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Postprint: The Scale, Structure, and Development Potential of Agricultural Product Trade between China and Belt and Road Countries

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Date: 2018-10-23T00:00:00+00:00

Abstract

Agricultural trade constitutes one of the key areas of economic cooperation between China and countries along the “Belt and Road” Initiative. This article examines the scale, structure, and development trends of agricultural trade between China and these countries. The findings indicate that both the scale and growth rate of such trade exhibit dual characteristics of disparity and hierarchical gradation across regions and among countries within regions. Specifically, the ASEAN region records the highest agricultural trade volume with China along the route, whereas Central Asia represents a region with a relatively low trade share but rapid growth rate. Improving trade structure and optimizing the trade environment emerge as urgent imperatives for achieving interactive, mutually beneficial, and shared development among countries along the “Belt and Road” .

Full Text

Preamble

DOI: 10.12118/j.issn.1000-6060.2018.05.23

Journal: ARID LAND GEOGRAPHY

Abstract

Agricultural product trade between China and countries participating in the Belt and Road Initiative represents one of the key fields of economic cooperation. This paper examines the trade scale, structure, and potential between China and these countries using methods including applied statistical description, comparative analysis, and a gravity model based on trade statistics from

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Where F_{ij} represents the trade flow between country i and country j ; M_i and M_j denote the economic scale of the trading partners; D_{ij} indicates the geographic distance between them; X_{ij} represents other control variables; α , β , θ , and γ are parameters to be estimated; and ε_{ij} is the error term.

The analysis reveals that population size, economic scale, and membership in economic cooperation organizations are the primary factors influencing agricultural trade. Geographic distance exhibits significant negative effects on trade flows. The China-ASEAN Free Trade Area demonstrates a substantially larger positive effect on agricultural trade compared to the Shanghai Cooperation Organization (SCO).

Trade potential calculations indicate heterogeneous patterns across regions. Countries exhibiting larger trade volumes and faster growth rates, particularly those with geographical proximity advantages, generally fall into the category of “potential remodeling.” Leading countries in each region also show significant trade potential. The analysis identifies an urgent need for China to cultivate new agricultural trade potential through structural upgrading and trade environment optimization.

The product composition of current trade flows predominantly features labor-intensive and land-intensive agricultural products, suggesting the necessity of structural improvement. Regional disparities follow a staircase pattern, with ASEAN countries representing the highest tier of trade volume and Central Asian countries showing lower baseline volumes but rapid growth trajectories.

References

- [1] GONG Piping, SONG Zhouying, LIU Weidong. Commodity structure of trade between China and countries in the Belt and Road Initiative area[J]. Progress in Geography, 2015, (5): 571-580.
- [2] ZHENG Lei, LIU Zhigao. Spatial pattern of Chinese outward direct investment in the Belt and Road Initiative area[J]. Progress in Geography, 2015, (5): 563-570.
- [3] ZHANG Haisen, XIE Jie. Agricultural trade between China and Eastern Europe: With gravity model[J]. Chinese Rural Economy, 2008, (10): 45-53.
- [4] TANG Bi. Agricultural products trade between China and the Bric Countries: Comparative and potential for cooperation[J]. Issues in Agricultural Economy, 2012, (10): 67-75.
- [5] SUN Dayan, KONG Fanli. Agricultural trade between China and the Belt and Road countries[J]. World Agriculture, 2015, (10): 186-190.

- [6] LI Fujia, DONG Suocheng, YUAN Linna. Study on agriculture patterns and strategy of the Belt and Road[J]. Bulletin of Chinese Academy of Sciences, 2016, 31(6): 678-688.
- [7] ZHANG Yun, YANG Guang, YANG Yang. The strategy of the Belt and Road: The opportunity to strengthen cooperation between China and Central Asia[J]. Journal of International Economic Cooperation, 2015, (1): 31-34.
- [8] QI Shengda, LEI Jun, DUAN Zuliang, et al. Spatial difference and evolution of regional logistics in Silk-road Economic Belt in China[J]. Arid Land Geography, 2016, 39(1): 208-215.
- [9] ZHONG Yu, ZHAO Changhe, WANG Lihe. Study on the countermeasures of promoting foreign investment in China's agriculture in the new era[J]. Economic Review, 2016, (5): 94-98.
- [10] LIU Haimeng, FANG Chuangling, REN Yufei. Logistics industry and cross-border electric business of Sino-Kazakhstan cooperation demonstration zone in Silk Road Economic Belt[J]. Arid Land Geography, 2016, 39(5): 1201-1210.
- [11] WEI Xiaoxu, ZHAO Jun, WEI Wei. Spatio-temporal evolution characteristics of economic development in Silk Road Economic Belt[J]. Arid Land Geography, 2015, 38(6): 1300-1309.
- [12] FAN Binbin, LUO Geping, HU Zengyun, et al. Land resource development and utilization in Central Asia[J]. Arid Land Geography, 2012, 35(6): 929-937.
- [13] ZHOU Ying, LIU Weidong. Trade potential and influencing factors of agricultural products between China and countries along the Belt and Road[J]. Journal of International Trade, 2016, (11): 34-44.
- [14] GONG Piping, SONG Zhouying, LIU Weidong. Commodity structure of trade between China and countries in the Belt and Road Initiative area[J]. Progress in Geography, 2015, (5): 571-580.
- [15] ZHENG Lei, LIU Zhigao. Spatial pattern of Chinese outward direct investment in the Belt and Road Initiative area[J]. Progress in Geography, 2015, (5): 563-570.
- [16] ZHANG Haisen, XIE Jie. Agricultural trade between China and Eastern Europe: With gravity model[J]. Chinese Rural Economy, 2008, (10): 45-53.
- [17] TANG Bi. Agricultural products trade between China and the Bric Countries: Comparative and potential for cooperation[J]. Issues in Agricultural Economy, 2012, (10): 67-75.
- [18] SUN Dayan, KONG Fanli. Agricultural trade between China and the Belt and Road countries[J]. World Agriculture, 2015, (10): 186-190.
- [19] LI Fujia, DONG Suocheng, YUAN Linna. Study on agriculture patterns and strategy of the Belt and Road[J]. Bulletin of Chinese Academy of Sciences,

2016, 31(6): 678-688.

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