

Doctoral Dissertation Defense
博士論文発表会(公聴会)

The Impact of Agricultural Cooperative Participation on Farmers' Income and the Adoption of Sustainable Agricultural Technologies in Vietnam: Evidence from Vegetable and Dragon Fruit Production

(農業協同組合への参加が農家の所得向上および持続可能な農業技術の導入に及ぼす影響—ベトナムの野菜およびドラゴンフルーツ生産を事例として—)

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Abstract

This dissertation examines how agricultural cooperatives and sustainability standards influence smallholder welfare, technology adoption, production behavior, and market resilience in Viet Nam. It uses original surveys of 148 vegetable farmers in Son La Province and 247 dragon fruit farmers in Binh Thuan Province.

The findings indicate that cooperative participation is associated with higher household income, greater adoption of sustainable technologies and VietGAP-oriented practices, and improved access to quality-oriented markets. Cooperative members were more likely to use improved irrigation, safer inputs, production records, LED lighting, and drip irrigation. Risk perception partially mediates the relationship between cooperative participation and safe production behavior, as members report both stronger compliance and higher perceived natural, technical, and market risks.

VietGAP certification is also associated with more stable farm-gate prices, particularly when combined with cooperative marketing channels that improve information flows, contract enforcement, and bargaining power. Despite limitations related to cross-sectional data and regional coverage, the results suggest that cooperatives and sustainability-oriented arrangements can strengthen smallholder resilience and support more inclusive and sustainable agricultural development in Viet Nam.



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