# Analysis of Changing Methods of Vertical Coordination in the Pork Industry

# Steve W. Martinez, Kevin E. Smith, and Kelly D. Zering

#### ABSTRACT

This study examines the motivation behind contracts and vertical integration in the pork industry, and simulates the effects of potential improvements in coordination. Incentives related to lowering costs of measuring and sorting hogs, and protecting against opportunistic behavior associated with specific assets, can result in hog quality improvements. A framework for simulating the effects of increased coordination through contracts and vertical integration was developed and used to evaluate potential improvements in leanness. Although simulations suggest only modest changes in pork prices and supplies, gains in consumers' surplus could be substantial for larger demand shifts due to quality improvements.

Key Words: contracts, hogs, lean pork, simulation model, vertical coordination, vertical integration.

Significant changes underway in the pork industry illustrate the industrialization of agriculture (Hurt; Boehlje; Rhodes). The trend toward larger, more specialized hog production and processing operations is accelerating (Hurt). Potential size economies and new health-enhancing technologies encourage greater concentration of animals. Changing methods of vertical coordination in the pork industry are also evident. The proportion of slaughter hogs obtained by large packers through long-term contracts or integrated operations is expected to increase from approximately 13% in 1993 to 34% in 1998 (Hayenga et al.).

Greater use of contracting and integration has led to complaints by smaller hog producers and packers about market power. Market power through price discrimination, or barriers to entry, may result in welfare losses to society because of misallocated resources. Contracting and integration also reduce the amount and accuracy of publicly available market information, which may distort production and marketing decisions of producers.

However, contracting and integration may also result in improved food quality for consumers. As households have become smaller and the value of their time has increased, consumers place a greater value on convenience and quality assurances in their food purchases. Information linking diet to health has increased consumer interest in the nutritional quality of food products. Trends toward more away-from-home food consumption and in-

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Relative Efficiency of Various Genetic Mechanisms for Suppression of Insect Populations E. F. Knipling, W. Klassen, Waldemar Klassen, 1976 Fish Marketing and Credit in Viet Nam Audun Lem, Food and Agriculture Organization of the United Nations, 2004-01-01 Since the early 1980s exports of fish in Viet Nam have increased significantly while the improvement of domestic marketing and utilization of fish have not received sufficient attention Improving supplies of fish for urban and rural populations better quality and safety of products and ensuring food security particularly for disadvantaged and vulnerable parts of the population are important concerns which were addressed by studies the findings of which are presented in this report These findings suggest that the domestic consumption of fish in Viet Nam is probably higher than previously assumed Given the projected strong economic growth over the coming years it must be expected that local consumer demand will continue to expand At the same time the exportoriented fish processing industry will result in an increased demand for raw materials This substantial future demand for safe and high quality fish products can only be met if efficient marketing arrangements are in place

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