

Rural Brokers: The Intermediary Role and Challenges in Advancing Rural Development through Contract Farming

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Abstract: This article extensively explores the implications of contract farming on rural brokers, emphasizing their pivotal role and the inherent challenges within this domain. It comprehensively elucidates the concept and efficacy of contract-based agriculture, highlighting the crucial role played by rural brokers in advancing rural development. The analysis underscores how the rise of contract farming has not only facilitated the emergence and evolution of rural brokers but has also brought about a transformation in their operational roles. However, contract farming has introduced a myriad of challenges for rural brokers. This article meticulously enumerates these challenges and proposes strategic pathways for the development of rural brokers engaged in contract farming. A comprehensive examination emphasizes the intricate symbiosis between contract-based agriculture and rural brokers. Their collaborative synergy not only fosters agricultural modernization but also unveils novel prospects for sustainable rural economic development.

Keywords: Rural brokers; Contract farming; Media role.

1. Introduction

China has consistently demonstrated a deep concern for issues pertaining to agriculture, rural areas, and the welfare of farmers. The government has unequivocally stated that addressing these concerns stands as the primary objective of the entire Party's agenda [1]. Against the backdrop of continuous advancements in Internet technology and the widespread adoption of pre-order delivery and purchase models, contract farming is experiencing steady growth. This development is actively supported by the government and is propelled by the increasing societal demand for streamlined supply chains, marking it as a prominent and vital trend. Contract farming, as a market demand-driven agricultural model, underscores the direct correlation between the production of agricultural products and market demand through meticulously crafted contracts and agreements tailored to specific market needs [2]. By establishing contracts in advance and clearly defining details such as product types, quantities, quality standards, and prices, this approach provides farmers with a more stable and secure market. The proactive engagement in contracts has a positive impact on mitigating market risks in agricultural production, enhancing the added value of agricultural products, facilitating the optimization and upgrading of the agricultural industry chain, and propelling agriculture towards modernization and specialization.

To date, scholarly attention has predominantly centered on the development and application of new technologies, the role of big data in agricultural production, the dynamics of the farmer-enterprise relationship, and the policy and economic implications of contract agriculture research. Bai Meimei, for instance, has innovatively implemented IoT technology in greenhouse vegetable production and crop planting management. This application empowers growers to conduct more scientific greenhouse management, offering buyers

valuable insights into the crop's growth process[3]. Wang Shenchen's research, rooted in the analysis of agricultural cases across three diverse regions in China, underscores the transformative impact of agricultural big data technology. His findings highlight its potential to spur agricultural development, drive technological innovation in agriculture, and elevate the overall production and management capabilities in the sector, ultimately paving the way for high-quality development[4]. Moreover, Wang Cong and colleagues have contributed to the discourse by constructing a Stackelberg game model within a "company+farmer" order agriculture framework. Their model suggests that the sharing of information between companies and farmers consistently enhances their profits, fostering collaboration and synergy in this cooperative agricultural model. These diverse studies collectively underscore the multifaceted role of technology, data, and collaborative models in advancing agricultural practices and outcomes[5].

Furthermore, rural brokers hold a pivotal position in rural development, particularly within the realm of contract agriculture. Wang Qiuyue highlighted that in smaller regional markets, social intermediaries primarily constituted by local brokers play a significant role[6]. Zeng Fanmu emphasized that establishing novel social connections among villagers in traditional agricultural societies can offer robust support to rural stakeholders[7]. Within the order agriculture model, rural brokers serve as the vital bridge between farmers and the market. They aid in contract negotiation between farmers and buyers, fostering high-quality agricultural product production, and ensuring the seamless execution of contracts.

Numerous studies have delved into contract agriculture and farmer brokers, yet certain deficiencies persist. The majority of these studies concentrate on associated concepts, roles, and prevalent issues, often overlooking the emergence and active participation of farmer brokers. Consequently, establishing effective links to societal contexts becomes a challenge. This

article seeks to address these gaps by elucidating the concept and role of contract agriculture. It sheds light on the pivotal contribution of rural brokers in fostering rural development. Additionally, it integrates the mediating function of rural brokers in the realm of contract agriculture to formulate development strategies aimed at enhancing their role in this domain.

2. The Emerging Impact of Rural Brokers in The Shaping of Contract Farming

2.1. Integration and development of rural brokers in the context of contract farming

The contract farming model significantly propels the emergence and evolution of rural brokers. Firstly, it intricately links agricultural products with market demand, intensifying the visibility of agricultural products within the market landscape. In this process, rural brokers assume a pivotal role as facilitators between farmers and the market, meticulously gathering and dissecting market information to align with order demands, thereby stimulating the production and sales of agricultural products. Secondly, the contract farming model addresses the issue of information asymmetry prevalent in traditional agriculture by introducing heightened transparency in market information. Leveraging this transparency, rural brokers assist farmers in making astute decisions and enhancing the overall efficiency of agricultural production. Moreover, contract framing predominantly operates through formal agreements, involving rural brokers in the formulation and execution of contracts. They aid farmers in regulating their business conduct, fostering the standardization and specialization of agricultural production. While the market demand within the contract framing model tends to be more stable, it is accompanied by certain market risks. Rural brokers actively engage in managing these risks by collaborating with farmers in contract management and information exchange, thereby offering a more dependable income source. Lastly, the modernization of contract agriculture necessitates farmers' adaptation to new technologies, wherein rural brokers play a pivotal role by providing indispensable technical support and training services. This assistance facilitates the transition, ensuring farmers are equipped with the necessary skills to embrace technological advancements effectively.

Overall, the development of contract framing has created abundant opportunities for rural brokers, transforming them from traditional information intermediaries to diverse service providers, and promoting their emergence and development in modern agriculture.

2.2. Novel responsibilities and role evolution of rural brokers in the context of contract farming

In the era of contract farming, rural brokers have assumed a pivotal role that extends beyond traditional information transmission. They are now shouldering new and expanded responsibilities as integral components of the contract farming model. The evolution of this integration has elevated rural brokers to the status of a crucial link within the agricultural value chain.

In the realm of contract farming, rural brokers have transcended their traditional role as mere conveyors of market

information. They have evolved into indispensable market coordinators, establishing close connections between agricultural products and market demand through the dissemination of crucial information, encompassing market demand dynamics, price trends, and product standards. Beyond this, their involvement in contract management and risk-sharing mechanisms is pivotal. Rural brokers assist farmers in comprehending contract details, fostering a collaborative approach to risk mitigation, and thereby reducing market uncertainties. The diversification of their service portfolio marks a significant trajectory in their development. They are no longer confined to being information intermediaries but have expanded their functions to include vital aspects such as contract management, market analysis, and technical support. Through the orchestration of production activities among multiple farmers, rural brokers contribute to the promotion of economies of scale, ultimately enhancing the overall efficiency of agricultural production. The advent of contract farming has opened up expansive developmental opportunities for rural brokers. This transformation elevates their role from that of a singular information intermediary to that of a multifaceted service provider. In doing so, it not only meets the evolving needs of the agricultural landscape but also propels the professional and market-oriented advancement of agricultural production.

3. The Intermediary Role of Rural Brokers in Contract Farming

3.1. Functions of rural brokers in contract farming

Rural brokers serve as pivotal conduits for information exchange. Within the contract farming framework, producers must possess intricate insights into market demand, quality benchmarks, delivery schedules, and other essential details. Establishing intimate ties with producers, rural brokers adeptly gather and disseminate pertinent market information. This facilitates producers in tailoring their output to meet actual market requisites. Such facilitation significantly mitigates the challenge of information imbalances and substantially enhances producers' adaptability to market dynamics.

Rural brokers serve as pivotal agents in orchestrating market dynamics. Their instrumental role lies in fostering the seamless flow of agricultural products through adeptly cultivating relationships with producers, purchasers, and various stakeholders. These brokers not only spearhead the coordination of order generation and fulfillment but also meticulously ensure the punctual delivery of products, thereby mitigating uncertainties in cooperative endeavors[8]. Their acumen extends to contract formulation and legal support, actions that underpin the establishment of enduring cooperative alliances and enhance the overall efficiency of the supply chain.

Beyond their foundational role in market coordination, rural brokers assume a mediating function in intricate realms such as price negotiations and risk management. Their expertise enables them to facilitate negotiations between producers and buyers, delicately balancing the often divergent interests of both supply and demand. Confronting the volatility inherent in market fluctuations and escalating risks, rural brokers contribute significantly by orchestrating effective contract management and risk-sharing mechanisms. These measures provide producers with resilient sales

channels, effectively curtailing the inherent risks associated with agricultural operations.

In summary, rural brokers within the context of contract agriculture emerge as indispensable intermediaries, adeptly navigating information transmission, market coordination, and risk management. Their contributions stand as pillars fostering the successful implementation of the contract agriculture model, thereby propelling the harmonized development of the agricultural product supply chain.

3.2. The role of rural brokers in contract farming

In the realm of contract farming, rural brokers assume a pivotal role in driving the implementation and evolution of the contract agriculture model. Operating as intermediaries between producers and buyers, these brokers facilitate a seamless integration of production and demand in contract farming by fostering robust communication and collaboration between the involved parties.

Their responsibilities encompass the provision of comprehensive market information and strategic guidance. Rural brokers convey crucial details such as market demand and quality standards to producers, aiding them in refining production strategies, enhancing product quality, and aligning output with market requirements. Additionally, these brokers actively contribute to the formulation and execution of contracts, adeptly managing diverse risks including market fluctuations and weather changes, thereby ensuring the smooth execution of contractual agreements. The coordination efforts of rural brokers extend across the entirety of the supply chain. They meticulously oversee the production, packaging, and transportation of agricultural products in accordance with contract specifications, guaranteeing timely deliveries to buyers. This comprehensive approach serves to augment the efficiency and reliability of the entire supply chain. By addressing challenges, orchestrating supply chain coordination, disseminating vital market information, and fostering enduring cooperative relationships, rural brokers emerge as an indispensable force in contract farming. Their multifaceted contributions play a pivotal role in propelling the sustainable development of the contract agriculture model, thereby solidifying their position as integral pillars of this evolving agricultural paradigm.

4. Challenges and Development Faced by Rural Brokers

4.1. The Challenge of Contract farming to Rural Brokers

While contract farming presents new opportunities for rural brokers, it concurrently introduces a set of challenges that necessitate their adaptation and resilience.

(1) The contract farming model demands an elevated proficiency in information technology. Rural brokers are required to adeptly navigate advanced technical tools to efficiently process orders, manage data, and communicate with relevant stakeholders. For those with limited technical expertise or lacking digital capabilities, this poses a substantial challenge.

(2) Contract farming introduces intricate market and contract structures. Rural brokers must acclimate to continually shifting market demands, comprehend diverse contract terms, and grasp legal provisions to ensure the seamless execution of contracts. This necessitates a

heightened level of professional knowledge and legal awareness to preempt potential contract disputes and complications.

(3) Within the contract farming framework, market fluctuations and risks amplify. Rural brokers must enhance their ability to manage uncertainty in the supply chain, navigate price fluctuations, and mitigate market risks to maintain a stable economic situation. This may involve the adoption of more sophisticated risk management strategies and tools.

(4) The landscape of contract farming is witnessing heightened competition. With an increasing number of rural brokers embracing this model, the challenge lies in vying for market share and maintaining service quality. To stay ahead, rural brokers must consistently elevate their competitiveness by delivering more professional and efficient services, thereby attracting customers and ensuring sustainable business growth.

(5) The recruitment of rural brokers in rural markets has become more challenging. While rural brokers play a crucial role in propelling rural economic development, a scarcity of young talent persists in rural areas. Many opt to pursue opportunities elsewhere rather than staying in their home regions. Additionally, the generally low cultural level of farmers raises questions about their potential to transition into diversified rural broker roles. Consequently, a shortage of suitable rural brokers may impede efforts to foster local rural economic development.

4.2. Development Path of Rural Brokers

(1) Education and Training: Meeting the demands of modern agriculture requires rural brokers to undergo comprehensive training encompassing digital technology, market analysis, contract management, and other essential facets. Tailored education and training courses play a pivotal role in elevating their professional competence, enabling them to adeptly navigate the evolving landscape of contract farming. Simultaneously, these initiatives serve as a means to foster local talent, instilling the concept of "staying" among young individuals and instilling the confidence to actively contribute to rural development, embodying the spirit of "pushing the countryside out".

(2) Active Engagement in Digital Transformation: The advent of digital transformation necessitates the proactive involvement of rural brokers. Proficiency in modern agricultural technology and information tools, such as electronic contract management and Internet of Things technology, can significantly enhance their operational efficiency, reduce costs, and facilitate better service delivery to both producers and buyers.

(3) Diversification of Services: To expand income streams and enhance competitiveness, rural brokers can explore diversifying their service offerings. Beyond market coordination in contract farming, they can consider providing additional services such as agricultural technology consulting and risk management. This diversified approach caters to the varied needs of stakeholders across the agricultural industry chain, both upstream and downstream.

(4) Fostering Collaborative Partnerships: Rural brokers can broaden their business horizons by forging close cooperative ties. Cultivating strategic partnerships with key entities such as agricultural research institutions, financial organizations, and logistics companies not only grants them access to additional resources and support but also facilitates a more

efficient circulation of agricultural products.

(5) Niche Specialization in Agricultural Market Evolution: As the agricultural market continually evolves, rural brokers have the opportunity to pursue specialized development in specific fields, positioning themselves as experts. This strategic move enables them to cultivate a profound understanding of the industry, enhance service quality, and secure competitive advantages within distinct niches.

(6) Embracing Social Responsibility: Rural brokers are encouraged to actively engage in social responsibility projects, championing sustainable agricultural development. By doing so, they not only enhance their corporate image but also garner recognition and support from society, laying a robust foundation for long-term development.

In conclusion, through a commitment to continuous learning, innovation, and proactive participation in industry development, rural brokers position themselves to adeptly navigate changes. This approach equips them to effectively seize opportunities and tackle the challenges inherent in the evolving landscape of future agricultural development.

5. Conclusion

The relationship between contract farming and rural brokers is intricately intertwined. The emergence of contract farming has widened the market landscape for rural brokers, offering them expanded opportunities. This model presents a streamlined and direct avenue for the circulation of agricultural products, enhancing efficiency in the process. Nonetheless, it brings about intense market competition and heightened requirements for digital technology. Adapting to shifting market demands is imperative for rural brokers, but equally important is their need to elevate their information technology proficiency through digital transformation. This enhancement enables them to adeptly handle orders, manage data efficiently, and maintain effective communication with all stakeholders involved.

In this dynamic interplay, the crux of rural brokers' development lies in cultivating close cooperative relationships. It is imperative for them to forge stable partnerships with farmers, purchasers, logistics companies, and other stakeholders. Such collaborations contribute to the creation of a more cohesive industrial chain, thereby enhancing overall efficiency. Simultaneously, to achieve distinctive operations, rural brokers can diversify their service areas, incorporating offerings like quality certification and traceability services. This strategic expansion allows for

differentiated business development, ultimately augmenting added value.

Furthermore, the evolution of contract farming presents an avenue for rural brokers to champion sustainable practices within the agricultural landscape. They can play an active role in pursuing sustainable agricultural certification, offering environmentally conscious agricultural consulting services, and collaboratively advocating for the industry's sustainable development. Hence, while adapting to the dynamics of contract farming, rural brokers can adeptly capitalize on opportunities and play a pivotal role in fostering the wholesome growth of the entire agricultural industry chain. This is achieved through a blend of cooperation, digital transformation, differentiated management, and a steadfast commitment to sustainable development.

References

- [1] Guo Jiayan, Wu Chenhu, Niu Xiangjie. Development and research of agricultural product sales platforms under the background of informatization [J]. *Modern Agriculture*, 2023, (03): 53-55.
- [2] Fu Dengxin. Countermeasures and Suggestions for Developing Contract Agriculture under the Background of Rural Revitalization [J]. *Research on Grain Issues*, 2023 (01): 33-36.
- [3] Bai Meimei. Exploration of Integration and Application Demonstration of Order Agriculture Technology [J]. *Zhejiang Agricultural Science*, 2020,61 (09): 1950-1952
- [4] Wang Shenchen. Application research on empowering high-quality development of agriculture with agricultural big data [J]. *Economist*, 2022 (10): 8-11.
- [5] Wang Cong, Lang Kun, Zhu Lei, etc Research on Information Sharing Decision of "Company+Farmers" Order Agriculture Supply Chain [J]. *Industrial Engineering and Management*, 2020,25 (06): 191-198.
- [6] Wang Qiuyue. Social Intermediary: The Linkage Mechanism between Farmers and the Market: An Investigation Based on the Economic Behavior of Brokers in D Village, Pidou District [J]. *Journal of Agriculture and Forestry Economic Management*, 2020, 19 (02): 235-243.
- [7] Zeng Fanmu. The Reconstruction of Social Relations with Familiar People: New Embedding of Economic Activities in New Agricultural Villages [J]. *Learning and Practice*, 2013, (02): 93-98.
- [8] Wen Huiwu. Suggestions on Accelerating the Construction of Rural Brokers in Zhangwu County [J]. *Friends of Farmers Getting Rich*, 2018 (05): 222.