



Government of the people's Republic of Bangladesh  
Ministry of Housing and Public Works  
Urban Development Directorate  
82 Segunbagicha, Dhaka-1000

PREPARATION OF DEVELOPMENT PLAN FOR MEHERPUR ZILLA

## REPORT ON ASSIGNMENT-4

Spatial Transformation of Agricultural survey such as Identification  
of Single, Double, Triple cropped land

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## Identification of Single, Double, Triple cropped land of Meherpur District

**Mujibnagar Upazila:** The economy of the Upazila is primarily based on agriculture, with most households engaged in farming a variety of crops. In Mujibnagar, agricultural land is classified based on the number of crops grown annually. In Dariapur Union, there is single-crop land located near the Indian border. Monakhali Union consists of two, three, and four-crop land, while Bagaon Union contains two and three-crop land. Mohajanpur Union has a mix of three and four-crop land. Single-crop land is mainly used for cultivating rice, whereas two-crop land is used for growing onions and bananas. A distinctive variety of onion known as *Sukhsagor* and a special type of banana called *Mehersagor* are cultivated in this region. On three-crop and multi-crop land, farmers grow a diverse range of crops, including **cabbage, cauliflower, jute, potatoes, rice (Ropa rice), mustard, and Boro rice**. To enhance soil fertility and maximize yield, they extensively use compost fertilizer.

Table 1: Mujibnagar Upazila Cropping Information

Union	Cropping pattern	Crop Type	Area (Hector)	Area (Acre)
Dariapur	One	Rice, Jute	1393.5	3440.71
	Two		1020.33	2520.21
Monakhali	Three	Onion, Banana, Vegetables	1529.2	3776.63
	Four		157.35	388.65
Bagoan	Two	Vegetables, Potato, Jute	841.865	2079.40
	Three		3582.07	8847.71
Mohajanpur	Three	Vegetables, Potato, Jute, Rice	1877.6	4637.67
	Four		74.21	183.29

Source: Upazila Agriculture office, Mujibnagar Upazila, 2025

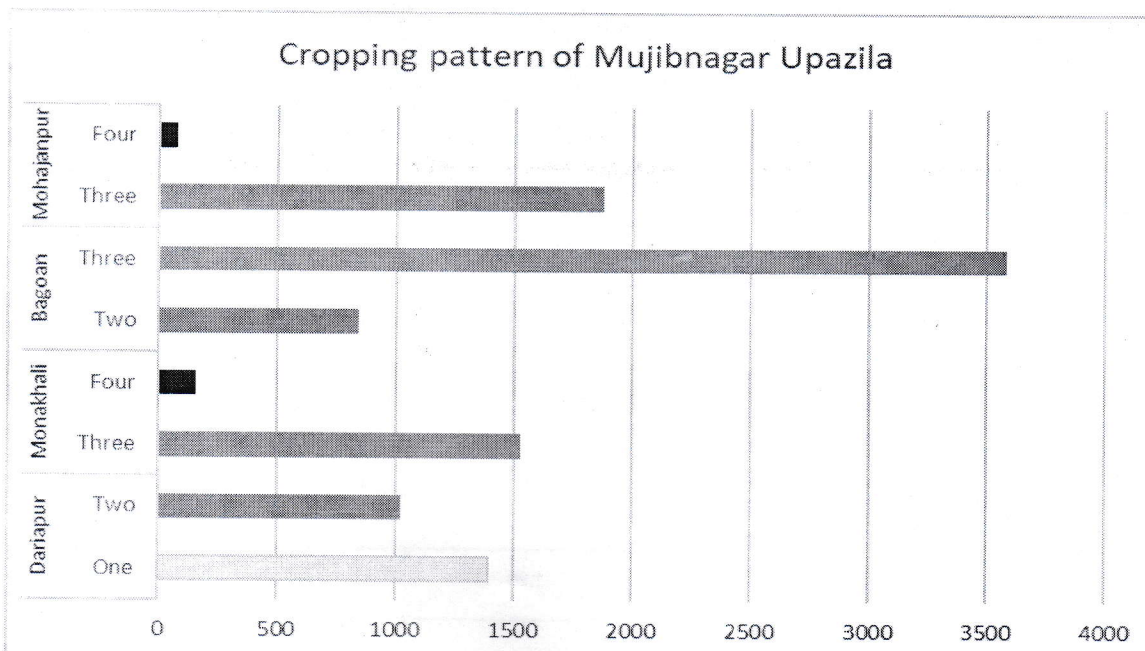


Figure 1: Cropping Pattern of Mujibnagar Upazila

Source: Prepared by Consultant



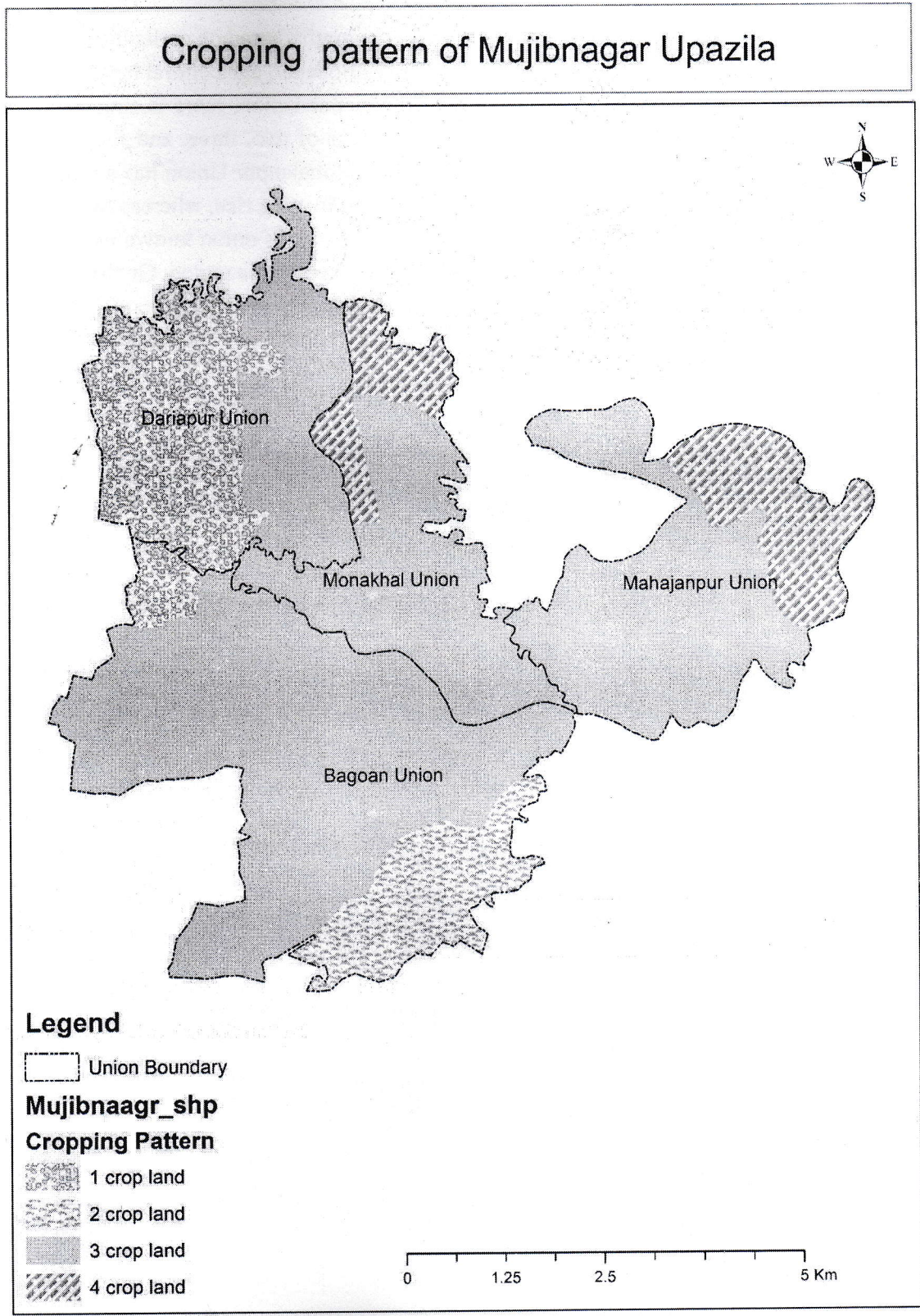


Figure 2:Cropping pattern of Mujibnagar Upazila

Source: Prepared by Consultant,2025

**Meherpur Sadar Upazila:** Meherpur Sadar Upazila consists of agricultural land categorized based on the number of crops cultivated. In single-crop land, farmers primarily grow turmeric, betel leaf, rice, and similar crops. Two-crop land is mainly used for cultivating jute, rice, and various vegetables. In three-crop land, mustard, rice, and wheat are the dominant crops. Meanwhile, land that supports more than three crops is utilized for growing a combination of vegetables, Gama grass, rice, and other crops.

Table 2:Meherpur Sadar Upazila Cropping Information

Crop land	Area(Hector)	Area(Acre)
One crop	650	1605.5
Two crops	14050	34703.5
Three crops	39600	97812
More than three crops	6628	16371.16

Source: Upazila Agriculture Office Meherpur sadar Upazila,2025



## Cropping Pattern of Meherpur Sadar Upazila

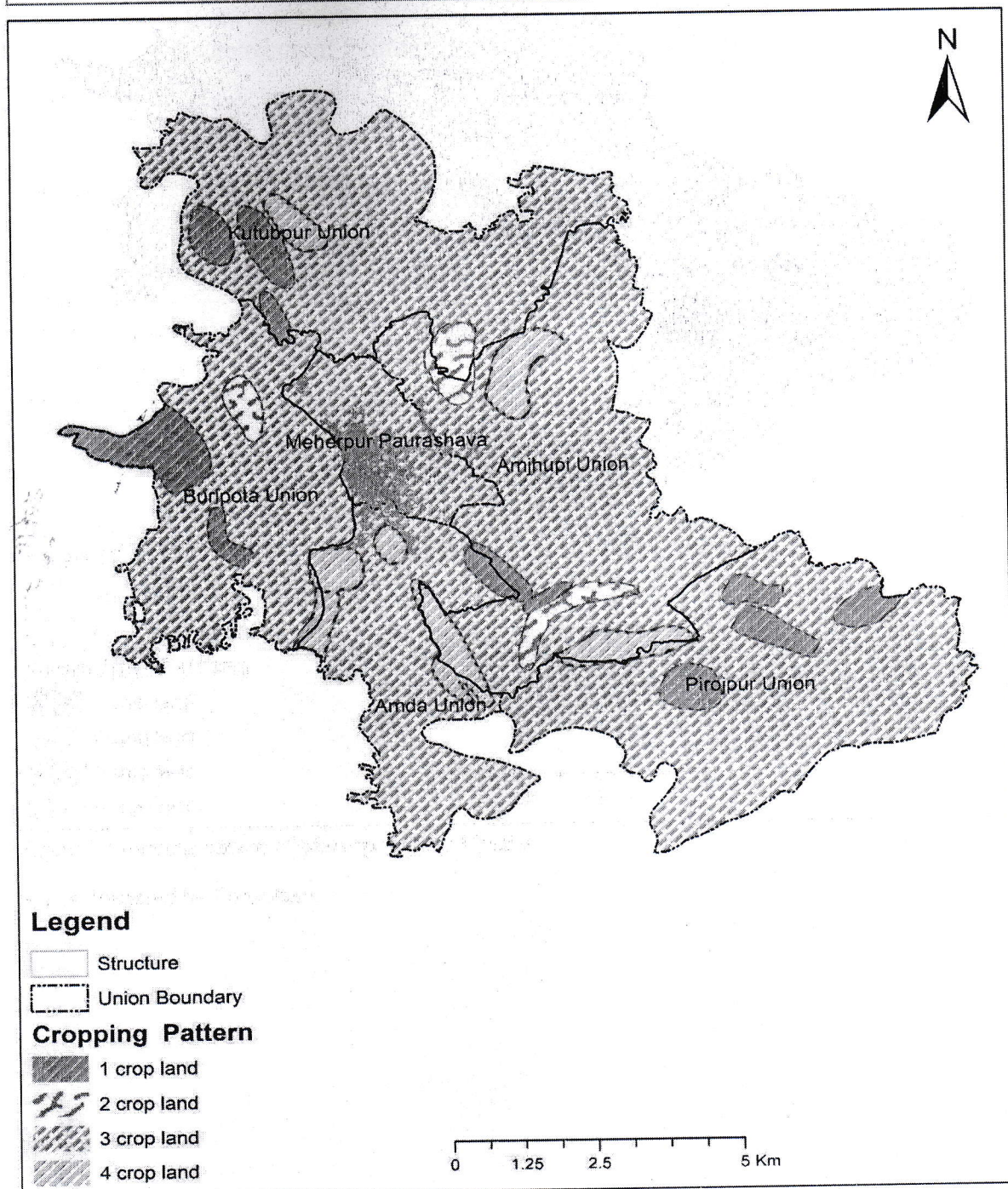


Figure 3: Cropping pattern of Meherpur Sadar Upazila

Source: Prepared by Consultant



### Gangni Upazila Crop Pattern 2013

In Gangni Upazila, the cropping pattern in 2013 varied across different types of agricultural land use. A small portion of the land, approximately 5%, was classified as one-crop land, covering an area of 3,776.128 Acres. A significantly larger portion, around 23% or 16,313.39 Acres, was used for two crops per year. The majority of the agricultural land, accounting for 71% and spanning 49,842.2 Acres, was utilized for three crops annually, reflecting intensive farming practices. Additionally, a minimal portion, only about 1% or 665.6829 Acres, was cultivated with more than three crops in a year, indicating highly productive land management in certain areas.

Table 3: Cropping Pattern of Gangni Upazila 2013

Cropping Pattern	Area	Percentage
One crop land	3776.128	5%
Two crop land	16313.39	23%
Three crop land	49842.2	71%
More than three land	665.6829	1%

Source: Gangni Upazila Masterplan by UDD, 2013

### Union wise Cropping pattern 2013

In 2013, the cropping pattern across different unions of Gangni Upazila varied based on agricultural practices and land productivity. Kazipur and Saharbati unions exhibited the most diverse cropping patterns, with land being used for one, two, three, and even four crops annually, indicating intensive cultivation. Several unions, including Tetulbaria, Kathuli, Dhankhola, Roypur, and Mathmuria, followed a similar pattern, with land being utilized for one, two, or three crops per year. Gangni Paurashava, Sholataka, and Bamundi had a slightly different cropping pattern, with land being cultivated for two or three crops annually.

Table 4: Union wise Cropping Pattern of Gangni Upazila 2013

Union	Cropping pattern
Kazipur	One, Two, Three, Four
Tetulbaria	One, Two, Three
Kathuli	One, Two, Three
Saharbati	One, Two, Three, Four
Gangni Paurashava	Two, Three
Dhankhola	One, Two, Three
Roypur	One, Two, Three
Sholataka	Two, Three
Mathmuria	One, Two, Three
Bamundi	One, Two, Three

Source: Gangni Upazila Masterplan by UDD, 2013



### Gangni Upazila Crop Pattern 2025

In 2025, the cropping pattern in Gangni Upazila continues to reflect intensive agricultural practices with a strong focus on maximizing land productivity. Notably, there is no land classified as one-crop land, indicating a complete shift away from single-crop farming. Only 3% of the total cultivated area, covering 2,207.20 Acres, is used for two crops annually. The vast majority of agricultural land, approximately 89% or 62,808.84 Acres, is cultivated with three crops per year, demonstrating the dominance of this farming practice in the region. Additionally, around 8% of the land, totaling 5,580.66 Acres, is used for growing more than three crops annually.

Table 5: Cropping Pattern of Gangni Upazila 2025

Cropping Pattern	Area	Percentage
One crop land	0	0%
Two crop land	2207.20	3%
Three crop land	62808.84	89%
More than three land	5580.66	8%

Source: Upazila Agriculture office, Gangni, 2025

### Union wise Cropping pattern 2025

In 2025, the cropping pattern across different unions of Gangni Upazila shows a continued emphasis on intensive agriculture. Most unions, including Tetulbaria, Kathuli, Gangni Paurashava, Dhankhola, Roypur, Sholataka, Mathmuria, and Bamundi, are primarily focused on cultivating three crops per year, reflecting efficient land use and improved farming techniques. Kazipur stands out with a mix of two and three-crop farming, indicating some variation in agricultural intensity. Notably, Saharbat has the most advanced cropping pattern, with land being cultivated for four crops annually. In Kazipur Union, farmers grow **jute and rice** on two-crop lands because of waterlogging. Other unions have both two- and three-crop lands. Saharbat Union is the only area with four-crop lands, where farmers grow vegetables like **cabbage, cauliflower, bottle gourd, and beans**. In three-crop lands, common crops include **onion, vegetables, corn, mustard, lentils, tobacco, wheat, black gram, and different types of rice, such as Ropa and Aman**. Crops are cultivated in three seasons Rabi, Kharip 1 and Kharip 2.



Table 6: Union wise Cropping Pattern of Gangni Upazila 2025

Union	Cropping pattern
Kazipur	Two, Three
Tetulbaria	Three
Kathuli	Three
Saharbari	Four
Gangni Paurashava	Three
Dhankhola	Three
Roypur	Three
Sholataka	Three
Mathmura	Three
Bamundi	Three

Source: Upazila Agriculture office, Gangni, 2025

#### Comparison of cropping Land in Gangni Upazila:

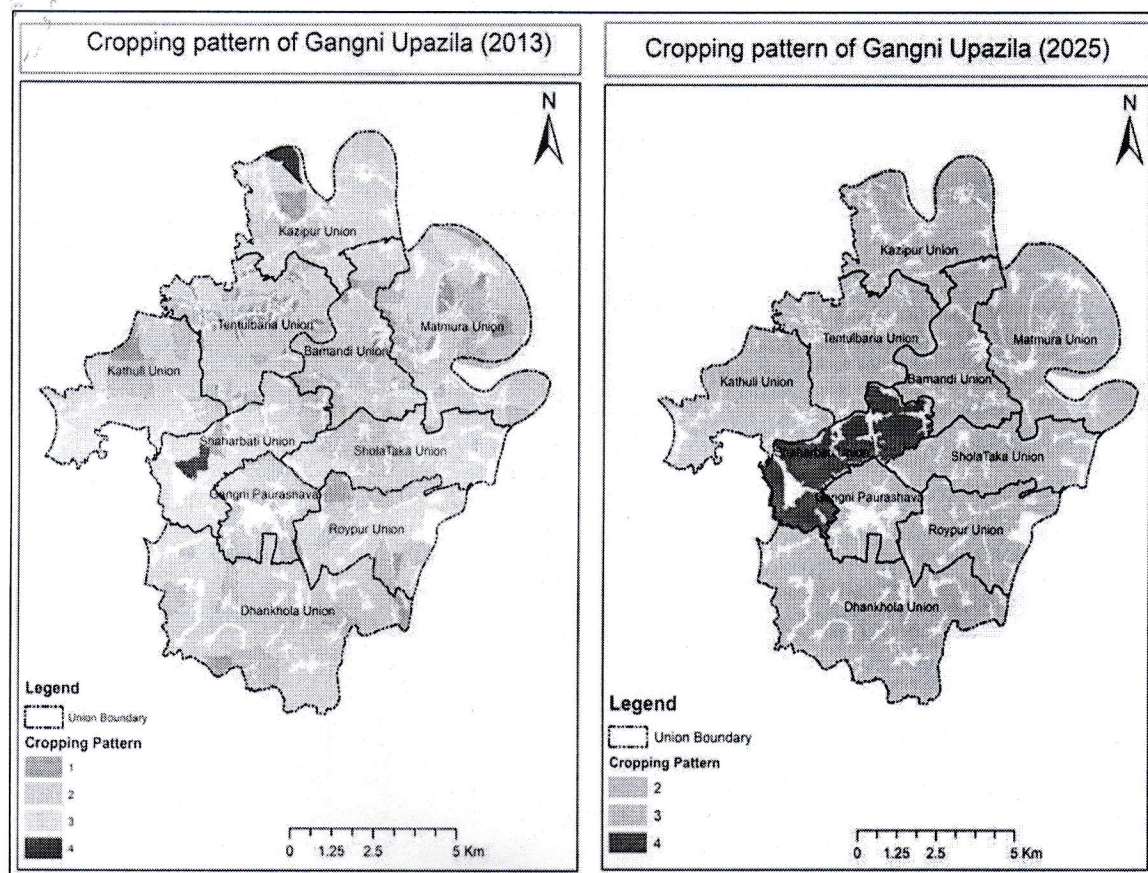


Figure 4: Comparison of Cropping area of Gangni at 2013 and 2025

Source: Prepared by Consultant, 2025



Compared to past data on Gangni Upazila's agricultural land, the most dominant type of cropland now is three-crop land, covering approximately 62,808 acres. In the past, there were 3,776.128 acres of one-crop land, but currently, there is none. Additionally, two-crop land has decreased over time, while land used for more than three crops has increased. In Saharbari Union, cropland has increased by approximately 4 acres, reaching a total of 4,914.98 acres. Farmers are now more interested in cultivating three- and four-crop lands to maximize their profits. In the past, Kazipur Union also had three- and four-crop lands. However, due to waterlogging, the upper region of Kazipur Union now primarily consists of two-crop lands.

Table 7: Comparison of Cropping area of Gangni Upazila

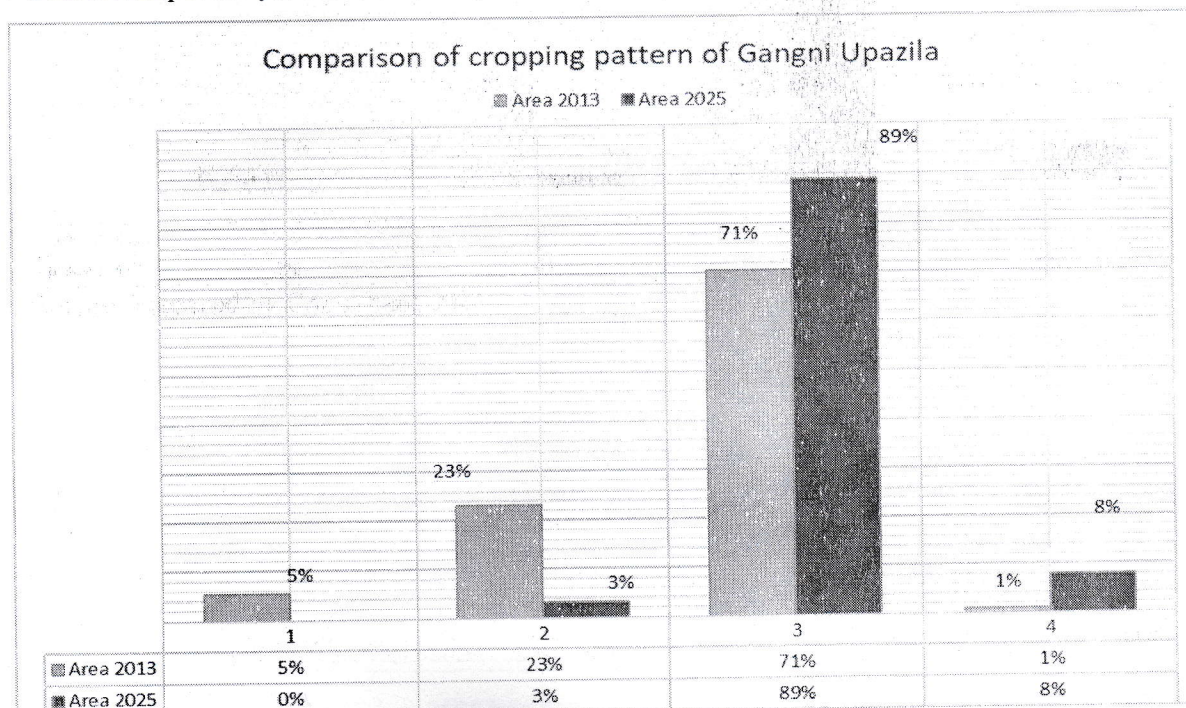
Cropping Pattern	Area		Percentage	
	2013		2025	
One crop land	3776.128	5%	0	0%
Two crop land	16313.39	23%	2207.20	3%
Three crop land	49842.2	71%	62808.84	89%
More than three land	665.6829	1%	5580.66	8%

Source: Prepared by Consultant, 2025

Table 8: Comparison of Cropping area of Gangni Upazila 2013 and 2025

Cropping Pattern	Present Area (Acre)	Area from past Database 2013
One Crop Land		3776.128
Two Crop land	2207.20	16313.39
Three Crop Land	62808.84	49842.2
More than three crop lands	5580.67	665.6829

Source: Prepared by Consultant, 2025



Source: Prepared by Consultant, 2025



Note: The Whole database will be updated after submission of Physical feature database by consultant firm.