

# 2021 ECONOMIC IMPACT STUDY of the FOODSERVICE



# PACKAGING INDUSTRY



Frequently Asked Questions

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## What Do We Mean by Economic Output? FAQs

### Where do the Data Come From?

The data gathered for this model came from the Foodservice Packaging Institute, Data Axle, and federal and state government sources. Data Axle is the leading provider of business and consumer data, which includes addresses, business titles and job totals. Since the Data Axle data are adjusted on a continual basis, staff from John Dunham & Associates (JDA) scanned the data for discrepancies, verifying individual facilities using Google Maps, web searches, and any available online government documents. Each office or facility has its own employee count; therefore, a company with a separate manufacturing plant, a warehouse and an office location would have three facilities, each with separate employment counts. For facilities for which there were no employment data, median job figures are used. This is how we arrive at our direct employment totals.

### What Model is Used?

These employment totals are entered into the IMPLAN Model. The IMPLAN model is based on the input-output accounts published by the US Department of Commerce, Bureau of Economic Analysis and is one of the standard models used to calculate economic impact figures. Input-Output tables representing the economy in 2018 were used in this analysis. The IMPLAN model is designed to run based on the input of specific direct economic factors, like direct jobs, and generates estimates of direct wages and outputs. napkins, and other related products included in the definition of the foodservice packaging industry.

### **Explanation of Economic Impact Terms**

### **Direct Impact Categories**

The direct impacts of this study were divided up into the categories of the foodservice packaging industry. The study defines the foodservice packaging industry as those firms involved in the production of pulp/paper, plastic, aluminum, multi-material, and wood foodservice packaging products. Additionally, warehouse facilities are taken into account.

### What is Meant by the Term Direct Impact?

Direct impacts are those jobs, wages, or economic output solely attributable to the industry defined for the study; in this case, manufacturers of a wide range of foodservice packaging products such as food containers, boxes, trays, dishes, plates, cups, wraps, bags, cutlery, drinking straws, lids, and napkins. Egg cartons, bottle caps, bottles, meat trays, etc. are not included in the analysis. These are the jobs that one can count. If one were to go to a manufacturing facility and count the number of people working there, that would be the direct employment (although there may be many more people working than there are jobs since many people work only part time). JDA uses direct employment at manufacturing facilities, offices, and other sites that are defined to be part of the industry to calculate all of the other effects presented in the study. For example, if a company facility employs 500 people, JDA then uses the IMPLAN model to calculate how much in wages and output those 500 employees create.

### What is Meant by the Term Indirect?

Indirect is the term used in economic impact studies to define those effects that result from firms in the defined (or direct) industry purchasing goods and services from other industries. JDA defines these as supplier impacts in its models. For example, when a foodservice packaging manufacturer pays rent on its warehouse to their landlord, or when they hire a trucking company to deliver products, they are creating indirect effects in the real estate sector or trucking sector of the economy.

In the case of wholesalers, retailers and others that handle products through a supply chain, the value of the goods moving through a warehouse, or a store are not counted as indirect impacts; only those goods and services used to provide the wholesale or retail service are included. When a wholesaler pays an electric bill for its facility, or a retailer buys paper for its store, an indirect impact is created. Whereas, when a wholesaler buys foodservice packaging from a manufacturer, this transaction is not considered in the supplier impact.

### What is Meant by the Term Induced?

Induced effects are the response by the economy that occur through re-spending of income received by payments made to employees and business owners measured in the direct and supplier parts of the economy. When people work for a location selling foodservice packaging or for firms that supply goods and services to the industry, they receive wages and other payments. This money is recirculated through their household spending inducing further local economic activity. Economists call these induced impacts the multiplier effect of an activity or industry.

Examples of induced effects are the jobs created in a diner located outside of a foodservice packaging factory or retail store where people purchase sandwiches for lunch, or at the gas station where they purchase fuel for their commute, or even in neighborhoods, where workers purchase houses, go to restaurants or visit the movie theater.

### What Specifically Do You Mean When You Say a Job?

Jobs are a measure of the annual average of monthly jobs in each industry as defined by the Quarterly Census of Employment and Wages put out by the Bureau of Labor Statistics. Jobs in our models are derived independently and do not match jobs reported by government entities in that the model defines the industry differently, as it includes proprietors and other employees not eligible for unemployment benefits, and because JDA includes more firms and facilities than are surveyed by the government. Jobs are measured in full-time equivalent units.

### What is Meant by The Term Economic Output or Economic Impact?

JDA uses output in its models as a general measurement of economic impact because it is the broadest and most comparative measure. Output can basically be considered similar to final sales; however, it differs due to the fact that it also includes adjustments in inventories and does not include certain taxes. In general, output represents the value of industry production for the model year calculated in terms of producer prices. Output differs depending on the industry being measured. In the case of the foodservice packaging industry, output is similar to gross sales for foodservice packaging products manufacturers. For retailers and wholesalers, output does not represent sales, but rather is similar to the accounting measure of gross margin. Simply put, output in the case of retailing can be seen as total sales revenue minus the cost of goods sold. This is similar to the wholesale or retail markup on a product.

### What is Meant by the Term Taxes Paid?

This economic impact study measures the foodservice packaging industry's total tax contributions. The model includes information on income received by the federal, state and local governments, and produces estimates for the following taxes at the federal level: corporate income; payroll, personal income, estate and gift, and excise taxes, customs duties; and fines, fees, etc. State and local tax revenues include estimates of: Corporate profits, property, sales, severance, estate and gift and personal income taxes; licenses and fees and certain payroll taxes.