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Logistics Strategy for Agricultural Products in Thailand; Case Study: Hub and Spoke System Applied within the Shrimp Industry

By Sumetee Wongsak

Cuvillier Verlag Jul 2011, 2011. Taschenbuch. Condition: Neu. Neuware - Transportation costs are typically constitute the largest percentages of the total cost in the production process of agricultural industries. This study aims to apply the hub-and-spoke system to the agricultural transportation and distribution networks of Thai agricultural products in order to reduce transportation costs and to investigate the location of facilities within the shrimp industry by varying parameters. Hubs serve as collection and switching points in the system and transportation flows will be consolidated in the hub links. The concentration in the hub network leads to economies of scale, and for this reason the transportation cost rate will be reduced. In the study, central markets for shrimp are referred to as hubs. The hub location models are divided into uncapacitated hub location models and hub location models with minimal capacity. These models are stated as an integer linear programming model. The objective functions of both models are identical. They include the costs of direct and indirect transportation as well as the construction costs of hubs. While evaluating transportation costs, the opportunity cost reflected in the perishable nature of the agricultural products is accounted for as well. The rates of the opportunity cost are calculated as the difference between averaging shrimp prices of direct trade...



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Reviews

Complete guideline for publication fans. I am quite late in start reading this one, but better than never. It is extremely difficult to leave it before concluding, once you begin to read the book.

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Thorough information! Its this kind of good read. Yes, it is perform, continue to an amazing and interesting literature. It is extremely difficult to leave it before concluding, once you begin to read the book.

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