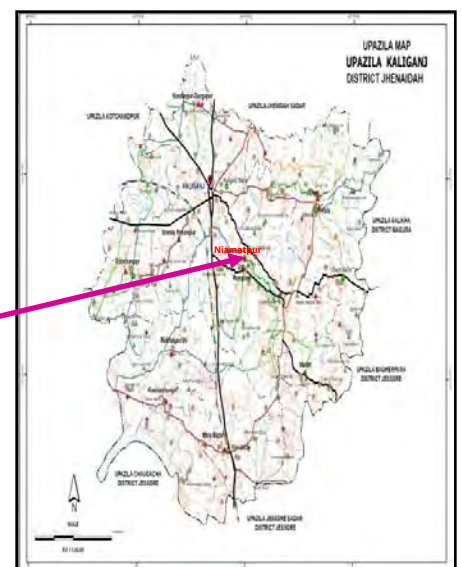
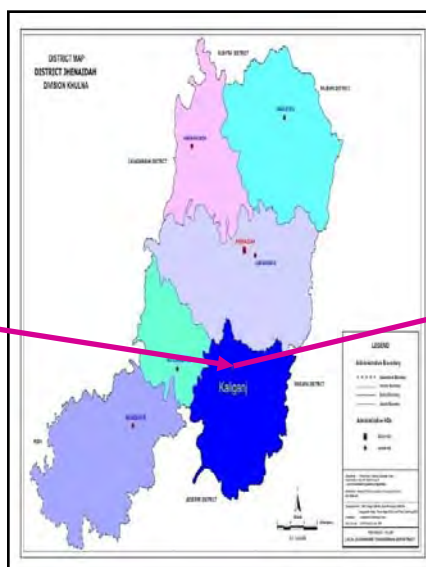
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Basic information about the village

A) LOCATION AND BASIC CHARACTERISTICS

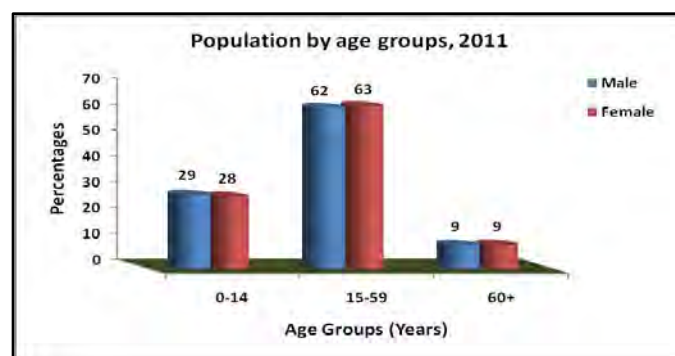
Name of the village	:	Niamatpur
Name of the union	:	Niamatpur
Name of the Upazila	:	Kaliganj
Name of the district	:	Jhenaidah
Agro-ecological zone (AEZ)	:	High Ganges River Floodplain (AEZ 11)
Agro-ecology	:	Unfavorable-drought
Development infrastructures	:	Favorable
Distance from Upazila HQ	km	3
Distance from district HQ	km	19
Latitude (N)	:	23°36'
Longitude (E)	:	89°15'
Total land area (whole village)	ha	192.75
Total land area (sample households)	ha	26.20
Total households (whole village)	no.	423
Total households (sample households)	no.	41
Total population (whole village)	no.	1836 (Male: 970; Female: 866)
Total population (sample households)	no.	195 (Male: 98; Female: 97)
Households involved in crop production	%	75
Distance from nearest district town	km	20
Distance from nearest national highways	km	3
Head of the village	:	Union Parishad Member



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

Classification of Population

Population density (Sq. km)	: 953
Population growth rate (%/yr)	: -0.51
Child-women ratio (Per 1000)	: 207
Male-Female sex ratio	: 101
Income earner (Person/hh)	: 1.49
Dependency ratio (%)	: 62



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	37	181
Hindu	4	14

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	18	43.90	3.89
Small	14	34.15	5.14
Medium	8	19.51	5.75
Large	1	2.44	11.00
All farms	41	100	4.85

*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

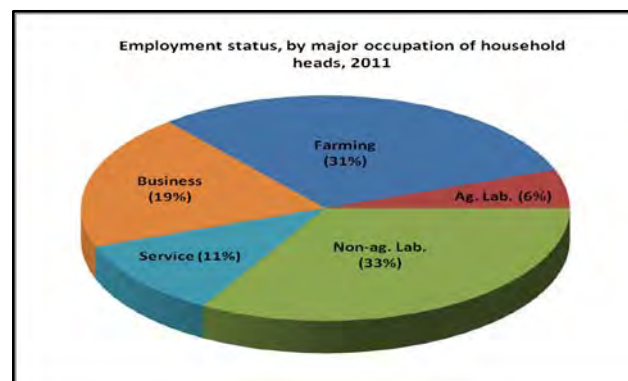
Levels of education*	Male (no.)	Female (no.)	Both sex (no.)
Illiterate	11	25	36
Can sign only	4	5	9
Primary	20	19	39
Secondary	37	35	72
Higher secondary	6	6	12
Graduate & above	10	0	10
Total literate persons	77	65	142
Literacy rate (%)	82.02	64.52	73.08

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

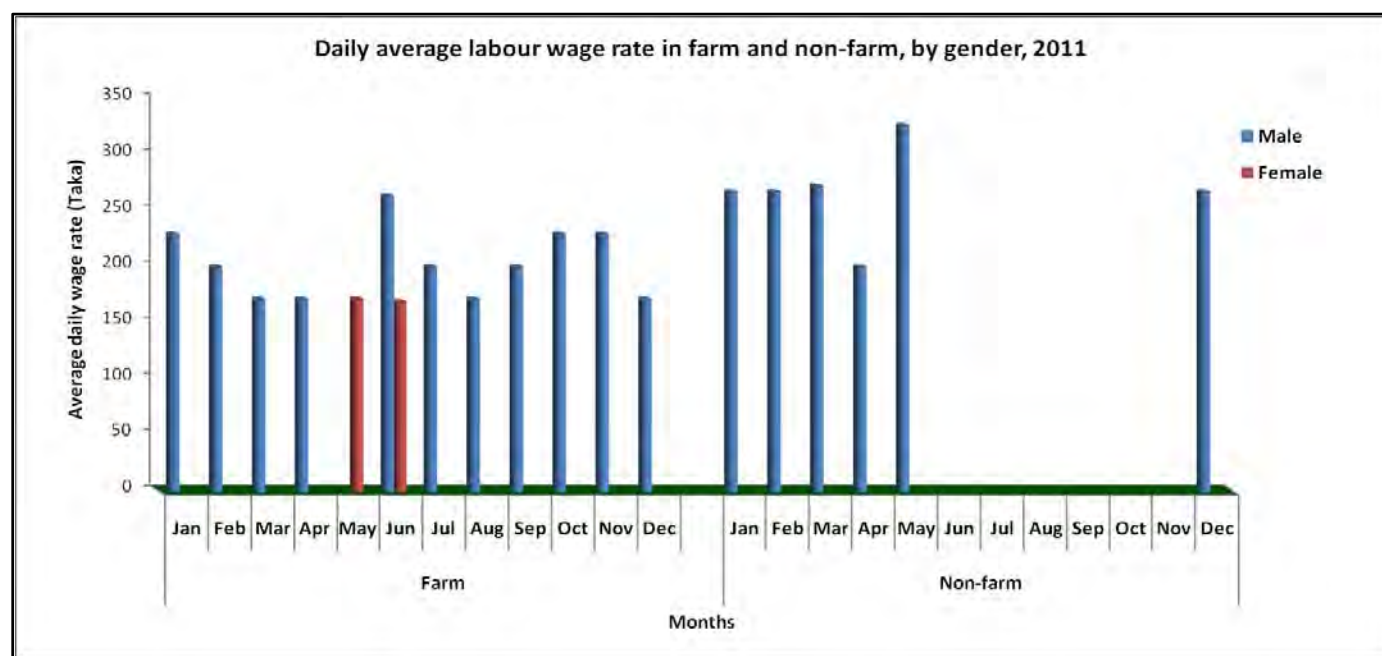
Occupation

Employment status, by major occupation

Types of occupation	Population (no.)
Farming	21
Agricultural labor	3
Non-agricultural labor	18
Professional or technical worker	0
Service worker	9
Business	10
Total economically active persons	61
Total economically inactive persons	134



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

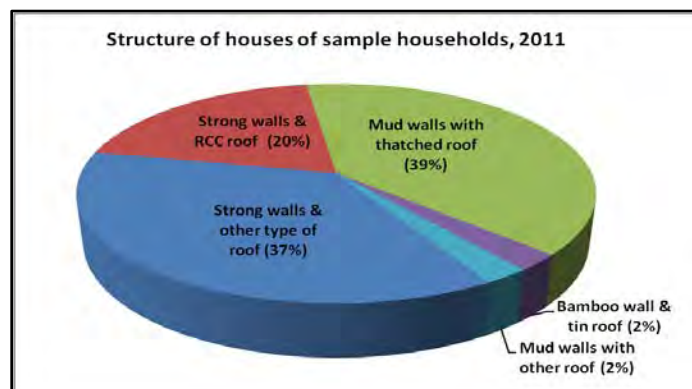


Migrated population in the sample households

Migration	Both sex (no.)	Male (no.)	Female (no.)
Within the district	1	1	0
Another district	5	3	2
Foreign country	2	2	0
Total out-migration	8	6	2
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	21	0.51
Cow	35	0.85
Young cattle/calf	21	0.51
Goat	26	0.63
Poultry	311	7.59

Possession of agricultural/farm assets of the sample households

Farm machinery	Total numbers	Average (no./hh)
Local plough (iron/wooden)	9	0.22
Sprayers	13	0.32
Bullock cart	7	0.17
Shallow tube well (STW)	14	0.34
Deep tube well (DTW)	5	0.12
Power pump (LLP)	2	0.05
Pipeline (feet)	2700	65.85
Thresher	11	0.27
Agro processing unit	34	0.83
Other minor implements	218	5.32

Possession of consumer assets of the sample households

Types	Total numbers	Average (no./hh)
Television	19	0.46
Radio	4	0.10
Mobile phone	57	1.39
Tape recorder	4	0.10
Watches	38	0.93
Sewing machine	1	0.02
Fan	45	1.10
Motor cycle	3	0.07
Auto	2	0.05
Air condition	1	0.02
Bicycle/rickshaw	30	0.73
Others	2	0.05

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

Particulars	Male	Female	Jointly
1) Asset ownership			
Land	78	5	5
Livestock	63	10	22
Credit	46	12	10
Machinery	83	5	2
Investment	49	2	0
2) Decision making for input use			
Seeds	12	0	61
Fertilizers	17	0	56
Pesticides	20	0	54
Family labor	0	5	95
Hired labor	17	0	61
3) Decision making for output sell			
Crop main production	5	0	68
Sale quantity	2	2	71
Fodder production & use	2	2	76
4) Decision making for other activities			
Children marriage	0	0	54
Education of children	0	0	76
Coping mechanisms for disaster	0	0	17
Household maintenance	0	5	95
Migration	2	0	17
Pleasure trip	12	2	76
Whom to give vote	0	7	93

*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
High land	0.0718	11.98
Medium land	0.3249	54.24
Low land	0.1809	30.20
Very low land	0.0214	3.58

Area coverage per household, by types of soil

Soil types	Area (ha)	% of total area
Shallow black	0.0068	1.14
Loamy	0.0642	10.72
Sandy loam	0.1814	30.28
Clay	0.0297	4.96
Clay loam	0.3169	52.90

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

Per capita total land (ha)	:	0.1050
Per capita agricultural land (ha)	:	0.0768
Per capita homestead area (ha)	:	0.0085
Per capita homestead garden and bush (ha)	:	0.0197

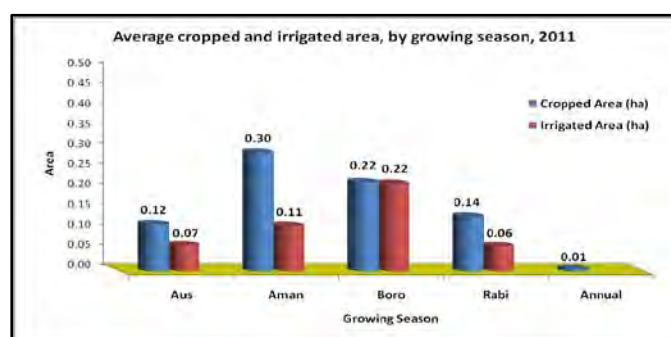
Total land status by land ownership

Ownership	Total land area (ha/hh)	Total irrigated area (ha/hh)
Own land	0.5046	0.5019
Leased-in on crop share	0.0354	0.0354
Leased-in on fixed rent	0.0345	0.0345
Leased-out on crop share	0.0691	0.0691
Leased-out on fixed rent	0.0366	0.0366
Mortgaged-in	0.0245	0.0245
Mortgaged-out	0.0968	0.0968
Operated area	0.3965	0.3938

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

Enterprises	Aus	Aman	Boro	Rabi	Annual
Cropped area	0.1174	0.2950	0.2220	0.1367	0.0067
Pond/fish culture	-	-	-	-	-
Agro-forestry	-	-	-	-	0.0145
Fallow land	0.2108	0.0704	0.1599	0.2592	0.0579

*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
Open dug well	0	0
Surface irrigation systems	0	0
STW	0.3445	87.49
DTW	0.0493	12.51

F) Crop Production (As on 2011)

Seasonality of cropping calendar

S L	January				February				March				April				May				June				July				August				September				October				November				December			
	Week				Week				Week				Week				Week				Week				Week				Week				Week				Week				Week				Week			
	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				
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Legend:

	1	Boro (Rice)		4	Jute		7	Vegetables
	2	T. Aman (Rice)		5	Pulse		8	Turmeric/ Banana
	3	Aus (Rice)		6	Mustard/Sesame			

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

Enterprises	Aus	Aman	Boro	Rabi	Annual
1) Cereal Crops:					
Paddy	0.0009 (2.00)	0.2950 (2.91)	0.2220 (5.46)	-	-
2) Cash Crops:					
Jute	0.0335 (3.31)	-	-	-	-
3) Pulse Crops:					
Black Gram	-	-	-	0.0040 (0.40)	-
Green Gram	0.0514 (0.92)	-	-	0.0517 (0.89)	-
Lentil	-	-	-	0.0528 (0.61)	-
4) Oilseed Crops:					
Mustard	-	-	-	0.0079 (0.58)	-
Sesame	-	-	-	0.0023 (0.57)	-
5) Spice Crops:					
Turmeric	-	-	-	-	0.0028 (5.71)
6) Vegetables:					
Bean	-	-	-	0.0020 (1.45)	-
Lady's Finger	0.0079 (5.57)	-	-	0.0030 (4.17)	-
Pumpkin **	-	-	-	0.0022 (20000)	-
Vegetables	0.0237 (9.42)	-	-	0.0108 (3.39)	-
7) Fruits					
Banana **	-	-	-	-	0.0039 (53077)
Gross Cropped Area	0.1174	0.2950	0.2220	0.1367	0.0067

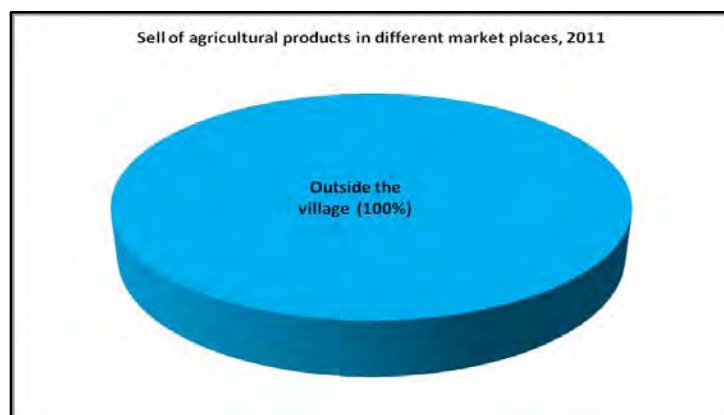
*Figure in the parenthesis indicates yield in metric tonne per hectare and ** means Taka per hectare.

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	0.0686	0	0.0091	0	0.0591	0.0067
Modern	0.0009	0.2264	0.2220	0.0995	0	0.0746	0
Hybrid	0	0	0	0.0079	0	0.0030	0
Total area	0.0009	0.2950	0.2220	0.1165	0	0.1367	0.0067

Production, consumption and sale of all agricultural commodities

Particulars	Amount
Crop production (metric tonne/hh)	2.55
Sell (metric tonne/hh)	1.09
Sell of total production (%)	43
Consumption of total production (%)	57



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	1	1
ASA	1	9	10
BRAC	0	2	2
Other NGOs/local NGOs	5	12	17

Institutional and non-institutional sources of borrowing and saving

Sources	Numbers*	Amount (Tk/hh)	Annual interest rate (%)
A) Borrowing			
Government organization	1 (2.44)	122	12.00
NGOs	33 (80.49)	10415	14.85
Friends & relatives	3 (7.32)	3232	0
B) Saving			
Bank	11 (26.83)	6240	-
Cooperatives	1 (2.44)	185	-
NGOs	24 (58.54)	911	-

*Figure in the parenthesis indicates percentage of total.

H) INFRASTRUCTURE AND ACCESSIBILITY

Nearest market place (Name & distance)	:	Kaliganj; 3.0 km
Distance from the village market to Upazila market (km)	:	3
Distance from the village market to district market (km):	:	20
Mode of transportation	:	Van, Rickshaw, Motor cycle, Bicycle, Lata
Number of primary schools	:	2
Number of high schools	:	Nil
Number of colleges	:	Nil
Total number of shops in the village	:	16
Number of rice husking mills in the village	:	2
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	:	160

Others business units in the village (unit in numbers)

Grocery Shop	: 11	PDS Shop	: 0	Hotel/Canteen	: 4
Meat Shop	: 0	Carpenter	: 3	Blacksmith	: 0
Medical Shop	: 1	Mason	: 15	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	Kaliganj	3
Fertilizer	Yes	-	-
Pesticide	Yes	-	-
Machinery-purchase	No	Kaliganj	3
Machinery-custom hiring	No	Kaliganj	3

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	32	78.05
Toilet facility	Yes	39	95.10
Bathroom facility	Yes	16	39.02
Tap water connection	No	-	-
Village electrification	Yes	29	70.73
Dish connection/TV cable	Yes	10	24.39
Cooking gas facility	No	-	-

Access to sources of information of the sample households

Sources of information	Numbers (Index)	Rank
Block supervisor/union agri. officer	0.75	6
Community leaders	5.05	2
Community or local news paper	0.31	10
Input supplier	3.29	4
National news paper	0.60	7
NGOs	0.13	11
Pharmacy	0.13	11
Village doctor	0.33	8
Radio	0.33	8
Relatives, friends and neighbors	7.45	1
Television	4.64	3
Upazila agriculture officer	1.33	5

I) GOVERNMENT WELFARE PROGRAMS

Access to social safety net programs of the sample households

Government program	Beneficiaries*	Average amount (Tk/year/hh)
Family planning	13 (31.71)	140
Old aged pension	1 (2.44)	2700
Physically handicapped pension	1 (2.44)	3600
Widow pension	1 (2.44)	3600
Scholarships and economic assistance	4 (9.76)	950
Free health camps	11 (26.83)	174

*Figure in the parenthesis indicates percentage of total household.