ERS Report Summary

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Food Industry Mergers and Acquisitions Lead to Higher Labor Productivity

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Mergers and acquisitions in the U.S. food industry have provoked controversy for many years. Critics are concerned that mergers, by reducing the numbers of firms and increasing industry concentration, make it easier for firms to increase output prices and lower wages and input prices. Others argue that M&As increase efficiencies and boost productivity by allowing companies to lower costs and provide consumers with goods at lower prices.

What Is the Issue?

Until 1977, consolidation was not much of an issue for most food industries. At that time, the average four-firm-concentration ratios for eight food industries—meatpacking, meat processing, poultry slaughter and processing, cheese making, fluid milk processing, flour milling, feed processing, and oilseed crushing (soybean, cottonseed, and corn)—were about 31 percent. A wave of mergers and acquisitions led to a jump in average concentration to about 44 percent by 1992. Were these M&As efficient, and did they foster productivity in "acquired" companies?

What Did the Study Find?

Labor productivity, or output per worker, is one measure of production efficiency. Using U.S. Census Bureau plant-level data to examine processing plants in eight food industries, ERS and Census researchers found that processing plants in eight major food industries were highly productive before being acquired and they significantly improved their labor productivity afterward. The analysis suggests that mergers and acquisitions contributed to the general improvement in labor productivity, echoing an earlier ERS study.

These results for M&As and labor productivity are not entirely consistent with other previous research. Other researchers found that large acquired plants had below-average productivity prior to their acquisitions, but the ERS and Census researchers found that both large and small plants had above-average labor productivity before their mergers. Productivity growth results also differed somewhat.

These differences and substantial variation in estimated effects across the eight industries suggest that conduct and performance of individual industries differ from that of a broadly defined sector such as the entire food industry. Studies at the individual-industry level are necessary to evaluate the impact of certain types of economic activity, such as M&As.

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ERS is the main source of research and analysis from the U.S. Department of Agriculture, providing timely information on economic and policy issues related to agriculture, food, the environment, and rural America.

How Was the Study Conducted?

By using plant-level Census of Manufacturers data from the U.S. Census Bureau, researchers were able to obtain a detailed picture of plant outputs, inputs of labor and materials, costs of production, and plant assets. These data also allow researchers to trace plants across time and ownership status. The research concentrated on two merger waves, 1977-82 and 1982-87, which encompass particularly active times for M&As in an era of structural change that persists to this day. In the productivity performance analyses, the labor productivity of plants acquired over 1977-82 and 1982-87 were compared with control groups of plants that were not acquired. For productivity growth, researchers evaluated plants' productivity growth over 10-year periods (1977-87 and 1982-92).