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PRODUCER PRICE INDEXES – AUGUST 2023

The Producer Price Index for final demand increased 0.7 percent in August, seasonally adjusted, after rising 0.4 percent in July, the U.S. Bureau of Labor Statistics reported today. (See table A.) The August advance is the largest increase in final demand prices since moving up 0.9 percent in June 2022. On an unadjusted basis, the index for final demand rose 1.6 percent for the 12 months ended in August.

In August, 80 percent of the rise in final demand prices is attributable to a 2.0-percent jump in the index for final demand goods. Prices for final demand services advanced 0.2 percent.

The index for final demand less foods, energy, and trade services increased 0.3 percent in August, the same as in July. For the 12 months ended in August, prices for final demand less foods, energy, and trade services rose 3.0 percent, the largest advance since moving up 3.4 percent for the 12 months ended in April.

Chart 1. One-month percent changes in selected PPI final demand price indexes, seasonally adjusted

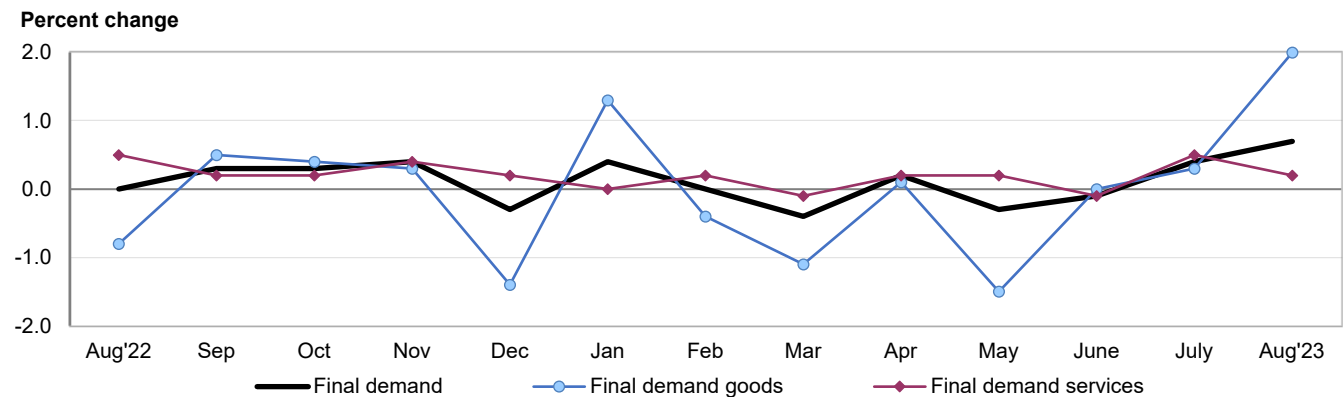
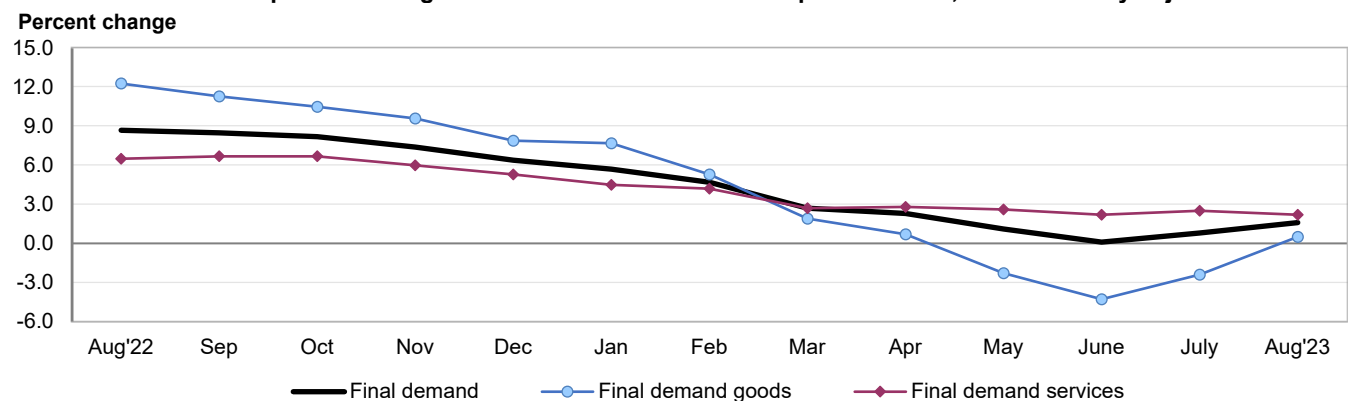


Chart 2. Twelve-month percent changes in selected PPI final demand price indexes, not seasonally adjusted



Final Demand

Final demand goods: The index for final demand goods jumped 2.0 percent in August, the largest advance since increasing 2.1 percent in June 2022. The August rise is mostly attributable to prices for final demand energy, which surged 10.5 percent. The index for final demand goods less foods and energy edged up 0.1 percent. In contrast, prices for final demand foods declined 0.5 percent.

Product detail: Over 60 percent of the August rise in the index for final demand goods can be traced to prices for gasoline, which jumped 20.0 percent. The indexes for diesel fuel, jet fuel, home heating oil, beverages and beverage materials, and iron and steel scrap also moved higher. Conversely, prices for fresh and dry vegetables fell 11.5 percent. The indexes for residential electric power and for industrial chemicals also decreased. (See table 2.)

Final demand services: The index for final demand services rose 0.2 percent in August after increasing 0.5 percent in July. Leading the advance in August, prices for final demand services less trade, transportation, and warehousing moved up 0.3 percent. The index for final demand transportation and warehousing services jumped 1.4 percent. In contrast, margins for final demand trade services declined 0.3 percent. (Trade indexes measure changes in margins received by wholesalers and retailers.)

Product detail: A 1.1-percent increase in the index for residential real estate services (partial) was a major factor in the August rise in prices for final demand services. The indexes for truck transportation of freight; machinery, equipment, parts, and supplies wholesaling; automotive fuels and lubricants retailing; services related to securities brokerage and dealing (partial); and residential real estate loans (partial) also moved higher. Conversely, margins for chemicals and allied products wholesaling fell 4.7 percent. The indexes for food wholesaling and for deposit services (partial) also decreased.

Table A. Monthly and 12-month percent changes in selected final demand price indexes, seasonally adjusted

| Month | Total final demand | Final demand less foods, energy, and trade | Final demand goods | | | | Final demand services | | | | Change in final demand from 12 months ago (unadj.) | Change in final demand less foods, energy, and trade from 12 mo. ago (unadj.) |
|----------------------|--------------------|--|--------------------|-------|--------|-----------------------|-----------------------|-------|--------------------------------|-------|--|---|
| | | | Total | Foods | Energy | Less foods and energy | Total | Trade | Transportation and warehousing | Other | | |
| 2022 | | | | | | | | | | | | |
| Aug... | 0.0 | 0.2 | -0.8 | -0.2 | -4.4 | 0.2 | 0.5 | 1.0 | -1.1 | 0.4 | 8.7 | 5.6 |
| Sept... | 0.3 | 0.3 | 0.5 | 1.5 | 1.0 | 0.0 | 0.2 | -0.3 | -0.2 | 0.5 | 8.5 | 5.6 |
| Oct.... | 0.3 | 0.2 | 0.4 | 0.7 | 1.5 | 0.0 | 0.2 | 0.2 | 0.0 | 0.2 | 8.2 | 5.5 |
| Nov.... | 0.4 | 0.4 | 0.3 | 3.3 | -2.3 | 0.3 | 0.4 | 0.5 | -0.4 | 0.5 | 7.4 | 4.9 |
| Dec.... | -0.3 | 0.2 | -1.4 | -0.9 | -6.3 | 0.1 | 0.2 | 0.3 | 0.0 | 0.2 | 6.4 | 4.7 |
| 2023 | | | | | | | | | | | | |
| Jan. . . | 0.4 | 0.5 | 1.3 | -1.3 | 5.4 | 0.6 | 0.0 | -0.8 | -0.5 | 0.5 | 5.7 | 4.4 |
| Feb.... | 0.0 | 0.3 | -0.4 | -2.3 | -0.8 | 0.3 | 0.2 | -0.2 | -0.8 | 0.4 | 4.7 | 4.5 |
| Mar.... | -0.4 | 0.1 | -1.1 | 0.2 | -6.1 | 0.2 | -0.1 | -0.6 | -0.7 | 0.2 | 2.7 | 3.7 |
| Apr. ¹ .. | 0.2 | 0.2 | 0.1 | -0.4 | 0.7 | 0.1 | 0.2 | 0.4 | -2.5 | 0.5 | 2.3 | 3.4 |
| May ¹ .. | -0.3 | 0.0 | -1.5 | -1.0 | -6.9 | 0.1 | 0.2 | 0.7 | -0.5 | 0.0 | 1.1 | 2.9 |
| June ¹ .. | -0.1 | 0.2 | 0.0 | -0.2 | 0.7 | -0.2 | -0.1 | -1.1 | 0.0 | 0.3 | 0.1 | 2.8 |
| July ¹ .. | 0.4 | 0.3 | 0.3 | 0.4 | 0.8 | 0.0 | 0.5 | 0.5 | 0.2 | 0.6 | 0.8 | 2.9 |
| Aug.... | 0.7 | 0.3 | 2.0 | -0.5 | 10.5 | 0.1 | 0.2 | -0.3 | 1.4 | 0.3 | 1.6 | 3.0 |

¹ Some of the figures shown above and elsewhere in this release may differ from those previously reported because data for April 2023 through July 2023 have been revised to reflect the availability of late reports and corrections by respondents.

Intermediate Demand by Commodity Type

Within intermediate demand in August, prices for processed goods advanced 2.1 percent, the index for unprocessed goods rose 1.3 percent, and prices for services edged up 0.1 percent. (See tables B and C.)

Processed goods for intermediate demand: The index for processed goods for intermediate demand increased 2.1 percent in August, the largest advance since moving up 2.2 percent in May 2022. Leading the August rise, prices for processed energy goods jumped 12.1 percent. The index for processed foods and feeds increased 0.7 percent. In contrast, prices for processed materials less foods and energy declined 0.3 percent. For the 12 months ended in August, the index for processed goods for intermediate demand fell 4.3 percent.

Product detail: Over 70 percent of the August rise in prices for processed goods for intermediate demand can be traced to a 41.1-percent jump in the index for diesel fuel. Prices for gasoline; jet fuel; natural, processed, and imitation cheese; fats and oils; and for particleboard and fiberboard also advanced. Conversely, the index for industrial chemicals decreased 1.2 percent. Prices for thermoplastic resins and materials and for beef and veal also declined.

Unprocessed goods for intermediate demand: The index for unprocessed goods for intermediate demand moved up 1.3 percent in August after rising 2.4 percent in July. Leading the August increase, prices for unprocessed energy materials advanced 5.4 percent. The index for unprocessed nonfood materials less energy rose 0.8 percent. In contrast, prices for unprocessed foodstuffs and feedstuffs fell 2.3 percent. For the 12 months ended in August, the index for unprocessed goods for intermediate demand dropped 26.9 percent.

Product detail: A major factor in the advance in prices for unprocessed goods for intermediate demand was the index for crude petroleum, which rose 8.9 percent. Prices for iron and steel scrap, slaughter steers and heifers, slaughter chickens, slaughter sows, and raw cotton also increased. Conversely, the index for hay, hayseeds, and oilseeds fell 6.3 percent. Prices for natural gas and for corn also declined.

Table B. Monthly and 12-month percent changes in selected intermediate demand price indexes for goods by commodity type, seasonally adjusted

| Month | Processed goods for intermediate demand | | | | | Unprocessed goods for intermediate demand | | | | |
|------------------------|---|-----------------|--------------|-----------------------|---|---|-----------------------------|------------------|-------------------------------|---|
| | Total | Foods and feeds | Energy goods | Less foods and energy | Total, change from 12 months ago (unadj.) | Total | Food-stuffs and feed-stuffs | Energy materials | Nonfood materials less energy | Total, change from 12 months ago (unadj.) |
| 2022 | | | | | | | | | | |
| Aug..... | -1.2 | -0.2 | -3.7 | -0.6 | 14.3 | 4.8 | -0.9 | 10.9 | 0.5 | 36.9 |
| Sept..... | -0.1 | -0.1 | 2.0 | -0.8 | 12.9 | -3.1 | 1.3 | -6.6 | -0.6 | 29.2 |
| Oct..... | -0.2 | -0.2 | 1.5 | -0.8 | 10.1 | -9.7 | -0.7 | -18.1 | -4.1 | 9.3 |
| Nov..... | -0.5 | 0.8 | -1.9 | -0.2 | 7.6 | -3.1 | 0.0 | -6.7 | -0.7 | 3.5 |
| Dec..... | -2.5 | -0.6 | -9.8 | -0.4 | 4.8 | 1.5 | -0.2 | 5.2 | -1.7 | 10.7 |
| 2023 | | | | | | | | | | |
| Jan..... | 1.1 | 0.2 | 4.9 | 0.1 | 3.9 | -4.7 | -5.8 | -7.0 | 2.1 | 2.8 |
| Feb..... | -0.4 | -2.1 | -1.6 | 0.2 | 2.1 | -4.9 | -1.0 | -10.9 | 0.3 | -10.4 |
| Mar..... | -1.0 | -0.2 | -3.9 | -0.2 | -1.0 | -4.7 | -0.7 | -11.1 | -0.9 | -16.8 |
| Apr. ¹ | -0.5 | -1.1 | -2.9 | 0.2 | -3.4 | 1.1 | -1.5 | 3.7 | 1.8 | -20.3 |
| May ¹ | -1.5 | -1.9 | -7.0 | 0.0 | -7.1 | -5.3 | -4.6 | -8.0 | -2.4 | -28.3 |
| June ¹ | -0.5 | -1.1 | -0.6 | -0.4 | -9.3 | -1.0 | 1.0 | -2.7 | -1.9 | -32.2 |
| July ¹ | -0.3 | 1.3 | -0.3 | -0.6 | -7.6 | 2.4 | -0.8 | 9.9 | -2.9 | -24.1 |
| Aug..... | 2.1 | 0.7 | 12.1 | -0.3 | -4.3 | 1.3 | -2.3 | 5.4 | 0.8 | -26.9 |

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Services for intermediate demand: The index for services for intermediate demand edged up 0.1 percent in August after rising 0.5 percent in July. The August advance is attributable to a 0.3-percent increase in prices for services less trade, transportation, and warehousing for intermediate demand. In contrast, the indexes for trade services for intermediate demand and for transportation and warehousing services for intermediate demand declined 0.3 percent and 0.2 percent, respectively. For the 12 months ended in August, prices for services for intermediate demand moved up 4.2 percent.

Product detail: Leading the August increase in the index for services for intermediate demand, prices for nonresidential real estate services advanced 2.9 percent. The indexes for transportation of freight and mail; services related to securities brokerage and dealing (partial); machinery and equipment parts and supplies wholesaling; and hardware, building materials, and supplies retailing also rose. Conversely, margins for chemicals and allied products wholesaling fell 4.7 percent. The indexes for arrangement of freight and cargo transportation, television advertising time sales, and business loans (partial) also declined.

Table C. Monthly and 12-month percent changes in selected intermediate demand price indexes for services by commodity type, seasonally adjusted

| Month | Services for intermediate demand | | | | Total, change from 12 months ago (unadj.) |
|------------------------|----------------------------------|-------|--------------------------------|-------|---|
| | Total | Trade | Transportation and warehousing | Other | |
| 2022 | | | | | |
| Aug..... | 0.6 | -0.9 | -0.3 | 1.3 | 6.0 |
| Sept..... | 0.5 | 0.1 | -0.4 | 0.8 | 6.2 |
| Oct..... | 0.4 | 0.0 | 0.6 | 0.5 | 6.7 |
| Nov..... | 0.8 | 0.9 | -1.3 | 1.2 | 6.9 |
| Dec..... | 0.0 | -1.3 | 0.0 | 0.4 | 6.0 |
| 2023 | | | | | |
| Jan..... | 1.0 | 0.8 | 0.5 | 1.1 | 6.3 |
| Feb..... | 0.3 | -0.7 | 0.0 | 0.7 | 6.2 |
| Mar..... | -0.3 | 0.9 | -1.0 | -0.5 | 4.5 |
| Apr. ¹ | 0.7 | 0.8 | -1.1 | 1.0 | 4.4 |
| May ¹ | 0.1 | -0.4 | -0.4 | 0.4 | 3.9 |
| June ¹ | 0.0 | -0.8 | 0.0 | 0.2 | 4.2 |
| July ¹ | 0.5 | 1.4 | 0.6 | 0.2 | 4.5 |
| Aug..... | 0.1 | -0.3 | -0.2 | 0.3 | 4.2 |

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Intermediate Demand by Production Flow

Stage 4 intermediate demand: Prices for stage 4 intermediate demand rose 0.6 percent in August, the largest advance since moving up 1.0 percent in January. In August, the index for total goods inputs to stage 4 intermediate demand increased 0.6 percent, and prices for total services inputs climbed 0.5 percent. (See table D.) Advances in the indexes for diesel fuel, nonresidential real estate services, gasoline, machinery and equipment parts and supplies wholesaling, services related to securities brokerage and dealing (partial), and transportation of freight and mail outweighed declines in the indexes for chemicals and allied products wholesaling; business loans (partial); and hay, hayseeds, and oilseeds. For the 12 months ended in August, prices for stage 4 intermediate demand increased 2.3 percent, the largest 12-month rise since moving up 2.7 percent in April.

Stage 3 intermediate demand: The index for stage 3 intermediate demand increased 0.9 percent in August, the largest advance since rising 1.7 percent in May 2022. In August, prices for total goods inputs to stage 3 intermediate demand jumped 2.5 percent. Conversely, the index for total services inputs fell 0.5 percent. Advancing prices for diesel fuel, jet fuel, gasoline, transportation of freight and mail, nonresidential real estate services, and slaughter steers and heifers outweighed decreases in the indexes for television advertising time sales, arrangement of freight and cargo transportation, and raw milk. For the 12 months ended in August, prices for stage 3 intermediate demand moved down 4.5 percent.

Stage 2 intermediate demand: The index for stage 2 intermediate demand rose 0.7 percent in August after advancing 1.7 percent in July. In August, prices for total goods inputs to stage 2 intermediate demand increased 2.2 percent. In contrast, the index for total services inputs fell 0.4 percent. Advances in the indexes for crude petroleum, iron and steel scrap, diesel fuel, liquefied petroleum gas, automotive fuels and lubricants retailing, and machinery and equipment parts and supplies wholesaling outweighed decreasing prices for arrangement of freight and cargo transportation, natural gas, and business loans (partial). For the 12 months ended in August, the index for stage 2 intermediate demand dropped 10.1 percent.

Stage 1 intermediate demand: The index for stage 1 intermediate demand increased 1.6 percent in August, the largest advance since moving up 1.6 percent in April 2022. In August, prices for total goods inputs to stage 1 intermediate demand rose 2.5 percent, and prices for total services inputs climbed 0.6 percent. Increases in the indexes for diesel fuel; nonresidential real estate services; gasoline; services related to securities brokerage and dealing (partial); transportation of freight and mail; and hardware, building materials, and supplies retailing outweighed decreases in the indexes for chemicals and allied products wholesaling; metals, minerals, and ores wholesaling; and industrial chemicals. For the 12 months ended in August, prices for stage 1 intermediate demand declined 1.0 percent.

Table D. Monthly percent changes in selected intermediate demand price indexes by production flow, seasonally adjusted

| Month | Stage 4 intermediate demand | | | Stage 3 intermediate demand | | | Stage 2 intermediate demand | | | Stage 1 intermediate demand | | |
|-------------------------|-----------------------------|--------------|-----------------|-----------------------------|--------------|-----------------|-----------------------------|--------------|-----------------|-----------------------------|--------------|-----------------|
| | Total | Goods inputs | Services inputs | Total | Goods inputs | Services inputs | Total | Goods inputs | Services inputs | Total | Goods inputs | Services inputs |
| 2022 | | | | | | | | | | | | |
| Aug..... | 0.3 | 0.0 | 0.6 | -1.3 | -2.6 | 0.1 | 3.0 | 4.8 | 1.2 | -0.4 | -1.2 | 0.5 |
| Sept..... | 0.4 | 0.1 | 0.7 | 0.0 | -0.1 | 0.1 | -1.9 | -4.0 | 0.3 | 0.3 | 0.3 | 0.2 |
| Oct..... | 0.1 | -0.1 | 0.2 | -0.1 | -0.6 | 0.5 | -4.7 | -9.8 | 0.8 | 0.1 | -0.2 | 0.4 |
| Nov..... | 0.4 | -0.2 | 1.0 | -0.4 | -1.1 | 0.3 | -1.0 | -2.9 | 0.8 | 0.1 | -0.6 | 0.9 |
| Dec..... | -0.4 | -0.7 | 0.0 | -2.0 | -3.8 | 0.0 | 1.0 | 1.5 | 0.6 | -1.8 | -3.0 | -0.4 |
| 2023 | | | | | | | | | | | | |
| Jan..... | 1.0 | 0.8 | 1.2 | 0.2 | -0.5 | 0.9 | -0.9 | -2.9 | 0.9 | 0.7 | 0.8 | 0.7 |
| Feb..... | 0.0 | -0.1 | 0.2 | -0.2 | -0.6 | 0.1 | -1.4 | -4.6 | 1.2 | -0.3 | -0.4 | -0.2 |
| Mar..... | -0.3 | -0.5 | -0.1 | -0.7 | -1.1 | -0.4 | -2.5 | -4.9 | -0.7 | -0.4 | -1.0 | 0.2 |
| Apr. ¹ | 0.3 | -0.2 | 0.7 | -0.2 | -1.2 | 0.7 | 0.9 | 1.2 | 0.7 | -0.1 | -0.7 | 0.5 |
| May ¹ | -0.2 | -0.5 | 0.2 | -1.4 | -2.9 | -0.1 | -1.4 | -4.0 | 0.6 | -1.0 | -1.7 | -0.2 |
| June ¹ | -0.1 | 0.0 | -0.1 | -0.2 | -0.2 | -0.2 | -1.0 | -2.2 | -0.2 | -0.2 | -0.7 | 0.2 |
| July ¹ | 0.4 | -0.1 | 0.8 | -0.5 | -1.5 | 0.3 | 1.7 | 4.0 | 0.1 | 0.1 | -0.8 | 0.8 |
| Aug..... | 0.6 | 0.6 | 0.5 | 0.9 | 2.5 | -0.5 | 0.7 | 2.2 | -0.4 | 1.6 | 2.5 | 0.6 |

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The Producer Price Index for September 2023 is scheduled to be released on Wednesday, October 11, 2023, at 8:30 a.m. (ET).

Technical Note

Brief Explanation of Producer Price Indexes

The Producer Price Index (PPI) of the Bureau of Labor Statistics (BLS) is a family of indexes that measures the average change over time in prices received (price changes) by producers for domestically produced goods, services, and construction. PPIs measure price change from the perspective of the seller. This contrasts with other measures, such as the Consumer Price Index (CPI). CPIs measure price change from the purchaser's perspective.

More than 10,000 PPIs for individual products and groups of products are released each month. PPIs are available for the products of virtually every industry in the mining and manufacturing sectors. Over time, new PPIs have been introduced for products of industries in the services and construction sectors of the U.S. economy. As of January 2023, the PPI covered 69 percent of services as measured by 2017 Census revenue, and 17 percent of construction.

More than 64,000 price quotations per month are organized into three sets of PPIs: (1) Final demand-Intermediate demand (FD-ID) indexes, (2) commodity indexes, and (3) indexes for the net output of industries and their products. The FD-ID structure organizes products by class of buyer and degree of fabrication as well as by stage of production. The commodity structure organizes products by similarity of end use or product type. The entire output of various industries is sampled to derive price indexes for the net output of industries and their products.

Final Demand–Intermediate Demand Indexes

The PPI FD-ID structure measures price change for goods, services, and construction sold to final demand and to intermediate demand. The FD-ID system replaced the PPI stage-of-processing (SOP) system as PPI's primary aggregation model with the release of data for January 2014. The FD-ID model expands coverage beyond that of the SOP system through the addition of services, construction, exports, and government purchases.

Compared with finished goods under the SOP system, the PPI for final demand goods includes nearly a 50 percent expansion of coverage. This increase can be traced to the addition of government purchases and exports. For overall final demand, expansion to include final demand services represents an even larger increase in coverage. In December 2022, final demand goods were about 30.7 percent of overall final demand, final demand services were roughly 66.6 percent, and final demand construction was about 2.7 percent of final demand. Within intermediate demand, coverage of services for intermediate demand resulted in about a 45 percent increase in coverage of the intermediate demand portion of the economy.

FD-ID indexes are constructed from commodity-based producer output price indexes. Commodities are allocated to aggregate indexes primarily based on the type of buyer. The main source of data used to determine the type of buyer is the "Use of commodities by industries, before redefinition," table

from the Benchmark Input-Output Accounts of the U.S. In many cases, the same commodity is purchased by different types of buyers. As a result, commodities are often included in several FD-ID indexes. For example, regular gasoline is purchased for personal consumption, export, government use, and business use. The PPI program publishes only one commodity index for regular gasoline (wpu057104), reflecting sales to all types of buyers, and this index is used in all aggregations regardless of whether the gasoline is sold for personal consumption, as an export, to government, or to businesses. Proportions based on BEA "Use of Commodities" data are used to allocate the correct portion of the total weight of gasoline to each use category. In cases when buyer type is an important price determining characteristic, indexes are created based on specific buyer type. For example, within the PPI category for loan services, separate indexes for consumer loans and business loans were constructed. For more information relating to the FD-ID structure, see "A new, experimental system of indexes from the PPI program" in the February 2011 *Monthly Labor Review*.

Final Demand: The final demand portion of the FD-ID structure measures price change for commodities sold for personal consumption, capital investment, government, and export. The system is composed of six main price indexes: final demand goods; final demand trade services; final demand transportation and warehousing services; final demand services less trade, transportation, and warehousing; final demand construction; and overall final demand.

The final demand goods index measures price change for both unprocessed and processed goods sold to final demand. Fresh fruits sold to consumers and computers sold for capital investment are examples of transactions included in the final demand goods price index. The final demand trade services index measures price change for the retailing and wholesaling of merchandise sold to final demand, generally without transformation. (Trade indexes measure changes in margins received by wholesalers and retailers.) The final demand transportation and warehousing services index tracks price change for transportation of passengers, as well as, transportation of cargo sold to final demand, and also includes prices for warehousing and storage of goods sold to final demand. The final demand services less trade, transportation, and warehousing index measures price change for all services other than trade and transportation sold to final demand. Publishing, banking, lodging, and health care are examples of these services. The final demand construction index tracks price change for new construction, as well as maintenance and repair construction sold to final demand. Construction of office buildings is an example of a commodity that would be included in the final demand construction index. Lastly, the overall final demand index tracks price change for all types of commodities sold to final demand by combining the five final demand component indexes described above.

Intermediate Demand: The intermediate demand portion of the FD-ID system tracks price change for goods, services, and construction products sold to businesses as inputs to

production, excluding capital investment. The system includes two parallel treatments of intermediate demand. The first treatment organizes intermediate demand commodities by type. The second organizes intermediate demand commodities into production stages, with the explicit goal of developing a forward-flow model of production and price change.

The intermediate demand by commodity type portion of the system organizes commodities by similarity of product. The system is composed of six main price indexes: unprocessed goods for intermediate demand; processed goods for intermediate demand; intermediate demand trade services; intermediate demand transportation and warehousing services; intermediate demand services less trade, transportation, and warehousing; and intermediate demand construction.

The unprocessed goods for intermediate demand price index measures price change for goods sold to businesses as inputs to production that have undergone no fabrication. Crude petroleum sold to refineries is an example of an unprocessed good sold to intermediate demand. The processed goods for intermediate demand index tracks price change for fabricated goods sold as business inputs. Examples include car parts sold to car manufacturers and gasoline sold to trucking companies. The index for trade services for intermediate demand measures price change for the services of retailing and wholesaling goods purchased by businesses as inputs to production. The intermediate demand transportation and warehousing services index measures price change for business travel, as well as, transportation and warehousing of cargo sold to intermediate demand. The intermediate demand services less trade, transportation, and warehousing index measures price change for services other than trade, transportation, and warehousing sold as inputs to production. Legal and accounting services purchased by businesses are examples of intermediate demand services excluding trade, transportation, and warehousing. Finally, the construction for intermediate demand index measures price change for construction purchased by firms as inputs to production. The index for construction for intermediate demand tracks price change for maintenance and repair construction purchased by firms.

The production flow treatment of intermediate demand is a stage-based system of price indexes. These indexes can be used to study price transmission across stages of production and final demand. This system is constructed in a manner that maximizes forward flow of production between stages, while minimizing back-flow of production. The production flow treatment contains four main indexes: intermediate demand stage 1, intermediate demand stage 2, intermediate demand stage 3, and intermediate demand stage 4.

Indexes for the four stages were developed by first assigning each industry in the economy to one of four stages of production, where industries assigned to the fourth stage primarily produce output consumed as final demand, industries in the third stage primarily produce output consumed by stage 4 industries, industries assigned to the second stage primarily produce output consumed by stage 3 industries, and industries assigned to the first stage produce output primarily consumed by stage 2 industries. The four indexes then track prices for the net inputs consumed by industries in each of the four stages of production. The stage 4

intermediate demand index, for example, tracks price change for inputs consumed, but not produced, by industries included in the fourth stage of production. Hence, the index tracks price change in inputs to industries that primarily produce final demand commodities (stage 4 producers primarily produce commodities sold to final demand).

Examples of heavily weighted goods-producing industries in stage 4 include the manufacture of light trucks and utility vehicles, automobiles, and pharmaceuticals. Retail trade, food service and drinking places, and hospitals are examples of heavily weighted service industries included in stage 4. Stage 4 also includes all new construction industries. Examples of goods consumed by stage 4 industries include motor vehicle parts, commercial electric power, plastic construction products, biological products, and beef and veal. Engineering services, machinery and equipment wholesaling, long distance motor carrying, and legal services constitute examples of services consumed by stage 4 industries.

Examples of highly weighted goods-producing industries included in stage 3 are motor vehicle parts manufacturing, animal (except poultry) slaughtering and processing, and semiconductor manufacturing. Services industries classified in stage 3 include wholesale trade; insurance carriers; architecture, engineering, and related services; and hotels and motels. Examples of goods consumed by stage 3 industries include slaughter steers and heifers, industrial electric power, and hot rolled steel bars, plates, and structural shapes. Services commonly consumed by stage 3 industries include commissions from sales of property and casualty insurance, business loans, temporary help services, and administrative and general management consulting services.

Petroleum refineries; electricity generation, transmission, and distribution; natural gas distribution; cattle ranching and farming; and plastic materials and resin manufacturing are among the goods-based industries assigned to stage 2. Services industries that are heavily weighted in stage 2 include management of companies and enterprises; non-depository credit intermediation; insurance agencies and brokerages; and services to buildings and dwellings. Goods commonly purchased by stage 2 industries include crude oil, natural gas, formula feeds, and primary basic organic chemicals. Services that are heavily weighted in the intermediate demand stage 2 index are legal services, business loans, and cellular phone and other wireless telecommunication.

Goods producing industries in stage 1 include oil and gas extraction, paper mills, and grain farming. Real estate, legal services, and advertising services are examples of highly weighted services industries included in stage 1. Examples of goods consumed by stage 1 industries are commercial and industrial electric power and gasoline. Services commonly consumed by stage 1 industries include solid waste collection, chemicals and allied products wholesaling, and guestroom or unit rental. It should be noted that all inputs purchased by stage 1 industries are by definition produced either within stage 1 or by latter stages of processing, leaving stage 1 less useful for price transmission analysis. For additional information on industry stage assignments, see www.bls.gov/ppi/fd-id/ppi-intermediate-demand-by-production-flow-industry-stage-assignments.htm.

Comparing the PPI with CPI

Although some data users utilize the PPI as a potential indicator of the Consumer Price Index (CPI), there are many reasons why the PPI and the CPI may diverge. The scope of the personal consumption portion of the PPI includes all marketable output sold by domestic producers for households. The scope of the CPI includes goods and services provided by business or government, where explicit user charges are paid by consumers. For example, the most heavily weighted item in the CPI, owners' equivalent rent, is excluded from the PPI. The scope of the CPI includes imports. The PPI excludes imports. The CPI only includes components of personal consumption directly paid for by the consumers, while the PPI includes components of personal consumption that may not be paid for by consumers. For example, the PPI includes medical services paid for by third parties. In contrast to CPI, PPI does not completely cover services. PPIs exclude taxes, since they do not represent producer revenue. Conversely, sales and other taxes paid by consumers are part of household expenditure and are included in the CPI. Additional technical differences between PPI and CPI also exist. For more information see "Comparing new final demand producer price indexes with other Government price indexes," *Monthly Labor Review*, January 2014, at www.bls.gov/opub/mlr/.

Commodity Indexes

The commodity classification of the PPI organizes goods, services, and construction by similarity of product or end use, disregarding industry of origin. With the release of data for July 2009, PPI expanded its commodity structure to include indexes for services and construction products. Prior to this date, the PPI commodity structure only included products from goods producing sectors. Table 9 of the *PPI Detailed Report* includes data for commodity indexes, organized in a hierarchal structure, including major groupings, subgroups, product classes, sub-product classes, and individual items.

Industry Net-Output Price Indexes

PPIs for the net output of industries and their products are grouped according to the North American Industry Classification System (NAICS). Prior to the release of January 2004, industry-based PPIs were published according to the Standard Industrial Classification (SIC) system. Industry price indexes are compatible with other economic time series organized by industry, such as data on employment, wages, and productivity. Table 11 of the *PPI Detailed Report* includes data for NAICS industries and industry groups (3-, 4-, 5-, and 6-digit codes), Census product classes (7- and 8-digit codes), products (9-digit codes), more detailed sub-products (11-digit codes), and, for some industries, indexes for other sources of revenue.

Indexes may represent one of three kinds of product categories. Every industry has primary product indexes that show changes in prices received by establishments classified in the industry for products made primarily, but not necessarily exclusively, by that industry. The industry classification of an establishment is determined by which products make up a plurality of its total shipment value. In

addition, most industries have secondary product indexes that show changes in prices received by establishments for products chiefly made in some other industry. Some industries have miscellaneous receipts indexes that track price changes for other sources of revenue received by establishments within the industry that are not derived from sales of their products; for example, resales of purchased materials, or revenues from parking lots owned by a manufacturing plant.

Data Collection

PPIs are constructed using selling prices reported by establishments of all sizes, selected by probability sampling, with the probability of selection proportionate to size. Individual items and transaction terms also are chosen by probability proportionate to size. BLS strongly encourages cooperating companies to supply actual transaction prices at the time of shipment to minimize the use of list prices. Prices submitted by survey respondents are effective on the Tuesday of the week containing the 13th day of the month. The survey is conducted online via the BLS Internet Data Collection Facility (IDCF). Data provided by survey respondents are supplemented with data from other sources for some areas.

Price data are provided by survey respondents on a voluntary and confidential basis; only sworn BLS employees are allowed access to individual company price reports. BLS publishes price indexes, not actual prices. All PPIs are subject to monthly revisions up to 4 months after original publication to reflect the availability of late reports and corrections by respondents.

BLS periodically updates the PPI sample of survey respondents to better reflect current conditions when the structure, membership, technology, or product mix of an industry shifts significantly and to spread reporting burden among smaller firms. Information on these resampling efforts are noted in the *PPI News Release* and *PPI Detailed Report* in the months they occur.

As part of an ongoing effort to expand coverage to sectors of the economy other than mining and manufacturing, an increasing number of service and construction sector industries have been introduced into the PPI. The following list of industries introduced since the mid-1990s includes the month and year in which an article describing the industry's content appeared in the *PPI Detailed Report*.

Service and construction sector industries introduced into the Producer Price Index, by SIC or NAICS code at their date of introduction and the *PPI Detailed Report* issue that announces their introduction

| Title | Code | <i>PPI Detailed Report</i> Issue |
|--|------------|----------------------------------|
| | SIC | |
| Wireless telecommunications | 4812 | July 1999 |
| Telephone communications, except radio telephone | 4813 | July 1995 |
| Television broadcasting | 4833 | July 2002 |
| Grocery stores | 5411 | July 2000 |
| Meat and fish (seafood) markets | 5421 | July 2000 |
| Fruit and vegetable markets | 5431 | July 2000 |
| Candy, nut, and confectionery stores ... | 5441 | July 2000 |

| Title | Code | PPI Detailed Report Issue |
|--|--------|---------------------------|
| SIC | | |
| Retail bakeries | 5461 | July 2000 |
| Miscellaneous food stores | 5499 | July 2000 |
| New car dealers | 5511 | July 2000 |
| Gasoline service stations | 5541 | January 2002 |
| Boat dealers | 5551 | January 2002 |
| Recreational vehicle dealers | 5561 | January 2002 |
| Miscellaneous retail | 59 | January 2001 |
| Security brokers, dealers, and investment bankers | 6211 | January 2001 |
| Investment advice | 6282 | January 2003 |
| Life insurance carriers | 6311 | January 1999 |
| Property and casualty insurance | 6331 | July 1998 |
| Insurance agencies and brokerages | 6412 | January 2003 |
| Operators and lessors of nonresidential buildings | 6512 | January 1996 |
| Real estate agents and managers | 6531 | January 1996 |
| Prepackaged software | 7372 | January 1998 |
| Data processing services | 7374 | January 2002 |
| Home health care services | 8082 | January 1997 |
| Legal services | 8111 | January 1997 |
| Engineering design, analysis, and consulting services | 8711 | January 1997 |
| Architectural design, analysis, and consulting services | 8712 | January 1997 |
| Premiums for property and casualty insurance | 9331 | July 1998 |
| NAICS | | |
| New Industrial building construction | 236211 | January 2008 |
| New warehouse building construction .. | 236221 | July 2005 |
| New school construction | 236222 | July 2006 |
| New office construction | 236223 | January 2007 |
| New health care building construction... | 236224 | January 2013 |
| Concrete contractors, nonresidential building work | 23811X | July 2008 |
| Roofing contractors, nonresidential building work | 23816X | July 2008 |
| Electrical contractors, nonresidential building work | 23821X | July 2008 |
| Plumbing / HVAC contractors, nonresidential building work | 23822X | July 2008 |
| Merchant wholesalers, durable goods .. | 423 | July 2005 |
| Merchant wholesalers, nondurable goods | 424 | July 2005 |
| Electronics and appliance stores | 443 | January 2004 |
| Building material and garden equipment and supplies dealers..... | 444 | January 2004 |
| Sporting goods, hobby, book, and music stores | 451 | January 2004 |
| General merchandise stores | 452 | January 2004 |
| Miscellaneous store retailers | 453 | January 2004 |
| Pipeline transportation of natural gas.... | 486210 | June 2022 |
| Internet service providers | 518111 | July 2005 |
| Internet publishing and web search portals | 519130 | January 2010 |
| Commercial banking | 522110 | January 2005 |
| Savings institutions | 522120 | January 2005 |
| Direct health and medical insurance carriers | 524114 | July 2004 |

| Title | Code | PPI Detailed Report Issue |
|---|--------|---------------------------|
| NAICS | | |
| Construction, mining, and forestry machinery and equipment rental and leasing | 532412 | January 2005 |
| Management consulting services | 541610 | January 2007 |
| Security guards and patrol services | 561612 | July 2005 |
| Offices of dentists | 621210 | January 2011 |
| Blood and organ banks | 621991 | January 2007 |
| Amusement and theme parks | 713110 | July 2006 |
| Golf courses and country clubs | 713910 | July 2006 |
| Fitness and recreational sports centers .. | 713940 | July 2005 |
| Commercial machinery repair and maintenance..... | 811310 | July 2007 |

Weights

Weights for most commodity groupings of the PPI, as well as, weights for commodity-based aggregate indexes calculated from commodity groupings, such as FD-ID indexes, currently reflect 2017 values of shipments as reported in the *Census of Manufactures* and other sources. From January 2018 to December 2022, PPI weights were derived from 2012 shipment values. Industry indexes now are calculated under the 2022 NAICS structure utilizing 2017 value of shipment weights and 2012 net output ratios. The periodic update of the value weights used to calculate the PPI is done to more accurately reflect changes in production and marketing patterns in the economy.

Net output values of shipments are used as weights for industry indexes. Net output values refer to the value of shipments from establishments within the industry to buyers outside the industry. However, weights for commodity indexes are based on gross shipment values, including values of shipments between establishments within the same industry. As a result, broad commodity grouping indexes, such as the PPI for All Commodities (which is composed of major commodity groupings 01 through 15), are affected by the multiple counting of price change at successive stages of processing, which can lead to exaggerated or misleading signals about inflation. The intermediate demand by commodity type FD-ID indexes partially correct for this defect, but industry indexes, final demand FD-ID indexes, and intermediate demand by production flow FD-ID indexes consistently correct for this at all levels of aggregation. Therefore, industry and FD-ID indexes are more appropriate than broad commodity groupings for analysis of general price trends.

Price Index Reference Base

Effective with publication of January 1988 data, many important PPI series (including most commodity groups and individual items) were placed on a new reference base, 1982 = 100. From 1971 through 1987, the standard reference base for most PPI series was 1967 = 100. Except for rounding differences, the shift to the new reference base did not alter any previously published percent changes for affected PPI series. (See “Calculating Index Changes,” below.) The 1982

reference base is not used for commodity indexes with a base later than December 1981 or for industry net output indexes and their products. The FD-ID indexes typically have a reference base of November 2009 = 100.

For further information on the underlying concepts and methodology of the Producer Price Index, see chapter 14, “Producer Prices,” in the *BLS Handbook of Methods*. This chapter can be downloaded from the BLS Web site at www.bls.gov/opub/hom/homch14.htm.

Calculating Index Changes

Each PPI measures price changes from a reference period that equals 100.0. An increase of 5.5 percent from the reference period in the Final Demand Goods Price Index, for example, is shown as 105.5. This change also can be expressed in dollars, as follows: prices received by domestic producers of a sample of final demand goods have risen from \$100 in November 2009 to \$105.50. Likewise, a current index of 90.0 would indicate that prices received by producers of final demand goods are 10 percent lower than they were in November 2009.

Movements of price indexes from one month to another are usually expressed as percent changes, rather than as changes in index points. Index point changes are affected by the level of the index in relation to its base period, whereas percent changes are not. The following example shows the computation of index point and percent changes.

Index point change

| | |
|--------------------------------|-------|
| Final Demand Goods Price Index | 107.5 |
| Less previous index | 104.0 |
| Equals index point change | 3.5 |

Index percent change

| | |
|-------------------------------|-------------|
| Index point change | 3.5 |
| Divided by the previous index | 104.0 |
| Equals | 0.034 |
| Result multiplied by 100 | 0.034 x 100 |
| Equals percent change | 3.4 |

Seasonally Adjusted and Unadjusted Data

Because price data are used for different purposes by different groups, BLS publishes seasonally adjusted and unadjusted changes each month. Seasonally adjusted data are preferred for analyzing general price trends in the economy because these data eliminate the effect of changes that normally occur at about the same time, and in about the same magnitude, every year—such as price movements resulting from normal weather patterns, regular production and marketing cycles, model changeovers, seasonal discounts, and holidays. For these reasons, seasonally adjusted data more clearly reveal underlying trends. Unadjusted data are of primary interest to users who need information that can be related to actual dollar values of transactions. Individuals requiring this information include marketing specialists, purchasing agents, budget and cost analysts, contract specialists, and commodity traders. It is the unadjusted data

that are generally cited when escalating long-term contracts such as purchasing agreements or real estate leases. For more information, see *Price Adjustment Guide for Contracting Parties*, on the Web at: www.bls.gov/ppi/publications/price-adjustment-guide-for-contracting-parties.htm.

Seasonal adjustment is accomplished using X-13 ARIMA, a software package published by the U.S. Census Bureau. Each year, the seasonal status of most commodity indexes is reevaluated to reflect more recent price behavior. Industry net output indexes are not seasonally adjusted. For time series that exhibit seasonal pricing patterns, new seasonal factors are estimated and applied to the unadjusted data from the prior 5 years. Updated seasonally adjusted indexes replace the most recent 5 years of seasonal data.

Seasonal factors may be applied to series using either a direct or an aggregative method. Generally, commodity indexes are seasonally adjusted using direct seasonal adjustment, which produces a more complete elimination of seasonal movements than does the aggregative method. However, the direct seasonal adjustment process may not yield figures that possess additive consistency. Thus, a seasonally adjusted index for a broad category that is directly adjusted may not be logically consistent with all seasonally adjusted indexes for its components. Seasonal movements for FD-ID indexes are derived indirectly through an aggregative method that combines movements of a wide variety of subproduct class (six-digit) series.

Seasonally adjusted indexes can become problematic when previously stable and predictable price patterns abruptly change. If the new pattern persists, the seasonal adjustment method will eventually reflect it; if the pattern keeps shifting, however, seasonally adjusted data will become chronically troublesome. This problem occurs relatively infrequently for farm and food-related products, but has more often affected manufactured products such as automobiles and steel.

Since January 1988, the PPI has used Intervention Analysis Seasonal Adjustment methods to enhance the calculation of seasonal factors. With this technique, outlier values that may distort the seasonal pattern are removed from the data prior to applying the standard seasonal factor estimation procedure. For example, a possible economic cause for large price movements for petroleum-based products might have been the COVID-19 pandemic. In this case, intervention techniques allowed for better estimates of seasonally adjusted data. On the whole, very few series have required intervention. Out of over 400 seasonally adjusted commodity series, 69 were subject to intervention in 2023.

For more information relating to seasonal adjustment methods, see “PPI and CPI Seasonal Adjustment: an Update” in the July 2010 *Monthly Labor Review*, and “PPI and CPI Seasonal Adjustment During the COVID-19 Pandemic” in the May 2022 *Monthly Labor Review*.

Producer Price Index Data on the Internet

In 1995, the BLS began posting PPI series, news releases, and technical information to the internet. There were more than 13 million instances of PPI data being downloaded from the BLS website during 2022.

Retrieving PPI data from the PPI Web site

PPI data can be obtained online (www.bls.gov/ppi). On this page, under the tab labeled “Featured PPI databases” links provide the following methods of data retrieval:

- **Top Picks** is a form-based application for both Industry Data and Commodity Data that allows the user to quickly obtain PPI time series data by selecting the high-level aggregate and other commonly requested time series, including the All Commodities Index and the FD-ID indexes (for example, Final Demand). Within each list, any one—or all—of the time series shown can be selected. A user can modify the date range and output options after executing the query, using the reformat button above the data output table.
- **One-Screen Data Search and Multi-Screen Data Search** are form-based query applications for both Industry Data and Commodity Data designed for users unfamiliar with the PPI coding structure. These applications guide a user through the PPI classification by listing index titles and do not require knowledge of commodity or industry codes. Data retrieved are based on a query formulated by selecting data characteristics from lists provided. Two options are available to create customized tables, depending on a user’s browser capability. The one-screen option is a JavaScript application that uses a single screen to guide a user through the available time series data. The second option is a multiple-screen, non-Java-based application. Both methods allow a user to browse the PPI coding structure and select multiple series. Users can modify the date range and output options after executing the query using the reformat button above the data output table.
- **Series Report** is a form-based application that allows users to input multiple, formatted PPI time series identifiers (commodity or industry codes) as inputs in extracting data according to a specified set of date ranges and output options. This application provides the most efficient path for users who are familiar with the format of PPI time series identifiers. There are five alphabetic prefixes used to create unique PPI time series identifiers: WP, WD, PC, PD, and ND. Each provides the user access to a different PPI database. Adding either a “u” (not seasonally adjusted) or an “s” (seasonally adjusted) to the end of these prefixes further specifies the type of data needed.

EXAMPLES

For commodity and FD-ID indexes, series identifiers combine a “wpu” prefix (not seasonally adjusted) or a “wps” prefix (seasonally adjusted) with a commodity code.

| <u>Commodity code</u> | <u>Provides data for:</u> |
|-----------------------|---|
| wps141101 | Passenger cars, seasonally adjusted |
| wpu141101 | Passenger cars, not seasonally adjusted |
| wpufd4 | Final demand, not seasonally adjusted |
| wpsid63 | Services for intermediate demand, seasonally adjusted |

For discontinued commodity indexes, series identifiers combine a “wdu” prefix (not seasonally adjusted) or a “wds” prefix (seasonally adjusted) with a commodity code.

| <u>Commodity code</u> | <u>Provides data for:</u> |
|-----------------------|---|
| wds019 | Other farm products, seasonally adjusted |
| wdu0635 | Preparations, ethical (prescription), not seasonally adjusted |
| wdusi138011 | Stainless steel mill products, not seasonally adjusted |

Current price indexes grouped by industry according to NAICS have series identifiers that begin with the prefix “pcu.” After the prefix, there are 12 digits (the 6-digit industry code is listed twice) followed by up to 7 alphanumeric characters identifying product detail. Dashes are used as placeholders for higher-level industry group codes.

| <u>Industry-product code, current NAICS series</u> | <u>Provides data for:</u> |
|--|---|
| pcu325---325--- | Chemical manufacturing |
| pcu336110336110 | Automobile and light duty motor vehicle manufacturing |
| pcu621111621111411 | Offices of physicians, one- and two-physician practices and single-specialty group practices, general/family practice |

Discontinued industry-product codes based on SIC combine a “pdu” prefix and “#” between the fourth and fifth characters of the product code. Series identifiers for the discontinued dataset use underscores as placeholders to complete a reference to an SIC industry group code of fewer than four digits. (All PPI industry-based indexes organized by SIC were discontinued with the introduction of NAICS in 2004.)

| <u>Industry-product code, discontinued SIC series</u> | <u>Provides data for:</u> |
|---|--|
| pdu28_# | Chemicals and allied products |
| pdu331_# | Blast furnaces, steel works, and rolling and finishing mills |
| pdu3711#111 | Passenger cars |

Price indexes for discontinued series grouped by industry according to NAICS have identifiers that begin with the prefix “ndu”. After the prefix, there are 12 numeric digits (the 6-digit industry code is listed twice), and up to 7 additional alphanumeric characters that identify product detail. Dashes are used as placeholders for higher-level group codes.

*Industry-product code,
discontinued NAICS series*
ndu212231212231
ndu2122312122312
ndu212231212231214

Provides data for
Lead and zinc ore mining
Lead, zinc concentrates
Lead concentrates

- **Text Files** are best suited for users requiring access to either a large volume of time series data or other PPI-related documentation, such as seasonal factor tables and relative importance tables. The text files can be accessed at download.bls.gov/ or directly from links on the “PPI Databases” page or the PPI homepage. Data and documentation available for download include the following:

| | |
|---|--|
| Industry Data | <u>Directory:</u> /pub/time.series/pc |
| Industry Data - Discontinued (NAICS basis) | /pub/time.series/nd |
| (SIC basis) | /pub/time.series/pd |
| Commodity Data (incl. FD-ID) | /pub/time.series/wp |
| Commodity Data – Discontinued | /pub/time.series/wd |
| Special requests | /pub/special.requests/ppi |

Additional information

The PPI homepage (www.bls.gov/ppi) contains additional information regarding PPI data and methodology. The “PPI Publications” section of the homepage provides PPI news releases, both current and archived, as well as general PPI information. The “PPI Tables” section provides relative importance and seasonal factor tables. The remaining sections offer special notices and publications pertaining to PPI methodology and applications.

For questions or comments regarding PPI data classification, methodology, or data availability on the Internet, call or e-mail the Section of Index Analysis and Public Information at (202) 691-7705 or ppi-info@bls.gov. If you are deaf, hard of hearing, or have a speech disability, please dial 7-1-1 to access telecommunications relay services.

Table 1. Producer price index percentage changes and weights for Final Demand-Intermediate Demand groupings, seasonally adjusted [August 2023]

| Grouping | Commodity code | | Relative Importance Dec. 2022 ¹ | Unadjusted 12-month percent change ² Aug. 2022 to Aug. 2023 ^P | Seasonally adjusted 1-month percent change ² | | | | |
|--|----------------|-----------|--|--|---|--------------------------|--------------------------|---------------------------|---------------------------|
| | Group code | Item code | | | Mar. to Apr. | Apr. to May ^P | May to June ^P | June to July ^P | July to Aug. ^P |
| Final Demand | | | | | | | | | |
| Final demand..... | FD | 4 | 100.000 | 1.6 | 0.2 | -0.3 | -0.1 | 0.4 | 0.7 |
| Final demand goods..... | FD | 41 | 30.653 | 0.5 | 0.1 | -1.5 | 0.0 | 0.3 | 2.0 |
| Final demand foods..... | FD | 411 | 5.940 | -0.7 | -0.4 | -1.0 | -0.2 | 0.4 | -0.5 |
| Finished consumer foods ³ | FD | 4111 | 4.511 | 0.6 | -0.5 | -1.0 | 0.2 | 0.1 | -0.3 |
| Finished consumer foods, crude..... | FD | 41113 | 0.606 | -12.8 | 2.1 | -16.3 | 2.1 | -1.8 | -5.7 |
| Finished consumer foods, processed..... | FD | 41112 | 3.905 | 1.4 | -0.8 | 0.7 | 0.0 | 0.3 | 0.2 |
| Government purchased foods..... | FD | 4112 | 0.406 | 0.4 | -1.0 | 0.3 | -0.3 | 1.5 | 0.0 |
| Foods for export..... | FD | 4113 | 1.023 | -7.1 | 0.2 | -1.8 | -1.8 | 1.5 | -1.6 |
| Final demand energy..... | FD | 412 | 5.853 | -2.8 | 0.7 | -6.9 | 0.7 | 0.8 | 10.5 |
| Finished consumer energy goods ³ | FD | 4121 | 4.451 | 0.1 | 2.3 | -6.7 | 1.2 | 0.8 | 9.1 |
| Government purchased energy..... | FD | 4122 | 0.942 | -9.8 | -4.5 | -8.0 | -0.6 | 0.2 | 16.1 |
| Energy for export..... | FD | 4123 | 0.460 | -17.4 | -5.7 | -7.7 | -1.6 | 2.0 | 15.0 |
| Final demand goods less foods and energy..... | FD | 413 | 18.859 | 1.8 | 0.1 | 0.1 | -0.2 | 0.0 | 0.1 |
| Finished goods less foods and energy ³ | FD | 4131 | 10.768 | 3.6 | 0.1 | 0.3 | 0.0 | 0.2 | 0.2 |
| Finished consumer goods less foods and energy..... | FD | 41311 | 5.731 | 3.4 | 0.0 | 0.3 | 0.0 | 0.2 | 0.3 |
| Nondurable consumer goods less foods and energy..... | FD | 413111 | 3.441 | 4.3 | 0.1 | 0.4 | 0.0 | 0.3 | 0.3 |
| Durable consumer goods..... | FD | 413112 | 2.290 | 2.1 | -0.1 | 0.1 | -0.1 | 0.1 | 0.2 |
| Private capital equipment..... | FD | 41312 | 5.037 | 3.8 | 0.1 | 0.4 | 0.1 | 0.3 | 0.1 |
| Private capital equipment for manufacturing industries..... | FD | 413121 | 1.222 | 4.7 | 0.1 | 0.6 | 0.2 | 0.2 | 0.2 |
| Private capital equipment for nonmanufacturing industries..... | FD | 413122 | 3.815 | 3.6 | 0.1 | 0.3 | 0.1 | 0.3 | 0.1 |
| Government purchased goods, excluding foods and energy..... | FD | 4132 | 1.967 | 0.5 | 0.0 | -0.1 | -0.2 | 0.0 | 0.1 |
| Government purchased goods excluding foods, energy, and capital equipment..... | FD | 41321 | 1.160 | -0.6 | 0.0 | -0.2 | -0.4 | -0.2 | 0.0 |
| Government purchased capital equipment..... | FD | 41322 | 0.807 | 2.1 | 0.0 | 0.1 | 0.1 | 0.4 | 0.2 |
| Goods for export, excluding foods and energy..... | FD | 4133 | 6.124 | -0.8 | 0.4 | -0.2 | -0.6 | -0.3 | 0.0 |
| Final demand services..... | FD | 42 | 66.677 | 2.2 | 0.2 | 0.2 | -0.1 | 0.5 | 0.2 |
| Final demand trade services ⁴ | FD | 423 | 19.700 | -0.7 | 0.4 | 0.7 | -1.1 | 0.5 | -0.3 |
| Trade of finished goods ³ | FD | 4231 | 17.049 | -1.0 | 0.3 | 0.8 | -0.9 | 0.3 | -0.3 |
| Trade of personal consumption goods..... | FD | 42311 | 13.855 | -0.7 | 0.3 | 0.8 | -0.4 | 0.1 | -0.4 |
| Trade of private capital equipment..... | FD | 42312 | 3.194 | -2.8 | 0.1 | 0.4 | -3.4 | 1.0 | 0.1 |
| Trade of government purchased goods..... | FD | 4232 | 0.750 | 1.8 | 1.4 | 0.3 | -2.0 | 2.1 | -0.2 |
| Trade of government purchased goods, excluding capital equipment..... | FD | 42321 | 0.457 | 3.5 | 1.9 | 0.0 | -0.4 | 2.5 | -0.5 |
| Trade of government purchased capital equipment..... | FD | 42322 | 0.293 | -1.0 | 0.5 | 0.8 | -4.5 | 1.4 | 0.2 |
| Trade of exports..... | FD | 4233 | 1.901 | 1.1 | 0.8 | 0.1 | -2.5 | 2.1 | -0.4 |
| Final demand transportation and warehousing services..... | FD | 422 | 5.213 | -4.1 | -2.5 | -0.5 | 0.0 | 0.2 | 1.4 |
| Transportation of passengers for final demand..... | FD | 4221 | 1.275 | 4.0 | -3.1 | -1.0 | 2.0 | 1.6 | 1.3 |
| Transportation of private passengers..... | FD | 42211 | 0.860 | 3.9 | -3.1 | -1.0 | 2.0 | 1.6 | 1.3 |
| Transportation of government passengers..... | FD | 42212 | 0.103 | 3.9 | -3.1 | -1.0 | 2.0 | 1.6 | 1.2 |
| Transportation of passengers for export..... | FD | 42213 | 0.312 | 4.0 | -3.1 | -1.0 | 2.0 | 1.6 | 1.3 |
| Transportation and warehousing of goods for final demand..... | FD | 4222 | 3.938 | -6.7 | -2.2 | -0.3 | -0.7 | -0.4 | 1.4 |
| Transportation and warehousing of finished goods ³ | FD | 42221 | 2.567 | -7.4 | -2.4 | -0.4 | -0.7 | -0.4 | 1.4 |
| Transportation and warehousing of personal consumption goods..... | FD | 422211 | 2.063 | -7.1 | -2.4 | -0.4 | -0.7 | -0.4 | 1.4 |
| Transportation and warehousing of private capital equipment..... | FD | 422212 | 0.504 | -8.5 | -2.6 | -0.4 | -0.7 | -0.7 | 1.5 |
| Transportation and warehousing of government purchased goods..... | FD | 42222 | 0.233 | -5.0 | -2.0 | -0.5 | -0.7 | 0.1 | 1.0 |
| Transportation and warehousing of exports..... | FD | 42223 | 1.138 | -5.4 | -1.9 | -0.3 | -0.6 | -0.3 | 1.5 |
| Final demand services less trade, transportation, and warehousing..... | FD | 421 | 41.763 | 4.4 | 0.5 | 0.0 | 0.3 | 0.6 | 0.3 |
| Finished services less trade, transportation, and warehousing ³ | FD | 4211 | 36.505 | 4.1 | 0.5 | 0.0 | 0.3 | 0.6 | 0.3 |
| Finished consumer services less trade, transportation, and warehousing..... | FD | 42111 | 32.158 | 4.1 | 0.5 | -0.1 | 0.3 | 0.6 | 0.2 |
| Private capital investment services less trade, transportation, and warehousing..... | FD | 42112 | 4.347 | 4.0 | 0.1 | 0.5 | 0.4 | 0.2 | 0.9 |
| Government purchased services less trade, transportation, and warehousing..... | FD | 4212 | 2.674 | 4.4 | 0.6 | 0.1 | 0.4 | 0.6 | 0.6 |
| Gov. purchased services less trade, transportation, and warehousing, excl. capital investment..... | FD | 42121 | 2.515 | 4.5 | 0.7 | 0.0 | 0.4 | 0.6 | 0.5 |
| Government purchased capital investment services less trade, transportation, and warehousing..... | FD | 42122 | 0.159 | 3.0 | -0.4 | 0.5 | 0.4 | 0.1 | 0.9 |
| Services for export less trade, transportation, and warehousing..... | FD | 4213 | 2.584 | 9.0 | 0.8 | 0.5 | 0.5 | 0.6 | 0.6 |
| Final demand construction..... | FD | 43 | 2.670 | 3.9 | -0.2 | 0.1 | 0.0 | -1.2 | 0.2 |
| Construction for private capital investment..... | FD | 431 | 1.856 | 3.9 | -0.1 | 0.1 | 0.1 | -1.3 | 0.2 |
| Construction for government..... | FD | 432 | 0.814 | 3.9 | -0.2 | 0.1 | 0.0 | -1.0 | 0.1 |
| Special Groupings of Final Demand | | | | | | | | | |
| Final demand less exports..... | FD | 49101 | 86.458 | 1.9 | 0.2 | -0.3 | 0.0 | 0.4 | 0.8 |
| Final demand less government..... | FD | 49102 | 92.111 | 1.7 | 0.2 | -0.3 | -0.1 | 0.4 | 0.6 |

See footnotes at end of table.

Table 1. Producer price index percentage changes and weights for Final Demand-Intermediate Demand groupings, seasonally adjusted — Continued
[August 2023]

| Grouping | Commodity code | | Relative Importance Dec. 2022 ¹ | Unadjusted 12-month percent change ² Aug. 2022 to Aug. 2023 ^P | Seasonally adjusted 1-month percent change ² | | | | |
|---|----------------|-----------|--|--|---|--------------------------|--------------------------|---------------------------|---------------------------|
| | Group code | Item code | | | Mar. to Apr. | Apr. to May ^P | May to June ^P | June to July ^P | July to Aug. ^P |
| Final demand less foods, food and nonalcoholic beverages for immediate consumption, and energy ⁵ | FD | 49103 | 87.791 | 2.1 | 0.2 | 0.1 | -0.2 | 0.4 | 0.1 |
| Final demand less foods and energy ⁵ | FD | 49104 | 88.207 | 2.2 | 0.2 | 0.2 | -0.1 | 0.4 | 0.2 |
| Final demand less foods and food and nonalcoholic beverages for immediate consumption ⁵ | FD | 49105 | 93.644 | 1.6 | 0.2 | -0.3 | -0.1 | 0.4 | 0.8 |
| Final demand less foods ⁵ | FD | 49106 | 94.060 | 1.8 | 0.2 | -0.3 | -0.1 | 0.4 | 0.8 |
| Final demand less energy..... | FD | 49107 | 94.147 | 2.0 | 0.2 | 0.1 | -0.1 | 0.4 | 0.1 |
| Final demand less trade services..... | FD | 49108 | 80.300 | 2.2 | 0.2 | -0.6 | 0.2 | 0.4 | 1.0 |
| Final demand less distributive services ⁶ | FD | 49109 | 76.362 | 2.6 | 0.3 | -0.6 | 0.2 | 0.4 | 1.0 |
| Final demand goods less energy..... | FD | 49111 | 24.799 | 1.2 | 0.0 | -0.1 | -0.2 | 0.1 | 0.0 |
| Final demand goods less foods..... | FD | 49112 | 24.712 | 0.8 | 0.3 | -1.6 | 0.0 | 0.2 | 2.5 |
| Final demand services less trade services..... | FD | 49113 | 46.976 | 3.5 | 0.2 | 0.0 | 0.3 | 0.5 | 0.4 |
| Final demand distributive services ⁶ | FD | 49114 | 23.638 | -1.7 | 0.0 | 0.5 | -1.0 | 0.4 | -0.1 |
| Final demand goods plus final demand distributive services ⁶ | FD | 49115 | 54.290 | -0.5 | 0.1 | -0.6 | -0.5 | 0.3 | 1.1 |
| Final demand less foods, energy, and trade services ⁵ | FD | 49116 | 68.507 | 3.0 | 0.2 | 0.0 | 0.2 | 0.3 | 0.3 |
| Private and government purchased capital equipment..... | FD | 49117 | 5.844 | 3.6 | 0.1 | 0.3 | 0.1 | 0.3 | 0.2 |
| Private and government purchased capital investment services..... | FD | 49118 | 8.497 | 0.7 | 0.0 | 0.4 | -1.2 | 0.5 | 0.6 |
| Total private and government purchased capital investment..... | FD | 49119 | 14.341 | 2.1 | 0.0 | 0.3 | -0.6 | 0.2 | 0.4 |
| Total finished ³ | FD | 49201 | 78.567 | 2.0 | 0.3 | -0.3 | 0.0 | 0.4 | 0.7 |
| Total finished less foods, food and nonalcoholic beverages for immediate consumption, and energy ^{3,5} | FD | 49202 | 69.193 | 2.3 | 0.2 | 0.2 | 0.0 | 0.4 | 0.2 |
| Total finished less foods and energy ^{3,5} | FD | 49203 | 69.605 | 2.3 | 0.2 | 0.2 | 0.0 | 0.4 | 0.2 |
| Total finished less foods and food and nonalcoholic beverages for immediate consumption ^{3,5} | FD | 49204 | 73.644 | 2.1 | 0.3 | -0.2 | 0.0 | 0.4 | 0.7 |
| Total finished less foods ^{3,5} | FD | 49205 | 74.056 | 2.1 | 0.3 | -0.2 | 0.0 | 0.4 | 0.7 |
| Total finished less energy ³ | FD | 49206 | 74.116 | 2.2 | 0.2 | 0.1 | 0.0 | 0.4 | 0.1 |
| Finished goods ³ | FD | 49207 | 19.730 | 2.2 | 0.5 | -1.6 | 0.3 | 0.3 | 2.1 |
| Finished goods less energy ³ | FD | 49208 | 15.279 | 2.7 | -0.1 | 0.0 | 0.1 | 0.2 | 0.1 |
| Finished goods, excluding foods ^{3,5} | FD | 49209 | 15.219 | 2.7 | 0.7 | -1.8 | 0.4 | 0.4 | 2.8 |
| Finished services ³ | FD | 49210 | 56.981 | 2.0 | 0.2 | 0.2 | -0.1 | 0.5 | 0.2 |
| Private capital investment services..... | FD | 49211 | 8.045 | 0.6 | -0.1 | 0.4 | -1.1 | 0.5 | 0.6 |
| Finished distributive services ^{3,6} | FD | 49212 | 19.616 | -1.9 | -0.1 | 0.6 | -0.9 | 0.2 | -0.1 |
| Finished services less trade services ³ | FD | 49213 | 39.932 | 3.4 | 0.2 | -0.1 | 0.3 | 0.5 | 0.4 |
| Finished services less distributive services ^{3,6} | FD | 49214 | 37.365 | 4.1 | 0.4 | -0.1 | 0.4 | 0.6 | 0.3 |
| Total private capital investment (goods, services, and construction)..... | FD | 49215 | 14.938 | 2.1 | 0.0 | 0.4 | -0.6 | 0.2 | 0.4 |
| Finished goods plus finished distributive services ^{3,6} | FD | 49216 | 39.346 | 0.1 | 0.2 | -0.5 | -0.3 | 0.3 | 1.0 |
| Total exports..... | FD | 49301 | 13.542 | -0.1 | 0.0 | -0.4 | -0.7 | 0.5 | 0.5 |
| Goods for export..... | FD | 49302 | 7.607 | -2.7 | 0.0 | -0.8 | -0.8 | 0.0 | 0.6 |
| Services for export..... | FD | 49303 | 5.935 | 3.4 | 0.1 | 0.2 | -0.6 | 1.0 | 0.5 |
| Total government purchases..... | FD | 49401 | 7.889 | 0.7 | -0.4 | -0.9 | -0.2 | 0.4 | 1.9 |
| Government purchased goods..... | FD | 49402 | 3.315 | -2.4 | -1.4 | -2.2 | -0.3 | 0.2 | 4.2 |
| Government purchased services..... | FD | 49403 | 3.760 | 3.3 | 0.5 | 0.0 | -0.1 | 0.9 | 0.4 |
| Total government purchased capital investment (goods, services, construction)..... | FD | 49404 | 2.073 | 2.4 | 0.0 | 0.2 | -0.5 | -0.1 | 0.2 |
| Government purchases, defense..... | FD | 49405 | 2.344 | 0.0 | -1.1 | -1.0 | -0.1 | 0.8 | 2.4 |
| Government purchases, non-defense..... | FD | 49406 | 5.545 | 0.8 | 0.0 | -0.8 | -0.2 | 0.3 | 1.7 |
| Personal consumption..... | FD | 49501 | 63.629 | 2.0 | 0.4 | -0.4 | 0.2 | 0.4 | 0.7 |
| Personal consumption goods (finished consumer goods)..... | FD | 49502 | 14.693 | 1.6 | 0.6 | -2.3 | 0.4 | 0.4 | 2.8 |
| Personal consumption goods less energy..... | FD | 49503 | 10.242 | 2.1 | -0.2 | -0.3 | 0.1 | 0.2 | 0.0 |
| Personal consumption goods less foods..... | FD | 49504 | 10.182 | 2.1 | 1.0 | -2.9 | 0.5 | 0.5 | 4.1 |
| Personal consumption nondurable goods less foods..... | FD | 49508 | 7.892 | 2.2 | 1.4 | -3.7 | 0.7 | 0.6 | 5.2 |
| Personal consumption services..... | FD | 49505 | 48.936 | 2.3 | 0.3 | 0.1 | 0.1 | 0.5 | 0.1 |
| Personal consumption less trade services..... | FD | 49506 | 49.774 | 2.8 | 0.4 | -0.8 | 0.3 | 0.5 | 1.0 |
| Personal consumption less distributive services ⁶ | FD | 49507 | 47.711 | 3.2 | 0.5 | -0.8 | 0.4 | 0.5 | 1.0 |
| Personal consumption less foods and energy..... | FD | 49510 | 54.667 | 2.4 | 0.3 | 0.2 | 0.1 | 0.4 | 0.1 |
| Personal consumption less foods, energy, and trade services ⁴ | FD | 49511 | 40.812 | 3.5 | 0.2 | -0.1 | 0.2 | 0.5 | 0.3 |
| Personal consumption less foods, energy, and distributive services ⁶ | FD | 49512 | 38.749 | 4.0 | 0.4 | -0.1 | 0.3 | 0.6 | 0.2 |
| Personal consumption goods plus personal consumption distributive services ⁶ | FD | 49509 | 30.611 | 0.0 | 0.3 | -0.8 | 0.0 | 0.2 | 1.3 |
| Intermediate Demand by Commodity Type | | | | | | | | | |
| Processed goods | | | | | | | | | |
| Processed goods for intermediate demand..... | ID6 | 1 | 100.000 | -4.3 | -0.5 | -1.5 | -0.5 | -0.3 | 2.1 |
| Materials and components for manufacturing..... | ID6 | 11 | 42.908 | -5.2 | 0.3 | -0.2 | -0.7 | -0.9 | -0.3 |
| Materials for manufacturing..... | ID6 | 111 | 26.996 | -9.0 | 0.3 | -0.2 | -1.1 | -1.4 | -0.4 |
| Materials for food manufacturing..... | ID6 | 1111 | 4.432 | -5.1 | -1.1 | -2.0 | -1.6 | 0.7 | 0.8 |
| Materials for nondurable manufacturing..... | ID6 | 1112 | 12.302 | -11.3 | -0.2 | -1.5 | -1.6 | -1.8 | -0.7 |
| Materials for durable manufacturing..... | ID6 | 1113 | 10.262 | -7.7 | 1.3 | 1.9 | -0.3 | -1.9 | -0.5 |
| Components for manufacturing..... | ID6 | 112 | 15.912 | 2.0 | 0.3 | 0.0 | 0.0 | 0.1 | 0.0 |

See footnotes at end of table.

Table 1. Producer price index percentage changes and weights for Final Demand-Intermediate Demand groupings, seasonally adjusted — Continued
[August 2023]

| Grouping | Commodity code | | Relative Importance Dec. 2022 ¹ | Unadjusted 12-month percent change ² Aug. 2022 to Aug. 2023 ^P | Seasonally adjusted 1-month percent change ² | | | | |
|---|----------------|-----------|--|--|---|--------------------------|--------------------------|---------------------------|---------------------------|
| | Group code | Item code | | | Mar. to Apr. | Apr. to May ^P | May to June ^P | June to July ^P | July to Aug. ^P |
| Components for nondurable manufacturing..... | ID6 | 1121 | 0.793 | -2.4 | 0.4 | -0.2 | -0.5 | -0.5 | -0.3 |
| Components for durable manufacturing..... | ID6 | 1122 | 15.119 | 2.2 | 0.3 | 0.0 | 0.0 | 0.1 | 0.0 |
| Materials and components for construction..... | ID6 | 12 | 10.348 | -0.4 | 0.1 | 0.0 | -0.1 | 0.3 | 0.0 |
| Materials for construction..... | ID6 | 121 | 4.574 | -1.4 | 0.1 | 0.2 | 0.0 | 0.4 | -0.1 |
| Components for construction..... | ID6 | 122 | 5.774 | 0.3 | 0.0 | -0.2 | -0.2 | 0.1 | 0.0 |
| Processed fuels and lubricants for intermediate demand..... | ID6 | 13 | 19.830 | -8.5 | -2.9 | -7.0 | -0.6 | -0.3 | 12.1 |
| Processed fuels and lubricants to manufacturing industries..... | ID6 | 131 | 5.016 | -11.1 | -4.8 | -4.5 | 0.0 | -1.0 | 6.7 |
| Processed fuels and lubricants to nonmanufacturing industries..... | ID6 | 132 | 14.814 | -7.7 | -2.3 | -7.8 | -0.8 | 0.0 | 13.9 |
| Containers for intermediate demand..... | ID6 | 14 | 3.107 | -2.0 | -0.2 | 0.3 | -0.5 | -0.2 | -0.7 |
| Supplies for intermediate demand..... | ID6 | 15 | 23.807 | -0.8 | -0.2 | -0.4 | -0.3 | 0.2 | 0.0 |
| Supplies to manufacturing industries..... | ID6 | 151 | 3.173 | -1.3 | 0.0 | -0.1 | -0.2 | -0.2 | -0.3 |
| Supplies to nonmanufacturing industries..... | ID6 | 152 | 20.634 | -0.7 | -0.3 | -0.4 | -0.3 | 0.3 | 0.1 |
| Supplies to nonmanufacturing industries, feeds..... | ID6 | 1521 | 2.363 | -6.3 | -1.5 | -2.9 | -0.9 | 3.0 | 0.7 |
| Supplies to nonmanufacturing industries, other than feeds..... | ID6 | 1522 | 18.271 | 0.0 | -0.1 | -0.1 | -0.2 | 0.0 | 0.0 |
| Unprocessed goods | | | | | | | | | |
| Unprocessed goods for intermediate demand..... | ID6 | 2 | 100.000 | -26.9 | 1.1 | -5.3 | -1.0 | 2.4 | 1.3 |
| Unprocessed foodstuffs and feedstuffs..... | ID6 | 21 | 36.058 | -14.5 | -1.5 | -4.6 | 1.0 | -0.8 | -2.3 |
| Unprocessed nonfood materials..... | ID6 | 22 | 63.942 | -32.2 | 2.8 | -5.7 | -2.3 | 4.6 | 3.6 |
| Unprocessed nonfood materials except fuel..... | ID6 | 221 | 45.514 | -10.3 | 6.5 | -6.2 | -3.0 | 3.0 | 5.0 |
| Unprocessed nonfood materials except fuel to manufacturing industries..... | ID6 | 2211 | 43.610 | -11.1 | 6.8 | -6.5 | -3.2 | 3.1 | 5.3 |
| Unprocessed nonfood materials except fuel to nonmanufacturing industries..... | ID6 | 2212 | 1.904 | 8.5 | 0.1 | 0.0 | 0.8 | 0.2 | 0.7 |
| Unprocessed fuel..... | ID6 | 222 | 18.428 | -69.6 | -15.3 | -2.3 | 1.7 | 13.7 | -3.9 |
| Unprocessed fuel to manufacturing industries..... | ID6 | 2221 | 0.982 | -32.7 | -1.9 | -2.8 | 1.0 | 5.4 | -0.1 |
| Unprocessed fuel to nonmanufacturing industries..... | ID6 | 2222 | 17.446 | -71.4 | -16.6 | -2.3 | 1.8 | 14.7 | -4.3 |
| Services | | | | | | | | | |
| Services for intermediate demand..... | ID6 | 3 | 100.000 | 4.2 | 0.7 | 0.1 | 0.0 | 0.5 | 0.1 |
| Trade services for intermediate demand ⁴ | ID6 | 33 | 18.127 | 1.4 | 0.8 | -0.4 | -0.8 | 1.4 | -0.3 |
| Trade services for manufacturing industries..... | ID6 | 331 | 8.929 | 1.6 | 0.7 | -0.8 | -1.6 | 1.1 | -0.5 |
| Trade services for nonmanufacturing industries..... | ID6 | 332 | 9.198 | 1.3 | 1.0 | 0.0 | -0.1 | 1.7 | 0.0 |
| Transportation and warehousing services for intermediate demand..... | ID6 | 32 | 14.516 | -2.7 | -1.1 | -0.4 | 0.0 | 0.6 | -0.2 |
| Transportation of passengers for intermediate demand..... | ID6 | 321 | 1.069 | 3.9 | -3.1 | -1.0 | 2.0 | 1.6 | 1.2 |
| Transportation of passengers for manufacturing industries..... | ID6 | 3211 | 0.127 | 4.0 | -3.1 | -1.0 | 2.0 | 1.6 | 1.3 |
| Transportation of passengers for nonmanufacturing industries..... | ID6 | 3212 | 0.942 | 3.9 | -3.1 | -1.0 | 2.0 | 1.6 | 1.2 |
| Transportation and warehousing of goods for intermediate demand..... | ID6 | 322 | 13.447 | -3.3 | -0.9 | -0.4 | -0.2 | 0.6 | -0.4 |
| Transportation and warehousing of goods for manufacturing industries..... | ID6 | 3221 | 2.941 | -4.7 | -1.7 | -0.2 | -0.8 | 0.0 | 1.0 |
| Transportation and warehousing of goods for nonmanufacturing industries..... | ID6 | 3222 | 10.506 | -2.9 | -0.7 | -0.5 | 0.0 | 0.7 | -0.7 |
| Services less trade, transportation, and warehousing for intermediate demand..... | ID6 | 31 | 67.357 | 6.6 | 1.0 | 0.4 | 0.2 | 0.2 | 0.3 |
| Services less trade, transportation, and warehousing for manufacturing industries..... | ID6 | 311 | 2.068 | 4.0 | 0.5 | 0.2 | 0.0 | 0.3 | 0.2 |
| Services less trade, transportation, and warehousing for nonmanufacturing industries..... | ID6 | 312 | 65.288 | 6.7 | 1.0 | 0.4 | 0.2 | 0.2 | 0.3 |
| Construction | | | | | | | | | |
| Construction for intermediate demand..... | ID6 | 4 | 100.000 | 4.6 | 0.1 | 1.4 | 0.1 | 0.3 | 0.3 |
| Special Groupings of Intermediate Demand by Commodity Type | | | | | | | | | |
| Processed materials less foods and feeds..... | ID6 | 9111 | 90.968 | -4.3 | -0.5 | -1.5 | -0.4 | -0.5 | 2.3 |
| Processed foods and feeds..... | ID6 | 9112 | 9.032 | -4.4 | -1.1 | -1.9 | -1.1 | 1.3 | 0.7 |
| Processed energy goods..... | ID6 | 9113 | 19.830 | -8.5 | -2.9 | -7.0 | -0.6 | -0.3 | 12.1 |
| Processed materials less energy..... | ID6 | 9118 | 80.170 | -3.2 | 0.1 | -0.2 | -0.5 | -0.4 | -0.2 |
| Processed materials less foods and energy..... | ID6 | 9115 | 71.138 | -3.0 | 0.2 | 0.0 | -0.4 | -0.6 | -0.3 |
| Intermediate distributive services ⁷ | ID6 | 9116 | 31.574 | -0.5 | 0.1 | -0.4 | -0.6 | 1.1 | -0.3 |
| Processed goods plus intermediate distributive services..... | ID6 | 9117 | - | -3.3 | -0.3 | -1.2 | -0.5 | 0.1 | 1.4 |
| Unprocessed materials less agricultural products..... | ID6 | 9211 | 58.389 | -32.5 | 3.0 | -5.8 | -2.8 | 6.2 | 4.0 |
| Unprocessed energy materials ⁸ | ID6 | 9212 | 43.623 | -40.6 | 3.7 | -8.0 | -2.7 | 9.9 | 5.4 |
| Unprocessed materials less energy..... | ID6 | 9213 | 56.377 | -12.6 | -0.2 | -3.7 | -0.1 | -1.6 | -1.1 |
| Unprocessed nonfood materials less energy ⁹ | ID6 | 9216 | 20.319 | -9.8 | 1.8 | -2.4 | -1.9 | -2.9 | 0.8 |
| Intermediate Demand by Production Flow | | | | | | | | | |
| Stage 4 Intermediate Demand | | | | | | | | | |
| Stage 4 intermediate demand..... | ID5 | 4 | 100.000 | 2.3 | 0.3 | -0.2 | -0.1 | 0.4 | 0.6 |
| Inputs to stage 4 goods producers..... | ID5 | 41 | 30.237 | -0.3 | -0.1 | -0.1 | -0.4 | -0.1 | 0.0 |
| Goods..... | ID5 | 411 | 22.423 | -1.6 | -0.1 | -0.2 | -0.1 | -0.3 | -0.1 |

See footnotes at end of table.

Table 1. Producer price index percentage changes and weights for Final Demand-Intermediate Demand groupings, seasonally adjusted — Continued
[August 2023]

| Grouping | Commodity code | | Relative Importance Dec. 2022 ¹ | Unadjusted 12-month percent change ² Aug. 2022 to Aug. 2023 ^P | Seasonally adjusted 1-month percent change ² | | | | |
|---|----------------|-----------|--|--|---|--------------------------|--------------------------|---------------------------|---------------------------|
| | Group code | Item code | | | Mar. to Apr. | Apr. to May ^P | May to June ^P | June to July ^P | July to Aug. ^P |
| Foods..... | ID5 | 4111 | 3.300 | -6.7 | -0.3 | -2.1 | -0.4 | -1.4 | 0.5 |
| Energy..... | ID5 | 4112 | 0.220 | -11.1 | -14.4 | -10.4 | 4.1 | -0.3 | 5.1 |
| Goods excluding foods and energy..... | ID5 | 4113 | 18.903 | -0.6 | 0.1 | 0.2 | -0.1 | -0.2 | -0.3 |
| Services..... | ID5 | 412 | 7.814 | 3.4 | -0.1 | 0.3 | -1.2 | 0.6 | 0.3 |
| Trade services..... | ID5 | 4123 | 5.817 | 3.8 | -0.2 | 0.4 | -1.7 | 0.7 | 0.3 |
| Transportation and warehousing services..... | ID5 | 4122 | 0.515 | -3.4 | -1.5 | -0.7 | -0.1 | 0.0 | 0.9 |
| Transportation of passengers..... | ID5 | 41221 | 0.077 | 4.0 | -3.1 | -1.0 | 2.0 | 1.6 | 1.3 |
| Transportation and warehousing of goods..... | ID5 | 41222 | 0.438 | -4.7 | -1.2 | -0.7 | -0.5 | -0.3 | 0.9 |
| Services less trade, transportation, and warehousing..... | ID5 | 4121 | 1.482 | 3.9 | 0.7 | 0.1 | 0.4 | 0.2 | 0.1 |
| Inputs to stage 4 services producers..... | ID5 | 42 | 54.970 | 4.6 | 0.5 | 0.0 | 0.1 | 0.7 | 0.8 |
| Goods..... | ID5 | 421 | 13.984 | -0.1 | -0.7 | -0.7 | 0.0 | 0.1 | 1.2 |
| Foods..... | ID5 | 4211 | 2.360 | -4.2 | -1.3 | -0.6 | -0.3 | 1.2 | 0.4 |
| Energy..... | ID5 | 4212 | 4.133 | -0.7 | -1.4 | -2.0 | 0.3 | -0.3 | 4.0 |
| Goods excluding foods and energy..... | ID5 | 4213 | 7.491 | 1.2 | -0.1 | -0.1 | 0.0 | 0.1 | -0.1 |
| Services..... | ID5 | 422 | 40.934 | 6.4 | 0.9 | 0.3 | 0.1 | 0.8 | 0.6 |
| Trade services..... | ID5 | 4223 | 4.078 | 2.4 | 0.8 | 0.0 | -1.3 | 2.0 | -0.4 |
| Transportation and warehousing services..... | ID5 | 4222 | 3.742 | 1.7 | -0.8 | -1.1 | -0.1 | 1.3 | -0.2 |
| Transportation of passengers..... | ID5 | 42221 | 0.490 | 4.0 | -3.1 | -1.0 | 2.0 | 1.6 | 1.3 |
| Transportation and warehousing of goods..... | ID5 | 42222 | 3.252 | 1.4 | -0.4 | -1.1 | -0.4 | 1.3 | -0.4 |
| Services less trade, transportation, and warehousing..... | ID5 | 4221 | 33.114 | 7.5 | 1.1 | 0.5 | 0.2 | 0.6 | 0.8 |
| Construction..... | ID5 | 423 | 0.052 | 4.6 | 0.1 | 1.4 | 0.1 | 0.3 | 0.3 |
| Inputs to stage 4 construction producers..... | ID5 | 43 | 14.792 | -0.4 | 0.2 | -1.0 | 0.1 | 0.2 | 1.2 |
| Goods..... | ID5 | 431 | 10.801 | -0.2 | 0.3 | -1.0 | 0.1 | 0.1 | 1.5 |
| Energy..... | ID5 | 4312 | 0.855 | -6.8 | 2.9 | -12.0 | 1.4 | -1.1 | 19.7 |
| Goods excluding foods and energy..... | ID5 | 4313 | 9.946 | 0.4 | 0.1 | 0.1 | 0.0 | 0.2 | 0.0 |
| Services..... | ID5 | 432 | 3.991 | -0.8 | 0.1 | -1.0 | 0.0 | 0.4 | 0.3 |
| Trade services..... | ID5 | 4323 | 1.692 | -0.9 | 0.6 | -2.4 | 0.2 | 0.8 | 0.1 |
| Transportation and warehousing services..... | ID5 | 4322 | 0.725 | -7.8 | -2.4 | -0.6 | -0.6 | -0.5 | 1.4 |
| Transportation of passengers..... | ID5 | 43221 | 0.015 | 4.0 | -3.1 | -1.0 | 2.0 | 1.6 | 1.3 |
| Transportation and warehousing of goods..... | ID5 | 43222 | 0.710 | -8.1 | -2.4 | -0.6 | -0.7 | -0.6 | 1.4 |
| Services less trade, transportation, and warehousing..... | ID5 | 4321 | 1.574 | 3.0 | 0.7 | 0.3 | 0.2 | 0.3 | 0.0 |
| Stage 3 Intermediate Demand | | | | | | | | | |
| Stage 3 intermediate demand..... | ID5 | 3 | 100.000 | -4.5 | -0.2 | -1.4 | -0.2 | -0.5 | 0.9 |
| Inputs to stage 3 goods producers..... | ID5 | 31 | 45.352 | -9.7 | -0.5 | -1.8 | -0.2 | -1.3 | -0.4 |
| Goods..... | ID5 | 311 | 35.807 | -11.5 | -0.6 | -1.9 | 0.0 | -1.7 | -0.5 |
| Foods..... | ID5 | 3111 | 11.906 | -17.3 | -2.2 | -5.6 | 1.4 | -2.0 | -1.3 |
| Energy..... | ID5 | 3112 | 1.292 | -24.8 | -7.0 | -7.1 | 0.5 | -2.4 | 8.3 |
| Goods excluding foods and energy..... | ID5 | 3113 | 22.609 | -7.5 | 0.6 | 0.1 | -0.7 | -1.6 | -0.6 |
| Services..... | ID5 | 312 | 9.545 | -2.1 | 0.1 | -1.5 | -0.9 | 0.1 | -0.2 |
| Trade services..... | ID5 | 3123 | 5.175 | -1.3 | 1.1 | -2.6 | -1.4 | 0.2 | -1.0 |
| Transportation and warehousing services..... | ID5 | 3122 | 3.002 | -6.2 | -2.1 | -0.3 | -0.6 | -0.5 | 1.2 |
| Transportation of passengers..... | ID5 | 31221 | 0.144 | 4.0 | -3.1 | -1.0 | 2.0 | 1.6 | 1.3 |
| Transportation and warehousing of goods..... | ID5 | 31222 | 2.858 | -6.7 | -2.0 | -0.2 | -0.7 | -0.6 | 1.2 |
| Services less trade, transportation, and warehousing..... | ID5 | 3121 | 1.368 | 4.3 | 0.7 | 0.4 | 0.1 | 0.4 | 0.2 |
| Inputs to stage 3 services producers..... | ID5 | 32 | 53.518 | 0.1 | 0.0 | -1.1 | -0.2 | 0.2 | 1.9 |
| Goods..... | ID5 | 321 | 10.628 | -8.1 | -3.2 | -6.7 | -0.8 | -0.6 | 13.5 |
| Foods..... | ID5 | 3211 | 0.090 | -2.2 | -2.6 | 0.4 | -1.4 | 0.0 | 1.1 |
| Energy..... | ID5 | 3212 | 6.619 | -12.1 | -5.1 | -10.7 | -1.2 | -0.8 | 23.3 |
| Goods excluding foods and energy..... | ID5 | 3213 | 3.919 | -0.4 | -0.1 | -0.3 | -0.2 | -0.2 | 0.0 |
| Services..... | ID5 | 322 | 42.317 | 2.8 | 0.8 | 0.2 | 0.0 | 0.3 | -0.6 |
| Trade services..... | ID5 | 3223 | 2.614 | 3.1 | 2.3 | -0.9 | 0.8 | 2.2 | -0.5 |
| Transportation and warehousing services..... | ID5 | 3222 | 10.018 | -3.1 | -0.4 | -0.4 | 0.4 | 0.7 | -1.3 |
| Transportation of passengers..... | ID5 | 32221 | 0.021 | 0.2 | -0.3 | 0.0 | -0.1 | 0.2 | 0.2 |
| Transportation and warehousing of goods..... | ID5 | 32222 | 9.997 | -3.1 | -0.4 | -0.4 | 0.4 | 0.7 | -1.3 |
| Services less trade, transportation, and warehousing..... | ID5 | 3221 | 29.685 | 4.8 | 1.1 | 0.5 | -0.2 | 0.0 | -0.4 |
| Construction..... | ID5 | 323 | 0.573 | 4.6 | 0.1 | 1.4 | 0.1 | 0.3 | 0.3 |
| Inputs to stage 3 construction producers..... | ID5 | 33 | 1.131 | -2.2 | -0.6 | -0.3 | 0.8 | 1.4 | 0.7 |
| Goods..... | ID5 | 331 | 0.566 | -4.0 | -0.2 | -0.1 | 0.0 | 0.2 | -0.4 |
| Goods excluding foods and energy..... | ID5 | 3313 | 0.566 | -4.0 | -0.2 | -0.1 | 0.0 | 0.2 | -0.4 |
| Services..... | ID5 | 332 | 0.565 | -0.3 | -1.0 | -0.4 | 1.7 | 2.6 | 1.8 |
| Trade services..... | ID5 | 3323 | 0.521 | -0.3 | -1.1 | -0.5 | 1.9 | 2.8 | 2.0 |
| Transportation and warehousing services..... | ID5 | 3322 | 0.015 | -1.6 | -0.1 | 0.2 | -0.7 | -0.3 | 0.7 |
| Transportation and warehousing of goods..... | ID5 | 33222 | 0.015 | -1.6 | -0.1 | 0.2 | -0.8 | -0.3 | 0.7 |
| Services less trade, transportation, and warehousing..... | ID5 | 3321 | 0.029 | 4.1 | 0.4 | 0.4 | -0.1 | 0.5 | 0.2 |
| Stage 2 Intermediate Demand | | | | | | | | | |

See footnotes at end of table.

Table 1. Producer price index percentage changes and weights for Final Demand-Intermediate Demand groupings, seasonally adjusted — Continued
[August 2023]

| Grouping | Commodity code | | Relative Importance Dec. 2022 ¹ | Unadjusted 12-month percent change ² Aug. 2022 to Aug. 2023 ^P | Seasonally adjusted 1-month percent change ² | | | | |
|--|----------------|-----------|--|--|---|--------------------------|--------------------------|---------------------------|---------------------------|
| | Group code | Item code | | | Mar. to Apr. | Apr. to May ^P | May to June ^P | June to July ^P | July to Aug. ^P |
| Stage 2 intermediate demand..... | ID5 | 2 | 100.000 | -10.1 | 0.9 | -1.4 | -1.0 | 1.7 | 0.7 |
| Inputs to stage 2 goods producers..... | ID5 | 21 | 54.274 | -20.5 | 1.3 | -3.1 | -2.0 | 3.6 | 1.6 |
| Goods..... | ID5 | 211 | 40.812 | -26.3 | 1.5 | -4.4 | -2.5 | 4.7 | 2.4 |
| Foods..... | ID5 | 2111 | 4.355 | -9.7 | -0.4 | -2.5 | -3.2 | 4.4 | -1.2 |
| Energy..... | ID5 | 2112 | 21.042 | -40.5 | 3.2 | -8.5 | -2.9 | 10.6 | 5.6 |
| Goods excluding foods and energy..... | ID5 | 2113 | 15.415 | -6.7 | 0.3 | -0.7 | -1.9 | -1.0 | -0.1 |
| Services..... | ID5 | 212 | 13.197 | 2.9 | 0.9 | 0.5 | -1.0 | 1.1 | -0.5 |
| Trade services..... | ID5 | 2123 | 5.150 | 0.5 | 2.2 | 0.8 | -1.8 | 1.7 | -1.2 |
| Transportation and warehousing services..... | ID5 | 2122 | 4.488 | 1.1 | -0.8 | 0.1 | -0.7 | 1.3 | 0.1 |
| Transportation of passengers..... | ID5 | 21221 | 0.168 | 3.8 | -3.0 | -1.0 | 1.9 | 1.6 | 1.2 |
| Transportation and warehousing of goods..... | ID5 | 21222 | 4.320 | 1.0 | -0.7 | 0.2 | -0.8 | 1.3 | 0.0 |
| Services less trade, transportation, and warehousing..... | ID5 | 2121 | 3.559 | 9.2 | 1.0 | 0.6 | -0.1 | -0.1 | -0.3 |
| Construction..... | ID5 | 213 | 0.265 | 4.6 | 0.1 | 1.4 | 0.1 | 0.3 | 0.3 |
| Inputs to stage 2 services producers..... | ID5 | 22 | 45.725 | 4.5 | 0.6 | 0.4 | 0.0 | -0.2 | -0.2 |
| Goods..... | ID5 | 221 | 5.072 | -2.4 | -0.3 | -1.0 | -0.3 | -0.1 | 0.7 |
| Foods..... | ID5 | 2211 | 0.055 | -17.3 | -0.8 | -2.9 | -1.9 | -0.5 | -1.4 |
| Energy..... | ID5 | 2212 | 0.357 | -13.6 | -2.8 | -11.9 | -1.3 | 0.5 | 16.1 |
| Goods excluding foods and energy..... | ID5 | 2213 | 4.660 | -1.3 | -0.1 | -0.2 | -0.2 | -0.1 | -0.3 |
| Services..... | ID5 | 222 | 39.767 | 5.5 | 0.7 | 0.6 | 0.0 | -0.2 | -0.4 |
| Trade services..... | ID5 | 2223 | 2.238 | -1.5 | 0.6 | 3.6 | -0.5 | -1.1 | 1.1 |
| Transportation and warehousing services..... | ID5 | 2222 | 2.862 | -17.4 | -1.8 | -0.7 | 1.5 | -0.4 | -4.8 |
| Transportation of passengers..... | ID5 | 22221 | 0.390 | 4.0 | -3.1 | -1.0 | 2.0 | 1.6 | 1.3 |
| Transportation and warehousing of goods..... | ID5 | 22222 | 2.472 | -20.4 | -1.5 | -0.7 | 1.5 | -0.8 | -5.9 |
| Services less trade, transportation, and warehousing..... | ID5 | 2221 | 34.667 | 8.2 | 0.9 | 0.5 | -0.1 | -0.1 | -0.1 |
| Construction..... | ID5 | 223 | 0.886 | 4.6 | 0.1 | 1.4 | 0.1 | 0.3 | 0.3 |
| Stage 1 Intermediate Demand | | | | | | | | | |
| Stage 1 intermediate demand..... | ID5 | 1 | 100.000 | -1.0 | -0.1 | -1.0 | -0.2 | 0.1 | 1.6 |
| Inputs to stage 1 goods producers..... | ID5 | 11 | 33.533 | -6.8 | -0.4 | -1.5 | -0.9 | -0.4 | 0.4 |
| Goods..... | ID5 | 111 | 24.780 | -9.0 | -0.8 | -1.5 | -0.9 | -1.1 | 0.9 |
| Foods..... | ID5 | 1111 | 3.351 | -14.4 | -0.8 | -3.1 | -0.4 | -2.6 | -0.3 |
| Energy..... | ID5 | 1112 | 3.963 | -12.5 | -7.3 | -7.5 | 0.0 | 0.7 | 6.9 |
| Goods excluding foods and energy..... | ID5 | 1113 | 17.466 | -7.2 | 0.6 | 0.1 | -1.1 | -1.2 | 0.0 |
| Services..... | ID5 | 112 | 8.752 | -0.4 | 0.8 | -1.6 | -1.0 | 1.3 | -0.9 |
| Trade services..... | ID5 | 1123 | 5.298 | -2.2 | 1.2 | -2.6 | -1.8 | 1.6 | -1.5 |
| Transportation and warehousing services..... | ID5 | 1122 | 0.599 | -0.7 | -0.5 | 1.5 | -0.8 | 0.3 | 1.1 |
| Transportation of passengers..... | ID5 | 11221 | 0.103 | 4.0 | -3.1 | -1.0 | 2.0 | 1.6 | 1.3 |
| Transportation and warehousing of goods..... | ID5 | 11222 | 0.496 | -1.6 | 0.0 | 2.1 | -1.4 | 0.0 | 1.1 |
| Services less trade, transportation, and warehousing..... | ID5 | 1121 | 2.855 | 3.4 | 0.5 | -0.3 | 0.4 | 0.9 | -0.3 |
| Construction..... | ID5 | 113 | 0.001 | 4.6 | 0.1 | 1.4 | 0.1 | 0.3 | 0.3 |
| Inputs to stage 1 services producers..... | ID5 | 12 | 53.646 | 2.9 | 0.2 | -0.6 | 0.1 | 0.3 | 2.1 |
| Goods..... | ID5 | 121 | 16.434 | -2.0 | -0.7 | -2.5 | -0.6 | -0.5 | 4.9 |
| Foods..... | ID5 | 1211 | 0.115 | -29.9 | 3.0 | -26.6 | -12.8 | -0.1 | 0.4 |
| Energy..... | ID5 | 1212 | 5.528 | -8.5 | -2.6 | -7.0 | -1.5 | -1.7 | 15.7 |
| Goods excluding foods and energy..... | ID5 | 1213 | 10.791 | 2.2 | 0.3 | 0.0 | -0.1 | 0.0 | 0.0 |
| Services..... | ID5 | 122 | 37.209 | 5.6 | 0.5 | 0.2 | 0.4 | 0.7 | 0.9 |
| Trade services..... | ID5 | 1223 | 3.617 | 3.2 | 0.8 | 0.1 | 0.2 | 1.2 | 0.0 |
| Transportation and warehousing services..... | ID5 | 1222 | 4.373 | 1.8 | -1.5 | -0.4 | 0.4 | 1.3 | 1.0 |
| Transportation of passengers..... | ID5 | 12221 | 1.342 | 4.0 | -3.1 | -1.0 | 2.0 | 1.6 | 1.3 |
| Transportation and warehousing of goods..... | ID5 | 12222 | 3.031 | 0.7 | -0.8 | -0.2 | -0.3 | 1.2 | 0.8 |
| Services less trade, transportation, and warehousing..... | ID5 | 1221 | 29.219 | 6.5 | 0.8 | 0.3 | 0.4 | 0.5 | 1.0 |
| Construction..... | ID5 | 123 | 0.003 | 4.6 | 0.1 | 1.4 | 0.1 | 0.3 | 0.3 |
| Inputs to stage 1 construction producers..... | ID5 | 13 | 12.821 | -1.6 | -0.6 | -1.1 | 0.0 | 0.3 | 2.2 |
| Goods..... | ID5 | 131 | 9.208 | -1.2 | -0.4 | -1.2 | -0.3 | -0.2 | 2.5 |
| Energy..... | ID5 | 1312 | 0.934 | -16.4 | -5.6 | -12.9 | -3.3 | -4.2 | 31.2 |
| Goods excluding foods and energy..... | ID5 | 1313 | 8.274 | 0.9 | 0.1 | 0.0 | 0.0 | 0.1 | 0.1 |
| Services..... | ID5 | 132 | 3.613 | -2.3 | -1.0 | -0.8 | 0.9 | 1.6 | 1.5 |
| Trade services..... | ID5 | 1323 | 2.667 | 0.1 | -0.6 | -0.9 | 1.4 | 2.3 | 1.6 |
| Transportation and warehousing services..... | ID5 | 1322 | 0.854 | -9.3 | -2.8 | -0.3 | -0.8 | -0.8 | 1.6 |
| Transportation and warehousing of goods..... | ID5 | 13222 | 0.854 | -9.3 | -2.8 | -0.3 | -0.8 | -0.8 | 1.6 |
| Services less trade, transportation, and warehousing..... | ID5 | 1321 | 0.092 | 4.5 | 1.0 | -0.1 | 0.0 | 0.5 | 0.0 |
| Special Groupings of Intermediate Demand by Production Flow | | | | | | | | | |
| Total goods inputs to stage 4 intermediate demand..... | ID5 | 9411 | 47.208 | -0.8 | -0.2 | -0.5 | 0.0 | -0.1 | 0.6 |
| Total services inputs to stage 4 intermediate demand..... | ID5 | 9412 | 52.739 | 5.3 | 0.7 | 0.2 | -0.1 | 0.8 | 0.5 |
| Total construction inputs to stage 4 intermediate demand..... | ID5 | 9413 | 0.052 | 4.6 | 0.1 | 1.4 | 0.1 | 0.3 | 0.3 |
| Total foods inputs to stage 4 intermediate demand..... | ID5 | 9414 | 5.660 | -5.6 | -0.7 | -1.5 | -0.3 | -0.3 | 0.5 |

See footnotes at end of table.

Table 1. Producer price index percentage changes and weights for Final Demand-Intermediate Demand groupings, seasonally adjusted — Continued
[August 2023]

| Grouping | Commodity code | | Relative Importance Dec. 2022 ¹ | Unadjusted 12-month percent change ² Aug. 2022 to Aug. 2023 ^p | Seasonally adjusted 1-month percent change ² | | | | |
|---|----------------|-----------|--|--|---|--------------------------|--------------------------|---------------------------|---------------------------|
| | Group code | Item code | | | Mar. to Apr. | Apr. to May ^p | May to June ^p | June to July ^p | July to Aug. ^p |
| Total energy goods inputs to stage 4 intermediate demand..... | ID5 | 9415 | 5.208 | -2.3 | -1.2 | -4.1 | 0.6 | -0.5 | 6.6 |
| Total goods less foods and energy inputs to stage 4 intermediate demand. | ID5 | 9416 | 36.340 | 0.1 | 0.1 | 0.1 | -0.1 | 0.0 | -0.2 |
| Total goods inputs to stage 3 intermediate demand..... | ID5 | 9311 | 47.001 | -10.7 | -1.2 | -2.9 | -0.2 | -1.5 | 2.5 |
| Total services inputs to stage 3 intermediate demand..... | ID5 | 9312 | 52.427 | 1.7 | 0.7 | -0.1 | -0.2 | 0.3 | -0.5 |
| Total construction inputs to stage 3 intermediate demand..... | ID5 | 9313 | 0.573 | 4.6 | 0.1 | 1.4 | 0.1 | 0.3 | 0.3 |
| Total foods inputs to stage 3 intermediate demand..... | ID5 | 9314 | 11.996 | -17.2 | -2.2 | -5.5 | 1.4 | -2.0 | -1.3 |
| Total energy goods inputs to stage 3 intermediate demand..... | ID5 | 9315 | 7.911 | -14.5 | -5.4 | -10.1 | -0.9 | -1.1 | 20.8 |
| Total goods less foods and energy inputs to stage 3 intermediate demand. | ID5 | 9316 | 27.094 | -6.5 | 0.5 | 0.1 | -0.6 | -1.4 | -0.5 |
| Total goods inputs to stage 2 intermediate demand..... | ID5 | 9211 | 45.884 | -24.0 | 1.2 | -4.0 | -2.2 | 4.0 | 2.2 |
| Total services inputs to stage 2 intermediate demand..... | ID5 | 9212 | 52.964 | 4.9 | 0.7 | 0.6 | -0.2 | 0.1 | -0.4 |
| Total construction inputs to stage 2 intermediate demand..... | ID5 | 9213 | 1.151 | 4.6 | 0.1 | 1.4 | 0.1 | 0.3 | 0.3 |
| Total foods inputs to stage 2 intermediate demand..... | ID5 | 9214 | 4.410 | -9.8 | -0.4 | -2.5 | -3.2 | 4.4 | -1.2 |
| Total energy goods inputs to stage 2 intermediate demand..... | ID5 | 9215 | 21.399 | -40.1 | 3.0 | -8.6 | -2.8 | 10.4 | 5.8 |
| Total goods less foods and energy inputs to stage 2 intermediate demand. | ID5 | 9216 | 20.075 | -5.5 | 0.2 | -0.6 | -1.5 | -0.8 | -0.1 |
| Total goods inputs to stage 1 intermediate demand..... | ID5 | 9111 | 50.422 | -5.3 | -0.7 | -1.7 | -0.7 | -0.8 | 2.5 |
| Total services inputs to stage 1 intermediate demand..... | ID5 | 9112 | 49.574 | 3.7 | 0.5 | -0.2 | 0.2 | 0.8 | 0.6 |
| Total construction inputs to stage 1 intermediate demand..... | ID5 | 9117 | 0.004 | 4.6 | 0.1 | 1.4 | 0.1 | 0.3 | 0.3 |
| Total foods inputs to stage 1 intermediate demand..... | ID5 | 9114 | 3.466 | -14.9 | -0.7 | -3.9 | -0.7 | -2.5 | -0.3 |
| Total energy goods inputs to stage 1 intermediate demand..... | ID5 | 9115 | 10.425 | -10.9 | -4.6 | -7.7 | -1.1 | -1.0 | 13.6 |
| Total goods less foods and energy inputs to stage 1 intermediate demand. | ID5 | 9116 | 36.531 | -2.6 | 0.4 | 0.1 | -0.5 | -0.5 | 0.0 |

¹ Comprehensive relative importance figures are initially computed after the publication of December indexes and are recalculated after final December indexes are available. Individual items and subtotals may not add exactly to totals because of rounding differences.

² All indexes are subject to revision for 4 months after their originally scheduled publication to incorporate late reports and corrections by survey respondents. In addition, seasonally adjusted indexes are subject to change for up to 5 years due to the recalculation of seasonal factors published each January.

³ PPI defines Total finished as including only the personal consumption and private capital investment portions of final demand.

⁴ Trade indexes measure changes in margins received by wholesalers and retailers.

⁵ The PPI definition of foods does not include food and beverages for immediate consumption. PPI defines food and beverages for immediate consumption as the service of preparing meals, snacks, and beverages to customer order for immediate on-premises and off-premises consumption.

⁶ Distributive services include transportation, warehousing, and trade of goods.

⁷ Includes intermediate trade, transportation, and warehousing services.

⁸ Includes crude petroleum.

⁹ Excludes crude petroleum.

^p Preliminary

"/" Data not available.

Table 2. Producer price index percentage changes for selected commodity groupings by Final Demand-Intermediate Demand category, seasonally adjusted
[August 2023]

| Grouping | Commodity code | | Unadjusted 12-month percent change ¹ | Seasonally adjusted 1-month percent change ¹ | | | | |
|---|----------------|-----------|---|---|--------------|--------------------------|--------------------------|---------------------------|
| | Group code | Item code | | Aug. 2022 to Aug. 2023 ^P | Mar. to Apr. | Apr. to May ^P | May to June ^P | June to July ^P |
| Final Demand | | | | | | | | |
| Final demand..... | FD | 4 | 1.6 | 0.2 | -0.3 | -0.1 | 0.4 | 0.7 |
| Final demand goods..... | FD | 41 | 0.5 | 0.1 | -1.5 | 0.0 | 0.3 | 2.0 |
| Final demand foods..... | FD | 411 | -0.7 | -0.4 | -1.0 | -0.2 | 0.4 | -0.5 |
| Fresh fruits and melons ² | 01 | 11 | -4.0 | 2.4 | -2.5 | 2.1 | -10.2 | 4.7 |
| Fresh and dry vegetables ² | 01 | 13 | -2.7 | 35.1 | -15.8 | -0.8 | 3.5 | -11.5 |
| Grains..... | 01 | 2 | -23.1 | 2.7 | -5.5 | 1.9 | -8.7 | -2.8 |
| Eggs for fresh use ² | 01 | 7107 | -36.7 | -35.8 | -53.4 | 33.8 | 0.3 | 9.8 |
| Oilseeds..... | 01 | 8301 | -11.8 | 0.5 | -1.2 | -6.9 | 9.0 | -4.3 |
| Bakery products ² | 02 | 11 | 4.9 | 0.1 | 0.3 | 0.4 | 0.1 | 0.2 |
| Milled rice ² | 02 | 13 | 7.9 | -0.3 | -0.8 | -0.2 | -0.3 | -1.1 |
| Pasta products ² | 02 | 1402 | 1.6 | -8.4 | 0.0 | 0.0 | -2.0 | 0.0 |
| Beef and veal..... | 02 | 2101 | 16.3 | -3.1 | 7.7 | 2.1 | 4.1 | -4.5 |
| Pork..... | 02 | 2104 | -2.6 | -6.5 | -4.1 | -0.4 | 8.9 | 0.8 |
| Processed young chickens..... | 02 | 2203 | -19.9 | -0.9 | -1.9 | -0.1 | -1.6 | 0.4 |
| Processed turkeys ² | 02 | 2206 | -35.6 | -6.8 | -8.9 | -7.4 | -3.0 | -3.2 |
| Finfish and shellfish..... | 02 | 23 | -2.6 | -1.4 | 1.3 | -1.9 | 0.6 | -1.1 |
| Dairy products..... | 02 | 3 | -9.7 | -0.2 | -1.3 | -2.2 | -1.5 | 1.9 |
| Processed fruits and vegetables ² | 02 | 4 | 12.2 | 0.3 | 1.2 | 1.0 | 0.0 | 0.6 |
| Confectionery end products ² | 02 | 55 | 3.9 | 0.3 | 0.4 | 0.7 | 1.3 | 0.2 |
| Soft drinks ² | 02 | 62 | 8.1 | -0.9 | 3.2 | 0.7 | -2.3 | 1.1 |
| Roasted coffee ² | 02 | 6301 | 13.7 | 0.3 | 0.2 | -0.1 | 0.0 | 7.7 |
| Shortening and cooking oils ² | 02 | 78 | -10.9 | -1.4 | -2.1 | -0.6 | 3.3 | 0.5 |
| Frozen specialty food ² | 02 | 85 | 6.7 | 0.2 | 1.1 | 0.0 | 0.0 | 0.0 |
| Final demand energy..... | FD | 412 | -2.8 | 0.7 | -6.9 | 0.7 | 0.8 | 10.5 |
| Liquefied petroleum gas ² | 05 | 32 | -41.1 | -3.1 | -17.4 | -6.1 | 26.2 | 6.0 |
| Residential electric power..... | 05 | 41 | 4.8 | -0.1 | 0.4 | 0.9 | -0.1 | -0.5 |
| Residential natural gas..... | 05 | 51 | -11.4 | -4.8 | -1.3 | -0.7 | 1.6 | -1.1 |
| Gasoline..... | 05 | 71 | 1.7 | 8.1 | -13.6 | 3.1 | 0.3 | 20.0 |
| Home heating oil and distillates..... | 05 | 7302 | -15.5 | -7.8 | -12.3 | 1.7 | 15.8 | 18.1 |
| No. 2 diesel fuel..... | 05 | 7303 | -14.4 | -3.6 | -13.6 | -5.5 | -5.7 | 41.1 |
| Final demand goods less foods and energy..... | FD | 413 | 1.8 | 0.1 | 0.1 | -0.2 | 0.0 | 0.1 |
| Alcoholic beverages..... | 02 | 61 | 3.2 | 0.1 | 0.3 | -0.5 | 0.1 | 0.2 |
| Pet food ² | 02 | 9402 | 7.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Women's, girls', and infants' apparel ² | 03 | 8106 | -1.3 | 0.0 | 0.1 | 0.1 | 0.1 | 0.0 |
| Men's and boys' apparel ² | 03 | 8107 | 4.0 | 0.0 | 2.3 | 0.0 | -0.5 | 0.1 |
| Textile housefurnishings ² | 03 | 82 | 2.3 | -0.1 | 0.0 | 0.1 | 0.2 | -0.5 |
| Footwear..... | 04 | 3 | 5.8 | 0.5 | 0.0 | 0.4 | 0.1 | -0.1 |
| Industrial chemicals..... | 06 | 1 | -15.1 | -0.5 | -2.0 | -1.9 | -2.8 | -1.2 |
| Pharmaceutical preparations..... | 06 | 38 | 2.8 | 0.3 | 0.0 | 0.1 | 0.4 | 0.4 |
| Soaps and detergents ² | 06 | 71 | 11.1 | 0.1 | 0.0 | -0.1 | 0.1 | 0.0 |
| Cleaning and polishing products ² | 06 | 72 | 2.8 | 0.3 | 0.1 | 0.1 | 0.0 | 0.0 |
| Cosmetics and other toiletries ² | 06 | 75 | 5.4 | 0.2 | 0.5 | 0.4 | 0.0 | 0.0 |
| Tires ² | 07 | 1201 | 5.0 | 0.1 | -0.2 | -0.3 | -0.2 | 0.0 |
| Consumer, institutional, and commercial products, n.e.c. ² | 07 | 2B | -0.2 | 0.1 | -0.1 | 0.0 | 0.1 | 0.1 |
| Sanitary paper products ² | 09 | 1501 | 6.7 | 0.0 | 0.4 | 0.3 | 0.0 | -0.7 |
| Iron and steel scrap..... | 10 | 12 | 1.8 | 6.0 | -6.0 | -10.8 | 4.5 | 6.4 |
| Agricultural machinery and equipment..... | 11 | 1 | 3.7 | 0.4 | 0.4 | -0.3 | 0.5 | 0.0 |
| Construction machinery and equipment ² | 11 | 2 | 6.0 | 0.3 | 0.1 | 0.0 | 1.6 | -0.5 |
| Metal cutting machine tools ² | 11 | 37 | 4.1 | 0.0 | 0.5 | 0.0 | 0.5 | 0.0 |
| Metal forming machine tools..... | 11 | 38 | 4.2 | 0.1 | 1.8 | 0.2 | 0.3 | 0.0 |
| Tools, dies, jigs, fixtures, and industrial molds ² | 11 | 39 | 5.8 | 0.2 | 0.1 | 0.7 | 0.1 | 0.3 |
| Pumps, compressors, and equipment..... | 11 | 41 | 7.5 | -0.1 | 0.9 | 0.4 | 0.4 | 0.4 |
| Industrial material handling equipment ² | 11 | 44 | 5.0 | 0.0 | 0.4 | 0.3 | 0.1 | 0.0 |
| Electronic computers and computer equipment ² | 11 | 5 | 0.3 | -1.4 | -0.5 | -1.6 | -0.2 | 1.8 |
| Textile machinery and equipment ² | 11 | 62 | -0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Paper industries machinery ² | 11 | 64 | 6.8 | 0.1 | 0.5 | 1.8 | 0.0 | -0.3 |
| Printing trades machinery and equipment ² | 11 | 65 | 2.3 | 0.3 | 0.2 | -0.3 | 0.1 | 0.6 |
| Transformers and power regulators ² | 11 | 74 | 2.0 | 0.3 | 0.3 | 0.8 | 1.3 | 0.3 |
| Communication and related equipment..... | 11 | 76 | 2.6 | 0.4 | 0.0 | 0.5 | 0.1 | 0.5 |
| Electronic components and accessories..... | 11 | 78 | 0.6 | -0.2 | -1.1 | 0.2 | 0.2 | 0.1 |
| X-ray and electromedical equipment ² | 11 | 7905 | 2.8 | 0.0 | 0.1 | 0.0 | 1.2 | 0.0 |
| Oil field and gas field machinery ² | 11 | 91 | 7.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 |
| Mining machinery and equipment ² | 11 | 92 | 9.8 | 4.1 | 0.3 | 0.0 | 0.4 | -0.2 |
| Internal combustion engines ² | 11 | 94 | 6.8 | 0.3 | 0.0 | 0.1 | 1.8 | 0.0 |

See footnotes at end of table.

Table 2. Producer price index percentage changes for selected commodity groupings by Final Demand-Intermediate Demand category, seasonally adjusted — Continued
 [August 2023]

| Grouping | Commodity code | | Unadjusted 12-month percent change ¹ | Seasonally adjusted 1-month percent change ¹ | | | | |
|---|----------------|-----------|---|---|--------------|--------------------------|--------------------------|---------------------------|
| | Group code | Item code | | Aug. 2022 to Aug. 2023 ^P | Mar. to Apr. | Apr. to May ^P | May to June ^P | June to July ^P |
| Household furniture ² | 12 | 1 | 1.5 | -0.3 | -0.1 | 0.3 | 0.2 | 0.3 |
| Commercial furniture ² | 12 | 2 | 4.5 | -0.1 | 0.5 | -0.2 | 0.7 | -0.1 |
| Floor coverings ² | 12 | 3 | 0.4 | 0.4 | -0.2 | -0.4 | -0.1 | 0.0 |
| Household appliances ² | 12 | 4 | 1.9 | 0.2 | 0.7 | -0.1 | -0.3 | 1.0 |
| Home electronic equipment ² | 12 | 5 | 2.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Lawn and garden equipment excl. garden tractors ² | 12 | 66 | 3.3 | 0.3 | -0.3 | 0.0 | 0.0 | 0.0 |
| Passenger cars..... | 14 | 1101 | -1.7 | -0.8 | -0.3 | -0.7 | 0.2 | 0.3 |
| Light motor trucks..... | 14 | 1105 | 3.2 | -0.4 | 0.1 | -0.2 | 0.3 | 0.1 |
| Heavy motor trucks ² | 14 | 1106 | 1.9 | 0.1 | 0.1 | 0.3 | 0.4 | 0.0 |
| Motor vehicles parts ² | 14 | 12 | 1.3 | 0.2 | 0.2 | -0.1 | 0.2 | 0.0 |
| Truck trailers ² | 14 | 14 | -2.1 | 0.5 | -0.2 | 0.0 | -0.8 | 0.0 |
| Travel trailers and campers ² | 14 | 16 | 2.5 | 0.0 | 0.0 | 0.0 | 0.5 | 0.2 |
| Aircraft..... | 14 | 21 | 4.0 | 0.5 | 0.5 | 0.3 | 0.1 | 0.0 |
| Ships ² | 14 | 31 | 1.8 | 0.1 | 0.8 | 0.0 | 0.6 | 0.0 |
| Railroad equipment ² | 14 | 4 | 1.7 | 0.0 | 0.0 | 0.0 | 0.3 | 0.0 |
| Toys, games, and children's vehicles ² | 15 | 11 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Sporting and athletic goods ² | 15 | 12 | 8.5 | -0.3 | 0.4 | 0.0 | 0.0 | 2.2 |
| Cigarettes ² | 15 | 21 | 11.6 | 0.0 | 1.9 | 0.0 | 1.1 | 1.4 |
| Mobile homes ² | 15 | 5 | -3.6 | 0.0 | 0.4 | 0.2 | 0.0 | 0.0 |
| Medical, surgical & personal aid devices..... | 15 | 6 | 2.8 | -0.2 | 0.1 | 0.6 | -0.1 | 0.2 |
| Jewelry, platinum and karat gold ² | 15 | 9402 | 2.2 | 1.5 | 1.0 | -1.7 | -0.5 | -1.0 |
| Costume jewelry and novelties ² | 15 | 9404 | 7.1 | 1.1 | 0.9 | 0.0 | 0.0 | 0.0 |
| Final demand services..... | FD | 42 | 2.2 | 0.2 | 0.2 | -0.1 | 0.5 | 0.2 |
| Final demand trade services ³ | FD | 423 | -0.7 | 0.4 | 0.7 | -1.1 | 0.5 | -0.3 |
| Machinery and equipment parts and supplies wholesaling ² | 57 | 1102 | 8.7 | -2.7 | 2.8 | -1.8 | 0.7 | 2.2 |
| Machinery and vehicle wholesaling ² | 57 | 1103 | -2.5 | 1.2 | 0.8 | -5.5 | 2.0 | 0.2 |
| Professional and commercial equipment wholesaling ² | 57 | 1104 | 6.2 | -2.7 | 1.1 | -0.6 | -1.1 | 0.0 |
| Furnishings wholesaling ² | 57 | 2 | -2.7 | -0.3 | -6.9 | 1.1 | 0.7 | 0.0 |
| Chemicals and allied products wholesaling ² | 57 | 5 | -7.2 | 2.2 | -2.9 | -5.0 | 8.8 | -4.7 |
| Paper and plastics products wholesaling ² | 57 | 6 | 3.3 | 0.1 | 0.2 | -0.5 | -2.5 | 1.9 |
| Apparel wholesaling ² | 57 | 7 | 7.6 | 7.1 | -5.4 | 3.1 | -2.1 | 2.8 |
| Food and alcohol wholesaling ² | 57 | 8 | 0.5 | 2.8 | 2.2 | -2.3 | 0.5 | -1.3 |
| Food and alcohol retailing..... | 58 | 1 | 8.0 | -1.0 | 1.5 | 2.2 | -2.2 | 0.5 |
| Health, beauty, and optical goods retailing ² | 58 | 2 | 2.1 | -0.6 | 1.6 | -0.6 | 0.4 | -0.4 |
| Apparel, jewelry, footwear, and accessories retailing..... | 58 | 3 | 1.2 | -4.1 | 4.5 | -1.9 | -1.6 | 0.8 |
| Computer hardware, software, and supplies retailing ² | 58 | 4 | -22.5 | -2.3 | -0.6 | -1.7 | -0.2 | -0.2 |
| TV, video, and photographic equipment and supplies retailing..... | 58 | 5 | -12.6 | 1.3 | -9.0 | 12.9 | -8.2 | -6.2 |
| Automobiles retailing (partial)..... | 58 | 6101 | -27.5 | -2.4 | -1.2 | -3.4 | -2.3 | -1.4 |
| Automotive parts, including tires, retailing ² | 58 | 6102 | 2.0 | -3.8 | 0.8 | 1.6 | 0.1 | 0.7 |
| RVs, trailers, and campers retailing ² | 58 | 8 | -19.3 | -1.7 | 8.7 | -4.8 | 1.9 | -2.3 |
| Sporting goods, including boats, retailing..... | 58 | 9 | -3.6 | 2.9 | -1.4 | -1.2 | -1.9 | 0.1 |
| Lawn, garden, and farm equipment and supplies retailing ² | 58 | A | 9.3 | 1.5 | -1.3 | 0.1 | 2.6 | -0.1 |
| Furniture retailing ² | 58 | B | 5.2 | 2.0 | 0.9 | 2.7 | -2.9 | -1.5 |
| Flooring and floor coverings retailing ² | 58 | C | -2.2 | -0.1 | -0.5 | 0.9 | -0.8 | 0.0 |
| Hardware, building materials, and supplies retailing..... | 58 | D | 1.7 | -2.6 | 0.7 | 4.5 | 6.8 | 4.5 |
| Major household appliances retailing..... | 58 | E | 6.3 | 3.3 | -4.0 | -1.4 | -0.1 | 7.5 |
| Fuels and lubricants retailing..... | 58 | F | -16.9 | -1.0 | 12.1 | -1.8 | -9.2 | 3.7 |
| Cleaning supplies and paper products retailing ² | 58 | G | 13.4 | 6.1 | -1.9 | 3.6 | -3.7 | 4.9 |
| Book retailing ² | 58 | H | -1.6 | 0.1 | 0.3 | 0.5 | 0.9 | 0.0 |
| Final demand transportation and warehousing services..... | FD | 422 | -4.1 | -2.5 | -0.5 | 0.0 | 0.2 | 1.4 |
| Rail transportation of freight and mail ² | 30 | 11 | -0.9 | -0.2 | -0.9 | -0.4 | -0.1 | 0.4 |
| Truck transportation of freight ² | 30 | 12 | -9.6 | -3.0 | -0.5 | -0.7 | -0.8 | 1.6 |
| Air transportation of freight ² | 30 | 14 | -7.4 | 0.4 | -1.4 | -0.8 | 1.0 | 0.9 |
| Courier, messenger, and U.S. postal services..... | 30 | 16 | 6.0 | 0.0 | 0.1 | -0.1 | 1.7 | 1.2 |
| Rail transportation of passengers..... | 30 | 21 | 0.0 | -0.1 | 0.1 | -0.2 | 0.1 | 0.2 |
| Airline passenger services..... | 30 | 22 | 4.0 | -3.1 | -1.0 | 2.0 | 1.6 | 1.3 |
| Final demand services less trade, transportation, and warehousing..... | FD | 421 | 4.4 | 0.5 | 0.0 | 0.3 | 0.6 | 0.3 |
| Sales of books..... | 33 | 11 | 6.1 | 1.1 | 0.3 | 0.5 | 0.6 | -0.1 |
| Sales and subscriptions of periodicals and newspapers..... | 33 | 12 | 2.6 | 0.0 | 0.3 | -0.3 | 0.2 | 0.9 |
| Application software publishing ² | 34 | 2 | 0.6 | -0.4 | 1.3 | 0.0 | -1.9 | 1.6 |
| Advertising space sales in periodicals, newspapers, directories, and mailing lists ² | 36 | 1 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Residential wired telecommunication services ² | 37 | 11 | 6.9 | 1.3 | 1.4 | 0.2 | -0.1 | 0.5 |
| Wireless telecommunication services..... | 37 | 2 | 0.5 | 0.1 | 0.6 | 0.2 | 0.1 | -1.1 |
| Cable and satellite subscriber services..... | 37 | 3 | 11.4 | 0.7 | 0.2 | 1.1 | -0.1 | 1.1 |
| Internet access services ² | 37 | 4 | 0.6 | -0.1 | -0.8 | 0.6 | -0.2 | -0.7 |

See footnotes at end of table.

Table 2. Producer price index percentage changes for selected commodity groupings by Final Demand-Intermediate Demand category, seasonally adjusted — Continued
[August 2023]

| Grouping | Commodity code | | Unadjusted 12-month percent change ¹ | Seasonally adjusted 1-month percent change ¹ | | | | |
|--|----------------|-----------|---|---|--------------|--------------------------|--------------------------|---------------------------|
| | Group code | Item code | | Aug. 2022 to Aug. 2023 ^P | Mar. to Apr. | Apr. to May ^P | May to June ^P | June to July ^P |
| Bundled wired telecommunications access services ² | 37 | 5 | 6.8 | 0.0 | -1.5 | 0.0 | -0.3 | 1.5 |
| Consumer loans (partial)..... | 39 | 12 | -1.3 | 3.0 | -0.4 | -2.6 | -0.7 | 3.4 |
| Deposit services (partial) ² | 39 | 2 | 20.9 | 0.6 | 0.1 | 5.6 | -0.6 | -2.3 |
| Other credit intermediation, incl. trust services (partial) ² | 39 | 3 | 3.8 | 0.2 | 1.3 | 0.0 | 0.0 | 2.6 |
| Securities brokerage, dealing, investment advice, and related services ² ... | 40 | 1 | 27.1 | -0.4 | 3.2 | 0.0 | 1.6 | 1.6 |
| Portfolio management ² | 40 | 2 | 8.0 | 4.3 | -3.0 | -0.3 | 7.3 | 0.5 |
| Life insurance ² | 41 | 1101 | -1.1 | 0.0 | -0.5 | 0.0 | -0.3 | 0.0 |
| Disability insurance, including accidental death ² | 41 | 1102 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Health and medical insurance..... | 41 | 1103 | 3.3 | 0.2 | 0.0 | 0.2 | 0.0 | 0.5 |
| Property and casualty insurance ² | 41 | 1104 | 7.0 | 0.6 | 0.5 | 2.1 | 0.1 | 0.2 |
| Annuities ² | 41 | 2 | 0.3 | 0.3 | 0.0 | -0.1 | 0.5 | 0.0 |
| Residential property sales and leases, brokerage fees and commissions.. | 43 | 21 | 4.4 | 0.9 | 1.0 | 0.8 | 0.5 | 1.4 |
| Passenger car rental..... | 44 | 1 | -6.1 | 2.6 | -3.1 | -2.7 | 0.5 | 1.0 |
| Legal services..... | 45 | 1 | 6.1 | 0.2 | -0.2 | 0.3 | 0.7 | 0.2 |
| Tax preparation and planning..... | 45 | 2102 | 6.8 | 0.3 | 0.6 | -0.9 | 1.7 | 0.8 |
| Architectural and engineering services..... | 45 | 3 | 3.1 | 0.7 | 0.3 | 0.2 | 0.3 | 0.1 |
| Management, scientific, and technical consulting services..... | 45 | 4 | 2.8 | 2.3 | -0.7 | 2.9 | -1.5 | 0.1 |
| Arrangement of flights (partial)..... | 47 | 1 | -0.8 | -3.8 | 0.1 | -0.9 | 1.7 | -0.2 |
| Arrangement of vehicle rentals and lodging ² | 47 | 2 | 4.5 | 0.1 | -1.2 | -1.0 | -1.5 | 0.4 |
| Arrangement of cruises and tours ² | 47 | 3 | 8.5 | 1.9 | 1.9 | 5.0 | 1.5 | 0.7 |
| Physician care..... | 51 | 1101 | 0.7 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 |
| Medical laboratory and diagnostic imaging care ² | 51 | 1102 | 0.4 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Home health and hospice care..... | 51 | 1103 | 6.0 | 1.8 | 0.1 | 0.3 | 0.4 | 0.4 |
| Hospital outpatient care ² | 51 | 1104 | 2.5 | 0.7 | 0.2 | -0.2 | 1.5 | -0.1 |
| Dental care..... | 51 | 1105 | 3.7 | -0.2 | 0.0 | 0.0 | 0.1 | 0.8 |
| Hospital inpatient care..... | 51 | 2101 | 3.4 | 0.3 | 0.3 | 0.4 | 0.0 | -0.3 |
| Nursing home care..... | 51 | 2102 | 5.7 | -0.2 | 0.2 | 0.0 | 1.4 | 0.1 |
| Traveler accommodation services..... | 53 | 11 | 6.0 | 1.1 | -3.0 | 2.4 | 0.3 | 0.5 |
| Food and beverages for immediate consumption services (partial) ² | 54 | 1 | 2.1 | 0.4 | 0.0 | 0.0 | 0.2 | 0.7 |
| Motor vehicle repair and maintenance (partial)..... | 55 | 2 | 5.9 | 0.4 | 0.4 | 0.4 | -0.3 | 1.2 |
| Membership dues and admissions and recreation facility use fees (partial) ² | 56 | 1 | 4.8 | 0.2 | -1.7 | -0.1 | 0.4 | -1.4 |
| Recreational activity instruction fees (partial) ² | 56 | 2 | 0.1 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 |
| Gaming receipts (partial) ² | 56 | 3 | 0.3 | -1.7 | 0.2 | 0.0 | -1.0 | -0.7 |
| Mining services ² | 60 | 1 | 3.9 | -0.7 | -0.5 | -0.1 | 0.0 | -0.2 |
| Final demand construction..... | FD | 43 | 3.9 | -0.2 | 0.1 | 0.0 | -1.2 | 0.2 |
| New warehouse building construction ² | 80 | 1101 | 1.6 | -0.3 | 0.4 | 0.2 | -0.8 | 0.2 |
| New school building construction ² | 80 | 1102 | 3.8 | -0.4 | 0.0 | 0.0 | -1.0 | 0.0 |
| New office building construction ² | 80 | 1103 | 5.7 | 0.2 | 0.1 | 0.0 | -2.0 | 0.3 |
| New industrial building construction ² | 80 | 1104 | 3.1 | -0.5 | 0.0 | 0.2 | -1.4 | 0.3 |
| New health care building construction ² | 80 | 1105 | 4.3 | -0.3 | 0.0 | -0.1 | -0.8 | 0.1 |
| Intermediate Demand by Commodity Type | | | | | | | | |
| Processed goods for intermediate demand..... | ID6 | 1 | -4.3 | -0.5 | -1.5 | -0.5 | -0.3 | 2.1 |
| Processed foods and feeds..... | ID6 | 9112 | -4.4 | -1.1 | -1.9 | -1.1 | 1.3 | 0.7 |
| Meats..... | 02 | 21 | 7.2 | -3.2 | 1.9 | 0.9 | 5.0 | -2.4 |
| Processed poultry..... | 02 | 22 | -25.9 | -1.6 | -3.3 | -0.3 | -2.9 | 1.0 |
| Dairy products..... | 02 | 3 | -9.7 | -0.2 | -1.3 | -2.2 | -1.5 | 1.9 |
| Processed fruits and vegetables ² | 02 | 4 | 12.2 | 0.3 | 1.2 | 1.0 | 0.0 | 0.6 |
| Refined sugar and byproducts ² | 02 | 53 | 13.3 | 0.1 | 1.1 | 0.8 | 0.8 | 1.4 |
| Fats and oils ² | 02 | 7 | -19.3 | -5.4 | -3.4 | -5.6 | 1.3 | 5.1 |
| Prepared animal feeds..... | 02 | 9 | -3.5 | -1.4 | -2.2 | -0.9 | 2.1 | 0.3 |
| Processed materials less foods and feeds..... | ID6 | 9111 | -4.3 | -0.5 | -1.5 | -0.4 | -0.5 | 2.3 |
| Synthetic fibers ² | 03 | 1 | -3.0 | 0.0 | -1.4 | -0.8 | 1.5 | -3.0 |
| Processed yarns and threads ² | 03 | 2 | -14.5 | -1.0 | -1.0 | 0.3 | 0.3 | -0.2 |
| Finished fabrics ² | 03 | 4 | -1.5 | -0.6 | -0.2 | -0.2 | -0.2 | -0.1 |
| Liquefied petroleum gas ² | 05 | 32 | -41.1 | -3.1 | -17.4 | -6.1 | 26.2 | 6.0 |
| Commercial electric power..... | 05 | 42 | 4.1 | 0.0 | 0.8 | 0.8 | -0.1 | 0.0 |
| Industrial electric power..... | 05 | 43 | 5.0 | -1.6 | 2.2 | 0.8 | -0.8 | 0.1 |
| Commercial natural gas..... | 05 | 52 | -21.9 | -6.0 | -6.0 | -2.4 | 3.4 | -0.2 |
| Industrial natural gas..... | 05 | 53 | -25.5 | -6.5 | -6.5 | -2.4 | 9.2 | -1.3 |
| Natural gas to electric utilities..... | 05 | 54 | -21.4 | -5.7 | -10.6 | -2.6 | 4.8 | 0.1 |
| Gasoline..... | 05 | 71 | 1.7 | 8.1 | -13.6 | 3.1 | 0.3 | 20.0 |
| Jet fuel ² | 05 | 7203 | -12.8 | -12.7 | -11.6 | 1.8 | 4.6 | 23.6 |
| No. 2 diesel fuel..... | 05 | 7303 | -14.4 | -3.6 | -13.6 | -5.5 | -5.7 | 41.1 |
| Residual fuels ² | 05 | 74 | -20.1 | -1.0 | 11.2 | -9.8 | 4.5 | 5.4 |

See footnotes at end of table.

Table 2. Producer price index percentage changes for selected commodity groupings by Final Demand-Intermediate Demand category, seasonally adjusted — Continued
[August 2023]

| Grouping | Commodity code | | Unadjusted 12-month percent change ¹ | Seasonally adjusted 1-month percent change ¹ | | | | |
|--|----------------|-----------|---|---|--------------|--------------------------|--------------------------|---------------------------|
| | Group code | Item code | | Aug. 2022 to Aug. 2023 ^P | Mar. to Apr. | Apr. to May ^P | May to June ^P | June to July ^P |
| Finished lubricants ² | 05 | 76 | 4.5 | -0.9 | 0.1 | 1.3 | -0.3 | -0.1 |
| Lubricating oil base stocks ² | 05 | 78 | -36.9 | -2.0 | -12.7 | 1.6 | -1.7 | -0.5 |
| Asphalt..... | 05 | 8102 | -34.6 | 9.7 | 4.6 | -0.3 | -5.8 | -1.0 |
| Basic inorganic chemicals ² | 06 | 13 | -6.5 | -1.6 | -1.6 | -1.2 | -3.5 | -1.4 |
| Basic organic chemicals..... | 06 | 14 | -16.6 | -0.3 | -2.1 | -2.1 | -2.6 | -1.2 |
| Prepared paint ² | 06 | 21 | 0.6 | 0.2 | 0.1 | 0.0 | -0.2 | 0.0 |
| Paint materials ² | 06 | 22 | 1.1 | -0.3 | 2.1 | 1.0 | -3.9 | 0.0 |
| Medicinal and botanical chemicals ² | 06 | 31 | 0.6 | 0.1 | 0.0 | -0.1 | 0.0 | -0.4 |
| Biological products, including diagnostics..... | 06 | 37 | 5.2 | 0.7 | -0.4 | 0.3 | 1.2 | 0.1 |
| Fats and oils, inedible ² | 06 | 4 | -10.9 | -3.1 | -4.1 | 0.5 | 7.0 | 2.7 |
| Nitrogenates..... | 06 | 5201 | -47.1 | -9.0 | -6.5 | -11.2 | 2.7 | -5.3 |
| Phosphates..... | 06 | 5202 | -28.9 | 2.0 | -4.7 | 0.2 | -18.7 | 7.4 |
| Other agricultural chemicals ² | 06 | 53 | -17.2 | -4.9 | -2.3 | -1.3 | -0.1 | -0.1 |
| Plastic resins and materials..... | 06 | 6 | -13.4 | 2.3 | -1.7 | -2.5 | -4.3 | -1.4 |
| Industrial gases ² | 06 | 7903 | 3.1 | -0.8 | 1.2 | -1.6 | 2.6 | 1.5 |
| Adhesives and sealants ² | 06 | 7904 | 2.8 | 0.6 | 0.1 | -0.2 | 0.0 | -0.2 |
| Synthetic rubber ² | 07 | 1102 | -18.3 | 1.2 | -1.0 | -2.8 | -5.6 | 0.1 |
| Tires ² | 07 | 1201 | 5.0 | 0.1 | -0.2 | -0.3 | -0.2 | 0.0 |
| Plastic construction products ² | 07 | 21 | -5.2 | -0.2 | -0.9 | -0.8 | 0.0 | -0.2 |
| Unsupported plastic film, sheet, other shapes ² | 07 | 22 | -8.8 | 0.5 | -0.3 | -1.6 | -1.6 | -1.0 |
| Parts for manufacturing from plastics ² | 07 | 26 | -2.2 | -0.4 | -0.4 | -0.2 | -0.1 | -0.1 |
| Plastic packaging products ² | 07 | 2A | -6.0 | 0.0 | 0.1 | -0.4 | -0.3 | -0.3 |
| Softwood lumber..... | 08 | 11 | -18.0 | 6.2 | -2.9 | 3.9 | 8.6 | -5.3 |
| Hardwood lumber ² | 08 | 12 | -16.4 | -0.8 | 0.3 | -1.6 | -1.2 | -2.3 |
| Millwork..... | 08 | 2 | -6.6 | -1.2 | -0.4 | -0.3 | -0.1 | -0.9 |
| Plywood ² | 08 | 3 | -14.4 | -0.5 | -0.8 | -0.7 | -0.8 | 0.5 |
| Paper ² | 09 | 13 | 0.5 | 0.8 | -0.6 | -0.3 | -0.8 | 0.0 |
| Paperboard ² | 09 | 14 | -4.8 | -0.8 | -0.1 | -0.3 | -0.9 | -0.4 |
| Paper boxes and containers ² | 09 | 1503 | -1.8 | -0.5 | 0.6 | -1.1 | -0.3 | -0.7 |
| Building paper and board ² | 09 | 2 | -4.5 | 2.1 | 6.1 | 2.4 | 6.0 | 4.2 |
| Commercial printing ² | 09 | 47 | 4.8 | -0.3 | 0.3 | 0.0 | 0.0 | 0.2 |
| Foundry and forge shop products ² | 10 | 15 | 1.5 | 0.8 | -0.3 | -0.2 | -0.9 | 0.0 |
| Steel mill products ² | 10 | 17 | -14.8 | 3.6 | 5.3 | -0.4 | -4.7 | -0.5 |
| Primary nonferrous metals ² | 10 | 22 | -1.2 | 0.9 | 3.0 | -0.2 | 2.1 | -5.7 |
| Secondary nonferrous metals ² | 10 | 24 | -4.4 | -0.4 | -0.5 | -2.3 | -1.2 | -1.4 |
| Aluminum mill shapes ² | 10 | 2501 | -5.6 | -1.8 | 0.4 | -1.0 | -1.3 | -1.4 |
| Copper and brass mill shapes ² | 10 | 2502 | 4.8 | -0.9 | -2.2 | -1.9 | -0.1 | 1.5 |
| Nonferrous wire and cable ² | 10 | 26 | 0.8 | 0.0 | -1.6 | -1.7 | 0.2 | 1.0 |
| Nonferrous foundry shop products..... | 10 | 28 | 3.8 | 0.8 | -0.2 | -0.1 | 0.2 | 0.3 |
| Metal containers ² | 10 | 3 | -3.5 | 0.2 | 0.3 | -0.1 | 0.0 | -1.6 |
| Hardware ² | 10 | 4 | 2.4 | 0.0 | 0.0 | 0.2 | 0.1 | 0.0 |
| Plumbing fixtures and brass fittings..... | 10 | 5 | 2.3 | -0.6 | 0.7 | 0.1 | 0.6 | 0.5 |
| Heating equipment ² | 10 | 6 | 5.4 | 0.3 | -0.3 | 0.2 | 0.1 | 0.2 |
| Fabricated structural metal products..... | 10 | 7 | -1.5 | 0.1 | -0.5 | -0.6 | 0.4 | 0.1 |
| Bolts, nuts, screws, rivets, and washers ² | 10 | 81 | 4.6 | 0.4 | 0.8 | 0.6 | 0.8 | -0.4 |
| Lighting fixtures ² | 10 | 83 | 3.9 | 0.0 | 0.4 | 0.1 | 0.5 | -0.1 |
| Fabricated ferrous wire products ² | 10 | 88 | -8.9 | 0.3 | -0.1 | -0.8 | -1.3 | -0.7 |
| Other miscellaneous metal products ² | 10 | 89 | 2.6 | 0.1 | -0.1 | 0.4 | 0.2 | -0.5 |
| Fluid power equipment..... | 11 | 43 | 10.9 | 6.5 | -0.1 | 0.3 | 0.4 | -0.4 |
| Mechanical power transmission equipment ² | 11 | 45 | 6.2 | 0.2 | 0.4 | 0.2 | 0.0 | 0.2 |
| Air conditioning and refrigeration equipment..... | 11 | 48 | 4.4 | 0.0 | 0.9 | -0.9 | 0.5 | 0.5 |
| Metal valves, except fluid power..... | 11 | 4902 | 5.7 | -0.1 | 1.0 | 0.3 | 0.1 | 0.8 |
| Ball and roller bearings ² | 11 | 4905 | 1.0 | -0.2 | 0.0 | 0.1 | 0.0 | -0.4 |
| Wiring devices ² | 11 | 71 | 11.9 | -0.3 | 0.2 | 0.6 | 0.0 | 0.6 |
| Motors, generators, motor generator sets ² | 11 | 73 | 7.5 | 0.5 | 0.0 | 0.0 | 1.4 | 1.0 |
| Switchgear, switchboard, and industrial controls equip. ² | 11 | 75 | 6.7 | 0.5 | 0.1 | 1.1 | 0.3 | 0.4 |
| Electronic components and accessories..... | 11 | 78 | 0.6 | -0.2 | -1.1 | 0.2 | 0.2 | 0.1 |
| Internal combustion engines ² | 11 | 94 | 6.8 | 0.3 | 0.0 | 0.1 | 1.8 | 0.0 |
| Machine shop products ² | 11 | 95 | 4.6 | 0.2 | 0.5 | 0.2 | 0.1 | 0.1 |
| Flat glass ² | 13 | 11 | 2.3 | -0.3 | -0.6 | 0.4 | -0.7 | -1.2 |
| Cement..... | 13 | 22 | 11.0 | -1.3 | 1.1 | -0.1 | 0.8 | 0.1 |
| Concrete products..... | 13 | 3 | 8.7 | 0.1 | 1.2 | 0.2 | 0.1 | 0.5 |
| Asphalt felts and coatings ² | 13 | 6 | 3.1 | 1.9 | 0.5 | 1.6 | 0.9 | -1.0 |
| Paving mixtures and blocks..... | 13 | 94 | -1.3 | -1.0 | -1.9 | -1.1 | -0.6 | 1.0 |
| Motor vehicle parts ² | 14 | 12 | 1.3 | 0.2 | 0.2 | -0.1 | 0.2 | 0.0 |
| Aircraft engines and engine parts..... | 14 | 23 | 2.9 | 0.3 | 0.1 | 0.0 | 0.4 | 0.1 |

See footnotes at end of table.

Table 2. Producer price index percentage changes for selected commodity groupings by Final Demand-Intermediate Demand category, seasonally adjusted — Continued
 [August 2023]

| Grouping | Commodity code | | Unadjusted 12-month percent change ¹ | Seasonally adjusted 1-month percent change ¹ | | | | |
|---|----------------|-----------|---|---|--------------|--------------------------|--------------------------|---------------------------|
| | Group code | Item code | | Aug. 2022 to Aug. 2023 ^P | Mar. to Apr. | Apr. to May ^P | May to June ^P | June to July ^P |
| Aircraft parts and auxiliary equipment, n.e.c..... | 14 | 25 | 5.5 | 0.0 | 0.1 | 0.0 | 0.1 | 0.0 |
| Medical, surgical, and personal aid devices..... | 15 | 6 | 2.8 | -0.2 | 0.1 | 0.6 | -0.1 | 0.2 |
| Unprocessed goods for intermediate demand..... | ID6 | 2 | -26.9 | 1.1 | -5.3 | -1.0 | 2.4 | 1.3 |
| Unprocessed foodstuffs and feedstuffs..... | ID6 | 21 | -14.5 | -1.5 | -4.6 | 1.0 | -0.8 | -2.3 |
| Wheat ² | 01 | 21 | -14.6 | 4.0 | -3.3 | -3.9 | 1.7 | -7.9 |
| Corn..... | 01 | 2202 | -26.1 | 2.4 | -6.0 | 3.4 | -10.7 | -2.0 |
| Slaughter cattle..... | 01 | 31 | 28.1 | 8.0 | -0.5 | 6.0 | 2.4 | 1.6 |
| Slaughter hogs..... | 01 | 32 | -27.6 | -8.0 | -4.9 | 12.2 | 8.5 | -2.4 |
| Slaughter chickens..... | 01 | 4102 | -18.0 | -0.1 | -0.4 | -0.6 | -7.1 | 0.8 |
| Slaughter turkeys..... | 01 | 42 | -21.6 | -2.4 | -2.1 | -8.5 | -8.3 | -10.4 |
| Raw milk..... | 01 | 6 | -31.3 | -3.8 | -5.9 | -6.3 | -0.4 | -3.4 |
| Hay and hayseeds ² | 01 | 81 | -23.8 | -15.3 | 3.4 | 4.1 | 0.3 | -18.2 |
| Oilseeds..... | 01 | 8301 | -11.8 | 0.5 | -1.2 | -6.9 | 9.0 | -4.3 |
| Raw cane sugar and byproducts ² | 02 | 5201 | 12.9 | -0.2 | -2.5 | 6.8 | -2.0 | 0.6 |
| Unprocessed nonfood materials..... | ID6 | 22 | -32.2 | 2.8 | -5.7 | -2.3 | 4.6 | 3.6 |
| Raw cotton ² | 01 | 51 | -26.7 | -0.3 | -3.2 | 0.5 | -1.1 | 4.6 |
| Hides and skins..... | 04 | 1 | -4.9 | 3.1 | 4.7 | -1.7 | -6.1 | 3.0 |
| Coal..... | 05 | 1 | -4.3 | 1.7 | -2.9 | 0.8 | 3.5 | 0.8 |
| Natural gas ² | 05 | 31 | -77.7 | -22.8 | -2.0 | 2.2 | 19.6 | -6.3 |
| Crude petroleum ² | 05 | 61 | -12.5 | 11.2 | -9.8 | -4.2 | 8.7 | 8.9 |
| Logs, bolts, timber, pulpwood, and woodchips ² | 08 | 5 | -3.0 | -0.7 | 0.0 | 0.1 | -0.5 | 0.5 |
| Recyclable paper ² | 09 | 12 | -51.1 | 6.2 | 2.6 | 1.9 | -0.4 | 1.8 |
| Iron ores ² | 10 | 11 | -3.3 | 1.0 | -6.4 | 0.3 | -0.7 | 0.0 |
| Iron and steel scrap..... | 10 | 12 | 1.8 | 6.0 | -6.0 | -10.8 | 4.5 | 6.4 |
| Nonferrous metal ores ² | 10 | 21 | -4.7 | 0.6 | -1.4 | -2.3 | -4.5 | -2.7 |
| Copper base scrap ² | 10 | 2301 | 9.5 | -0.4 | -2.7 | 0.5 | -0.1 | -1.1 |
| Aluminum base scrap..... | 10 | 2302 | -1.7 | -1.4 | 7.6 | 1.0 | -0.2 | 1.0 |
| Construction sand, gravel, and crushed stone..... | 13 | 21 | 8.2 | 0.0 | 0.1 | 0.8 | 0.2 | 0.7 |
| Services for intermediate demand..... | ID6 | 3 | 4.2 | 0.7 | 0.1 | 0.0 | 0.5 | 0.1 |
| Trade services for intermediate demand ³ | ID6 | 33 | 1.4 | 0.8 | -0.4 | -0.8 | 1.4 | -0.3 |
| Machinery and equipment parts and supplies wholesaling ² | 57 | 1102 | 8.7 | -2.7 | 2.8 | -1.8 | 0.7 | 2.2 |
| Building materials, paint, and hardware wholesaling..... | 57 | 3 | -7.8 | -1.7 | -0.9 | -0.1 | -1.0 | 1.4 |
| Metals, minerals, and ores wholesaling ² | 57 | 4 | -1.1 | 2.1 | -9.8 | -1.7 | -3.7 | -2.9 |
| Chemicals and allied products wholesaling ² | 57 | 5 | -7.2 | 2.2 | -2.9 | -5.0 | 8.8 | -4.7 |
| Paper and plastics products wholesaling ² | 57 | 6 | 3.3 | 0.1 | 0.2 | -0.5 | -2.5 | 1.9 |
| Food wholesaling ² | 57 | 8101 | -0.2 | 3.2 | 2.5 | -2.5 | 0.6 | -1.5 |
| Automotive parts, including tires, retailing ² | 58 | 6102 | 2.0 | -3.8 | 0.8 | 1.6 | 0.1 | 0.7 |
| Hardware, building material, and supplies retailing..... | 58 | D | 1.7 | -2.6 | 0.7 | 4.5 | 6.8 | 4.5 |
| Transportation and warehousing services for intermediate demand..... | ID6 | 32 | -2.7 | -1.1 | -0.4 | 0.0 | 0.6 | -0.2 |
| Rail transportation of freight and mail ² | 30 | 11 | -0.9 | -0.2 | -0.9 | -0.4 | -0.1 | 0.4 |
| Truck transportation of freight ² | 30 | 12 | -9.6 | -3.0 | -0.5 | -0.7 | -0.8 | 1.6 |
| Water transportation of freight ² | 30 | 13 | -1.6 | 0.2 | 5.6 | -2.1 | -1.8 | 1.7 |
| Air transportation of freight ² | 30 | 14 | -7.4 | 0.4 | -1.4 | -0.8 | 1.0 | 0.9 |
| U.S. Postal Service ² | 30 | 1601 | 9.0 | 0.0 | 0.0 | 0.0 | 3.8 | 0.0 |
| Courier and messenger services, except air mail..... | 30 | 1602 | 4.4 | 0.1 | 0.6 | 0.1 | 0.6 | 1.1 |
| Air mail and package delivery services, excluding by USPS..... | 30 | 1603 | 3.6 | 0.0 | -0.8 | -0.5 | 0.6 | 3.2 |
| Pipeline transportation ² | 30 | 17 | 5.3 | -1.1 | 0.2 | -1.2 | 3.8 | 0.1 |
| Transportation of passengers (partial)..... | 30 | 2 | 3.9 | -3.1 | -1.0 | 2.0 | 1.6 | 1.3 |
| Services related to water transportation..... | 31 | 1 | 2.1 | -0.1 | 1.4 | -0.4 | 0.0 | 0.2 |
| Arrangement of freight and cargo ² | 31 | 31 | -42.8 | -4.1 | -2.0 | 3.3 | -2.2 | -15.0 |
| Warehousing, storage, and related services ² | 32 | 1 | 8.5 | 0.1 | -3.1 | -1.5 | 1.4 | -1.1 |
| Services less trade, transportation, and warehousing for intermediate demand..... | ID6 | 31 | 6.6 | 1.0 | 0.4 | 0.2 | 0.2 | 0.3 |
| Network compensation from broadcast TV, cable TV, radio ² | 35 | - | 0.5 | 0.0 | 0.2 | -0.3 | 0.0 | 0.0 |
| Advertising space sales in periodicals and newspapers ² | 36 | 11 | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Advertising space sales in directories and mail lists ² | 36 | 12 | 9.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Television advertising time sales..... | 36 | 2 | -20.3 | 2.8 | -0.9 | -2.1 | -1.1 | -8.2 |
| Radio advertising time sales..... | 36 | 3 | -2.8 | -1.2 | 6.0 | -2.7 | -7.3 | 4.8 |
| Internet advertising sales ² | 36 | 6 | - | 6.7 | 0.0 | 0.0 | -0.2 | 0.0 |
| Business wired telecommunication services ² | 37 | 12 | 2.9 | 0.7 | 0.0 | -0.6 | 1.1 | 0.5 |
| Wireless telecommunication services..... | 37 | 2 | 0.5 | 0.1 | 0.6 | 0.2 | 0.1 | -1.1 |
| Cable and satellite subscriber services..... | 37 | 3 | 11.4 | 0.7 | 0.2 | 1.1 | -0.1 | 1.1 |
| Bundled wired telecommunication access services ² | 37 | 5 | 6.8 | 0.0 | -1.5 | 0.0 | -0.3 | 1.5 |
| Data processing and related services ² | 38 | 1 | 2.0 | -0.1 | 0.1 | 0.3 | 0.3 | 0.1 |
| Business loans (partial)..... | 39 | 11 | 41.9 | 2.7 | 3.4 | -1.9 | -1.9 | -1.7 |

See footnotes at end of table.

Table 2. Producer price index percentage changes for selected commodity groupings by Final Demand-Intermediate Demand category, seasonally adjusted — Continued
 [August 2023]

| Grouping | Commodity code | | Unadjusted 12-month percent change ¹ | Seasonally adjusted 1-month percent change ¹ | | | | |
|--|----------------|-----------|---|---|--------------|--------------------------|--------------------------|---------------------------|
| | Group code | Item code | | Aug. 2022 to Aug. 2023 ^P | Mar. to Apr. | Apr. to May ^P | May to June ^P | June to July ^P |
| Deposit services (partial) ² | 39 | 2 | 20.9 | 0.6 | 0.1 | 5.6 | -0.6 | -2.3 |
| Other credit intermediation, incl. trust services (partial) ² | 39 | 3 | 3.8 | 0.2 | 1.3 | 0.0 | 0.0 | 2.6 |
| Securities brokerage, dealing, investment advice, and related services ² | 40 | 1 | 27.1 | -0.4 | 3.2 | 0.0 | 1.6 | 1.6 |
| Portfolio management ² | 40 | 2 | 8.0 | 4.3 | -3.0 | -0.3 | 7.3 | 0.5 |
| Investment banking ² | 40 | 3 | 9.2 | -0.8 | 1.4 | -0.4 | -0.1 | 1.9 |
| Life insurance ² | 41 | 1101 | -1.1 | 0.0 | -0.5 | 0.0 | -0.3 | 0.0 |
| Health and medical insurance..... | 41 | 1103 | 3.3 | 0.2 | 0.0 | 0.2 | 0.0 | 0.5 |
| Property and casualty insurance ² | 41 | 1104 | 7.0 | 0.6 | 0.5 | 2.1 | 0.1 | 0.2 |
| Annuities ² | 41 | 2 | 0.3 | 0.3 | 0.0 | -0.1 | 0.5 | 0.0 |
| Commissions from sales of insurance ² | 42 | 1 | 0.3 | 0.0 | 0.0 | 0.0 | -0.5 | 0.0 |
| Nonresidential real estate rents ² | 43 | 11 | 2.4 | 2.5 | 0.3 | 1.5 | -0.9 | 3.6 |
| Nonresidential property sales and leases ² | 43 | 12 | -2.1 | -0.4 | -0.3 | 0.3 | -0.6 | 0.3 |
| Residential property management fees ² | 43 | 22 | 1.6 | 0.5 | 0.7 | -0.2 | 0.8 | 0.1 |
| Passenger car rental..... | 44 | 1 | -6.1 | 2.6 | -3.1 | -2.7 | 0.5 | 1.0 |
| Truck, utility trailer, and RV rental and leasing ² | 44 | 2 | -0.8 | 0.2 | -1.4 | 2.3 | -0.9 | -0.4 |
| Construction, mining, and forestry machinery and equipment rental and leasing ² | 44 | 3 | 3.1 | 0.2 | 0.2 | -0.2 | 0.1 | -0.1 |
| Legal services..... | 45 | 1 | 6.1 | 0.2 | -0.2 | 0.3 | 0.7 | 0.2 |
| Accounting services (partial)..... | 45 | 2 | 8.3 | 0.9 | 0.1 | -0.5 | 2.2 | 0.6 |
| Architectural and engineering services..... | 45 | 3 | 3.1 | 0.7 | 0.3 | 0.2 | 0.3 | 0.1 |
| Management, scientific, and technical consulting services..... | 45 | 4 | 2.8 | 2.3 | -0.7 | 2.9 | -1.5 | 0.1 |
| Advertising and related services (partial) ² | 45 | 5 | 0.9 | 0.0 | 0.3 | -0.1 | 0.0 | 0.0 |
| Permanent placement services ² | 46 | 1 | 1.5 | 2.4 | -1.0 | -0.5 | 0.4 | -0.1 |
| Executive search services ² | 46 | 2 | 8.6 | -0.7 | -0.5 | 1.1 | 0.3 | 4.9 |
| Staffing services..... | 46 | 3 | 0.5 | 0.7 | 0.0 | -0.3 | -0.1 | -0.2 |
| Security guard services ² | 48 | 1 | 10.7 | 0.1 | 2.1 | 0.1 | 0.2 | 3.2 |
| Janitorial services ² | 49 | 1 | 2.0 | 0.9 | -0.2 | 0.0 | -0.1 | 0.0 |
| Waste collection..... | 50 | 1 | 9.4 | 1.1 | 0.7 | 0.5 | -0.1 | 0.2 |
| Traveler accommodation services..... | 53 | 11 | 6.0 | 1.1 | -3.0 | 2.4 | 0.3 | 0.5 |
| Commercial and industrial machinery and equipment repair and maintenance..... | 55 | 1 | 6.1 | 1.9 | -0.4 | 0.1 | 0.9 | 0.0 |
| Aircraft repair and maintenance..... | 55 | 4 | 4.9 | 0.4 | 0.2 | 0.2 | 0.5 | 0.4 |
| Metal treatment services ² | 59 | 1 | 5.0 | 0.7 | 0.6 | -0.2 | 0.9 | 0.2 |
| Construction for intermediate demand..... | ID6 | 4 | 4.6 | 0.1 | 1.4 | 0.1 | 0.3 | 0.3 |
| Maintenance and repair of non-residential buildings (partial) ² | 80 | 2 | 4.6 | 0.1 | 1.4 | 0.1 | 0.3 | 0.3 |
| Intermediate Demand by Production Flow | | | | | | | | |
| Stage 4 intermediate demand..... | ID5 | 4 | 2.3 | 0.3 | -0.2 | -0.1 | 0.4 | 0.6 |
| Stage 4 intermediate demand goods..... | ID5 | 9411 | -0.8 | -0.2 | -0.5 | 0.0 | -0.1 | 0.6 |
| Grains..... | 01 | 2 | -23.1 | 2.7 | -5.5 | 1.9 | -8.7 | -2.8 |
| Meats..... | 02 | 21 | 7.2 | -3.2 | 1.9 | 0.9 | 5.0 | -2.4 |
| Unprocessed and packaged fish..... | 02 | 23 | -2.6 | -1.4 | 1.3 | -1.9 | 0.6 | -1.1 |
| Dairy products..... | 02 | 3 | -9.7 | -0.2 | -1.3 | -2.2 | -1.5 | 1.9 |
| Commercial electric power..... | 05 | 42 | 4.1 | 0.0 | 0.8 | 0.8 | -0.1 | 0.0 |
| Industrial electric power..... | 05 | 43 | 5.0 | -1.6 | 2.2 | 0.8 | -0.8 | 0.1 |
| Gasoline..... | 05 | 71 | 1.7 | 8.1 | -13.6 | 3.1 | 0.3 | 20.0 |
| No. 2 diesel fuel..... | 05 | 7303 | -14.4 | -3.6 | -13.6 | -5.5 | -5.7 | 41.1 |
| Basic organic chemicals..... | 06 | 14 | -16.6 | -0.3 | -2.1 | -2.1 | -2.6 | -1.2 |
| Prepared paint ² | 06 | 21 | 0.6 | 0.2 | 0.1 | 0.0 | -0.2 | 0.0 |
| Medicinal and botanical chemicals ² | 06 | 31 | 0.6 | 0.1 | 0.0 | -0.1 | 0.0 | -0.4 |
| Biological products, including diagnostics..... | 06 | 37 | 5.2 | 0.7 | -0.4 | 0.3 | 1.2 | 0.1 |
| Pharmaceutical preparations..... | 06 | 38 | 2.8 | 0.3 | 0.0 | 0.1 | 0.4 | 0.4 |
| Plastic construction products ² | 07 | 21 | -5.2 | -0.2 | -0.9 | -0.8 | 0.0 | -0.2 |
| Unsupported plastic film, sheet, and other shapes ² | 07 | 22 | -8.8 | 0.5 | -0.3 | -1.6 | -1.6 | -1.0 |
| Parts for manufacturing from plastics ² | 07 | 26 | -2.2 | -0.4 | -0.4 | -0.2 | -0.1 | -0.1 |
| Plastic packaging products ² | 07 | 2A | -6.0 | 0.0 | 0.1 | -0.4 | -0.3 | -0.3 |
| Lumber..... | 08 | 1 | -17.3 | 3.3 | -1.7 | 1.6 | 4.8 | -4.2 |
| Millwork..... | 08 | 2 | -6.6 | -1.2 | -0.4 | -0.3 | -0.1 | -0.9 |
| Paper boxes and containers ² | 09 | 1503 | -1.8 | -0.5 | 0.6 | -1.1 | -0.3 | -0.7 |
| Commercial printing ² | 09 | 47 | 4.8 | -0.3 | 0.3 | 0.0 | 0.0 | 0.2 |
| Steel mill products ² | 10 | 17 | -14.8 | 3.6 | 5.3 | -0.4 | -4.7 | -0.5 |
| Nonferrous wire and cable ² | 10 | 26 | 0.8 | 0.0 | -1.6 | -1.7 | 0.2 | 1.0 |
| Fabricated structural metal products..... | 10 | 7 | -1.5 | 0.1 | -0.5 | -0.6 | 0.4 | 0.1 |
| Other miscellaneous metal products ² | 10 | 89 | 2.6 | 0.1 | -0.1 | 0.4 | 0.2 | -0.5 |
| Air conditioning and refrigeration equipment..... | 11 | 48 | 4.4 | 0.0 | 0.9 | -0.9 | 0.5 | 0.5 |
| Wiring devices ² | 11 | 71 | 11.9 | -0.3 | 0.2 | 0.6 | 0.0 | 0.6 |

See footnotes at end of table.

Table 2. Producer price index percentage changes for selected commodity groupings by Final Demand-Intermediate Demand category, seasonally adjusted — Continued
[August 2023]

| Grouping | Commodity code | | Unadjusted 12-month percent change ¹ | Seasonally adjusted 1-month percent change ¹ | | | | |
|--|----------------|-----------|---|---|--------------|--------------------------|--------------------------|---------------------------|
| | Group code | Item code | | Aug. 2022 to Aug. 2023 ^P | Mar. to Apr. | Apr. to May ^P | May to June ^P | June to July ^P |
| Electronic components and accessories..... | 11 | 78 | 0.6 | -0.2 | -1.1 | 0.2 | 0.2 | 0.1 |
| Miscellaneous electrical machinery and equipment ² | 11 | 79 | 2.0 | 0.0 | 0.1 | 0.1 | 0.8 | 0.0 |
| Internal combustion engines ² | 11 | 94 | 6.8 | 0.3 | 0.0 | 0.1 | 1.8 | 0.0 |
| Machine shop products ² | 11 | 95 | 4.6 | 0.2 | 0.5 | 0.2 | 0.1 | 0.1 |
| Concrete ingredients and related products..... | 13 | 2 | 9.0 | -0.3 | 0.4 | 0.5 | 0.4 | 0.5 |
| Concrete products..... | 13 | 3 | 8.7 | 0.1 | 1.2 | 0.2 | 0.1 | 0.5 |
| Prepared asphalt, tar roofing and siding products ² | 13 | 61 | 3.2 | 2.4 | 0.5 | 1.9 | 1.0 | -1.2 |
| Paving mixtures and blocks..... | 13 | 94 | -1.3 | -1.0 | -1.9 | -1.1 | -0.6 | 1.0 |
| Motor vehicle parts ² | 14 | 12 | 1.3 | 0.2 | 0.2 | -0.1 | 0.2 | 0.0 |
| Aircraft engines and engine parts..... | 14 | 23 | 2.9 | 0.3 | 0.1 | 0.0 | 0.4 | 0.1 |
| Aircraft parts and auxiliary equipment, n.e.c..... | 14 | 25 | 5.5 | 0.0 | 0.1 | 0.0 | 0.1 | 0.0 |
| Medical, surgical and personal aid devices..... | 15 | 6 | 2.8 | -0.2 | 0.1 | 0.6 | -0.1 | 0.2 |
| Stage 4 intermediate demand services..... | ID5 | 9412 | 5.3 | 0.7 | 0.2 | -0.1 | 0.8 | 0.5 |
| Truck transportation of freight ² | 30 | 12 | -9.6 | -3.0 | -0.5 | -0.7 | -0.8 | 1.6 |
| Courier, messenger, and U.S. postal services..... | 30 | 16 | 6.0 | 0.0 | 0.1 | -0.1 | 1.7 | 1.2 |
| Airline passenger services..... | 30 | 22 | 4.0 | -3.1 | -1.0 | 2.0 | 1.6 | 1.3 |
| Warehousing, storage, and related services ² | 32 | 1 | 8.5 | 0.1 | -3.1 | -1.5 | 1.4 | -1.1 |
| Advertising space sales in periodicals and newspapers ² | 36 | 11 | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Data processing and related services ² | 38 | 1 | 2.0 | -0.1 | 0.1 | 0.3 | 0.3 | 0.1 |
| Business loans (partial)..... | 39 | 11 | 41.9 | 2.7 | 3.4 | -1.9 | -1.9 | -1.7 |
| Deposit services (partial) ² | 39 | 2 | 20.9 | 0.6 | 0.1 | 5.6 | -0.6 | -2.3 |
| Securities brokerage, dealing, investment advice, and related services ² | 40 | 1 | 27.1 | -0.4 | 3.2 | 0.0 | 1.6 | 1.6 |
| Portfolio management ² | 40 | 2 | 8.0 | 4.3 | -3.0 | -0.3 | 7.3 | 0.5 |
| Investment banking ² | 40 | 3 | 9.2 | -0.8 | 1.4 | -0.4 | -0.1 | 1.9 |
| Insurance..... | 41 | 11 | 4.1 | 0.4 | 0.1 | 1.0 | -0.2 | 0.3 |
| Annuities ² | 41 | 2 | 0.3 | 0.3 | 0.0 | -0.1 | 0.5 | 0.0 |
| Nonresidential real estate rents ² | 43 | 11 | 2.4 | 2.5 | 0.3 | 1.5 | -0.9 | 3.6 |
| Nonresidential property sales and leases ² | 43 | 12 | -2.1 | -0.4 | -0.3 | 0.3 | -0.6 | 0.3 |
| Nonresidential property management fees ² | 43 | 13 | 10.4 | 1.5 | -0.1 | 0.3 | 2.7 | 0.6 |
| Residential property management fees ² | 43 | 22 | 1.6 | 0.5 | 0.7 | -0.2 | 0.8 | 0.1 |
| Construction, mining, and forestry machinery and equipment rental and leasing ² | 44 | 3 | 3.1 | 0.2 | 0.2 | -0.2 | 0.1 | -0.1 |
| Legal services..... | 45 | 1 | 6.1 | 0.2 | -0.2 | 0.3 | 0.7 | 0.2 |
| Advertising agency services ² | 45 | 51 | 0.9 | 0.0 | 0.3 | -0.1 | 0.0 | 0.0 |
| Accounting services (partial)..... | 45 | 2 | 8.3 | 0.9 | 0.1 | -0.5 | 2.2 | 0.6 |
| Architectural and engineering services..... | 45 | 3 | 3.1 | 0.7 | 0.3 | 0.2 | 0.3 | 0.1 |
| Management, scientific, and technical consulting services..... | 45 | 4 | 2.8 | 2.3 | -0.7 | 2.9 | -1.5 | 0.1 |
| Staffing services..... | 46 | 3 | 0.5 | 0.7 | 0.0 | -0.3 | -0.1 | -0.2 |
| Janitorial services ² | 49 | 1 | 2.0 | 0.9 | -0.2 | 0.0 | -0.1 | 0.0 |
| Commercial and industrial machinery and equipment repair and maintenance..... | 55 | 1 | 6.1 | 1.9 | -0.4 | 0.1 | 0.9 | 0.0 |
| Machinery and equipment parts and supplies wholesaling ² | 57 | 1102 | 8.7 | -2.7 | 2.8 | -1.8 | 0.7 | 2.2 |
| Building materials, paint, and hardware wholesaling..... | 57 | 3 | -7.8 | -1.7 | -0.9 | -0.1 | -1.0 | 1.4 |
| Metals, minerals, and ores wholesaling ² | 57 | 4 | -1.1 | 2.1 | -9.8 | -1.7 | -3.7 | -2.9 |
| Chemicals and allied products wholesaling ² | 57 | 5 | -7.2 | 2.2 | -2.9 | -5.0 | 8.8 | -4.7 |
| Paper and plastics products wholesaling ² | 57 | 6 | 3.3 | 0.1 | 0.2 | -0.5 | -2.5 | 1.9 |
| Food and alcohol wholesaling ² | 57 | 8 | 0.5 | 2.8 | 2.2 | -2.3 | 0.5 | -1.3 |
| Hardware and building materials and supplies retailing..... | 58 | D | 1.7 | -2.6 | 0.7 | 4.5 | 6.8 | 4.5 |
| Metal treatment services ² | 59 | 1 | 5.0 | 0.7 | 0.6 | -0.2 | 0.9 | 0.2 |
| Stage 3 intermediate demand..... | ID5 | 3 | -4.5 | -0.2 | -1.4 | -0.2 | -0.5 | 0.9 |
| Stage 3 intermediate demand goods..... | ID5 | 9311 | -10.7 | -1.2 | -2.9 | -0.2 | -1.5 | 2.5 |
| Slaughter cattle..... | 01 | 31 | 28.1 | 8.0 | -0.5 | 6.0 | 2.4 | 1.6 |
| Slaughter hogs..... | 01 | 32 | -27.6 | -8.0 | -4.9 | 12.2 | 8.5 | -2.4 |
| Slaughter poultry..... | 01 | 4 | -17.8 | -0.5 | -0.7 | -1.8 | -7.2 | -0.9 |
| Raw milk..... | 01 | 6 | -31.3 | -3.8 | -5.9 | -6.3 | -0.4 | -3.4 |
| Commercial electric power..... | 05 | 42 | 4.1 | 0.0 | 0.8 | 0.8 | -0.1 | 0.0 |
| Industrial electric power..... | 05 | 43 | 5.0 | -1.6 | 2.2 | 0.8 | -0.8 | 0.1 |
| Gasoline..... | 05 | 71 | 1.7 | 8.1 | -13.6 | 3.1 | 0.3 | 20.0 |
| Jet fuel ² | 05 | 7203 | -12.8 | -12.7 | -11.6 | 1.8 | 4.6 | 23.6 |
| No. 2 diesel fuel..... | 05 | 7303 | -14.4 | -3.6 | -13.6 | -5.5 | -5.7 | 41.1 |
| Finished lubricants ² | 05 | 76 | 4.5 | -0.9 | 0.1 | 1.3 | -0.3 | -0.1 |
| Lubricating oil base stocks ² | 05 | 78 | -36.9 | -2.0 | -12.7 | 1.6 | -1.7 | -0.5 |
| Asphalt..... | 05 | 8102 | -34.6 | 9.7 | 4.6 | -0.3 | -5.8 | -1.0 |
| Basic inorganic chemicals ² | 06 | 13 | -6.5 | -1.6 | -1.6 | -1.2 | -3.5 | -1.4 |
| Basic organic chemicals..... | 06 | 14 | -16.6 | -0.3 | -2.1 | -2.1 | -2.6 | -1.2 |
| Paints and allied products ² | 06 | 2 | 0.8 | 0.1 | 0.4 | 0.2 | -0.9 | 0.0 |

See footnotes at end of table.

Table 2. Producer price index percentage changes for selected commodity groupings by Final Demand-Intermediate Demand category, seasonally adjusted — Continued
 [August 2023]

| Grouping | Commodity code | | Unadjusted 12-month percent change ¹ | Seasonally adjusted 1-month percent change ¹ | | | | |
|---|----------------|-----------|---|---|--------------|--------------------------|--------------------------|---------------------------|
| | Group code | Item code | | Aug. 2022 to Aug. 2023 ^P | Mar. to Apr. | Apr. to May ^P | May to June ^P | June to July ^P |
| Agricultural chemicals and chemical products..... | 06 | 5 | -26.0 | -4.5 | -3.3 | -3.5 | -3.5 | 1.3 |
| Plastic resins and materials..... | 06 | 6 | -13.4 | 2.3 | -1.7 | -2.5 | -4.3 | -1.4 |
| Synthetic rubber ² | 07 | 1102 | -18.3 | 1.2 | -1.0 | -2.8 | -5.6 | 0.1 |
| Unsupported plastic film, sheet, and other shapes ² | 07 | 22 | -8.8 | 0.5 | -0.3 | -1.6 | -1.6 | -1.0 |
| Paper ² | 09 | 13 | 0.5 | 0.8 | -0.6 | -0.3 | -0.8 | 0.0 |
| Paperboard ² | 09 | 14 | -4.8 | -0.8 | -0.1 | -0.3 | -0.9 | -0.4 |
| Converted paper and paperboard products ² | 09 | 15 | 1.1 | 0.0 | 0.2 | -0.4 | -0.1 | -0.6 |
| Commercial printing ² | 09 | 47 | 4.8 | -0.3 | 0.3 | 0.0 | 0.0 | 0.2 |
| Foundry and forge shop products ² | 10 | 15 | 1.5 | 0.8 | -0.3 | -0.2 | -0.9 | 0.0 |
| Steel mill products ² | 10 | 17 | -14.8 | 3.6 | 5.3 | -0.4 | -4.7 | -0.5 |
| Nonferrous mill shapes ² | 10 | 25 | -1.9 | -1.1 | -0.3 | -1.1 | -1.1 | -0.4 |
| Nonferrous foundry shop products..... | 10 | 28 | 3.8 | 0.8 | -0.2 | -0.1 | 0.2 | 0.3 |
| Metal containers ² | 10 | 3 | -3.5 | 0.2 | 0.3 | -0.1 | 0.0 | -1.6 |
| Structural, architectural, and pre-engineered metal products..... | 10 | 74 | -4.0 | 0.2 | -0.8 | -1.1 | 0.2 | -0.2 |
| Bolts, nuts, screws, rivets, and washers ² | 10 | 81 | 4.6 | 0.4 | 0.8 | 0.6 | 0.8 | -0.4 |
| Other miscellaneous metal products ² | 10 | 89 | 2.6 | 0.1 | -0.1 | 0.4 | 0.2 | -0.5 |
| General purpose machinery and equipment..... | 11 | 4 | 5.9 | 0.9 | 0.5 | -0.1 | 0.1 | 0.3 |
| Electrical machinery and equipment..... | 11 | 7 | 3.0 | 0.1 | -0.2 | 0.4 | 0.3 | 0.3 |
| Construction sand, gravel, and crushed stone..... | 13 | 21 | 8.2 | 0.0 | 0.1 | 0.8 | 0.2 | 0.7 |
| Cement..... | 13 | 22 | 11.0 | -1.3 | 1.1 | -0.1 | 0.8 | 0.1 |
| Motor vehicle parts ² | 14 | 12 | 1.3 | 0.2 | 0.2 | -0.1 | 0.2 | 0.0 |
| Aircraft and aircraft equipment..... | 14 | 2 | 4.1 | 0.4 | 0.4 | 0.2 | 0.2 | 0.0 |
| Stage 3 intermediate demand services..... | ID5 | 9312 | 1.7 | 0.7 | -0.1 | -0.2 | 0.3 | -0.5 |
| Rail transportation of freight and mail ² | 30 | 11 | -0.9 | -0.2 | -0.9 | -0.4 | -0.1 | 0.4 |
| Courier, messenger, and U.S. postal services..... | 30 | 16 | 6.0 | 0.0 | 0.1 | -0.1 | 1.7 | 1.2 |
| Arrangement of freight and cargo ² | 31 | 31 | -42.8 | -4.1 | -2.0 | 3.3 | -2.2 | -15.0 |
| Freight forwarding ² | 31 | 3201 | -1.4 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| Warehousing, storage, and related services ² | 32 | 1 | 8.5 | 0.1 | -3.1 | -1.5 | 1.4 | -1.1 |
| Advertising space sales in periodicals, newspapers, directories, and mailing lists ² | 36 | 1 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Wired telephone services ² | 37 | 1 | 3.9 | 0.8 | 0.5 | -0.3 | 0.5 | 0.4 |
| Bundled wired telecommunications access services ² | 37 | 5 | 6.8 | 0.0 | -1.5 | 0.0 | -0.3 | 1.5 |
| Data processing and related services ² | 38 | 1 | 2.0 | -0.1 | 0.1 | 0.3 | 0.3 | 0.1 |
| Business loans (partial)..... | 39 | 11 | 41.9 | 2.7 | 3.4 | -1.9 | -1.9 | -1.7 |
| Deposit services (partial) ² | 39 | 2 | 20.9 | 0.6 | 0.1 | 5.6 | -0.6 | -2.3 |
| Securities brokerage, dealing, investment advice, and related services ² | 40 | 1 | 27.1 | -0.4 | 3.2 | 0.0 | 1.6 | 1.6 |
| Insurance..... | 41 | 11 | 4.1 | 0.4 | 0.1 | 1.0 | -0.2 | 0.3 |
| Nonresidential real estate rents ² | 43 | 11 | 2.4 | 2.5 | 0.3 | 1.5 | -0.9 | 3.6 |
| Legal services..... | 45 | 1 | 6.1 | 0.2 | -0.2 | 0.3 | 0.7 | 0.2 |
| Accounting services (partial)..... | 45 | 2 | 8.3 | 0.9 | 0.1 | -0.5 | 2.2 | 0.6 |
| Architectural and engineering services..... | 45 | 3 | 3.1 | 0.7 | 0.3 | 0.2 | 0.3 | 0.1 |
| Management, scientific, and technical consulting services..... | 45 | 4 | 2.8 | 2.3 | -0.7 | 2.9 | -1.5 | 0.1 |
| Advertising agency services ² | 45 | 51 | 0.9 | 0.0 | 0.3 | -0.1 | 0.0 | 0.0 |
| Staffing services..... | 46 | 3 | 0.5 | 0.7 | 0.0 | -0.3 | -0.1 | -0.2 |
| Aircraft repair maintenance..... | 55 | 4 | 4.9 | 0.4 | 0.2 | 0.2 | 0.5 | 0.4 |
| Machinery and equipment parts and supplies wholesaling ² | 57 | 1102 | 8.7 | -2.7 | 2.8 | -1.8 | 0.7 | 2.2 |
| Building materials, paint, and hardware wholesaling..... | 57 | 3 | -7.8 | -1.7 | -0.9 | -0.1 | -1.0 | 1.4 |
| Metals, minerals, and ores wholesaling ² | 57 | 4 | -1.1 | 2.1 | -9.8 | -1.7 | -3.7 | -2.9 |
| Chemicals and allied products wholesaling ² | 57 | 5 | -7.2 | 2.2 | -2.9 | -5.0 | 8.8 | -4.7 |
| Paper and plastics products wholesaling ² | 57 | 6 | 3.3 | 0.1 | 0.2 | -0.5 | -2.5 | 1.9 |
| Food wholesaling ² | 57 | 8101 | -0.2 | 3.2 | 2.5 | -2.5 | 0.6 | -1.5 |
| Metal treatment services ² | 59 | 1 | 5.0 | 0.7 | 0.6 | -0.2 | 0.9 | 0.2 |
| Stage 2 intermediate demand..... | ID5 | 2 | -10.1 | 0.9 | -1.4 | -1.0 | 1.7 | 0.7 |
| Stage 2 intermediate demand goods..... | ID5 | 9211 | -24.0 | 1.2 | -4.0 | -2.2 | 4.0 | 2.2 |
| Corn..... | 01 | 2202 | -26.1 | 2.4 | -6.0 | 3.4 | -10.7 | -2.0 |
| Oilseeds..... | 01 | 83 | -11.8 | 0.5 | -1.2 | -6.9 | 9.0 | -4.3 |
| Prepared animal feeds..... | 02 | 9 | -3.5 | -1.4 | -2.2 | -0.9 | 2.1 | 0.3 |
| Coal..... | 05 | 1 | -4.3 | 1.7 | -2.9 | 0.8 | 3.5 | 0.8 |
| Natural gas ² | 05 | 31 | -77.7 | -22.8 | -2.0 | 2.2 | 19.6 | -6.3 |
| Liquefied petroleum gas ² | 05 | 32 | -41.1 | -3.1 | -17.4 | -6.1 | 26.2 | 6.0 |
| Crude petroleum ² | 05 | 61 | -12.5 | 11.2 | -9.8 | -4.2 | 8.7 | 8.9 |
| No. 2 diesel fuel..... | 05 | 7303 | -14.4 | -3.6 | -13.6 | -5.5 | -5.7 | 41.1 |
| Industrial chemicals..... | 06 | 1 | -15.1 | -0.5 | -2.0 | -1.9 | -2.8 | -1.2 |
| Plastic resins and materials..... | 06 | 6 | -13.4 | 2.3 | -1.7 | -2.5 | -4.3 | -1.4 |
| Plastic products ² | 07 | 2 | -4.0 | 0.1 | -0.2 | -0.6 | -0.4 | -0.2 |
| Logs, bolts, timber, pulpwood, and wood chips ² | 08 | 5 | -3.0 | -0.7 | 0.0 | 0.1 | -0.5 | 0.5 |

See footnotes at end of table.

Table 2. Producer price index percentage changes for selected commodity groupings by Final Demand-Intermediate Demand category, seasonally adjusted — Continued
 [August 2023]

| Grouping | Commodity code | | Unadjusted 12-month percent change ¹ | Seasonally adjusted 1-month percent change ¹ | | | | |
|---|----------------|-----------|---|---|--------------|--------------------------|--------------------------|---------------------------|
| | Group code | Item code | | Aug. 2022 to Aug. 2023 ^P | Mar. to Apr. | Apr. to May ^P | May to June ^P | June to July ^P |
| Paper ² | 09 | 13 | 0.5 | 0.8 | -0.6 | -0.3 | -0.8 | 0.0 |
| Paperboard, excluding corrugated paperboard ² | 09 | 1411 | -3.8 | -0.6 | 0.0 | -0.7 | -0.8 | -0.5 |
| Commercial printing ² | 09 | 47 | 4.8 | -0.3 | 0.3 | 0.0 | 0.0 | 0.2 |
| Iron and steel scrap..... | 10 | 12 | 1.8 | 6.0 | -6.0 | -10.8 | 4.5 | 6.4 |
| Steel mill products ² | 10 | 17 | -14.8 | 3.6 | 5.3 | -0.4 | -4.7 | -0.5 |
| Nonferrous mill shapes ² | 10 | 25 | -1.9 | -1.1 | -0.3 | -1.1 | -1.1 | -0.4 |
| Electrical machinery and equipment..... | 11 | 7 | 3.0 | 0.1 | -0.2 | 0.4 | 0.3 | 0.3 |
| Electronic components and accessories..... | 11 | 78 | 0.6 | -0.2 | -1.1 | 0.2 | 0.2 | 0.1 |
| Stage 2 intermediate demand services..... | ID5 | 9212 | 4.9 | 0.7 | 0.6 | -0.2 | 0.1 | -0.4 |
| Rail transportation of freight and mail ² | 30 | 11 | -0.9 | -0.2 | -0.9 | -0.4 | -0.1 | 0.4 |
| Truck transportation of freight ² | 30 | 12 | -9.6 | -3.0 | -0.5 | -0.7 | -0.8 | 1.6 |
| U.S. Postal Service ² | 30 | 1601 | 9.0 | 0.0 | 0.0 | 0.0 | 3.8 | 0.0 |
| Courier and messenger services, except air..... | 30 | 1602 | 4.4 | 0.1 | 0.6 | 0.1 | 0.6 | 1.1 |
| Air mail and package delivery services, excluding by USPS..... | 30 | 1603 | 3.6 | 0.0 | -0.8 | -0.5 | 0.6 | 3.2 |
| Pipeline transportation ² | 30 | 17 | 5.3 | -1.1 | 0.2 | -1.2 | 3.8 | 0.1 |
| Airline passenger services..... | 30 | 22 | 4.0 | -3.1 | -1.0 | 2.0 | 1.6 | 1.3 |
| Arrangement of freight and cargo ² | 31 | 31 | -42.8 | -4.1 | -2.0 | 3.3 | -2.2 | -15.0 |
| Television advertising time sales..... | 36 | 21 | -20.3 | 2.8 | -0.9 | -2.1 | -1.1 | -8.2 |
| Wireless telecommunication services..... | 37 | 2 | 0.5 | 0.1 | 0.6 | 0.2 | 0.1 | -1.1 |
| Data processing and related services ² | 38 | 1 | 2.0 | -0.1 | 0.1 | 0.3 | 0.3 | 0.1 |
| Securities brokerage, dealing, investment advice, and related services ² | 40 | 1 | 27.1 | -0.4 | 3.2 | 0.0 | 1.6 | 1.6 |
| Portfolio management ² | 40 | 2 | 8.0 | 4.3 | -3.0 | -0.3 | 7.3 | 0.5 |
| Investment banking ² | 40 | 31 | 9.2 | -0.8 | 1.4 | -0.4 | -0.1 | 1.9 |
| Insurance..... | 41 | 11 | 4.1 | 0.4 | 0.1 | 1.0 | -0.2 | 0.3 |
| Commissions from sales of insurance ² | 42 | 11 | 0.3 | 0.0 | 0.0 | 0.0 | -0.5 | 0.0 |
| Legal services..... | 45 | 1 | 6.1 | 0.2 | -0.2 | 0.3 | 0.7 | 0.2 |
| Accounting services (partial)..... | 45 | 2 | 8.3 | 0.9 | 0.1 | -0.5 | 2.2 | 0.6 |
| Management, scientific, and technical consulting services..... | 45 | 4 | 2.8 | 2.3 | -0.7 | 2.9 | -1.5 | 0.1 |
| Advertising agency services ² | 45 | 51 | 0.9 | 0.0 | 0.3 | -0.1 | 0.0 | 0.0 |
| Staffing services..... | 46 | 3 | 0.5 | 0.7 | 0.0 | -0.3 | -0.1 | -0.2 |
| Security guard services ² | 48 | 1 | 10.7 | 0.1 | 2.1 | 0.1 | 0.2 | 3.2 |
| Janitorial services ² | 49 | 1 | 2.0 | 0.9 | -0.2 | 0.0 | -0.1 | 0.0 |
| Traveler accommodation services..... | 53 | 1 | 6.0 | 1.1 | -3.0 | 2.4 | 0.3 | 0.5 |
| Commercial and industrial machinery and equipment repair and maintenance..... | 55 | 1 | 6.1 | 1.9 | -0.4 | 0.1 | 0.9 | 0.0 |
| Hardware and building materials and supplies retailing..... | 58 | D | 1.7 | -2.6 | 0.7 | 4.5 | 6.8 | 4.5 |
| Stage 1 intermediate demand..... | ID5 | 1 | -1.0 | -0.1 | -1.0 | -0.2 | 0.1 | 1.6 |
| Stage 1 intermediate demand goods..... | ID5 | 9111 | -5.3 | -0.7 | -1.7 | -0.7 | -0.8 | 2.5 |
| Prepared animal feeds..... | 02 | 9 | -3.5 | -1.4 | -2.2 | -0.9 | 2.1 | 0.3 |
| Commercial electric power..... | 05 | 42 | 4.1 | 0.0 | 0.8 | 0.8 | -0.1 | 0.0 |
| Industrial electric power..... | 05 | 43 | 5.0 | -1.6 | 2.2 | 0.8 | -0.8 | 0.1 |
| Commercial natural gas..... | 05 | 52 | -21.9 | -6.0 | -6.0 | -2.4 | 3.4 | -0.2 |
| Industrial natural gas..... | 05 | 53 | -25.5 | -6.5 | -6.5 | -2.4 | 9.2 | -1.3 |
| Gasoline..... | 05 | 71 | 1.7 | 8.1 | -13.6 | 3.1 | 0.3 | 20.0 |
| No. 2 diesel fuel..... | 05 | 7303 | -14.4 | -3.6 | -13.6 | -5.5 | -5.7 | 41.1 |
| Industrial chemicals..... | 06 | 1 | -15.1 | -0.5 | -2.0 | -1.9 | -2.8 | -1.2 |
| Prepared paint ² | 06 | 21 | 0.6 | 0.2 | 0.1 | 0.0 | -0.2 | 0.0 |
| Plastic construction products ² | 07 | 21 | -5.2 | -0.2 | -0.9 | -0.8 | 0.0 | -0.2 |
| Recyclable paper ² | 09 | 12 | -51.1 | 6.2 | 2.6 | 1.9 | -0.4 | 1.8 |
| Paper ² | 09 | 13 | 0.5 | 0.8 | -0.6 | -0.3 | -0.8 | 0.0 |
| Converted paper and paperboard products ² | 09 | 15 | 1.1 | 0.0 | 0.2 | -0.4 | -0.1 | -0.6 |
| Iron and steel scrap..... | 10 | 12 | 1.8 | 6.0 | -6.0 | -10.8 | 4.5 | 6.4 |
| Steel mill products ² | 10 | 17 | -14.8 | 3.6 | 5.3 | -0.4 | -4.7 | -0.5 |
| Primary nonferrous metals ² | 10 | 22 | -1.2 | 0.9 | 3.0 | -0.2 | 2.1 | -5.7 |
| Nonferrous scrap..... | 10 | 23 | -9.5 | -0.4 | 3.5 | -2.7 | -1.9 | 0.3 |
| Nonferrous wire and cable ² | 10 | 26 | 0.8 | 0.0 | -1.6 | -1.7 | 0.2 | 1.0 |
| Fabricated structural metal products..... | 10 | 7 | -1.5 | 0.1 | -0.5 | -0.6 | 0.4 | 0.1 |
| General purpose machinery and equipment..... | 11 | 4 | 5.9 | 0.9 | 0.5 | -0.1 | 0.1 | 0.3 |
| Construction sand, gravel, and crushed stone..... | 13 | 21 | 8.2 | 0.0 | 0.1 | 0.8 | 0.2 | 0.7 |
| Stage 1 intermediate demand services..... | ID5 | 9112 | 3.7 | 0.5 | -0.2 | 0.2 | 0.8 | 0.6 |
| Truck transportation of freight ² | 30 | 12 | -9.6 | -3.0 | -0.5 | -0.7 | -0.8 | 1.6 |
| Airline passenger services..... | 30 | 22 | 4.0 | -3.1 | -1.0 | 2.0 | 1.6 | 1.3 |
| Advertising space sales in periodicals, newspapers, directories, and mailing lists ² | 36 | 1 | 4.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Business wired telecommunication services ² | 37 | 12 | 2.9 | 0.7 | 0.0 | -0.6 | 1.1 | 0.5 |
| Wireless telecommunication services..... | 37 | 2 | 0.5 | 0.1 | 0.6 | 0.2 | 0.1 | -1.1 |

See footnotes at end of table.

Table 2. Producer price index percentage changes for selected commodity groupings by Final Demand-Intermediate Demand category, seasonally adjusted — Continued
 [August 2023]

| Grouping | Commodity code | | Unadjusted 12-month percent change ¹ | Seasonally adjusted 1-month percent change ¹ | | | | |
|---|----------------|-----------|---|---|--------------|--------------------------|--------------------------|---------------------------|
| | Group code | Item code | | Aug. 2022 to Aug. 2023 ^p | Mar. to Apr. | Apr. to May ^p | May to June ^p | June to July ^p |
| Bundled wired telecommunications access services ² | 37 | 5 | 6.8 | 0.0 | -1.5 | 0.0 | -0.3 | 1.5 |
| Business loans (partial)..... | 39 | 11 | 41.9 | 2.7 | 3.4 | -1.9 | -1.9 | -1.7 |
| Deposit services (partial) ² | 39 | 2 | 20.9 | 0.6 | 0.1 | 5.6 | -0.6 | -2.3 |
| Securities brokerage, dealing, investment advice, and related services ² | 40 | 1 | 27.1 | -0.4 | 3.2 | 0.0 | 1.6 | 1.6 |
| Portfolio management ² | 40 | 2 | 8.0 | 4.3 | -3.0 | -0.3 | 7.3 | 0.5 |
| Investment banking ² | 40 | 3 | 9.2 | -0.8 | 1.4 | -0.4 | -0.1 | 1.9 |
| Insurance..... | 41 | 11 | 4.1 | 0.4 | 0.1 | 1.0 | -0.2 | 0.3 |
| Nonresidential real estate rents ² | 43 | 11 | 2.4 | 2.5 | 0.3 | 1.5 | -0.9 | 3.6 |
| Architectural and engineering services..... | 45 | 3 | 3.1 | 0.7 | 0.3 | 0.2 | 0.3 | 0.1 |
| Management consulting services..... | 45 | 41 | 2.8 | 2.3 | -0.7 | 2.9 | -1.5 | 0.1 |
| Waste collection..... | 50 | 1 | 9.4 | 1.1 | 0.7 | 0.5 | -0.1 | 0.2 |
| Traveler accommodation services..... | 53 | 11 | 6.0 | 1.1 | -3.0 | 2.4 | 0.3 | 0.5 |
| Commercial and industrial machinery and equipment repair and maintenance..... | 55 | 1 | 6.1 | 1.9 | -0.4 | 0.1 | 0.9 | 0.0 |
| Machinery and equipment parts and supplies wholesaling ² | 57 | 1102 | 8.7 | -2.7 | 2.8 | -1.8 | 0.7 | 2.2 |
| Building materials, paint, and hardware wholesaling..... | 57 | 3 | -7.8 | -1.7 | -0.9 | -0.1 | -1.0 | 1.4 |
| Metals, minerals, and ores wholesaling ² | 57 | 4 | -1.1 | 2.1 | -9.8 | -1.7 | -3.7 | -2.9 |
| Chemicals and allied products wholesaling ² | 57 | 5 | -7.2 | 2.2 | -2.9 | -5.0 | 8.8 | -4.7 |
| Paper and plastics products wholesaling ² | 57 | 6 | 3.3 | 0.1 | 0.2 | -0.5 | -2.5 | 1.9 |
| Hardware and building materials and supplies retailing..... | 58 | D | 1.7 | -2.6 | 0.7 | 4.5 | 6.8 | 4.5 |
| Mining services ² | 60 | 1 | 3.9 | -0.7 | -0.5 | -0.1 | 0.0 | -0.2 |

¹ All indexes are subject to revision for 4 months after their originally scheduled publication to incorporate late reports and corrections by survey respondents. In addition, seasonally adjusted indexes are subject to change for up to 5 years due to the recalculation of seasonal factors published each January.

² Seasonal tests did not indicate the presence of seasonality. Data shown is not seasonally adjusted.

³ Trade indexes measure changes in margins received by wholesalers and retailers.

p Preliminary

"-" Data not available.

NOTE: The term "(partial)" denotes incomplete coverage of the index category.

Table 3. Producer price indexes for Final Demand-Intermediate Demand groupings, seasonally adjusted
 [August 2023, Index base Nov. 2009=100, unless otherwise indicated]

| Grouping | Other index base | Commodity code | | Seasonally adjusted index ¹ | | | | |
|---|------------------|----------------|-----------|--|-----------------------|------------------------|------------------------|------------------------|
| | | Group code | Item code | Apr. 2023 | May 2023 ^p | June 2023 ^p | July 2023 ^p | Aug. 2023 ^p |
| Final Demand | | | | | | | | |
| Final demand..... | | FD | 4 | 141.023 | 140.537 | 140.424 | 140.980 | 142.026 |
| Final demand goods..... | | FD | 41 | 143.056 | 140.926 | 140.907 | 141.266 | 144.063 |
| Final demand foods..... | | FD | 411 | 150.979 | 149.437 | 149.159 | 149.783 | 149.044 |
| Finished consumer foods ² | 00/82 | FD | 4111 | 265.783 | 263.204 | 263.714 | 263.937 | 263.175 |
| Finished consumer foods, crude..... | 00/82 | FD | 411113 | 300.804 | 251.862 | 257.162 | 252.482 | 238.208 |
| Finished consumer foods, processed..... | 00/82 | FD | 411112 | 261.292 | 263.142 | 263.192 | 263.882 | 264.414 |
| Government purchased foods..... | | FD | 4112 | 151.232 | 151.642 | 151.248 | 153.456 | 153.411 |
| Foods for export..... | | FD | 4113 | 155.133 | 152.380 | 149.568 | 151.811 | 149.368 |
| Final demand energy..... | | FD | 412 | 144.045 | 134.044 | 135.007 | 136.067 | 150.320 |
| Finished consumer energy goods ² | 00/82 | FD | 4121 | 226.576 | 211.458 | 213.919 | 215.629 | 235.177 |
| Government purchased energy..... | | FD | 4122 | 152.314 | 140.075 | 139.197 | 139.416 | 161.892 |
| Energy for export..... | | FD | 4123 | 132.610 | 122.418 | 120.513 | 122.881 | 141.306 |
| Final demand goods less foods and energy..... | | FD | 413 | 140.646 | 140.809 | 140.559 | 140.623 | 140.818 |
| Finished goods less foods and energy ² | 00/82 | FD | 4131 | 246.151 | 246.942 | 247.033 | 247.638 | 248.159 |
| Finished consumer goods less foods and energy..... | 00/82 | FD | 41311 | 273.847 | 274.609 | 274.614 | 275.194 | 275.931 |
| Nondurable consumer goods less foods and energy..... | 00/82 | FD | 413111 | 354.626 | 355.926 | 356.073 | 356.987 | 358.091 |
| Durable consumer goods..... | 00/82 | FD | 413112 | 190.870 | 191.144 | 191.032 | 191.302 | 191.693 |
| Private capital equipment..... | 00/82 | FD | 41312 | 211.071 | 211.853 | 212.016 | 212.616 | 212.925 |
| Private capital equipment for manufacturing industries..... | 00/82 | FD | 413121 | 225.803 | 227.241 | 227.601 | 228.125 | 228.502 |
| Private capital equipment for nonmanufacturing industries..... | 00/82 | FD | 413122 | 206.661 | 207.250 | 207.355 | 207.977 | 208.266 |
| Government purchased goods, excluding foods and energy..... | | FD | 4132 | 136.523 | 136.440 | 136.216 | 136.239 | 136.368 |
| Government purchased goods excluding foods, energy, and capital equipment..... | | FD | 41321 | 146.311 | 146.027 | 145.510 | 145.172 | 145.159 |
| Government purchased capital equipment..... | | FD | 41322 | 122.273 | 122.432 | 122.563 | 123.018 | 123.315 |
| Goods for export, excluding foods and energy..... | | FD | 4133 | 138.182 | 137.921 | 137.147 | 136.737 | 136.771 |
| Final demand services..... | | FD | 42 | 138.867 | 139.095 | 138.934 | 139.666 | 139.950 |
| Final demand trade services ³ | | FD | 423 | 150.740 | 151.755 | 150.059 | 150.869 | 150.359 |
| Trade of finished goods ² | | FD | 4231 | 149.289 | 150.415 | 149.026 | 149.467 | 148.964 |
| Trade of personal consumption goods..... | | FD | 42311 | 149.138 | 150.394 | 149.839 | 150.046 | 149.410 |
| Trade of private capital equipment..... | | FD | 42312 | 148.263 | 148.800 | 143.739 | 145.206 | 145.300 |
| Trade of government purchased goods..... | | FD | 4232 | 159.726 | 160.222 | 157.043 | 160.361 | 159.972 |
| Trade of government purchased goods, excluding capital equipment..... | | FD | 42321 | 165.357 | 165.422 | 164.684 | 168.807 | 167.951 |
| Trade of government purchased capital equipment..... | | FD | 42322 | 149.779 | 150.916 | 144.107 | 146.185 | 146.502 |
| Trade of exports..... | | FD | 4233 | 160.969 | 161.124 | 157.069 | 160.426 | 159.807 |
| Final demand transportation and warehousing services..... | | FD | 422 | 149.485 | 148.718 | 148.756 | 149.002 | 151.042 |
| Transportation of passengers for final demand..... | | FD | 4221 | 135.573 | 134.222 | 136.945 | 139.159 | 140.906 |
| Transportation of private passengers..... | | FD | 42211 | 135.574 | 134.226 | 136.943 | 139.153 | 140.897 |
| Transportation of government passengers..... | | FD | 42212 | 135.353 | 134.018 | 136.708 | 138.899 | 140.629 |
| Transportation of passengers for export..... | | FD | 42213 | 135.576 | 134.212 | 136.961 | 139.193 | 140.953 |
| Transportation and warehousing of goods for final demand..... | | FD | 4222 | 154.092 | 153.556 | 152.536 | 152.002 | 154.146 |
| Transportation and warehousing of finished goods ² | | FD | 42221 | 152.281 | 151.716 | 150.668 | 150.029 | 152.151 |
| Transportation and warehousing of personal consumption goods..... | | FD | 422211 | 152.725 | 152.171 | 151.140 | 150.599 | 152.711 |
| Transportation and warehousing of private capital equipment..... | | FD | 422212 | 150.483 | 149.872 | 148.757 | 147.718 | 149.880 |
| Transportation and warehousing of government purchased goods..... | | FD | 42222 | 152.870 | 152.097 | 150.960 | 151.084 | 152.635 |
| Transportation and warehousing of exports..... | | FD | 42223 | 159.675 | 159.255 | 158.318 | 157.880 | 160.218 |
| Final demand services less trade, transportation, and warehousing..... | | FD | 421 | 132.362 | 132.377 | 132.817 | 133.563 | 133.987 |
| Finished services less trade, transportation, and warehousing ² | | FD | 4211 | 132.676 | 132.636 | 133.055 | 133.794 | 134.169 |
| Finished consumer services less trade, transportation, and warehousing..... | | FD | 42111 | 132.071 | 131.937 | 132.331 | 133.123 | 133.391 |
| Private capital investment services less trade, transportation, and warehousing..... | | FD | 42112 | 138.501 | 139.205 | 139.820 | 140.154 | 141.364 |
| Government purchased services less trade, transportation, and warehousing..... | | FD | 4212 | 123.329 | 123.402 | 123.894 | 124.634 | 125.322 |
| Gov. purchased services less trade, transportation, and warehousing, excl. capital investment..... | | FD | 42121 | 123.924 | 123.962 | 124.459 | 125.242 | 125.906 |
| Government purchased capital investment services less trade, transportation, and warehousing..... | | FD | 42122 | 108.895 | 109.459 | 109.848 | 109.943 | 110.941 |
| Services for export less trade, transportation, and warehousing..... | | FD | 4213 | 138.975 | 139.715 | 140.400 | 141.267 | 142.092 |
| Final demand construction..... | | FD | 43 | 176.464 | 176.686 | 176.753 | 174.556 | 174.872 |
| Construction for private capital investment..... | | FD | 431 | 180.752 | 180.974 | 181.081 | 178.663 | 179.047 |
| Construction for government..... | | FD | 432 | 168.449 | 168.674 | 168.657 | 166.911 | 167.087 |
| Final Demand Special Groupings | | | | | | | | |
| Final demand less exports..... | 04/10 | FD | 49101 | 138.586 | 138.114 | 138.135 | 138.668 | 139.739 |
| Final demand less government..... | 04/10 | FD | 49102 | 139.094 | 138.678 | 138.576 | 139.122 | 140.012 |
| Final demand less foods, food and nonalcoholic beverages for immediate consumption, and energy ¹ | 04/10 | FD | 49103 | 138.806 | 138.997 | 138.761 | 139.297 | 139.505 |
| Final demand less foods and energy ⁴ | 04/10 | FD | 49104 | 138.510 | 138.722 | 138.549 | 139.061 | 139.324 |
| Final demand less foods and food and nonalcoholic beverages for immediate consumption ⁴ | 04/10 | FD | 49105 | 138.720 | 138.241 | 138.084 | 138.653 | 139.783 |

See footnotes at end of table.

Table 3. Producer price indexes for Final Demand-Intermediate Demand groupings, seasonally adjusted — Continued

[August 2023, Index base Nov. 2009=100, unless otherwise indicated]

| Grouping | Other index base | Commodity code | | Seasonally adjusted index ¹ | | | | |
|--|------------------|----------------|-----------|--|-----------------------|------------------------|------------------------|------------------------|
| | | Group code | Item code | Apr. 2023 | May 2023 ^P | June 2023 ^P | July 2023 ^P | Aug. 2023 ^P |
| Final demand less foods ⁴ | 04/10 | FD | 49106 | 138.377 | 137.957 | 137.855 | 138.399 | 139.527 |
| Final demand less energy..... | 04/10 | FD | 49107 | 138.965 | 139.078 | 138.900 | 139.417 | 139.623 |
| Final demand less trade services..... | 01/10 | FD | 49108 | 137.138 | 136.329 | 136.566 | 137.059 | 138.434 |
| Final demand less distributive services ⁵ | 01/10 | FD | 49109 | 136.575 | 135.754 | 136.044 | 136.581 | 137.925 |
| Final demand goods less energy..... | 01/10 | FD | 49111 | 141.398 | 141.189 | 140.937 | 141.121 | 141.112 |
| Final demand goods less foods..... | 04/10 | FD | 49112 | 138.305 | 136.098 | 136.134 | 136.429 | 139.901 |
| Final demand services less trade services..... | 04/10 | FD | 49113 | 132.805 | 132.747 | 133.146 | 133.839 | 134.409 |
| Final demand distributive services ⁵ | 04/10 | FD | 49114 | 148.212 | 148.967 | 147.408 | 147.998 | 147.901 |
| Final demand goods plus final demand distributive services ⁵ | 04/10 | FD | 49115 | 143.124 | 142.220 | 141.564 | 142.013 | 143.568 |
| Final demand less foods, energy, and trade services ⁴ | 08/13 | FD | 49116 | 127.559 | 127.568 | 127.770 | 128.181 | 128.613 |
| Private and government purchased capital equipment..... | 08/13 | FD | 49117 | 127.227 | 127.656 | 127.760 | 128.137 | 128.340 |
| Private and government purchased capital investment services..... | 08/13 | FD | 49118 | 132.032 | 132.576 | 130.966 | 131.629 | 132.399 |
| Total private and government purchased capital investment..... | 08/13 | FD | 49119 | 133.407 | 133.861 | 133.104 | 133.308 | 133.803 |
| Total finished ² | 01/10 | FD | 49201 | 139.579 | 139.180 | 139.226 | 139.758 | 140.675 |
| Total finished less foods, food and nonalcoholic beverages for immediate consumption, and energy ^{2, 4} | 12/10 | FD | 49202 | 138.112 | 138.382 | 138.314 | 138.832 | 139.061 |
| Total finished less foods and energy ^{2, 4} | 01/10 | FD | 49203 | 138.949 | 139.219 | 139.151 | 139.671 | 139.907 |
| Total finished less foods and food and nonalcoholic beverages for immediate consumption ^{2, 4} | 12/10 | FD | 49204 | 137.672 | 137.331 | 137.364 | 137.914 | 138.894 |
| Total finished less foods ^{2, 4} | 01/10 | FD | 49205 | 139.057 | 138.715 | 138.748 | 139.302 | 140.292 |
| Total finished less energy ² | 01/10 | FD | 49206 | 139.519 | 139.695 | 139.646 | 140.144 | 140.344 |
| Finished goods ² | 00/82 | FD | 49207 | 254.544 | 250.394 | 251.210 | 252.055 | 257.444 |
| Finished goods less energy ² | 00/82 | FD | 49208 | 250.581 | 250.459 | 250.664 | 251.163 | 251.337 |
| Finished goods, excluding foods ^{2, 4} | 00/82 | FD | 49209 | 250.926 | 246.375 | 247.269 | 248.276 | 255.263 |
| Finished services ² | 01/10 | FD | 49210 | 137.335 | 137.572 | 137.477 | 138.102 | 138.322 |
| Private capital investment services..... | 04/10 | FD | 49211 | 142.107 | 142.672 | 141.060 | 141.742 | 142.579 |
| Finished distributive services ^{2, 5} | 04/10 | FD | 49212 | 146.574 | 147.473 | 146.154 | 146.457 | 146.276 |
| Finished services less trade services ² | 04/10 | FD | 49213 | 132.687 | 132.593 | 132.982 | 133.675 | 134.165 |
| Finished services less distributive services ^{2, 5} | 04/10 | FD | 49214 | 131.872 | 131.804 | 132.271 | 133.038 | 133.440 |
| Total private capital investment (goods, services, and construction)..... | 04/10 | FD | 49215 | 141.330 | 141.830 | 141.024 | 141.284 | 141.836 |
| Finished goods plus finished distributive services ² | 04/10 | FD | 49216 | 144.144 | 143.379 | 142.978 | 143.369 | 144.835 |
| Total exports..... | 04/10 | FD | 49301 | 139.839 | 139.313 | 138.348 | 138.987 | 139.738 |
| Goods for export..... | 00/82 | FD | 49302 | 234.513 | 232.628 | 230.819 | 230.923 | 232.297 |
| Services for export..... | 04/10 | FD | 49303 | 148.682 | 148.932 | 148.060 | 149.523 | 150.228 |
| Total government purchases..... | 04/10 | FD | 49401 | 135.729 | 134.530 | 134.310 | 134.872 | 137.489 |
| Government purchased goods..... | 00/82 | FD | 49402 | 231.065 | 225.952 | 225.283 | 225.807 | 235.333 |
| Government purchased services..... | 04/10 | FD | 49403 | 131.394 | 131.457 | 131.340 | 132.503 | 133.091 |
| Total government purchased capital investment (goods, services, construction)..... | 08/13 | FD | 49404 | 131.413 | 131.736 | 131.017 | 130.921 | 131.230 |
| Government purchases, defense..... | 05/15 | FD | 49405 | 121.698 | 120.477 | 120.327 | 121.282 | 124.213 |
| Government purchases, non-defense..... | 05/15 | FD | 49406 | 130.672 | 129.573 | 129.340 | 129.669 | 131.914 |
| Personal consumption..... | 01/10 | FD | 49501 | 139.096 | 138.492 | 138.733 | 139.327 | 140.327 |
| Personal consumption goods (finished consumer goods)..... | 00/82 | FD | 49502 | 272.995 | 266.686 | 267.786 | 268.737 | 276.348 |
| Personal consumption goods less energy..... | 00/82 | FD | 49503 | 270.920 | 270.220 | 270.447 | 270.872 | 270.955 |
| Personal consumption goods less foods..... | 00/82 | FD | 49504 | 274.143 | 266.291 | 267.637 | 268.891 | 279.998 |
| Personal consumption nondurable goods less foods..... | 00/82 | FD | 49508 | 310.570 | 299.087 | 301.086 | 302.778 | 318.669 |
| Personal consumption services..... | 04/10 | FD | 49505 | 136.083 | 136.268 | 136.408 | 137.022 | 137.147 |
| Personal consumption less trade services..... | 04/10 | FD | 49506 | 136.007 | 134.943 | 135.381 | 136.069 | 137.474 |
| Personal consumption less distributive services ⁵ | 04/10 | FD | 49507 | 135.635 | 134.551 | 135.042 | 135.774 | 137.157 |
| Personal consumption less foods and energy..... | 04/14 | FD | 49510 | 127.585 | 127.778 | 127.895 | 128.439 | 128.579 |
| Personal consumption less foods, energy, and trade services ³ | 04/14 | FD | 49511 | 124.551 | 124.452 | 124.761 | 125.411 | 125.772 |
| Personal consumption less foods, energy, and distributive services ⁵ | 04/14 | FD | 49512 | 124.394 | 124.313 | 124.676 | 125.379 | 125.673 |
| Personal consumption goods plus personal consumption distributive services ⁵ | 08/13 | FD | 49509 | 132.822 | 131.795 | 131.779 | 132.059 | 133.722 |
| Intermediate Demand by Commodity Type | | | | | | | | |
| Processed goods | | | | | | | | |
| Processed goods for intermediate demand..... | 00/82 | ID6 | 1 | 259.507 | 255.563 | 254.271 | 253.393 | 258.758 |
| Materials and components for manufacturing..... | 00/82 | ID6 | 11 | 236.740 | 236.340 | 234.691 | 232.674 | 232.077 |
| Materials for manufacturing..... | | ID6 | 111 | 148.359 | 148.001 | 146.361 | 144.262 | 143.687 |
| Materials for food manufacturing..... | 00/82 | ID6 | 1111 | 252.124 | 247.182 | 243.306 | 245.104 | 246.962 |
| Materials for nondurable manufacturing..... | 00/82 | ID6 | 1112 | 274.019 | 269.952 | 265.507 | 260.754 | 258.951 |
| Materials for durable manufacturing..... | 00/82 | ID6 | 1113 | 285.236 | 290.680 | 289.736 | 284.266 | 282.737 |
| Components for manufacturing..... | 00/82 | ID6 | 112 | 187.818 | 187.726 | 187.700 | 187.860 | 187.812 |
| Components for nondurable manufacturing..... | | ID6 | 1121 | 147.657 | 147.361 | 146.595 | 145.894 | 145.402 |
| Components for durable manufacturing..... | | ID6 | 1122 | 132.481 | 132.426 | 132.442 | 132.593 | 132.580 |
| Materials and components for construction..... | 00/82 | ID6 | 12 | 350.736 | 350.712 | 350.375 | 351.325 | 351.245 |
| Materials for construction..... | | ID6 | 121 | 165.969 | 166.263 | 166.253 | 166.979 | 166.791 |
| Components for construction..... | | ID6 | 122 | 179.006 | 178.735 | 178.436 | 178.688 | 178.774 |
| Processed fuels and lubricants for intermediate demand..... | 00/82 | ID6 | 13 | 251.772 | 234.198 | 232.878 | 232.246 | 260.370 |
| Processed fuels and lubricants to manufacturing industries..... | 00/82 | ID6 | 131 | 255.134 | 243.585 | 243.681 | 241.307 | 257.448 |

See footnotes at end of table.

Table 3. Producer price indexes for Final Demand-Intermediate Demand groupings, seasonally adjusted — Continued

[August 2023, Index base Nov. 2009=100, unless otherwise indicated]

| Grouping | Other index base | Commodity code | | Seasonally adjusted index ¹ | | | | |
|---|------------------|----------------|-----------|--|-----------------------|------------------------|------------------------|------------------------|
| | | Group code | Item code | Apr. 2023 | May 2023 ^P | June 2023 ^P | July 2023 ^P | Aug. 2023 ^P |
| Processed fuels and lubricants to nonmanufacturing industries..... | 00/82 | ID6 | 132 | 251.005 | 231.502 | 229.726 | 229.648 | 261.611 |
| Containers for intermediate demand..... | 00/82 | ID6 | 14 | 310.548 | 311.602 | 310.180 | 309.475 | 307.293 |
| Supplies for intermediate demand..... | 00/82 | ID6 | 15 | 252.382 | 251.452 | 250.704 | 251.292 | 251.321 |
| Supplies to manufacturing industries..... | 00/82 | ID6 | 151 | 247.649 | 247.433 | 246.840 | 246.330 | 245.708 |
| Supplies to nonmanufacturing industries..... | 00/82 | ID6 | 152 | 251.114 | 250.080 | 249.315 | 250.068 | 250.197 |
| Supplies to nonmanufacturing industries, feeds..... | 00/82 | ID6 | 1521 | 241.308 | 234.288 | 232.257 | 239.335 | 240.940 |
| Supplies to nonmanufacturing industries, other than feeds..... | 00/82 | ID6 | 1522 | 254.408 | 254.144 | 253.547 | 253.475 | 253.411 |
| Unprocessed goods | | | | | | | | |
| Unprocessed goods for intermediate demand..... | 00/82 | ID6 | 2 | 258.407 | 244.758 | 242.280 | 248.149 | 251.390 |
| Unprocessed foodstuffs and feedstuffs..... | 00/82 | ID6 | 21 | 233.512 | 222.705 | 225.026 | 223.293 | 218.262 |
| Unprocessed nonfood materials..... | 00/82 | ID6 | 22 | 265.251 | 250.125 | 244.252 | 255.414 | 264.553 |
| Unprocessed nonfood materials except fuel..... | 00/82 | ID6 | 221 | 343.290 | 321.848 | 312.112 | 321.320 | 337.513 |
| Unprocessed nonfood materials except fuel to manufacturing industries..... | 00/82 | ID6 | 2211 | 318.362 | 297.540 | 287.973 | 296.884 | 312.496 |
| Unprocessed nonfood materials except fuel to nonmanufacturing industries..... | 00/82 | ID6 | 2212 | 346.354 | 346.464 | 349.100 | 349.764 | 352.324 |
| Unprocessed fuel..... | 00/82 | ID6 | 222 | 105.030 | 102.567 | 104.279 | 118.601 | 113.967 |
| Unprocessed fuel to manufacturing industries..... | 00/82 | ID6 | 2221 | 214.753 | 208.750 | 210.757 | 222.164 | 221.911 |
| Unprocessed fuel to nonmanufacturing industries..... | 00/82 | ID6 | 2222 | 101.843 | 99.509 | 101.253 | 116.147 | 111.135 |
| Services | | | | | | | | |
| Services for intermediate demand..... | | ID6 | 3 | 145.264 | 145.459 | 145.449 | 146.108 | 146.311 |
| Trade services for intermediate demand ⁵ | | ID6 | 33 | 171.745 | 171.088 | 169.648 | 172.033 | 171.587 |
| Trade services for manufacturing industries..... | 12/12 | ID6 | 331 | 158.901 | 157.623 | 155.158 | 156.878 | 156.026 |
| Trade services for nonmanufacturing industries..... | 12/12 | ID6 | 332 | 150.934 | 150.996 | 150.817 | 153.379 | 153.409 |
| Transportation and warehousing services for intermediate demand..... | | ID6 | 32 | 154.569 | 153.876 | 153.857 | 154.854 | 154.488 |
| Transportation of passengers for intermediate demand..... | | ID6 | 321 | 135.416 | 134.082 | 136.771 | 138.961 | 140.690 |
| Transportation of passengers for manufacturing industries..... | | ID6 | 3211 | 135.552 | 134.190 | 136.937 | 139.168 | 140.926 |
| Transportation of passengers for nonmanufacturing industries..... | | ID6 | 3212 | 135.461 | 134.130 | 136.812 | 138.998 | 140.724 |
| Transportation and warehousing of goods for intermediate demand..... | | ID6 | 322 | 156.681 | 156.046 | 155.773 | 156.660 | 156.096 |
| Transportation and warehousing of goods for manufacturing industries..... | 12/12 | ID6 | 3221 | 129.783 | 129.567 | 128.586 | 128.541 | 129.856 |
| Transportation and warehousing of goods for nonmanufacturing industries..... | 12/12 | ID6 | 3222 | 140.083 | 139.426 | 139.400 | 140.419 | 139.399 |
| Services less trade, transportation, and warehousing for intermediate demand..... | | ID6 | 31 | 136.491 | 137.029 | 137.331 | 137.549 | 137.995 |
| Services less trade, transportation, and warehousing for manufacturing industries..... | | ID6 | 311 | 127.806 | 128.043 | 128.015 | 128.426 | 128.734 |
| Services less trade, transportation, and warehousing for nonmanufacturing industries..... | | ID6 | 312 | 136.768 | 137.317 | 137.630 | 137.841 | 138.292 |
| Construction | | | | | | | | |
| Construction for intermediate demand..... | | ID6 | 4 | 143.439 | 145.429 | 145.583 | 145.978 | 146.365 |
| Intermediate Demand by Commodity Type Special Groupings | | | | | | | | |
| Processed materials less foods and feeds..... | 00/82 | ID6 | 9111 | 260.823 | 256.946 | 255.801 | 254.521 | 260.267 |
| Processed foods and feeds..... | 00/82 | ID6 | 9112 | 246.909 | 242.312 | 239.584 | 242.637 | 244.244 |
| Processed energy goods..... | 00/82 | ID6 | 9113 | 252.941 | 235.285 | 233.954 | 233.321 | 261.585 |
| Processed materials less energy..... | 00/82 | ID6 | 9118 | 258.029 | 257.544 | 256.278 | 255.350 | 254.934 |
| Processed materials less foods and energy..... | 00/82 | ID6 | 9115 | 258.964 | 259.011 | 257.938 | 256.497 | 255.819 |
| Intermediate distributive services ⁶ | 04/10 | ID6 | 9116 | 162.757 | 162.119 | 161.201 | 162.907 | 162.417 |
| Processed goods plus intermediate distributive services..... | 04/10 | ID6 | 9117 | 146.917 | 145.180 | 144.420 | 144.534 | 146.527 |
| Unprocessed materials less agricultural products..... | 00/82 | ID6 | 9211 | 266.078 | 250.766 | 243.664 | 258.814 | 269.189 |
| Unprocessed energy materials ⁷ | 00/82 | ID6 | 9212 | 197.293 | 181.521 | 176.666 | 194.142 | 204.687 |
| Unprocessed materials less energy..... | 00/82 | ID6 | 9213 | 291.683 | 280.750 | 280.376 | 275.933 | 272.902 |
| Unprocessed nonfood materials less energy ⁸ | 00/82 | ID6 | 9216 | 465.233 | 454.250 | 445.450 | 432.651 | 435.973 |
| Intermediate Demand by Production Flow | | | | | | | | |
| Stage 4 Intermediate Demand | | | | | | | | |
| Stage 4 intermediate demand..... | | ID5 | 4 | 147.858 | 147.635 | 147.521 | 148.051 | 148.919 |
| Inputs to stage 4 goods producers..... | | ID5 | 41 | 146.517 | 146.428 | 145.841 | 145.706 | 145.671 |
| Goods..... | | ID5 | 411 | 140.255 | 139.988 | 139.833 | 139.380 | 139.176 |
| Foods..... | | ID5 | 4111 | 152.288 | 149.031 | 148.485 | 146.461 | 147.240 |
| Energy..... | | ID5 | 4112 | 152.748 | 136.867 | 142.419 | 141.956 | 149.246 |
| Goods excluding foods and energy..... | | ID5 | 4113 | 138.405 | 138.740 | 138.592 | 138.380 | 137.957 |
| Services..... | | ID5 | 412 | 167.361 | 167.865 | 165.840 | 166.764 | 167.286 |
| Trade services..... | | ID5 | 4123 | 179.357 | 180.163 | 177.090 | 178.293 | 178.855 |
| Transportation and warehousing services..... | | ID5 | 4122 | 135.797 | 134.788 | 134.633 | 134.694 | 135.968 |
| Transportation of passengers..... | | ID5 | 41221 | 135.575 | 134.212 | 136.961 | 139.192 | 140.952 |
| Transportation and warehousing of goods..... | | ID5 | 41222 | 144.832 | 143.826 | 143.090 | 142.726 | 143.989 |
| Services less trade, transportation, and warehousing..... | | ID5 | 4121 | 129.180 | 129.255 | 129.809 | 130.127 | 130.257 |
| Inputs to stage 4 services producers..... | | ID5 | 42 | 144.450 | 144.482 | 144.560 | 145.501 | 146.595 |

See footnotes at end of table.

Table 3. Producer price indexes for Final Demand-Intermediate Demand groupings, seasonally adjusted — Continued

[August 2023, Index base Nov. 2009=100, unless otherwise indicated]

| Grouping | Other index base | Commodity code | | Seasonally adjusted index ¹ | | | | |
|---|------------------|----------------|-----------|--|-----------------------|------------------------|------------------------|------------------------|
| | | Group code | Item code | Apr. 2023 | May 2023 ^P | June 2023 ^P | July 2023 ^P | Aug. 2023 ^P |
| Goods..... | | ID5 | 421 | 145.716 | 144.663 | 144.717 | 144.911 | 146.637 |
| Foods..... | | ID5 | 4211 | 146.625 | 145.770 | 145.348 | 147.035 | 147.585 |
| Energy..... | | ID5 | 4212 | 140.941 | 138.166 | 138.551 | 138.094 | 143.632 |
| Goods excluding foods and energy..... | | ID5 | 4213 | 147.369 | 147.269 | 147.267 | 147.383 | 147.217 |
| Services..... | | ID5 | 422 | 143.812 | 144.204 | 144.289 | 145.479 | 146.361 |
| Trade services..... | | ID5 | 4223 | 160.344 | 160.397 | 158.383 | 161.596 | 160.966 |
| Transportation and warehousing services..... | | ID5 | 4222 | 150.510 | 148.885 | 148.761 | 150.748 | 150.453 |
| Transportation of passengers..... | | ID5 | 42221 | 135.055 | 133.706 | 136.426 | 138.637 | 140.381 |
| Transportation and warehousing of goods..... | | ID5 | 42222 | 153.763 | 152.085 | 151.477 | 153.434 | 152.790 |
| Services less trade, transportation, and warehousing..... | | ID5 | 4221 | 140.317 | 140.953 | 141.285 | 142.166 | 143.327 |
| Construction..... | | ID5 | 423 | 143.439 | 145.429 | 145.583 | 145.978 | 146.365 |
| Inputs to stage 4 construction producers..... | | ID5 | 43 | 162.547 | 160.959 | 161.111 | 161.404 | 163.340 |
| Goods..... | | ID5 | 431 | 166.849 | 165.249 | 165.442 | 165.629 | 168.188 |
| Energy..... | | ID5 | 4312 | 161.512 | 142.077 | 144.008 | 142.385 | 170.428 |
| Goods excluding foods and energy..... | | ID5 | 4313 | 171.208 | 171.366 | 171.396 | 171.771 | 171.802 |
| Services..... | | ID5 | 432 | 151.482 | 149.924 | 149.973 | 150.527 | 150.922 |
| Trade services..... | | ID5 | 4323 | 171.445 | 167.361 | 167.668 | 168.958 | 169.126 |
| Transportation and warehousing services..... | | ID5 | 4322 | 147.182 | 146.301 | 145.391 | 144.599 | 146.568 |
| Transportation of passengers..... | | ID5 | 43221 | 141.323 | 139.904 | 142.764 | 145.086 | 146.918 |
| Transportation and warehousing of goods..... | | ID5 | 43222 | 148.105 | 147.232 | 146.226 | 145.354 | 147.336 |
| Services less trade, transportation, and warehousing..... | | ID5 | 4321 | 130.708 | 131.059 | 131.258 | 131.667 | 131.653 |
| Stage 3 Intermediate Demand | | | | | | | | |
| Stage 3 intermediate demand..... | | ID5 | 3 | 147.585 | 145.513 | 145.265 | 144.532 | 145.780 |
| Inputs to stage 3 goods producers..... | | ID5 | 31 | 159.019 | 156.141 | 155.808 | 153.715 | 153.030 |
| Goods..... | | ID5 | 311 | 154.692 | 151.759 | 151.738 | 149.111 | 148.333 |
| Foods..... | | ID5 | 3111 | 171.522 | 161.985 | 164.272 | 161.031 | 158.975 |
| Energy..... | | ID5 | 3112 | 142.372 | 132.320 | 132.956 | 129.806 | 140.580 |
| Goods excluding foods and energy..... | | ID5 | 3113 | 152.557 | 152.785 | 151.764 | 149.361 | 148.430 |
| Services..... | | ID5 | 312 | 165.009 | 162.536 | 161.021 | 161.104 | 160.818 |
| Trade services..... | | ID5 | 3123 | 174.654 | 170.081 | 167.749 | 168.162 | 166.463 |
| Transportation and warehousing services..... | | ID5 | 3122 | 149.169 | 148.769 | 147.896 | 147.147 | 148.986 |
| Transportation of passengers..... | | ID5 | 31221 | 144.348 | 142.898 | 145.823 | 148.198 | 150.071 |
| Transportation and warehousing of goods..... | | ID5 | 31222 | 149.224 | 148.883 | 147.801 | 146.878 | 148.713 |
| Services less trade, transportation, and warehousing..... | | ID5 | 3121 | 133.045 | 133.519 | 133.650 | 134.194 | 134.488 |
| Inputs to stage 3 services producers..... | | ID5 | 32 | 138.127 | 136.619 | 136.413 | 136.619 | 139.267 |
| Goods..... | | ID5 | 321 | 128.123 | 119.598 | 118.643 | 117.945 | 133.923 |
| Foods..... | | ID5 | 3211 | 156.889 | 157.524 | 155.246 | 155.318 | 157.050 |
| Energy..... | | ID5 | 3212 | 129.087 | 115.285 | 113.922 | 112.959 | 139.306 |
| Goods excluding foods and energy..... | | ID5 | 3213 | 136.326 | 135.873 | 135.561 | 135.242 | 135.195 |
| Services..... | | ID5 | 322 | 140.604 | 140.898 | 140.883 | 141.325 | 140.495 |
| Trade services..... | | ID5 | 3223 | 193.235 | 191.451 | 192.918 | 197.072 | 196.006 |
| Transportation and warehousing services..... | | ID5 | 3222 | 160.728 | 160.131 | 160.722 | 161.877 | 159.761 |
| Transportation of passengers..... | | ID5 | 32221 | 104.357 | 104.362 | 104.281 | 104.497 | 104.742 |
| Transportation and warehousing of goods..... | | ID5 | 32222 | 161.220 | 160.620 | 161.215 | 162.375 | 160.247 |
| Services less trade, transportation, and warehousing..... | | ID5 | 3221 | 132.411 | 133.074 | 132.804 | 132.827 | 132.362 |
| Construction..... | | ID5 | 323 | 143.439 | 145.429 | 145.583 | 145.978 | 146.365 |
| Inputs to stage 3 construction producers..... | | ID5 | 33 | 137.359 | 137.011 | 138.146 | 140.099 | 141.135 |
| Goods..... | | ID5 | 331 | 134.118 | 133.987 | 133.950 | 134.198 | 133.660 |
| Goods excluding foods and energy..... | | ID5 | 3313 | 170.898 | 170.732 | 170.684 | 171.001 | 170.315 |
| Services..... | | ID5 | 332 | 159.425 | 158.773 | 161.457 | 165.691 | 168.734 |
| Trade services..... | | ID5 | 3323 | 163.509 | 162.731 | 165.777 | 170.462 | 173.807 |
| Transportation and warehousing services..... | | ID5 | 3322 | 113.799 | 114.042 | 113.187 | 112.897 | 113.734 |
| Transportation and warehousing of goods..... | | ID5 | 33222 | 120.119 | 120.376 | 119.473 | 119.167 | 120.050 |
| Services less trade, transportation, and warehousing..... | | ID5 | 3321 | 124.858 | 125.380 | 125.192 | 125.860 | 126.054 |
| Stage 2 Intermediate Demand | | | | | | | | |
| Stage 2 intermediate demand..... | | ID5 | 2 | 135.438 | 133.573 | 132.183 | 134.482 | 135.412 |
| Inputs to stage 2 goods producers..... | | ID5 | 21 | 124.323 | 120.527 | 118.074 | 122.340 | 124.255 |
| Goods..... | | ID5 | 211 | 120.493 | 115.166 | 112.330 | 117.556 | 120.358 |
| Foods..... | | ID5 | 2111 | 164.170 | 160.082 | 154.889 | 161.755 | 159.783 |
| Energy..... | | ID5 | 2112 | 87.661 | 80.167 | 77.871 | 86.090 | 90.919 |
| Goods excluding foods and energy..... | | ID5 | 2113 | 147.792 | 146.813 | 144.065 | 142.670 | 142.542 |
| Services..... | | ID5 | 212 | 149.227 | 150.005 | 148.524 | 150.114 | 149.307 |
| Trade services..... | | ID5 | 2123 | 167.467 | 168.738 | 165.635 | 168.470 | 166.443 |
| Transportation and warehousing services..... | | ID5 | 2122 | 166.395 | 166.636 | 165.518 | 167.683 | 167.802 |
| Transportation of passengers..... | | ID5 | 21221 | 135.975 | 134.674 | 137.294 | 139.439 | 141.135 |
| Transportation and warehousing of goods..... | | ID5 | 21222 | 168.188 | 168.503 | 167.202 | 169.372 | 169.415 |
| Services less trade, transportation, and warehousing..... | | ID5 | 2121 | 136.220 | 137.095 | 136.901 | 136.743 | 136.308 |
| Construction..... | | ID5 | 213 | 143.439 | 145.429 | 145.583 | 145.978 | 146.365 |

See footnotes at end of table.

Table 3. Producer price indexes for Final Demand-Intermediate Demand groupings, seasonally adjusted — Continued

[August 2023, Index base Nov. 2009=100, unless otherwise indicated]

| Grouping | Other index base | Commodity code | | Seasonally adjusted index ¹ | | | | |
|--|------------------|----------------|-----------|--|-----------------------|------------------------|------------------------|------------------------|
| | | Group code | Item code | Apr. 2023 | May 2023 ^P | June 2023 ^P | July 2023 ^P | Aug. 2023 ^P |
| Inputs to stage 2 services producers..... | | ID5 | 22 | 144.495 | 145.080 | 145.064 | 144.837 | 144.508 |
| Goods..... | | ID5 | 221 | 145.789 | 144.288 | 143.864 | 143.710 | 144.730 |
| Foods..... | | ID5 | 2211 | 121.363 | 117.881 | 115.665 | 115.111 | 113.447 |
| Energy..... | | ID5 | 2212 | 162.952 | 143.513 | 141.646 | 142.406 | 165.401 |
| Goods excluding foods and energy..... | | ID5 | 2213 | 145.299 | 145.003 | 144.698 | 144.488 | 144.095 |
| Services..... | | ID5 | 222 | 143.939 | 144.747 | 144.778 | 144.529 | 144.019 |
| Trade services..... | | ID5 | 2223 | 177.485 | 183.856 | 183.013 | 181.089 | 183.169 |
| Transportation and warehousing services..... | | ID5 | 2222 | 145.546 | 144.462 | 146.681 | 146.062 | 138.997 |
| Transportation of passengers..... | | ID5 | 22221 | 135.999 | 134.642 | 137.377 | 139.601 | 141.355 |
| Transportation and warehousing of goods..... | | ID5 | 22222 | 147.876 | 146.838 | 148.970 | 147.825 | 139.108 |
| Services less trade, transportation, and warehousing..... | | ID5 | 2221 | 143.113 | 143.806 | 143.716 | 143.570 | 143.422 |
| Construction..... | | ID5 | 223 | 143.439 | 145.429 | 145.583 | 145.978 | 146.365 |
| Stage 1 Intermediate Demand | | | | | | | | |
| Stage 1 intermediate demand..... | | ID5 | 1 | 145.561 | 144.149 | 143.816 | 143.891 | 146.128 |
| Inputs to stage 1 goods producers..... | | ID5 | 11 | 147.425 | 145.216 | 143.917 | 143.292 | 143.894 |
| Goods..... | | ID5 | 111 | 145.840 | 143.703 | 142.472 | 140.928 | 142.262 |
| Foods..... | | ID5 | 1111 | 160.245 | 155.209 | 154.598 | 150.608 | 150.109 |
| Energy..... | | ID5 | 1112 | 129.978 | 120.236 | 120.198 | 121.002 | 129.315 |
| Goods excluding foods and energy..... | | ID5 | 1113 | 150.954 | 151.087 | 149.432 | 147.698 | 147.690 |
| Services..... | | ID5 | 112 | 155.734 | 153.261 | 151.719 | 153.673 | 152.221 |
| Trade services..... | | ID5 | 1123 | 172.530 | 168.033 | 165.069 | 167.742 | 165.232 |
| Transportation and warehousing services..... | | ID5 | 1122 | 154.337 | 156.720 | 155.455 | 155.926 | 157.660 |
| Transportation of passengers..... | | ID5 | 11221 | 135.549 | 134.186 | 136.934 | 139.166 | 140.925 |
| Transportation and warehousing of goods..... | | ID5 | 11222 | 157.236 | 160.522 | 158.273 | 158.300 | 160.008 |
| Services less trade, transportation, and warehousing..... | | ID5 | 1121 | 109.535 | 109.229 | 109.681 | 110.629 | 110.280 |
| Construction..... | | ID5 | 113 | 143.439 | 145.429 | 145.583 | 145.978 | 146.365 |
| Inputs to stage 1 services producers..... | | ID5 | 12 | 143.621 | 142.730 | 142.896 | 143.320 | 146.298 |
| Goods..... | | ID5 | 121 | 146.757 | 143.146 | 142.302 | 141.528 | 148.446 |
| Foods..... | | ID5 | 1211 | 205.080 | 150.512 | 131.249 | 131.124 | 131.636 |
| Energy..... | | ID5 | 1212 | 157.479 | 146.425 | 144.206 | 141.735 | 163.986 |
| Goods excluding foods and energy..... | | ID5 | 1213 | 149.347 | 149.401 | 149.293 | 149.275 | 149.345 |
| Services..... | | ID5 | 122 | 141.640 | 141.898 | 142.488 | 143.416 | 144.719 |
| Trade services..... | | ID5 | 1223 | 171.422 | 171.587 | 171.972 | 173.981 | 173.920 |
| Transportation and warehousing services..... | | ID5 | 1222 | 142.079 | 141.451 | 142.070 | 143.951 | 145.319 |
| Transportation of passengers..... | | ID5 | 12221 | 135.468 | 134.106 | 136.853 | 139.082 | 140.841 |
| Transportation and warehousing of goods..... | | ID5 | 12222 | 160.752 | 160.444 | 160.003 | 161.899 | 163.206 |
| Services less trade, transportation, and warehousing..... | | ID5 | 1221 | 137.001 | 137.392 | 137.991 | 138.667 | 140.081 |
| Construction..... | | ID5 | 123 | 143.439 | 145.429 | 145.583 | 145.978 | 146.365 |
| Inputs to stage 1 construction producers..... | | ID5 | 13 | 160.888 | 159.160 | 159.209 | 159.640 | 163.219 |
| Goods..... | | ID5 | 131 | 163.696 | 161.756 | 161.272 | 160.876 | 164.944 |
| Energy..... | | ID5 | 1312 | 143.945 | 125.330 | 121.165 | 116.023 | 152.235 |
| Goods excluding foods and energy..... | | ID5 | 1313 | 168.750 | 168.791 | 168.748 | 168.921 | 169.157 |
| Services..... | | ID5 | 132 | 155.022 | 153.803 | 155.160 | 157.618 | 160.023 |
| Trade services..... | | ID5 | 1323 | 162.677 | 161.144 | 163.413 | 167.152 | 169.774 |
| Transportation and warehousing services..... | | ID5 | 1322 | 121.785 | 121.367 | 120.413 | 119.497 | 121.369 |
| Transportation and warehousing of goods..... | | ID5 | 13222 | 125.971 | 125.539 | 124.552 | 123.604 | 125.540 |
| Services less trade, transportation, and warehousing..... | | ID5 | 1321 | 137.833 | 137.744 | 137.689 | 138.396 | 138.353 |
| Intermediate Demand by Production Flow Special Groupings | | | | | | | | |
| Total goods inputs to stage 4 intermediate demand..... | 04/10 | ID5 | 9411 | 144.169 | 143.409 | 143.389 | 143.264 | 144.186 |
| Total services inputs to stage 4 intermediate demand..... | 04/10 | ID5 | 9412 | 147.552 | 147.814 | 147.616 | 148.724 | 149.521 |
| Total construction inputs to stage 4 intermediate demand..... | 04/10 | ID5 | 9413 | 142.251 | 144.224 | 144.377 | 144.769 | 145.152 |
| Total foods inputs to stage 4 intermediate demand..... | 04/10 | ID5 | 9414 | 146.569 | 144.394 | 143.912 | 143.492 | 144.157 |
| Total energy goods inputs to stage 4 intermediate demand..... | 04/10 | ID5 | 9415 | 132.700 | 127.313 | 128.053 | 127.464 | 135.884 |
| Total goods less foods and energy inputs to stage 4 intermediate demand..... | 04/10 | ID5 | 9416 | 146.640 | 146.840 | 146.766 | 146.761 | 146.501 |
| Total goods inputs to stage 3 intermediate demand..... | 04/10 | ID5 | 9311 | 140.437 | 136.322 | 136.076 | 134.081 | 137.395 |
| Total services inputs to stage 3 intermediate demand..... | 04/10 | ID5 | 9312 | 143.716 | 143.549 | 143.311 | 143.726 | 143.029 |
| Total construction inputs to stage 3 intermediate demand..... | 04/10 | ID5 | 9313 | 142.251 | 144.224 | 144.377 | 144.769 | 145.152 |
| Total foods inputs to stage 3 intermediate demand..... | 04/10 | ID5 | 9314 | 152.553 | 144.142 | 146.143 | 143.283 | 141.482 |
| Total energy goods inputs to stage 3 intermediate demand..... | 04/10 | ID5 | 9315 | 128.587 | 115.607 | 114.566 | 113.297 | 136.828 |
| Total goods less foods and energy inputs to stage 3 intermediate demand..... | 04/10 | ID5 | 9316 | 143.952 | 144.060 | 143.207 | 141.270 | 140.516 |
| Total goods inputs to stage 2 intermediate demand..... | 04/10 | ID5 | 9211 | 117.189 | 112.500 | 110.038 | 114.481 | 116.972 |
| Total services inputs to stage 2 intermediate demand..... | 04/10 | ID5 | 9212 | 145.668 | 146.471 | 146.143 | 146.329 | 145.747 |
| Total construction inputs to stage 2 intermediate demand..... | 04/10 | ID5 | 9213 | 142.251 | 144.224 | 144.377 | 144.769 | 145.152 |
| Total foods inputs to stage 2 intermediate demand..... | 04/10 | ID5 | 9214 | 164.583 | 160.477 | 155.298 | 162.088 | 160.107 |
| Total energy goods inputs to stage 2 intermediate demand..... | 04/10 | ID5 | 9215 | 86.669 | 79.199 | 76.955 | 84.920 | 89.850 |
| Total goods less foods and energy inputs to stage 2 intermediate demand..... | 04/10 | ID5 | 9216 | 138.810 | 138.037 | 135.985 | 134.930 | 134.752 |
| Total goods inputs to stage 1 intermediate demand..... | 04/10 | ID5 | 9111 | 132.531 | 130.223 | 129.356 | 128.385 | 131.644 |

See footnotes at end of table.

Table 3. Producer price indexes for Final Demand-Intermediate Demand groupings, seasonally adjusted — Continued

[August 2023, Index base Nov. 2009=100, unless otherwise indicated]

| Grouping | Other index base | Commodity code | | Seasonally adjusted index ¹ | | | | |
|--|------------------|----------------|-----------|--|-----------------------|------------------------|------------------------|------------------------|
| | | Group code | Item code | Apr. 2023 | May 2023 ^p | June 2023 ^p | July 2023 ^p | Aug. 2023 ^p |
| Total services inputs to stage 1 intermediate demand..... | 04/10 | ID5 | 9112 | 144.194 | 143.886 | 144.151 | 145.353 | 146.240 |
| Total construction inputs to stage 1 intermediate demand..... | 04/10 | ID5 | 9117 | 142.251 | 144.224 | 144.377 | 144.769 | 145.152 |
| Total foods inputs to stage 1 intermediate demand..... | 04/10 | ID5 | 9114 | 151.740 | 145.855 | 144.847 | 141.184 | 140.739 |
| Total energy goods inputs to stage 1 intermediate demand..... | 04/10 | ID5 | 9115 | 140.041 | 129.248 | 127.803 | 126.486 | 143.641 |
| Total goods less foods and energy inputs to stage 1 intermediate demand..... | 04/10 | ID5 | 9116 | 127.772 | 127.847 | 127.145 | 126.471 | 126.526 |

¹ All indexes are subject to revision for 4 months after their originally scheduled publication to incorporate late reports and corrections by survey respondents. In addition, seasonally adjusted indexes are subject to change for up to 5 years due to the recalculation of seasonal factors published each January.

² PPI defines Total finished as including only the personal consumption and private capital investment portions of final demand.

³ Trade indexes measure changes in margins received by wholesalers and retailers.

⁴ The PPI definition of foods does not include food and beverages for immediate consumption. PPI defines food and beverages for immediate consumption as the service of preparing meals, snacks, and beverages to customer order for immediate on-premises and off-premises consumption.

⁵ Distributive services include transportation, warehousing, and trade of goods.

⁶ Includes intermediate trade, transportation, and warehousing services.

⁷ Includes crude petroleum.

⁸ Excludes crude petroleum.

p Preliminary

"/" Data not available.