



# IMPACT ON AGRICULTURAL PRODUCTION DUE TO COVID-19 WITH SPECIAL REFERENCE TO KARAMADAI IN COIMBATORE DISTRICT

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## ABSTRACT

Agricultural production depends on the four factors of production, including land, labor, capital and organization/enterprise. Among these factors, the study is trying to cover the impact of COVID-19 on agricultural labor forces, intermediary input supply, and export and import restrictions. Finally, the production and distribution situation were discovered, with government measures implemented to minimize the agricultural losses. These impacts are also being felt by the food and agriculture sector.

## KEYWORDS:

Agriculture Production, Covid-19, Impacts, Lockdowns, Health.

## INTRODUCTION:

The COVID-19 pandemic is a global health disaster that is already having harmful impacts on the world economy – both direct and indirectly through necessary measures to contain the spread of the disease. Agriculture is the backbone of Indian economy and major source of livelihood in rural India. Covid -19 importantly affected the agricultural chain supply from the production Centre to the end user. The coronavirus disease 2019 (COVID-19) pan-demic, the Government of India imposed the largest lockdown in history. billion people were required to shelter in place from 25 March to 8 June 2020

Major impacts on agricultural production and food security as a result of the COVID-19 lockdown in India. This study was to evaluate the impact of the COVID-19 lockdown on agricultural production, livelihoods, food security, and dietary diversity in India. Agricultural production depends on the four factors of production, including land, labor, capital and organization/enterprise. Among these factors, the study is trying to cover the impact of COVID19 on agricultural labor forces, intermediary input supply, and export and import restrictions. Finally, the production and distribution situation were discovered, with government measures implemented to minimize the agricultural losses.

## OBJECTIVES OF THE STUDY:

- To understand the effects of agriculture production due to pandemic situation.
- Delivery of food rations of basic necessities (for example, Indonesia and Taiwan).

## STATEMENT OF PROBLEM:

Agriculture is the back bone of our country, but the importance of the sector is not well recognized. This study helps in finding the problem faced by the farmers due to covid-19. All farmer faced a lot of problems in pandemic situation. Not only farmers a people also affected in pandemic but a farmers faced a lot of issues in production and distribution which depends upon labour, capital, etc....

## REVIEW OF LITERATURE:

- ❖ **Hazards and risks of covid-19 in agriculture systems** Based on literature review, the analysis of covid-19 pandemics effects on agriculture sector can be grouped into farms resilience, agriculture goods supply and demand, labour regulation, food security and safety, overall economic and social consequence and international trade issues.
- ❖ **Dr. U. Arumugam1 Dr. G. Kanagavalli & M.Mania (2020)** in their paper Covid-19: Impact of Agriculture in India stated that the progressing wellbeing emergency around Covid-19 has influenced varying society..

- ❖ **S. Mahendra Dev and Rajeswari Sengupta, (2020)** in their paper entitled “Covid-19: Impact on the Indian Economy” On the health risk in rural countries, it is true to currently the problem is much more solemn in inner-city areas since of high compactness.
- ❖ **Prangya Paramita Sahoo & Suvangi Rath (2020)** in their paper Potential Impact of Corona Virus on Agriculture Sector stated that None the less, it very well may be fought with the coordinated of the focal and state governments alongside the examination establishments and augmentation administrations. The covid-19 can be treated as disaster associated with hazards and risks. Though, a disaster is an apprehension of hazard, there is no universally concept and agreement among scholars about the scale of hazard to be qualified as a disaster, however covid-19 pandemic can be treated as disaster taking into account overall negative impacts and risks occurred around the world and the number of deaths totaling to almost 2 billion.

### **RESEARCH METHODOLOGY:**

Research methodology is a step of a problem. Physical activities involved in the study are,

- Developing the questionnaire regarding the agriculture production due to covid 19 towards agriculture sector
- Optimum respondents as a sample size are chosen for the activity to resemble the entire population

### **TOOLS APPLIED:**

1. Percentage analysis
2. Chi-square test.

### **IMPACT OF AGRICULTURE PRODUCTION DUE TO COVID 19:**

1. Labour Shortages
2. Farmers Incomes.
3. Disruptions To Food Supply Chains
4. Transport And Logistics
5. .Food Safety And Quality

**ANALYSIS AND INTERPRETATION:****PERCENTAGE ANALYSIS:****TABLE :1 GENDER**

GENDER	NO OF RESPONDENSE	PERCENTAGE (%)
MALE	17	68
FEMALE	08	32
TOTAL	25	100

**Source: primary data**

The above table shows that 68 per cent of male involved in the farming and 32 per cent of female involved in the production due to covid 19.

**TABLE 2: AGE**

Age	No of response	Percentage (%)
20-30	07	28
31-40	04	16
41-50	10	40
51 and above	04	16
Total	25	100

**Source: primary data**

The table 2 indicates that 40 per cent of people belongs to 41-50 years of age . 28 per cent of people belong to 20-30 yrs of age, 16 percent of people belong to 31-40 yrs of age, and 16 per cent of people belong to age 51 and above.

## CHI-SQUARE TEST

	Value	df	Asymp.sig. (2-sided)
Pearson chi-square	3.454	3	.327
likelihood ratio	4.069	3	.254
linear-by-linear association	1.224	1	.269
N of valid cases	25		

- a. 7 cells (87.5%) have expected count less than 5. The minimum expected count is .72.

### FINDINGS:

Limits On The Mobility Of People Across Borders And Lockdowns Are Contributing To Labour Shortages For Agricultural Sectors In Many Countries, Particularly Those Characterized By Periods Of Peak Seasonal Labour Demand Or Labour Intensive Production. The Covid-19 Pandemic May Also Affect The Availability Of Key Intermediate Inputs For Farmers

### SUGGESTIONS:

- Promote orientation and awareness programs, training and general education to rural population about various types of irrigation and its uses.
- Interactive communication for transfer technologies to farmers about pandemic situation and its impact on agriculture.

### CONCLUSION:

The study mainly focuses on the impact of COVID-19 on agricultural production and distribution. Agricultural production is not only the result of one or two factors. Proper agricultural production depends on many factors, including intermediary inputs, agricultural labor force, and external and internal forces of country-to-country export and import situations.

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