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# Interruptions in the Agricultural Production System and Food Value Chain in the Times Covid-19 Pandemic

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## Abstract

The incidence and spread of the coronavirus pandemic (COVID-19) has created an imbalance in all sectors worldwide with a profound disruption on the global economy. Social distancing, quarantine regulations, and strict travel restrictions have led to a major reduction in the workforce and loss of jobs across all industrial sectors. The agrarian sectors such as agriculture, fisheries, and livestock which are vital aspects of food systems have not been spared by COVID-19. The agricultural sector forms the backbone of the global economy as it provides livelihood to the developed and developing countries. Therefore, disruptions in food security and the agricultural sector is having

and may continue to have far-reaching impacts on the agricultural ecosystem services. As a result, the pandemic has demonstrated the fragility of agriculture and the related food chain. Owing to the importance of the agrarian sectors, this review paper highlights the interruptions in the food and agriculture industry as a result of the on-going COVID-19 pandemic. The current state of the agriculture ecosystem in relation to the COVID-19 has indicated the importance of sustainable and resilient food system approaches to ensure future food security and food provision. © The Author(s), under exclusive license to Springer Nature Switzerland AG 2025.

## Author keywords

Agricultural ecosystem; Agriculture sector; Coronavirus disease; Food security; Global pandemic; Lockdown; Supply chain; Sustainable development goals

## Indexed keywords

### Engineering controlled terms

Agricultural economics; Food security; Sustainable agriculture

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Agri-food

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