Family farming in times of Covid-19

Agricultura familiar em tempos de Covid-19

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ABSTRACT

Family farming plays a vital role in the global food supply. The mobility restriction measures adopted internationally to contain Covid-19 are necessary to control the pandemic progress. However, they can impair food production and distribution. This paper aims to discuss the effects of the Covid-19 containment measures on the production and distribution of family farming food, and strategies to strengthen this sector. Sanitary and social distancing requirements, the interruption of supply to institutional markets, the closure of local farmers’ markets, or people’s declining food demand are hampering family farming food production’s flow and shrinking family farmers’ income. This situation can jeopardize the food sovereignty and nutritional security of the population in the medium and long term. Access to Personal Protective Equipment, the reorganization of local farmers’ markets, investment in new technologies for direct commercialization, guarantee of minimum income, and the strengthening/expansion of institutional food purchases are some of the strategies that can contribute to overcome the new challenges imposed on family farming as a result of the Covid-19 pandemic. We conclude the article by arguing that the support to and enhancement of the family farming sector are strategic to ensure food supply and to strengthen food and nutrition sovereignty and security.

Keywords: Coronavirus infections. Farmers. Food supply. Sustainable farming.

RESUMO

A agricultura familiar desempenha um importante papel no abastecimento alimentar mundial. As medidas de restrição de mobilidade adotadas internacionalmente visando a contenção da Covid-19 são necessárias para...
controlar o avanço da pandemia; no entanto, podem ter um efeito negativo na produção e na distribuição de alimentos. O objetivo deste artigo é discutir as implicações das medidas de contenção da Covid-19 na produção e distribuição de alimentos da agricultura familiar e possíveis estratégias para fortalecer esse setor. As exigências sanitárias e de distanciamento social, a interrupção no fornecimento a mercados institucionais e o fechamento de feiras livres e/ou diminuição na demanda por parte da população estão dificultando o escoamento da produção de alimentos da agricultura familiar e diminuindo a renda dos(as) agricultores(as). Essa situação pode, a médio e longo prazo, ter um efeito negativo na soberania e segurança alimentar e nutricional da população. O acesso a equipamentos de proteção individual, a reorganização de feiras livres, o investimento em novas tecnologias para a comercialização direta, a garantia de renda mínima e o fortalecimento/ampliação da compra institucional de alimentos são algumas das estratégias que podem contribuir para a superação dos desafios impostos à agricultura familiar em consequência da Covid-19. Apoiar e desenvolver esse setor são medidas estratégicas que devem ser adotadas para garantir a oferta de alimentos para a população e fortalecer a soberania e segurança alimentar e nutricional.

**Palavras-chave:** Infecções por coronavírus. Agricultores. Abastecimento de alimentos. Agricultura sustentável.

**INTRODUCTION**

Family farmers are responsible for the majority of the productive units that exist in the rural areas of the planet and contribute with an important part of food production [1]. The relevance of family farming to food systems became clearer in 2014, when the United Nations set the International Year of Family Farming, which triggered an important debate in society and governments [2,3]. Since then, it became evident the central role of this group in the food and nutritional sovereignty and security, poverty eradication, protection of the environment, and the strengthening of a sustainable development [1,2,4-6]. Family farming is estimated to account for 80% of the world food production, occupying 75% of agricultural land [7]. These data suggest the relevance of family farming for the food supply in the world.

Within the scope of Brazilian public policies, a family farmer is defined as a farmer who practices activities in rural areas on small portions of land and predominantly uses family members’ labor. Traditional peoples and communities, land reform settlers, foresters, aquaculturists, extractivists, and fishermen can also be considered family farmers [8]. This productive segment has a leading role in the Brazilian agrarian structure, as it is the main social category, accounting for 77% of the total farmers units according to the Agricultural Census conducted in 2017, which means an absolute number of 3,897,408 units. The majority of people working in agriculture in Brazil are family farmers, since small holder farms generate 10.1 million jobs, which represents 67% of the total economically active population employed in agricultural establishments [9].

Among the main sales channels used by family farmers to sell their production are street markets and public purchases – especially the National School Feeding Program [10,11]. Fresh foods are the most produced and commercialized foods by family farmers, particularly vegetables and fruits [10]. Research showed that the integration of family farming in the institutional market via public purchases has a positive impact on the quality of the food offered, given the increase in the quantity and variety of fresh food offered as well as the inclusion of products from regional biodiversity [12,13].

The reality of Brazilian family farming reflects the characteristics already demonstrated by studies carried out in other international contexts, which indicated that in the regions where family farming predominates, food culture and inheritances related to existing culinary knowledge are much more varied. In regions where large farms predominate producing staple food (soy, corn, wheat and others), the food habits are based on products purchased in supermarkets, because farmers have
already stopped growing the crops they used for their own nutrition [14]. Small rural properties help to maintain the diversity of agricultural products and nutrients worldwide [15].

The importance of strengthening family farming lies not only in the role this segment plays in urban population’s food supply, but also in its potential for income distribution and rural population’s poverty and social vulnerability reduction [1,7]. It is estimated that a large part of the population facing food insecurity lives in rural areas [16,17].

The measures adopted to curb the advancement of Covid-19, such as the closure of borders and of local farmers’ markets, as well as the cessation of public purchases, highlight the weaknesses of the food system and may have a negative impact on production and marketing of food produced by family farms, increasing social vulnerability and food insecurity [18-20]. On the other hand, the exposure of these weaknesses can represent an opportunity to drive changes in the form of production and commercialization of food, towards socially fair and environmentally more sustainable forms, such as small-scale production, using organic production and short food supply chains [19,21]. Short supply chains suffer less from displacement restrictions and their strengthening can increase job opportunities and improve the quality of life for people in a region, besides being potential alternatives to guarantee food supplies during the current crisis [18].

The purpose of this article is to discuss the implications of covid-19 containment measures on the production and distribution of family farming food and strategies for the strengthening of this sector.

DEVELOPMENT

The scientific and technological advances of the last decades, together with the opening of markets, drove important changes in the way society is organized around food production. In an increasingly globalized market, there is a growth in food production and processing at a global level, a strengthening of large international corporations in the agri-food sector (production, processing and distribution), and a greater dependence on the international market [22,23].

The mobility restriction measures adopted at international level to contain Covid-19, necessary to control the advance of the pandemic, highlighted the fragility of the current food system and revived the debate about the stability of the internal food supply and food security [24-27]. This context highlights the fact that the political model based on the concept of food security and the free market may not be adequate to ensure the availability and access of food by the population. Also, it may represent a window of opportunity to incorporate the sovereignty perspective into food policy.

The concept of Food Sovereignty advocated by Via Campesina highlights the autonomy of peoples in deciding their own food and production system, emphasizing the role of producers and consumers in the decision-making of food policies, above market demands [28,29]. Thus, family farming represents a strategic sector for the construction of food sovereignty [25]. However, thinking of food sovereignty as a determinant of the food system, especially in the post-pandemic, brings to light the need for reorganization of farmers [30]. This is because many small-scale producers suffer the constraints and restrictions that are expressed in the lack of priority and recognition by national public policies, as well as in the weakness of access to their main assets, such as land, water, inputs and storage and processing infrastructures [31].

As part of Brazil’s public policies, a series of state strategies have been developed in recent decades aimed at protecting and strengthening family farming [1,32]. Among these strategies, the
public purchases of food produced by family farming stand out [1,13,32,33]. Studies have shown the benefits of buying food from family farmers for both consumers and producers [13,34-36] and enhance the importance of strengthening this productive sector. However, several of these strategies may be threatened by the discontinuity of public policies and the negative consequences of Covid-19 control measures (such as the closure of institutional markets and street markets).

Specifically, the decrease in the demand for food caused by the closing of institutional markets, farmers’ markets, hotels, as well as price deregulation is changing food production and commercialization by the Brazilian family farmers [37,38]. In order to guarantee food production for the entire population and not to increase the situation of economic vulnerability of the farmers’ families, it is necessary to adopt measures with a clear and emergency objective in mind to stimulate the production and the income assurance for family farmers. Initiatives such as food baskets delivered at home and diffusion strategies through social networks have been used by farmers’ organizations as an alternative for the production outflow [37]. In this type of initiative, family farming, especially that with an agroecological basis, forms an alternative network of short production and sales circuits and becomes strengthened when it forms associative partnerships and is fostered by public policies [39].

On the other hand, state governments and rural workers’ organizations are developing strategies to guarantee financial and productive security. Less frequently, actions to guarantee income to farmers and to regulate the food system and agricultural prices are also being developed [40].

Chart 1 groups strategies that can be adopted to minimize the negative impact on food production and commercialization and on the income of family farmers resulting from actions to control the pandemic.

<table>
<thead>
<tr>
<th>Factors arising from COVID-19</th>
<th>Problems</th>
<th>Alternatives</th>
</tr>
</thead>
<tbody>
<tr>
<td>Risk of contamination in production and marketing</td>
<td>Difficulty in ensuring materialization of the recommendations of hygiene and social distance in the production and marketing of food.</td>
<td>Municipal agricultural departments can provide guidance materials, alcohol gel, masks (when needed). Technical assistance agencies can conduct (remote) training with family farmers to guide safe ways of production and marketing. Supply departments can establish systems for controlling the number of people at street markets and make the necessary personal protective equipment available to market traders and consumers.</td>
</tr>
<tr>
<td>Closing of establishments (street markets, hotels, institutional restaurants, commercial restaurants)</td>
<td>Difficulties in delivering production. Consumers increased the demand for supermarkets, online shopping and home delivery.</td>
<td>Support the development of technological tools to assist online sales. Reorganization of the street market (number of days/ frequency/ number of vendors/ times/ entrance control/ use of masks, and other needs). Create and disseminate guidance manuals of good purchasing practices for merchants and consumers. Inclusion of food from family farming in basic food baskets distributed by governmental and non-governmental organizations. Creation of online platforms that assist direct purchase and virtual street markets. Creation of specific supply centers for local food produced by family farming.</td>
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</tbody>
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Chart 1. Strategies to minimize the negative implications in food production and marketing, arising from actions to combat Covid-19.

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<tbody>
<tr>
<td>Closing of institutional</td>
<td>Difficulties to deliver production.</td>
<td>Guarantee and expand the purchase of food provided for school meals National School Food Program (PNAE) and distribute baskets to students in socially vulnerable situations. Guarantee and expand the purchase of food via Institutional Purchase to supply public Food and Nutrition Equipment, such as popular restaurants, community kitchens and food banks. Expansion of purchase notices via the Food Acquisition Program (PAA) for donation to institutions that serve populations in situations of food insecurity.</td>
</tr>
<tr>
<td>Decreased sales</td>
<td>Decreased income</td>
<td>Guarantee of emergency basic income for family farmers. Rural credit. Technical assistance and rural extension.</td>
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Note: Chart elaborated by the authors based on [37-40, 42].

PAA: Programa de Aquisição de Alimentos; PNAE: Programa Nacional de Alimentação Escolar.

To implement these strategies, it is necessary to develop joint actions between civil society and public authorities. It is necessary for social movements to improve their capacity to charge the government. These relations should also be strengthened in order to meet the needs of the population, especially in these pandemic times [30,41]. In this connection, family farming organizations have demanded emergency protection measures. An example is Bill 735/2020, approved by the National Congress in August 2020 [42]. The strategies presented in the project include the maintenance of public purchases of food produced by family farmers, assistance through the Environmental Conservation Support Program, supply guarantee of essential services such as water, electricity and gas for the beneficiaries of the Bolsa Família welfare program, suspension of debt collection by financial institutions in addition to more specific physical goals and programmatic actions.

CONCLUSION

In view of its numerical relevance and due to its role in generating jobs and income, family farming plays a strategic role not only for food production, but also for building lasting solutions for the improvement of living conditions in rural areas and for the quality of the food supply. The Covid-19 containment measures are having a negative effect on production and sales of food originating from this productive segment. To minimize these negative effects, it is essential that policy makers as well as governments and civil society in general, be shown that investment in this social group is worthwhile and justified, both because of the legitimacy represented by its vast numerical majority, and because of the potential it represents to guarantee supply, sovereignty and nutritional security.

CONTRIBUTORS

All authors collaborated in the writing of the manuscript and approved the final version.
R E F E R E N C E S


