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Kalipada Ghosh Tarai Mahavidyalaya

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## PANDEMIC PANDEMIC

A Review of the Social, Economic and Environmental Issues/Challenges



Madhusudan Karmakar

Chapenbooky

Kalipada Ghosh Tarai Mahavidyataya

PRINCIPAL Kalipada Ghosh Tara: Mahavidyalaya Bagdogra

## THE COVID 19 PANDEMIC

A Review of the Social, Economic and Environmental Issues/Challenges

Editor Madhusudan Karmakar



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# Production of Pineapple in Uttar Dinajpur District: Pre and Post Covid-19

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Phake.
Principal

Kalipada Ghosh Tarai Mahavidy the COVID-19 pandemic has adversely affected the production of it has also affected the lives of the farmers economically and socially pineapple. The pandemic has not only affected the production adversely pineapple cultivation in the pre and post COVID-19 period and how production of horticulture of Uttar Dinajpur with special reference to The pandemic has also brought some changes in the cropping pattern PRINCIPAL Kalipada Ghosh Tara.

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o its demand. Uttar Dinajpur occupies a pivotal position is
the accommy being the second largest district in the incapple producing states in India. The paper studies the ng to the economy, being the second largest district in the

pandemii, growth rate Keywords: Agricultural productivity, pineapple cultivation, borticulture

## Introduction

seeks ways to produce optimum yields while the factors that influence To obtain the maximum return on investments, the horticulture industry seeks ways to produce the investments, the horticulture industry To obtain the maximum, rates, vitamins, minerals and bulk for the diet provide proteins, carbon, a foods are excellent sources of energy and opportunities Harriands and Creating a large number of employment horicultural products along with nursery crops. The field of production, storage, marketing of fruits, vegetables, spices and plantation Horticulture is that branch of agriculture which is related to the increase in demand ...... products will also rise due to its demand. This (like processing and will help the farmers and all the associated section physical and mental wellbeing of an individual. As the world population 1958). Horticulture is a part of individual's daily diet and promote 1958) Hericalians the static and demands the dynamic (Christopher

> pest control, storage and marketing etc. yield are geographical location, method of growth, soil, pruning methods,

adversely by the COVID-19 pandemic. impacted negatively in all sectors of the economy. Since agriculture is agricultural sector to a standstill and affected the economy of the country depend on it for livelihood, the COVID-19 pandemic has brought the the mainstay of the Indian economy and more than half the population in the largest pineapple producing state in India, has also been affected Uttar Dinajpur, which is the second largest pineapple producing district The COVID-19 pandemic also known as the SARS-COV-2 has

## Objectives

- reference to pineapple cultivation during the pre -COVID-19 and post-To study the horticulture of Uttar Dinajpur district with special COVID-19 times.
- To study the impact of COVID-19 on pineapple production in Uttar Dinajpur.

#### Data base

crops were collected from the and Statistics from 2006 to 2019. Bureau of Applied Economics Uttar Dinajpur. production were collected from Block wise data on horticultural Data on the various horticultural the Horticulture Department,

## Study area

the coordinate of latitude 25°11' 87°49'E to 90°00'E occupying N to 26°49' N and longitude an area of 3142 km2. The district Uttar Dinajpur district lies within

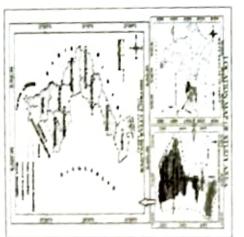


Fig. 1: The Present Study area

Goalpokhor-I and Goalpokhor -II and in Raiganj and Itahar. Pineapple is cultivated in the blocks of Chopra. Islampur. Goalpokhor-I, Goalpokhor-II, Raiganj, Kaliaganj, Hemtabad, Karandighi Further the district is sub divided into nine blocks - Chopra, Islampur, has been subdivided into two sub-divisions viz. Raiganj and Islampur.

# Production of Pineapple in Uttar Dinajpur district

10 onh 4 6° hornculture was only 3.51% and it increased to 11.6% in XI plan period earlier plan periods. Table-1 shows that in VIII plan period the share of The percentage share of horticulture in Indian economy was very low in The share of horticulture declined sharply in XII plan period and it reached

Table 1: Percentage share of horticulture in different plan periods in India

| Plas         | Outlay in Agriculture and Allied activities (Rs. Crores) | Share of<br>Horticulture<br>(Rs. Crore) | Percentage Share |
|--------------|--|---|------------------|
| 1997-1997    | 22467  | 789                                     | 3.51             |
| 11957-2002   | 37546  | 1453                                    | 3.9              |
| x 2002-2007  | 58933  | 5025                                    | 8.5              |
| £102-1002 x  | 136381   | 15800                                   | 11.6             |
| XI 2012-2017 | 363273   | 16840                                   | 4.6              |

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inder Horicultural Database & Dept of Agriculture. Govt of India (2018)

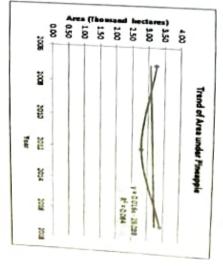
Uttar Dinappur ranks 9 in the cultivation of fruits, producing 1.57% of the and hence the demand for fresh, horticultural products will never decline strategically located in between two big towns namely, Siliguri and Malda its horticultural department was formed much later. Uttar Dinajpur is 1 of April 1992, after the bifurcation of erstwhile West Dinajpur district, cighties. Since the district of Uttar Dinajpur came into existence on the the Green Revolution, the horticultural sector started in India in the midpercent of the total fruits cultivation in West Bengal in 2015-16. After According to the Dept. of Horticulture. Uttar Dinajpur contributes 7.47

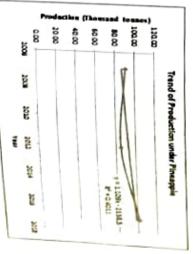
always been way above any other cultivated fruits in Uttar Dinajpur. where it is shown that over a decade, the production of pineapple has The importance of pineapple can clearly be observed in Figure-2



Source: Dept. of Horticulture, Ultar Dinapur district 2020

Fig. 2: Pomological Production in Uttar Dinajpur





Source: Dept. of Horticulture, Utlar Dinapur district/2023

It takes about eighteen months for the pincapple fruit to ripen and be as agricultural production in the cultivation of pineapple in Uttar Dinajput. The past two decades show that there has been a rise in area as well

hanested weeds and pests. The pineapples are harvested by hand in the summe bes than 2 hectares. Mulching is practiced to hold moisture and compa rechanged in used 77.7 per cent of the farmers have small farms of mechanization is used 77.7 per cent of the farmers have small farms of handsted The pincapper repared manually by labourers and no mode, february The field is prepared manually by labourers have small sections. The pineapple plants are planted in the month of January

post-harvest the farmers have been forced to dump their produce due to willing to work in the fields. This also resulted in the delay of harvest and 2020 and suggested social distancing. There were insufficient labouren nurse country went to a complete lockdown from 25th March to 3rd May hanested in June 2020 but the major problems were observed after the act of processing facilities and buyers. The peneapples which planted in the month of January 2019 were

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persent followed by Assam (17.1 per cent), (Indian Horticultural Database West Bengal has the highest percentage of production of pineapple (19.7 Procapple (Ananas comosus) is a tropical fruit, resistant to desiccation. 6.84 thousand metric tonnes of pineapple (27.48%) in West Bengal Utter Dinaspur ranks second in the production of pineapple, producing

Goalpokhor-I(18.50 percent). Goalpokhor -II(16.14 per cent) and The percent of total production. It is followed by Islampur (27.11 per le Utter Dinajpur, Chopra is the leading block of pineapple contributing

The bank is while the cost of production was around ₹23-24 per kg. The table below shoes the monetary loss of pineapple due to the Covid-19 The Covid pendemic situation led to prices plummeting to around

Table 1: Production & Monetary loss of pineapple due to the Covid-19

| CODE PECHNON | -         | 35344900          | Pre-Covid Const |
|--------------|-----------|-------------------|-----------------|
| 910582500    | 364233000 | Post Covid (2020) |                 |

the profit in terms of Indian currency shows that there has been the purely were not harvested all at once due to the lockdown and Hole The Profit in terms of markets to sell the harvest i.e., in Delhi and waspiles were not have take of only 0.30 per cent. This is because

> of ₹2.5 to 3 per kg. which was earlier sold at the rate of ₹25-30 per kg was now sold at the rate a decline in compound annual growth rate of 10.12 per cent. Pincapple

#### Impact

labour, the pandemic had adversely hit the harvest season. in their fields. Since the cultivation of pineapple involves a lot of manual added more problems to the farmers who could not get labourers to work often makes the farmers resort to irrigation practices. The pandemic has devastating. Usually the Indian monsoon characterized with erratic rainfall The impacts of the Covid -19 pandemic along with the lockdown was

created irreparable damage to all the producers and harvesters and every month of June (Unlock 1: 1" June to 30th June) that there was inter-state individual or organization related to this business. It was much later in the not be supplied to the usual neighboring states or State capital and thus it was stalled for a considerably long period during which the harvest could markets and mandis (market yards). Due to the pandemic, the transportation hence, must be dispatched well in time so that it reaches the respective Pincapple, just like any horticultural produce, is a perishable item and

Islands and Orissa were badly struck by the cyclone and were closed to the lives and agriculture. The coastal regions of West Bengal, Andaman struck the states of Orissa and West Bengal in mid- May and caused havoc for several days. This further aggravated the situation to the demand for Jharkhand, Kolkata, Andaman Islands and Orissa. The cyclone Amphan movement of agricultural produce. The pineapple produced in Uttar Dinajpur District is sent to Bihar,

were also not utilized properly due to unavailability of labourers. the pineapple in September instead of the usual June. Irrigation techniques produce from pineapple and planted paddy, while some farmers replanted an alternative cropping pattern. Some of them changed their agricultural pay off their debts on agricultural inputs. Many of the farmers resorted to the fall in market price of pineapple, many of the farmers were unable to There was a direct impact on the lives of farmers as well. Due to

## Conclusion

sector as it is the mainstay of the Indian economy. The scheme 'One COVID-19. The government is doing its best to support the agricultural The production of pineapple has been affected badly due to outbreak of

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product One district' has been adopted by the government to create product specific industrial hubs in Uttar Pradesh. It also gives financial aid to farmers practicing horticulture. This method could be undertaken in other states also in order to increase the horticultural products.

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