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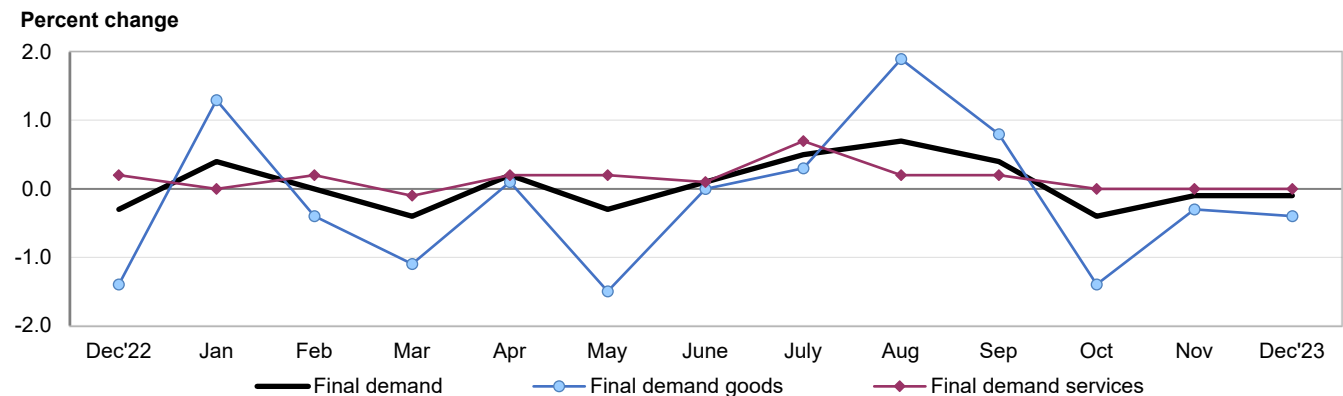
## PRODUCER PRICE INDEXES – DECEMBER 2023

The Producer Price Index for final demand fell 0.1 percent in December, seasonally adjusted, the U.S. Bureau of Labor Statistics reported today. Final demand prices moved down 0.1 percent in November and 0.4 percent in October. (See table A.) On an unadjusted basis, the index for final demand rose 1.0 percent in 2023 after increasing 6.4 percent in 2022.

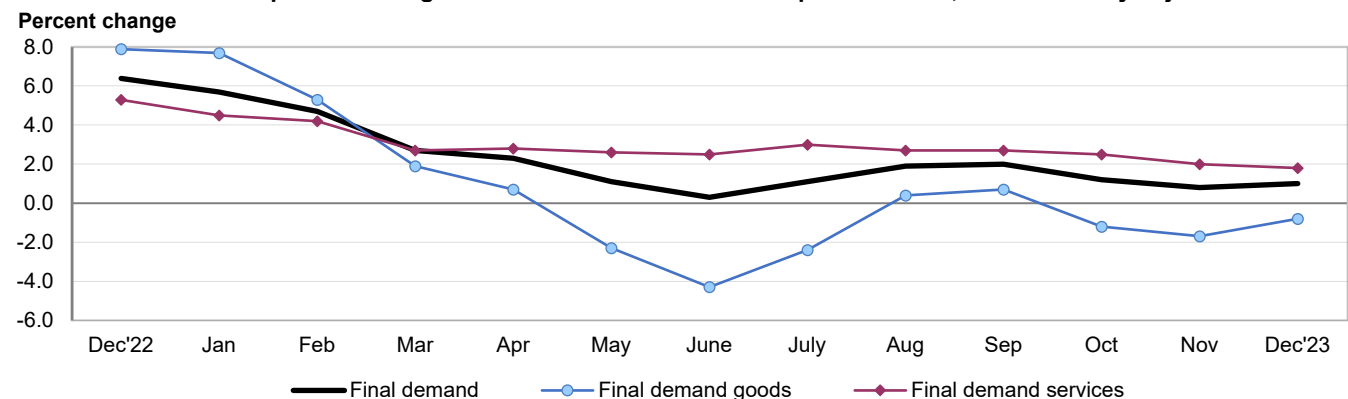
The December decrease in the index for final demand is attributable to a 0.4-percent drop in prices for final demand goods. The index for final demand services was unchanged.

The index for final demand less foods, energy, and trade services rose 0.2 percent in December after edging up 0.1 percent in both November and October. Prices for final demand less foods, energy, and trade services climbed 2.5 percent in 2023 following a 4.7-percent increase in 2022.

**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 fell 0.4 percent in December, the third consecutive decline. In December, nearly 60 percent of the decrease can be traced to a 1.2-percent drop in prices for final demand energy. The index for final demand foods moved down 0.9 percent, while prices for final demand goods less foods and energy were unchanged.

*Product detail:* In December, half of the decrease in the index for final demand goods is attributable to prices for diesel fuel, which dropped 12.4 percent. The indexes for jet fuel; eggs for fresh use; non-carbonated soft drinks; passenger cars; and hay, hayseeds, and oilseeds also moved lower. In contrast, prices for gasoline rose 2.1 percent. The indexes for carbonated soft drinks and for nonferrous scrap also increased. (See table 2.)

**Final demand services:** The index for final demand services remained unchanged in December, the same as in both November and October. In December, prices for final demand services less trade, transportation, and warehousing rose 0.4 percent. Conversely, the indexes for final demand trade services and for final demand transportation and warehousing services fell 0.8 percent and 0.4 percent, respectively. (Trade indexes measure changes in margins received by wholesalers and retailers.)

*Product detail:* Within the index for final demand services in December, prices for securities brokerage, dealing, and investment advice increased 3.3 percent. The indexes for consumer loans (partial), application software publishing, airline passenger services, and fuels and lubricants retailing also moved higher. In contrast, margins for machinery and vehicle wholesaling decreased 5.5 percent. The indexes for guestroom rental, long-distance motor carrying, automobiles and parts retailing, and apparel wholesaling also fell.

**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		
<b>2022</b>												
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
<b>2023</b>												
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. ....	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. ...	-0.3	0.0	-1.5	-1.0	-6.9	0.1	0.2	0.8	-0.5	0.0	1.1	2.9
June...	0.1	0.3	0.0	-0.3	0.8	-0.2	0.1	-0.7	0.0	0.5	0.3	2.9
July....	0.5	0.2	0.3	0.4	0.9	0.0	0.7	1.6	0.3	0.4	1.1	2.9
Aug. <sup>1</sup> ..	0.7	0.2	1.9	-0.4	10.2	0.1	0.2	0.1	-0.1	0.3	1.9	2.9
Sept. <sup>1</sup> ..	0.4	0.3	0.8	0.6	3.1	0.2	0.2	-0.1	0.1	0.4	2.0	2.9
Oct. <sup>1</sup> ...	-0.4	0.1	-1.4	-0.1	-6.7	0.0	0.0	-0.3	0.7	0.0	1.2	2.8
Nov. <sup>1</sup> ..	-0.1	0.1	-0.3	0.7	-2.4	0.1	0.0	-0.1	-0.2	0.1	0.8	2.4
Dec....	-0.1	0.2	-0.4	-0.9	-1.2	0.0	0.0	-0.8	-0.4	0.4	1.0	2.5

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

## Intermediate Demand by Commodity Type

Within intermediate demand in December, the index for processed goods fell 0.6 percent, prices for unprocessed goods dropped 4.4 percent, and the index for services rose 0.4 percent. (See tables B and C.)

**Processed goods for intermediate demand:** The index for processed goods for intermediate demand fell 0.6 percent in December, the third consecutive decline. In December, the decrease was led by a 3.8-percent drop in prices for processed energy goods. The index for processed foods and feeds fell 0.7 percent. Conversely, prices for processed materials less foods and energy rose 0.2 percent. The index for processed goods for intermediate demand fell 2.7 percent in 2023 after increasing 4.8 percent in 2022.

*Product detail:* Most of the December decrease in the index for processed goods for intermediate demand can be attributed to a 12.4-percent drop in prices for diesel fuel. The indexes for jet fuel, basic organic chemicals, prepared animal feeds, residual fuels, and natural gas to electric utilities also moved lower. In contrast, prices for cold rolled steel sheet and strip jumped 14.6 percent. The indexes for fabricated structural metal and for electric power also increased.

**Unprocessed goods for intermediate demand:** Prices for unprocessed goods for intermediate demand moved down 4.4 percent in December, the largest decline since falling 5.2 percent in May. Eighty percent of the December decrease can be traced to a 9.1-percent drop in the index for unprocessed energy materials. Prices for unprocessed foodstuffs and feedstuffs moved down 2.5 percent. Conversely, the index for unprocessed nonfood materials less energy increased 0.2 percent. Prices for unprocessed goods for intermediate demand fell 19.0 percent in 2023 after rising 10.7 percent in 2022.

*Product detail:* Over 80 percent of the decrease in the index for unprocessed goods for intermediate demand can be attributed to a 13.2-percent drop in prices for crude petroleum. The indexes for slaughter hogs; hay, hayseeds, and oilseeds; slaughter steers and heifers; corn; and carbon steel scrap also declined. In contrast, prices for nonferrous scrap increased 3.6 percent. The indexes for slaughter chickens and natural gas also moved higher.

**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.)
<b>2022</b>										
Dec.....	-2.5	-0.6	-9.8	-0.4	4.8	1.5	-0.2	5.2	-1.7	10.7
<b>2023</b>										
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.....	-0.5	-1.1	-2.9	0.2	-3.4	1.1	-1.5	3.7	1.8	-20.3
May.....	-1.6	-1.8	-7.0	-0.1	-7.2	-5.2	-4.6	-8.0	-2.1	-28.2
June.....	-0.5	-1.2	-0.5	-0.4	-9.4	-1.0	1.0	-2.8	-1.6	-32.1
July.....	-0.3	1.2	-0.1	-0.5	-7.6	2.4	-0.9	10.1	-3.1	-24.1
Aug. <sup>1</sup> ....	2.1	0.7	11.8	-0.2	-4.4	2.3	0.1	6.0	0.1	-26.2
Sept. <sup>1</sup> ....	0.6	0.7	2.4	0.0	-3.7	3.3	2.3	6.8	-0.7	-21.5
Oct. <sup>1</sup> ....	-1.0	-0.3	-4.5	-0.1	-4.6	-2.0	-3.1	-2.1	0.0	-14.8
Nov. <sup>1</sup> ....	-0.4	-0.6	-1.2	-0.2	-4.5	-2.4	-1.0	-5.8	0.9	-14.2
Dec.....	-0.6	-0.7	-3.8	0.2	-2.7	-4.4	-2.5	-9.1	0.2	-19.0

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

**Services for intermediate demand:** The index for services for intermediate demand climbed 0.4 percent in December, the largest increase since moving up 0.6 percent in July. Over 80 percent of the broad-based December rise can be traced to a 0.5-percent advance in prices for services less trade, transportation, and warehousing for intermediate demand. The indexes for trade services for intermediate demand and for transportation and warehousing services for intermediate demand also moved up, 0.4 percent and 0.1 percent, respectively. In 2023, prices for services for intermediate demand increased 3.4 percent following a 6.0-percent jump in 2022.

*Product detail:* Over 20 percent of the December increase in the index for services for intermediate demand can be attributed to prices for securities brokerage, dealing, and investment advice, which moved up 3.3 percent. The indexes for gross rents for retail properties; management, scientific, and technical consulting services; television advertising time sales; metals, minerals, and ores wholesaling; and airline passenger services also rose. Conversely, prices for business loans (partial) decreased 1.6 percent. The indexes for long-distance motor carrying and for food and alcohol wholesaling also fell.

**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	
<b>2022</b>					
Dec.....	0.0	-1.3	0.0	0.4	6.0
<b>2023</b>					
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.....	0.7	0.8	-1.1	1.0	4.4
May.....	0.2	-0.3	-0.3	0.4	3.9
June.....	0.1	-0.8	-0.1	0.4	4.4
July.....	0.6	2.1	0.9	0.1	4.7
Aug. <sup>1</sup> .....	-0.1	-0.5	-0.6	0.1	4.2
Sept. <sup>1</sup> .....	0.2	-0.5	0.6	0.3	3.9
Oct. <sup>1</sup> .....	0.0	1.8	0.6	-0.5	3.4
Nov. <sup>1</sup> .....	0.3	0.6	-0.2	0.3	3.0
Dec.....	0.4	0.4	0.1	0.5	3.4

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

### **Intermediate Demand by Production Flow**

**Stage 4 intermediate demand:** Prices for stage 4 intermediate demand increased 0.2 percent in December following a 0.1-percent rise in November. In December, the index for total services inputs to stage 4 intermediate demand moved up 0.4 percent, while prices for total goods inputs were unchanged. (See table D.) Increases in the indexes for securities brokerage, dealing, and investment advice; gross rents for retail properties; fabricated structural metal; portfolio management; electric power; and gasoline outweighed falling prices for diesel fuel, gross rents for office buildings, and business loans (partial). In 2023, the index for stage 4 intermediate demand rose 2.1 percent after moving up 5.9 percent in 2022.

**Stage 3 intermediate demand:** Prices for stage 3 intermediate demand declined 0.4 percent in December, the third consecutive decrease. In December, the index for total goods inputs to stage 3 intermediate demand fell 1.4 percent. In contrast, prices for total services inputs increased 0.4 percent. Decreases in the indexes for diesel fuel; jet fuel; slaughter hogs; slaughter steers and heifers; hay, hayseeds, and oilseeds; and business loans (partial) outweighed higher prices for television advertising time sales, slaughter chickens, and cold rolled steel sheet and strip. In 2023, the index for stage 3 intermediate demand declined 2.4 percent following a 5.1-percent rise in 2022.

**Stage 2 intermediate demand:** Prices for stage 2 intermediate demand decreased 1.6 percent in December, the largest decline since dropping 2.5 percent in March. In December, the index for total goods inputs to stage 2 intermediate demand fell 4.1 percent. Conversely, prices for total services inputs increased 0.2 percent. Decreases in the indexes for crude petroleum, business loans (partial), oilseeds, basic organic chemicals, guestroom rental, and non-corrugated paperboard outweighed rising prices for deposit services (partial), natural gas, and nonferrous scrap. In 2023, the index for stage 2 intermediate demand moved down 5.5 percent after increasing 7.7 percent in 2022.

**Stage 1 intermediate demand:** Prices for stage 1 intermediate demand fell 0.2 percent in December, the third consecutive decline. In December, the index for total goods inputs to stage 1 intermediate demand decreased 0.9 percent. In contrast, prices for total services inputs rose 0.4 percent. Declines in the indexes for diesel fuel, guestroom rental, basic organic chemicals, residual fuels, gross rents for office buildings, and long-distance motor carrying outweighed increases in prices for securities brokerage, dealing, and investment advice; gross rents for retail properties; and fabricated structural metal products. In 2023, the index for stage 1 intermediate demand fell 0.2 percent following a 5.4-percent rise in 2022.

**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	Ser-vices inputs	Total	Goods inputs	Ser-vices inputs	Total	Goods inputs	Ser-vices inputs	Total	Goods inputs	Ser-vices inputs
<b>2022</b>												
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
<b>2023</b>												
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.....	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.....	-0.2	-0.6	0.2	-1.4	-3.0	-0.1	-1.4	-4.1	0.6	-1.0	-1.8	-0.2
June.....	0.0	0.0	0.1	-0.1	-0.1	-0.2	-1.0	-2.2	-0.2	-0.1	-0.6	0.3
July.....	0.3	-0.1	0.7	-0.4	-1.4	0.5	1.9	4.0	0.4	0.1	-0.7	0.8
Aug. <sup>1</sup> ....	0.5	0.7	0.4	1.1	3.3	-0.6	0.7	2.3	-0.5	1.4	2.6	0.3
Sept. <sup>1</sup> ....	0.2	0.3	0.2	0.6	1.2	0.1	1.1	3.1	-0.4	0.3	0.3	0.3
Oct. <sup>1</sup> ....	-0.3	-0.5	-0.1	-0.6	-2.0	0.5	-0.3	-1.3	0.5	-0.4	-0.8	0.0
Nov. <sup>1</sup> ....	0.1	-0.1	0.3	-0.3	-1.2	0.4	-1.0	-2.4	0.2	-0.1	-0.5	0.4
Dec.....	0.2	0.0	0.4	-0.4	-1.4	0.4	-1.6	-4.1	0.2	-0.2	-0.9	0.4

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

**The Producer Price Index for January 2024 is scheduled to be released on Friday, February 16, 2024, at 8:30 a.m. (ET).**

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## **Recalculated Seasonal Adjustment Factors and Relative Importance Figures to be Available on February 14, 2024**

Each year with the release of PPI data for January, seasonal adjustment factors and relative importance figures are recalculated to reflect price movements from the just-completed calendar year. The following information relating to the seasonal-factor update will be available on February 14, 2024 (2 workdays prior to the release of PPI data for January 2024 on February 16, 2024):

- Direct seasonal factors for PPI commodity indexes for the year 2024,
- Recalculated seasonal factors for the last 5 years (2019-2023) for PPI commodity indexes,
- Recalculated seasonal factors for the last 5 years (2019-2023) for PPI Final Demand-Intermediate Demand indexes,
- Recalculated seasonal index data for the last 5 years (2019-2023) for Final Demand-Intermediate Demand and commodity indexes. This revision to seasonally adjusted indexes for the previous 5 years will be posted to the PPI database on the BLS website.

In addition, the following relative importance figure tables, which include values for December 2023, will be available on February 14, 2024:

- Final demand by individual commodities
- Final demand by component series
- Individual commodities of intermediate demand by commodity type
- Component series of intermediate demand by commodity type
- Individual commodities of intermediate demand by production flow
- Component series of intermediate demand by production flow
- Commodities, all levels
- Wherever-provided services and construction

This information will be available on the PPI website at [www.bls.gov/ppi](http://www.bls.gov/ppi) or by contacting the PPI Section of Index Analysis and Public Information at [ppi-info@bls.gov](mailto:ppi-info@bls.gov) or (202) 691-7705.

# 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](http://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/](http://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
	<b>SIC</b>	
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

Title	Code	PPI Detailed Report Issue
Candy, nut, and confectionery stores	5441	July 2000
<b>SIC</b>		
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
<b>NAICS</b>		
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
<b>NAICS</b>		
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.

## 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](http://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

## 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](http://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

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](http://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.)

*Industry-product code,  
discontinued SIC series*

pdu28\_#  
pdu331\_#  
  
pdu3711#111

*Provides data for:*

Chemicals and allied products  
Blast furnaces, steel works,  
and rolling and finishing mills  
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/](http://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> <a href="#">/pub/time.series/pc</a>
Industry Data - Discontinued (NAICS basis)	<a href="#">/pub/time.series/nd</a>
(SIC basis)	<a href="#">/pub/time.series/pd</a>
Commodity Data (incl. FD-ID)	<a href="#">/pub/time.series/wp</a>
Commodity Data – Discontinued	<a href="#">/pub/time.series/wd</a>
Special requests	<a href="#">/pub/special.requests/ppi</a>

### Additional information

The PPI homepage ([www.bls.gov/ppi](http://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](mailto: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**  
[December 2023]

Grouping	Commodity code		Relative Importance Dec. 2022 <sup>1</sup>	Unadjusted 12-month percent change <sup>2</sup> Dec. 2022 to Dec. 2023 <sup>P</sup>	Seasonally adjusted 1-month percent change <sup>2</sup>				
	Group code	Item code			July to Aug.	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>	Oct. to Nov. <sup>P</sup>	Nov. to Dec. <sup>P</sup>
<b>Final Demand</b>									
Final demand.....	FD	4	100.000	1.0	0.7	0.4	-0.4	-0.1	-0.1
Final demand goods.....	FD	41	30.653	-0.8	1.9	0.8	-1.4	-0.3	-0.4
Final demand foods.....	FD	411	5.940	-5.0	-0.4	0.6	-0.1	0.7	-0.9
Finished consumer foods <sup>3</sup> .....	FD	4111	4.511	-4.3	-0.2	0.6	0.1	0.6	-0.8
Finished consumer foods, crude.....	FD	41113	0.606	-41.4	-5.6	-3.6	-3.1	19.3	-6.4
Finished consumer foods, processed.....	FD	41112	3.905	1.5	0.3	0.9	0.3	-0.9	-0.3
Government purchased foods.....	FD	4112	0.406	0.7	0.2	1.3	1.0	-0.1	-0.7
Foods for export.....	FD	4113	1.023	-10.1	-1.5	0.6	-1.7	1.2	-1.6
Final demand energy.....	FD	412	5.853	-4.8	10.2	3.1	-6.7	-2.4	-1.2
Finished consumer energy goods <sup>3</sup> .....	FD	4121	4.451	-2.7	8.7	3.0	-7.5	-2.2	0.4
Government purchased energy.....	FD	4122	0.942	-10.2	15.7	3.2	-4.7	-2.3	-6.0
Energy for export.....	FD	4123	0.460	-14.1	15.1	4.0	-1.9	-4.3	-7.7
Final demand goods less foods and energy.....	FD	413	18.859	1.8	0.1	0.2	0.0	0.1	0.0
Finished goods less foods and energy <sup>3</sup> .....	FD	4131	10.768	2.6	0.2	0.2	0.0	0.2	0.0
Finished consumer goods less foods and energy.....	FD	41311	5.731	2.4	0.2	0.2	0.0	0.2	-0.1
Nondurable consumer goods less foods and energy.....	FD	413111	3.441	3.3	0.2	0.1	0.2	0.2	0.0
Durable consumer goods.....	FD	413112	2.290	1.1	0.1	0.2	-0.3	0.3	-0.2
Private capital equipment.....	FD	41312	5.037	2.7	0.2	0.2	0.0	0.2	0.0
Private capital equipment for manufacturing industries.....	FD	413121	1.222	3.7	0.2	0.1	0.1	0.2	0.1
Private capital equipment for nonmanufacturing industries.....	FD	413122	3.815	2.5	0.2	0.2	0.0	0.2	-0.1
Government purchased goods, excluding foods and energy.....	FD	4132	1.967	0.6	0.1	0.2	0.1	0.0	0.0
Government purchased goods excluding foods, energy, and capital equipment.....	FD	41321	1.160	-0.1	0.1	0.3	0.2	-0.2	0.0
Government purchased capital equipment.....	FD	41322	0.807	1.8	0.2	0.1	0.1	0.2	0.0
Goods for export, excluding foods and energy.....	FD	4133	6.124	0.7	0.0	0.1	0.0	0.1	0.1
Final demand services.....	FD	42	66.677	1.8	0.2	0.2	0.0	0.0	0.0
Final demand trade services <sup>4</sup> .....	FD	423	19.700	-0.8	0.1	-0.1	-0.3	-0.1	-0.8
Trade of finished goods <sup>3</sup> .....	FD	4231	17.049	-1.3	0.1	-0.1	-0.4	-0.3	-0.7
Trade of personal consumption goods.....	FD	42311	13.855	-0.7	0.1	-0.3	-0.3	-0.4	-0.2
Trade of private capital equipment.....	FD	42312	3.194	-3.9	0.2	0.5	-1.2	0.2	-3.1
Trade of government purchased goods.....	FD	4232	0.750	2.1	-0.3	0.0	0.4	0.7	-1.4
Trade of government purchased goods, excluding capital equipment.....	FD	42321	0.457	5.6	-0.7	-0.4	1.3	0.5	0.4
Trade of government purchased capital equipment.....	FD	42322	0.293	-3.2	0.3	0.6	-1.0	1.0	-4.2
Trade of exports.....	FD	4233	1.901	2.4	-0.3	-0.2	0.9	0.9	-1.3
Final demand transportation and warehousing services.....	FD	422	5.213	-4.5	-0.1	0.1	0.7	-0.2	-0.4
Transportation of passengers for final demand.....	FD	4221	1.275	-0.1	-2.1	-3.2	2.1	-0.6	2.1
Transportation of private passengers.....	FD	42211	0.860	-0.1	-2.1	-3.2	2.1	-0.6	2.1
Transportation of government passengers.....	FD	42212	0.103	-0.1	-2.1	-3.2	2.1	-0.6	2.1
Transportation of passengers for export.....	FD	42213	0.312	-0.1	-2.2	-3.3	2.1	-0.6	2.1
Transportation and warehousing of goods for final demand.....	FD	4222	3.938	-6.0	0.6	1.3	0.3	-0.1	-1.2
Transportation and warehousing of finished goods <sup>3</sup> .....	FD	42221	2.567	-6.7	0.6	1.3	0.2	-0.1	-1.3
Transportation and warehousing of personal consumption goods.....	FD	422211	2.063	-6.4	0.6	1.3	0.2	-0.1	-1.3
Transportation and warehousing of private capital equipment.....	FD	422212	0.504	-7.7	0.6	1.4	0.2	-0.1	-1.4
Transportation and warehousing of government purchased goods.....	FD	42222	0.233	-4.7	0.4	1.2	0.2	-0.1	-1.0
Transportation and warehousing of exports.....	FD	42223	1.138	-4.7	0.8	1.2	0.4	-0.1	-1.0
Final demand services less trade, transportation, and warehousing.....	FD	421	41.763	3.8	0.3	0.4	0.0	0.1	0.4
Finished services less trade, transportation, and warehousing <sup>3</sup> .....	FD	4211	36.505	3.7	0.3	0.4	0.1	0.1	0.3
Finished consumer services less trade, transportation, and warehousing.....	FD	42111	32.158	3.6	0.2	0.4	0.1	0.1	0.3
Private capital investment services less trade, transportation, and warehousing.....	FD	42112	4.347	4.1	0.7	0.2	0.3	-0.1	0.7
Government purchased services less trade, transportation, and warehousing.....	FD	4212	2.674	3.8	0.4	0.3	-0.4	0.1	0.6
Gov. purchased services less trade, transportation, and warehousing, excl. capital investment.....	FD	42121	2.515	3.8	0.4	0.3	-0.4	0.1	0.6
Government purchased capital investment services less trade, transportation, and warehousing.....	FD	42122	0.159	3.7	0.6	-0.2	0.5	-1.0	1.2
Services for export less trade, transportation, and warehousing.....	FD	4213	2.584	6.2	0.2	0.6	-0.5	-0.3	1.1
Final demand construction.....	FD	43	2.670	0.5	0.1	0.1	-0.3	-0.1	0.1
Construction for private capital investment.....	FD	431	1.856	0.5	0.1	0.1	-0.4	-0.2	0.1
Construction for government.....	FD	432	0.814	0.6	0.0	0.0	-0.2	-0.1	0.0
<b>Special Groupings of Final Demand</b>									
Final demand less exports.....	FD	49101	86.458	1.1	0.8	0.4	-0.5	-0.1	-0.1
Final demand less government.....	FD	49102	92.111	1.0	0.6	0.4	-0.4	-0.1	-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**  
[December 2023]

Grouping	Commodity code		Relative Importance Dec. 2022 <sup>1</sup>	Unadjusted 12-month percent change <sup>2</sup> Dec. 2022 to Dec. 2023 <sup>P</sup>	Seasonally adjusted 1-month percent change <sup>2</sup>				
	Group code	Item code			July to Aug.	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>	Oct. to Nov. <sup>P</sup>	Nov. to Dec. <sup>P</sup>
Final demand less foods, food and nonalcoholic beverages for immediate consumption, and energy <sup>5</sup> .....	FD	49103	87.791	1.6	0.2	0.2	0.0	0.0	-0.1
Final demand less foods and energy <sup>5</sup> .....	FD	49104	88.207	1.8	0.2	0.2	0.0	0.0	0.0
Final demand less foods and food and nonalcoholic beverages for immediate consumption <sup>5</sup> .....	FD	49105	93.644	1.2	0.8	0.4	-0.5	-0.1	-0.1
Final demand less foods <sup>5</sup> .....	FD	49106	94.060	1.4	0.8	0.4	-0.5	-0.1	-0.1
Final demand less energy.....	FD	49107	94.147	1.3	0.1	0.2	0.0	0.1	-0.1
Final demand less trade services.....	FD	49108	80.300	1.4	0.9	0.5	-0.5	-0.1	0.0
Final demand less distributive services <sup>6</sup> .....	FD	49109	76.362	1.8	0.9	0.5	-0.5	-0.1	0.1
Final demand goods less energy.....	FD	49111	24.799	0.2	0.0	0.3	0.0	0.3	-0.2
Final demand goods less foods.....	FD	49112	24.712	0.2	2.4	0.9	-1.7	-0.5	-0.3
Final demand services less trade services.....	FD	49113	46.976	2.9	0.3	0.4	0.1	0.0	0.3
Final demand distributive services <sup>6</sup> .....	FD	49114	23.638	-1.7	0.2	0.1	-0.2	-0.1	-0.9
Final demand goods plus final demand distributive services <sup>6</sup> .....	FD	49115	54.290	-1.2	1.2	0.5	-0.9	-0.2	-0.6
Final demand less foods, energy, and trade services <sup>5</sup> .....	FD	49116	68.507	2.5	0.2	0.3	0.1	0.1	0.2
Private and government purchased capital equipment.....	FD	49117	5.844	2.6	0.2	0.2	0.0	0.2	0.0
Private and government purchased capital investment services.....	FD	49118	8.497	0.1	0.5	0.4	-0.3	0.1	-1.0
Total private and government purchased capital investment.....	FD	49119	14.341	1.0	0.3	0.3	-0.2	0.1	-0.5
Total finished <sup>3</sup> .....	FD	49201	78.567	1.2	0.7	0.4	-0.5	-0.1	-0.1
Total finished less foods, food and nonalcoholic beverages for immediate consumption, and energy <sup>3, 5</sup> .....	FD	49202	69.193	1.8	0.2	0.2	0.0	0.0	0.0
Total finished less foods and energy <sup>3, 5</sup> .....	FD	49203	69.605	1.8	0.2	0.2	0.0	0.0	0.0
Total finished less foods and food and nonalcoholic beverages for immediate consumption <sup>3, 5</sup> .....	FD	49204	73.644	1.5	0.7	0.4	-0.5	-0.1	0.0
Total finished less foods <sup>3, 5</sup> .....	FD	49205	74.056	1.5	0.7	0.4	-0.5	-0.1	0.0
Total finished less energy <sup>3</sup> .....	FD	49206	74.116	1.4	0.2	0.2	0.0	0.0	-0.1
Finished goods <sup>3</sup> .....	FD	49207	19.730	-0.2	2.1	0.9	-1.8	-0.3	-0.1
Finished goods less energy <sup>3</sup> .....	FD	49208	15.279	0.5	0.1	0.3	0.0	0.3	-0.3
Finished goods, excluding foods <sup>3, 5</sup> .....	FD	49209	15.219	1.0	2.7	1.0	-2.4	-0.5	0.1
Finished services <sup>3</sup> .....	FD	49210	56.981	1.7	0.2	0.2	0.0	0.0	0.0
Private capital investment services.....	FD	49211	8.045	0.2	0.5	0.4	-0.3	0.0	-0.9
Finished distributive services <sup>3, 6</sup> .....	FD	49212	19.616	-2.0	0.2	0.0	-0.4	-0.2	-0.8
Finished services less trade services <sup>3</sup> .....	FD	49213	39.932	2.9	0.3	0.4	0.2	0.1	0.3
Finished services less distributive services <sup>3, 6</sup> .....	FD	49214	37.365	3.6	0.2	0.3	0.2	0.1	0.4
Total private capital investment (goods, services, and construction).....	FD	49215	14.938	1.1	0.4	0.3	-0.2	0.1	-0.5
Finished goods plus finished distributive services <sup>3, 6</sup> .....	FD	49216	39.346	-1.1	1.1	0.5	-1.1	-0.3	-0.5
Total exports.....	FD	49301	13.542	0.2	0.3	0.3	-0.1	0.0	-0.3
Goods for export.....	FD	49302	7.607	-1.6	0.6	0.4	-0.3	0.0	-0.5
Services for export.....	FD	49303	5.935	2.6	0.0	0.2	0.2	0.1	0.0
Total government purchases.....	FD	49401	7.889	0.4	1.8	0.6	-0.6	-0.2	-0.6
Government purchased goods.....	FD	49402	3.315	-2.4	4.2	1.2	-1.2	-0.7	-1.7
Government purchased services.....	FD	49403	3.760	2.8	0.2	0.2	-0.1	0.2	0.2
Total government purchased capital investment (goods, services, construction).....	FD	49404	2.073	0.8	0.2	0.1	-0.2	0.1	-0.5
Government purchases, defense.....	FD	49405	2.344	0.0	2.1	0.9	-0.5	-0.4	-1.4
Government purchases, non-defense.....	FD	49406	5.545	0.6	1.7	0.5	-0.6	-0.1	-0.3
Personal consumption.....	FD	49501	63.629	1.2	0.8	0.4	-0.6	-0.1	0.0
Personal consumption goods (finished consumer goods).....	FD	49502	14.693	-1.2	2.7	1.2	-2.5	-0.4	-0.2
Personal consumption goods less energy.....	FD	49503	10.242	-0.5	0.0	0.3	0.1	0.4	-0.4
Personal consumption goods less foods.....	FD	49504	10.182	0.2	3.9	1.5	-3.5	-0.9	0.1
Personal consumption nondurable goods less foods.....	FD	49508	7.892	-0.1	5.0	1.8	-4.4	-1.2	0.2
Personal consumption services.....	FD	49505	48.936	1.9	0.2	0.2	0.0	0.0	0.1
Personal consumption less trade services.....	FD	49506	49.774	1.7	0.9	0.6	-0.6	-0.1	0.1
Personal consumption less distributive services <sup>6</sup> .....	FD	49507	47.711	2.1	0.9	0.6	-0.7	-0.1	0.2
Personal consumption less foods and energy.....	FD	49510	54.667	2.0	0.2	0.2	0.0	0.0	0.1
Personal consumption less foods, energy, and trade services <sup>4</sup> .....	FD	49511	40.812	2.9	0.2	0.3	0.1	0.1	0.2
Personal consumption less foods, energy, and distributive services <sup>6</sup> .....	FD	49512	38.749	3.4	0.2	0.3	0.1	0.1	0.3
Personal consumption goods plus personal consumption distributive services <sup>6</sup> .....	FD	49509	30.611	-1.3	1.4	0.5	-1.3	-0.4	-0.3
<b>Intermediate Demand by Commodity Type</b>									
<b>Processed goods</b>									
Processed goods for intermediate demand.....	ID6	1	100.000	-2.7	2.1	0.6	-1.0	-0.4	-0.6
Materials and components for manufacturing.....	ID6	11	42.908	-2.3	-0.2	0.1	-0.2	-0.4	0.2
Materials for manufacturing.....	ID6	111	26.996	-4.7	-0.3	0.1	-0.3	-0.7	0.2
Materials for food manufacturing.....	ID6	1111	4.432	-5.1	0.9	0.9	0.2	-0.7	-0.5
Materials for nondurable manufacturing.....	ID6	1112	12.302	-7.1	-0.2	0.8	0.5	-0.8	-0.5
Materials for durable manufacturing.....	ID6	1113	10.262	-1.6	-1.0	-1.1	-1.5	-0.5	1.3
Components for manufacturing.....	ID6	112	15.912	1.9	0.0	0.1	0.1	0.1	0.3

See footnotes at end of table.

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

Grouping	Commodity code		Relative Importance Dec. 2022 <sup>1</sup>	Unadjusted 12-month percent change <sup>2</sup> Dec. 2022 to Dec. 2023 <sup>P</sup>	Seasonally adjusted 1-month percent change <sup>2</sup>				
	Group code	Item code			July to Aug.	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>	Oct. to Nov. <sup>P</sup>	Nov. to Dec. <sup>P</sup>
Components for nondurable manufacturing.....	ID6	1121	0.793	-1.5	-0.1	-0.4	0.0	0.1	0.4
Components for durable manufacturing.....	ID6	1122	15.119	2.0	0.1	0.1	0.1	0.1	0.3
Materials and components for construction.....	ID6	12	10.348	1.4	0.1	0.3	0.0	0.2	0.3
Materials for construction.....	ID6	121	4.574	0.9	0.2	0.6	-0.4	0.0	0.0
Components for construction.....	ID6	122	5.774	1.7	0.1	0.2	0.3	0.3	0.5
Processed fuels and lubricants for intermediate demand.....	ID6	13	19.830	-7.9	11.8	2.4	-4.5	-1.2	-3.8
Processed fuels and lubricants to manufacturing industries.....	ID6	131	5.016	-7.1	6.9	1.6	-0.2	0.0	-2.7
Processed fuels and lubricants to nonmanufacturing industries.....	ID6	132	14.814	-8.1	13.5	2.6	-5.9	-1.5	-4.1
Containers for intermediate demand.....	ID6	14	3.107	-3.1	-0.5	-0.4	-0.2	-0.4	0.3
Supplies for intermediate demand.....	ID6	15	23.807	-0.9	0.0	0.1	-0.1	-0.2	-0.1
Supplies to manufacturing industries.....	ID6	151	3.173	-0.9	-0.2	0.0	0.0	0.0	0.1
Supplies to nonmanufacturing industries.....	ID6	152	20.634	-0.9	0.1	0.2	-0.1	-0.2	-0.1
Supplies to nonmanufacturing industries, feeds.....	ID6	1521	2.363	-9.7	0.6	0.1	-1.7	-0.2	-1.7
Supplies to nonmanufacturing industries, other than feeds.....	ID6	1522	18.271	0.2	0.0	0.2	0.1	-0.2	0.0
<b>Unprocessed goods</b>									
Unprocessed goods for intermediate demand.....	ID6	2	100.000	-19.0	2.3	3.3	-2.0	-2.4	-4.4
Unprocessed foodstuffs and feedstuffs.....	ID6	21	36.058	-16.5	0.1	2.3	-3.1	-1.0	-2.5
Unprocessed nonfood materials.....	ID6	22	63.942	-20.5	3.6	3.9	-1.3	-3.3	-5.5
Unprocessed nonfood materials except fuel.....	ID6	221	45.514	-7.0	4.3	5.2	-1.9	-5.0	-6.9
Unprocessed nonfood materials except fuel to manufacturing industries.....	ID6	2211	43.610	-7.7	4.4	5.4	-2.0	-5.3	-7.3
Unprocessed nonfood materials except fuel to nonmanufacturing industries.....	ID6	2212	1.904	-8.4	1.2	0.4	0.3	0.5	0.6
Unprocessed fuel.....	ID6	222	18.428	-51.9	0.5	-2.9	1.6	6.2	1.4
Unprocessed fuel to manufacturing industries.....	ID6	2221	0.982	-19.3	1.3	-3.3	2.5	0.0	1.2
Unprocessed fuel to nonmanufacturing industries.....	ID6	2222	17.446	-53.7	0.4	-2.8	1.5	6.9	1.4
<b>Services</b>									
Services for intermediate demand.....	ID6	3	100.000	3.4	-0.1	0.2	0.0	0.3	0.4
Trade services for intermediate demand <sup>4</sup> .....	ID6	33	18.127	4.6	-0.5	-0.5	1.8	0.6	0.4
Trade services for manufacturing industries.....	ID6	331	8.929	4.8	-0.8	-0.9	1.9	0.9	0.3
Trade services for nonmanufacturing industries.....	ID6	332	9.198	4.3	-0.3	-0.2	1.6	0.3	0.4
Transportation and warehousing services for intermediate demand.....	ID6	32	14.516	-0.8	-0.6	0.6	0.6	-0.2	0.1
Transportation of passengers for intermediate demand.....	ID6	321	1.069	-0.1	-2.1	-3.2	2.1	-0.6	2.1
Transportation of passengers for manufacturing industries.....	ID6	3211	0.127	-0.1	-2.2	-3.2	2.1	-0.6	2.1
Transportation of passengers for nonmanufacturing industries.....	ID6	3212	0.942	-0.1	-2.1	-3.2	2.1	-0.6	2.1
Transportation and warehousing of goods for intermediate demand.....	ID6	322	13.447	-0.8	-0.5	0.9	0.5	-0.1	-0.1
Transportation and warehousing of goods for manufacturing industries.....	ID6	3221	2.941	-3.9	0.6	0.9	0.3	0.1	-0.8
Transportation and warehousing of goods for nonmanufacturing industries.....	ID6	3222	10.506	0.0	-0.8	0.9	0.5	-0.2	0.1
Services less trade, transportation, and warehousing for intermediate demand.....	ID6	31	67.357	4.0	0.1	0.3	-0.5	0.3	0.5
Services less trade, transportation, and warehousing for manufacturing industries.....	ID6	311	2.068	4.1	0.2	0.2	0.4	0.0	0.5
Services less trade, transportation, and warehousing for nonmanufacturing industries.....	ID6	312	65.288	4.0	0.1	0.3	-0.6	0.4	0.5
<b>Construction</b>									
Construction for intermediate demand.....	ID6	4	100.000	3.3	0.0	0.0	0.1	0.0	0.1
<b>Special Groupings of Intermediate Demand by Commodity Type</b>									
Processed materials less foods and feeds.....	ID6	9111	90.968	-2.5	2.3	0.6	-1.1	-0.4	-0.6
Processed foods and feeds.....	ID6	9112	9.032	-5.3	0.7	0.7	-0.3	-0.6	-0.7
Processed energy goods.....	ID6	9113	19.830	-7.9	11.8	2.4	-4.5	-1.2	-3.8
Processed materials less energy.....	ID6	9118	80.170	-1.4	-0.1	0.1	-0.1	-0.3	0.1
Processed materials less foods and energy.....	ID6	9115	71.138	-0.9	-0.2	0.0	-0.1	-0.2	0.2
Intermediate distributive services <sup>7</sup> .....	ID6	9116	31.574	2.3	-0.5	0.1	1.2	0.3	0.2
Processed goods plus intermediate distributive services.....	ID6	9117	-	-1.2	1.3	0.4	-0.4	-0.2	-0.4
Unprocessed materials less agricultural products.....	ID6	9211	58.389	-19.7	4.1	4.7	-1.2	-3.4	-5.9
Unprocessed energy materials <sup>8</sup> .....	ID6	9212	43.623	-28.7	6.0	6.8	-2.1	-5.8	-9.1
Unprocessed materials less energy.....	ID6	9213	56.377	-11.6	0.1	1.2	-1.9	-0.3	-1.4
Unprocessed nonfood materials less energy <sup>9</sup> .....	ID6	9216	20.319	-3.0	0.1	-0.7	0.0	0.9	0.2
<b>Intermediate Demand by Production Flow</b>									
<b>Stage 4 Intermediate Demand</b>									
Stage 4 intermediate demand.....	ID5	4	100.000	2.1	0.5	0.2	-0.3	0.1	0.2
Inputs to stage 4 goods producers.....	ID5	41	30.237	0.1	-0.1	-0.2	0.1	0.1	0.1
Goods.....	ID5	411	22.423	-1.5	-0.1	-0.1	-0.3	-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**  
 [December 2023]

Grouping	Commodity code		Relative Importance Dec. 2022 <sup>1</sup>	Unadjusted 12-month percent change <sup>2</sup> Dec. 2022 to Dec. 2023 <sup>P</sup>	Seasonally adjusted 1-month percent change <sup>2</sup>				
	Group code	Item code			July to Aug.	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>	Oct. to Nov. <sup>P</sup>	Nov. to Dec. <sup>P</sup>
Foods.....	ID5	4111	3.300	-9.0	0.6	-0.8	-1.6	0.5	-0.5
Energy.....	ID5	4112	0.220	-21.1	4.8	4.6	4.0	-7.2	-5.6
Goods excluding foods and energy.....	ID5	4113	18.903	0.1	-0.2	-0.1	-0.1	-0.1	0.2
Services.....	ID5	412	7.814	4.8	0.0	-0.3	1.2	0.8	0.2
Trade services.....	ID5	4123	5.817	5.6	0.0	-0.7	1.4	1.0	0.1
Transportation and warehousing services.....	ID5	4122	0.515	-2.5	0.0	0.3	1.0	0.1	-0.2
Transportation of passengers.....	ID5	41221	0.077	-0.1	-2.2	-3.3	2.1	-0.6	2.1
Transportation and warehousing of goods.....	ID5	41222	0.438	-2.9	0.5	1.0	0.8	0.2	-0.6
Services less trade, transportation, and warehousing.....	ID5	4121	1.482	4.2	-0.1	0.7	0.2	0.0	0.4
Inputs to stage 4 services producers.....	ID5	42	54.970	3.3	0.7	0.4	-0.5	0.3	0.3
Goods.....	ID5	421	13.984	0.1	1.2	0.6	-0.5	0.2	-0.3
Foods.....	ID5	4211	2.360	-3.1	0.5	1.3	-0.1	-1.3	-0.9
Energy.....	ID5	4212	4.133	0.3	4.0	1.0	-1.8	1.2	-0.7
Goods excluding foods and energy.....	ID5	4213	7.491	1.0	-0.1	0.1	0.0	0.1	0.1
Services.....	ID5	422	40.934	4.4	0.5	0.3	-0.5	0.3	0.5
Trade services.....	ID5	4223	4.078	3.9	-0.4	-0.6	1.4	0.7	0.1
Transportation and warehousing services.....	ID5	4222	3.742	1.6	-0.7	0.5	0.5	-0.3	0.3
Transportation of passengers.....	ID5	42221	0.490	-0.1	-2.1	-3.2	2.1	-0.6	2.1
Transportation and warehousing of goods.....	ID5	42222	3.252	1.8	-0.5	1.1	0.3	-0.2	0.0
Services less trade, transportation, and warehousing.....	ID5	4221	33.114	4.8	0.7	0.4	-0.9	0.3	0.6
Construction.....	ID5	423	0.052	3.3	0.0	0.0	0.1	0.0	0.1
Inputs to stage 4 construction producers.....	ID5	43	14.792	1.4	1.2	0.7	-0.5	-0.2	0.3
Goods.....	ID5	431	10.801	1.2	1.7	0.7	-1.1	-0.3	0.3
Energy.....	ID5	4312	0.855	-9.0	18.7	4.5	-11.5	-4.8	-1.5
Goods excluding foods and energy.....	ID5	4313	9.946	2.1	0.3	0.4	0.0	0.1	0.5
Services.....	ID5	432	3.991	1.8	-0.1	0.4	1.1	0.0	0.2
Trade services.....	ID5	4323	1.692	4.2	-0.3	0.2	2.0	0.0	0.8
Transportation and warehousing services.....	ID5	4322	0.725	-6.9	0.5	1.3	0.4	-0.1	-1.2
Transportation of passengers.....	ID5	43221	0.015	-0.1	-2.2	-3.2	2.1	-0.6	2.1
Transportation and warehousing of goods.....	ID5	43222	0.710	-7.1	0.5	1.4	0.4	-0.1	-1.3
Services less trade, transportation, and warehousing.....	ID5	4321	1.574	3.1	-0.1	0.3	0.6	0.0	0.1
<b>Stage 3 Intermediate Demand</b>									
Stage 3 intermediate demand.....	ID5	3	100.000	-2.4	1.1	0.6	-0.6	-0.3	-0.4
Inputs to stage 3 goods producers.....	ID5	31	45.352	-5.9	0.3	0.6	-0.6	-0.7	-0.2
Goods.....	ID5	311	35.807	-7.7	0.6	0.9	-1.2	-1.0	-0.3
Foods.....	ID5	3111	11.906	-16.5	2.2	2.6	-2.9	-2.5	-1.4
Energy.....	ID5	3112	1.292	-12.0	8.4	3.8	1.0	-3.2	-4.7
Goods excluding foods and energy.....	ID5	3113	22.609	-2.8	-0.6	-0.1	-0.6	-0.2	0.4
Services.....	ID5	312	9.545	0.8	-0.5	-0.3	1.6	0.4	0.0
Trade services.....	ID5	3123	5.175	3.4	-1.2	-1.0	2.5	0.8	0.5
Transportation and warehousing services.....	ID5	3122	3.002	-5.5	0.5	0.9	0.4	0.0	-0.9
Transportation of passengers.....	ID5	31221	0.144	-0.1	-2.2	-3.2	2.1	-0.6	2.1
Transportation and warehousing of goods.....	ID5	31222	2.858	-5.8	0.6	1.1	0.3	0.0	-1.1
Services less trade, transportation, and warehousing.....	ID5	3121	1.368	4.5	0.3	0.2	0.5	0.0	0.2
Inputs to stage 3 services producers.....	ID5	32	53.518	0.4	1.8	0.6	-0.7	-0.1	-0.6
Goods.....	ID5	321	10.628	-8.6	13.2	2.4	-4.3	-2.0	-5.1
Foods.....	ID5	3211	0.090	-3.7	1.1	-0.5	0.0	0.6	-0.9
Energy.....	ID5	3212	6.619	-13.4	22.6	3.8	-6.7	-3.1	-8.3
Goods excluding foods and energy.....	ID5	3213	3.919	-0.5	0.1	0.2	0.0	-0.1	-0.1
Services.....	ID5	322	42.317	2.6	-0.7	0.2	0.2	0.4	0.5
Trade services.....	ID5	3223	2.614	5.4	-0.6	-0.2	1.3	0.3	0.7
Transportation and warehousing services.....	ID5	3222	10.018	1.3	-1.2	0.7	0.7	-0.2	0.4
Transportation of passengers.....	ID5	32221	0.021	0.0	0.1	-0.2	0.0	0.0	0.1
Transportation and warehousing of goods.....	ID5	32222	9.997	1.3	-1.2	0.7	0.7	-0.2	0.4
Services less trade, transportation, and warehousing.....	ID5	3221	29.685	2.9	-0.5	0.0	0.0	0.6	0.5
Construction.....	ID5	323	0.573	3.3	0.0	0.0	0.1	0.0	0.1
Inputs to stage 3 construction producers.....	ID5	33	1.131	1.3	0.6	0.9	0.0	-0.1	-0.1
Goods.....	ID5	331	0.566	-1.5	0.0	0.2	-0.8	0.0	0.0
Goods excluding foods and energy.....	ID5	3313	0.566	-1.5	0.0	0.2	-0.8	0.0	0.0
Services.....	ID5	332	0.565	4.2	1.1	1.5	0.6	-0.2	-0.1
Trade services.....	ID5	3323	0.521	4.3	1.2	1.6	0.6	-0.2	-0.2
Transportation and warehousing services.....	ID5	3322	0.015	0.7	0.8	0.5	0.6	0.3	-0.1
Transportation and warehousing of goods.....	ID5	33222	0.015	0.7	0.8	0.5	0.6	0.3	-0.1
Services less trade, transportation, and warehousing.....	ID5	3321	0.029	4.0	-0.2	0.0	0.4	-0.2	0.5
<b>Stage 2 Intermediate Demand</b>									

See footnotes at end of table.

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

Grouping	Commodity code		Relative Importance Dec. 2022 <sup>1</sup>	Unadjusted 12-month percent change <sup>2</sup> Dec. 2022 to Dec. 2023 <sup>P</sup>	Seasonally adjusted 1-month percent change <sup>2</sup>				
	Group code	Item code			July to Aug.	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>	Oct. to Nov. <sup>P</sup>	Nov. to Dec. <sup>P</sup>
Stage 2 intermediate demand.....	ID5	2	100.000	-5.5	0.7	1.1	-0.3	-1.0	-1.6
Inputs to stage 2 goods producers.....	ID5	21	54.274	-12.0	1.5	2.4	-0.8	-1.9	-3.3
Goods.....	ID5	211	40.812	-17.0	2.5	3.5	-1.4	-2.7	-4.6
Foods.....	ID5	2111	4.355	-11.6	-1.4	1.6	-2.7	1.4	-2.8
Energy.....	ID5	2112	21.042	-28.2	6.1	6.9	-2.5	-5.8	-8.8
Goods excluding foods and energy.....	ID5	2113	15.415	-3.2	-0.2	0.2	0.2	-0.3	-0.4
Services.....	ID5	212	13.197	3.0	-0.9	-0.5	0.8	0.4	0.1
Trade services.....	ID5	2123	5.150	3.2	-2.0	-1.2	1.6	0.7	0.0
Transportation and warehousing services.....	ID5	2122	4.488	1.4	0.1	0.0	0.3	0.1	0.2
Transportation of passengers.....	ID5	21221	0.168	-0.1	-2.1	-3.1	2.0	-0.6	2.0
Transportation and warehousing of goods.....	ID5	21222	4.320	1.4	0.2	0.1	0.3	0.1	0.1
Services less trade, transportation, and warehousing.....	ID5	2121	3.559	4.6	-0.4	-0.2	0.3	0.1	0.1
Construction.....	ID5	213	0.265	3.3	0.0	0.0	0.1	0.0	0.1
Inputs to stage 2 services producers.....	ID5	22	45.725	2.3	-0.3	-0.2	0.3	0.1	0.1
Goods.....	ID5	221	5.072	-1.6	0.8	0.3	-0.3	-0.3	-0.3
Foods.....	ID5	2211	0.055	-13.5	-1.8	0.1	-0.7	1.6	-1.0
Energy.....	ID5	2212	0.357	-14.5	15.6	2.2	-7.7	-1.5	-4.3
Goods excluding foods and energy.....	ID5	2213	4.660	-0.5	-0.1	0.2	0.3	-0.2	0.0
Services.....	ID5	222	39.767	2.7	-0.4	-0.3	0.3	0.1	0.2
Trade services.....	ID5	2223	2.238	0.7	1.3	-1.1	5.2	-1.0	1.4
Transportation and warehousing services.....	ID5	2222	2.862	-7.0	-4.6	0.5	1.2	-0.3	1.1
Transportation of passengers.....	ID5	22221	0.390	-0.1	-2.1	-3.2	2.1	-0.6	2.1
Transportation and warehousing of goods.....	ID5	22222	2.472	-8.0	-5.1	1.1	1.0	-0.2	1.0
Services less trade, transportation, and warehousing.....	ID5	2221	34.667	3.7	-0.2	-0.3	0.0	0.2	0.1
Construction.....	ID5	223	0.886	3.3	0.0	0.0	0.1	0.0	0.1
<b>Stage 1 Intermediate Demand</b>									
Stage 1 intermediate demand.....	ID5	1	100.000	-0.2	1.4	0.3	-0.4	-0.1	-0.2
Inputs to stage 1 goods producers.....	ID5	11	33.533	-3.6	0.4	-0.2	0.4	-0.5	-0.2
Goods.....	ID5	111	24.780	-6.1	1.0	-0.1	-0.2	-0.9	-0.5
Foods.....	ID5	1111	3.351	-17.8	-0.3	-2.7	-1.6	-0.9	-1.2
Energy.....	ID5	1112	3.963	-13.2	6.8	2.1	-0.4	-2.0	-4.2
Goods excluding foods and energy.....	ID5	1113	17.466	-2.2	0.0	-0.1	0.2	-0.6	0.4
Services.....	ID5	112	8.752	3.3	-0.9	-0.6	1.7	0.6	0.5
Trade services.....	ID5	1123	5.298	3.7	-1.5	-1.1	3.2	0.7	0.6
Transportation and warehousing services.....	ID5	1122	0.599	0.5	0.7	-0.5	-0.1	0.1	0.2
Transportation of passengers.....	ID5	11221	0.103	-0.1	-2.2	-3.3	2.1	-0.6	2.1
Transportation and warehousing of goods.....	ID5	11222	0.496	0.6	1.3	0.0	-0.6	0.2	-0.2
Services less trade, transportation, and warehousing.....	ID5	1121	2.855	3.1	-0.2	0.4	-0.4	0.3	0.4
Construction.....	ID5	113	0.001	3.3	0.0	0.0	0.1	0.0	0.1
Inputs to stage 1 services producers.....	ID5	12	53.646	1.9	1.8	0.5	-0.9	0.2	-0.2
Goods.....	ID5	121	16.434	-2.3	4.8	0.8	-1.7	-0.3	-1.6
Foods.....	ID5	1211	0.115	-44.1	0.4	-0.9	-2.7	0.6	0.1
Energy.....	ID5	1212	5.528	-9.0	15.4	2.1	-5.3	-0.9	-5.0
Goods excluding foods and energy.....	ID5	1213	10.791	1.6	0.1	0.2	0.2	0.0	0.1
Services.....	ID5	122	37.209	3.7	0.6	0.4	-0.5	0.4	0.4
Trade services.....	ID5	1223	3.617	5.7	-0.1	-0.3	1.5	0.5	0.7
Transportation and warehousing services.....	ID5	1222	4.373	0.7	-0.3	-0.4	0.9	-0.3	0.4
Transportation of passengers.....	ID5	12221	1.342	-0.1	-2.2	-3.3	2.1	-0.6	2.1
Transportation and warehousing of goods.....	ID5	12222	3.031	1.1	0.5	0.8	0.3	-0.2	-0.3
Services less trade, transportation, and warehousing.....	ID5	1221	29.219	3.9	0.8	0.6	-0.9	0.5	0.3
Construction.....	ID5	123	0.003	3.3	0.0	0.0	0.1	0.0	0.1
Inputs to stage 1 construction producers.....	ID5	13	12.821	0.4	2.2	0.8	-0.3	-0.1	-0.5
Goods.....	ID5	131	9.208	-0.2	2.7	0.6	-0.7	-0.1	-0.6
Energy.....	ID5	1312	0.934	-19.4	30.2	2.7	-7.9	-2.9	-10.5
Goods excluding foods and energy.....	ID5	1313	8.274	2.0	0.4	0.4	0.1	0.2	0.4
Services.....	ID5	132	3.613	1.8	0.9	1.3	0.7	-0.1	-0.2
Trade services.....	ID5	1323	2.667	5.1	1.1	1.2	0.9	-0.1	0.2
Transportation and warehousing services.....	ID5	1322	0.854	-8.5	0.6	1.5	0.1	-0.1	-1.5
Transportation and warehousing of goods.....	ID5	13222	0.854	-8.5	0.6	1.5	0.1	-0.1	-1.5
Services less trade, transportation, and warehousing.....	ID5	1321	0.092	3.5	-0.5	1.1	-0.2	0.4	0.6
<b>Special Groupings of Intermediate Demand by Production Flow</b>									
Total goods inputs to stage 4 intermediate demand.....	ID5	9411	47.208	-0.4	0.7	0.3	-0.5	-0.1	0.0
Total services inputs to stage 4 intermediate demand.....	ID5	9412	52.739	4.3	0.4	0.2	-0.1	0.3	0.4
Total construction inputs to stage 4 intermediate demand.....	ID5	9413	0.052	3.3	0.0	0.0	0.1	0.0	0.1
Total foods inputs to stage 4 intermediate demand.....	ID5	9414	5.660	-6.5	0.6	0.1	-0.9	-0.3	-0.7

See footnotes at end of table.

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

Grouping	Commodity code		Relative Importance Dec. 2022 <sup>1</sup>	Unadjusted 12-month percent change <sup>2</sup> Dec. 2022 to Dec. 2023 <sup>p</sup>	Seasonally adjusted 1-month percent change <sup>2</sup>				
	Group code	Item code			July to Aug.	Aug. to Sept. <sup>p</sup>	Sept. to Oct. <sup>p</sup>	Oct. to Nov. <sup>p</sup>	Nov. to Dec. <sup>p</sup>
Total energy goods inputs to stage 4 intermediate demand.....	ID5	9415	5.208	-2.1	6.5	1.8	-3.4	-0.2	-1.0
Total goods less foods and energy inputs to stage 4 intermediate demand. ....	ID5	9416	36.340	0.8	-0.1	0.1	-0.1	0.0	0.2
Total goods inputs to stage 3 intermediate demand.....	ID5	9311	47.001	-7.8	3.3	1.2	-2.0	-1.2	-1.4
Total services inputs to stage 3 intermediate demand.....	ID5	9312	52.427	2.3	-0.6	0.1	0.5	0.4	0.4
Total construction inputs to stage 3 intermediate demand.....	ID5	9313	0.573	3.3	0.0	0.0	0.1	0.0	0.1
Total foods inputs to stage 3 intermediate demand.....	ID5	9314	11.996	-16.4	2.2	2.6	-2.8	-2.5	-1.4
Total energy goods inputs to stage 3 intermediate demand.....	ID5	9315	7.911	-13.2	20.2	3.8	-5.5	-3.1	-7.7
Total goods less foods and energy inputs to stage 3 intermediate demand. ....	ID5	9316	27.094	-2.4	-0.5	-0.1	-0.5	-0.1	0.4
Total goods inputs to stage 2 intermediate demand.....	ID5	9211	45.884	-15.3	2.3	3.1	-1.3	-2.4	-4.1
Total services inputs to stage 2 intermediate demand.....	ID5	9212	52.964	2.8	-0.5	-0.4	0.5	0.2	0.2
Total construction inputs to stage 2 intermediate demand.....	ID5	9213	1.151	3.3	0.0	0.0	0.1	0.0	0.1
Total foods inputs to stage 2 intermediate demand.....	ID5	9214	4.410	-11.6	-1.4	1.5	-2.7	1.4	-2.8
Total energy goods inputs to stage 2 intermediate demand.....	ID5	9215	21.399	-28.0	6.2	6.8	-2.6	-5.7	-8.7
Total goods less foods and energy inputs to stage 2 intermediate demand. ....	ID5	9216	20.075	-2.5	-0.2	0.2	0.2	-0.3	-0.3
Total goods inputs to stage 1 intermediate demand.....	ID5	9111	50.422	-3.7	2.6	0.3	-0.8	-0.5	-0.9
Total services inputs to stage 1 intermediate demand.....	ID5	9112	49.574	3.5	0.3	0.3	0.0	0.4	0.4
Total construction inputs to stage 1 intermediate demand.....	ID5	9117	0.004	3.3	0.0	0.0	0.1	0.0	0.1
Total foods inputs to stage 1 intermediate demand.....	ID5	9114	3.466	-18.7	-0.2	-2.7	-1.7	-0.9	-1.2
Total energy goods inputs to stage 1 intermediate demand.....	ID5	9115	10.425	-11.5	13.3	2.1	-3.8	-1.5	-5.2
Total goods less foods and energy inputs to stage 1 intermediate demand. ....	ID5	9116	36.531	-0.1	0.1	0.1	0.2	-0.2	0.3

<sup>1</sup> 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.

<sup>2</sup> 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.

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

<sup>4</sup> Trade indexes measure changes in margins received by wholesalers and retailers.

<sup>5</sup> 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.

<sup>6</sup> Distributive services include transportation, warehousing, and trade of goods.

<sup>7</sup> Includes intermediate trade, transportation, and warehousing services.

<sup>8</sup> Includes crude petroleum.

<sup>9</sup> Excludes crude petroleum.

<sup>p</sup> Preliminary

"/" Data not available.

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

Grouping	Commodity code		Unadjusted 12-month percent change <sup>1</sup>	Seasonally adjusted 1-month percent change <sup>1</sup>				
	Group code	Item code		Dec. 2022 to Dec. 2023 <sup>P</sup>	July to Aug.	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>	Oct. to Nov. <sup>P</sup>
<b>Final Demand</b>								
Final demand.....	FD	4	1.0	0.7	0.4	-0.4	-0.1	-0.1
Final demand goods.....	FD	41	-0.8	1.9	0.8	-1.4	-0.3	-0.4
Final demand foods.....	FD	411	-5.0	-0.4	0.6	-0.1	0.7	-0.9
Fresh fruits and melons <sup>2</sup> .....	01	11	1.3	4.7	0.2	-6.2	18.3	-0.5
Fresh and dry vegetables <sup>2</sup> .....	01	13	-51.2	-11.5	-13.9	-1.7	11.2	-5.6
Grains.....	01	2	-29.6	-2.7	-6.3	-3.0	-2.8	-1.2
Eggs for fresh use <sup>2</sup> .....	01	7107	-61.5	9.8	8.1	-12.9	71.2	-20.5
Oilseeds.....	01	8301	-12.4	-4.3	4.3	-4.7	5.0	-4.7
Bakery products <sup>2</sup> .....	02	11	3.5	0.1	1.0	0.0	0.1	0.1
Milled rice <sup>2</sup> .....	02	13	-3.9	-0.9	-2.7	-1.6	-1.4	0.2
Pasta products <sup>2</sup> .....	02	1402	0.1	0.0	0.0	1.2	0.0	0.0
Beef and veal.....	02	2101	20.4	-4.5	2.9	1.8	1.8	0.0
Pork.....	02	2104	-6.7	-0.8	0.9	0.8	-0.7	-1.8
Processed young chickens.....	02	2203	-3.8	2.2	7.2	1.3	-7.8	2.3
Processed turkeys <sup>2</sup> .....	02	2206	-40.4	-3.2	-2.5	-1.4	-1.6	-2.3
Finfish and shellfish.....	02	23	-4.3	-0.7	-1.7	-0.9	0.5	0.4
Dairy products.....	02	3	-7.0	1.9	1.4	1.3	-0.4	-0.9
Processed fruits and vegetables <sup>2</sup> .....	02	4	9.9	0.3	2.0	0.7	0.0	0.4
Confectionery end products <sup>2</sup> .....	02	55	1.8	-0.5	-0.4	0.0	0.4	0.2
Soft drinks <sup>2</sup> .....	02	62	3.9	0.9	-0.8	0.3	-0.6	-2.0
Roasted coffee <sup>2</sup> .....	02	6301	6.0	5.8	0.3	-0.2	0.0	0.2
Shortening and cooking oils <sup>2</sup> .....	02	78	-10.2	-0.1	-3.9	-2.9	1.4	-1.8
Frozen specialty food <sup>2</sup> .....	02	85	2.8	0.1	-0.2	0.0	0.2	0.0
Final demand energy.....	FD	412	-4.8	10.2	3.1	-6.7	-2.4	-1.2
Liquefied petroleum gas <sup>2</sup> .....	05	32	-15.5	4.7	9.7	-7.0	-6.1	-2.5
Residential electric power.....	05	41	4.8	-0.1	0.9	0.3	0.6	0.6
Residential natural gas.....	05	51	-9.9	-0.9	-0.1	-1.3	3.6	-0.3
Gasoline.....	05	71	-5.3	18.7	5.1	-15.6	-6.5	2.1
Home heating oil and distillates.....	05	7302	-22.7	20.8	9.0	-11.3	-8.6	-4.8
No. 2 diesel fuel.....	05	7303	-18.7	39.2	2.6	-11.7	-1.8	-12.4
Final demand goods less foods and energy.....	FD	413	1.8	0.1	0.2	0.0	0.1	0.0
Alcoholic beverages.....	02	61	1.4	0.2	0.5	0.3	0.0	0.2
Pet food <sup>2</sup> .....	02	9402	5.9	0.0	0.0	0.0	0.0	0.0
Women's, girls', and infants' apparel <sup>2</sup> .....	03	8106	-2.2	0.0	0.0	-1.0	0.0	0.0
Men's and boys' apparel <sup>2</sup> .....	03	8107	1.5	0.1	0.0	-0.4	0.0	0.0
Textile housefurnishings <sup>2</sup> .....	03	82	-0.1	-0.4	0.0	0.0	0.0	0.0
Footwear.....	04	3	1.3	-0.1	-0.3	0.1	-0.1	0.3
Industrial chemicals.....	06	1	-9.0	-0.2	1.4	2.0	-2.3	-1.4
Pharmaceutical preparations.....	06	38	2.8	0.1	0.2	0.3	0.1	0.1
Soaps and detergents <sup>2</sup> .....	06	71	1.4	0.0	-0.1	0.1	-0.2	-0.1
Cleaning and polishing products <sup>2</sup> .....	06	72	1.9	0.0	0.0	0.1	-0.1	0.0
Cosmetics and other toiletries <sup>2</sup> .....	06	75	4.8	0.0	-0.1	0.3	0.0	0.0
Tires <sup>2</sup> .....	07	1201	2.0	0.0	-0.2	-0.1	-0.1	0.0
Consumer, institutional, and commercial products, n.e.c. <sup>2</sup> .....	07	2B	0.4	0.1	-0.3	0.2	0.0	0.0
Sanitary paper products <sup>2</sup> .....	09	1501	-2.8	-0.6	0.1	-0.8	-1.9	-1.6
Iron and steel scrap.....	10	12	19.4	2.9	0.8	1.6	5.5	-1.1
Agricultural machinery and equipment.....	11	1	1.2	0.1	0.3	-0.1	-0.6	0.2
Construction machinery and equipment <sup>2</sup> .....	11	2	7.6	0.0	0.2	0.0	1.0	0.2
Metal cutting machine tools <sup>2</sup> .....	11	37	2.5	0.0	0.0	0.0	0.0	0.0
Metal forming machine tools.....	11	38	10.5	0.1	7.9	0.3	-0.1	0.0
Tools, dies, jigs, fixtures, and industrial molds <sup>2</sup> .....	11	39	5.5	0.5	0.1	0.2	0.4	0.4
Pumps, compressors, and equipment.....	11	41	6.0	0.5	-0.3	0.4	0.3	0.7
Industrial material handling equipment <sup>2</sup> .....	11	44	3.4	0.0	-0.1	0.3	0.0	0.0
Electronic computers and computer equipment <sup>2</sup> .....	11	5	-0.8	1.4	-0.1	-0.7	0.3	0.4
Textile machinery and equipment <sup>2</sup> .....	11	62	0.0	0.0	0.0	0.0	0.0	0.0
Paper industries machinery <sup>2</sup> .....	11	64	3.3	-0.3	-0.1	0.0	0.0	0.1
Printing trades machinery and equipment <sup>2</sup> .....	11	65	3.8	0.5	-0.4	2.4	-0.3	0.8
Transformers and power regulators <sup>2</sup> .....	11	74	3.7	0.4	0.0	0.2	0.0	1.6
Communication and related equipment.....	11	76	1.8	0.1	0.1	0.1	0.2	0.3
Electronic components and accessories.....	11	78	-1.1	0.3	-0.1	-0.1	-0.1	-0.1
X-ray and electromedical equipment <sup>2</sup> .....	11	7905	2.4	0.0	0.0	0.0	0.0	0.0
Oil field and gas field machinery <sup>2</sup> .....	11	91	1.9	0.0	0.7	0.0	-0.3	0.0
Mining machinery and equipment <sup>2</sup> .....	11	92	9.4	0.6	0.3	0.2	1.9	0.0
Internal combustion engines <sup>2</sup> .....	11	94	6.3	0.0	0.1	-0.1	0.1	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**  
 [December 2023]

Grouping	Commodity code		Unadjusted 12-month percent change <sup>1</sup>	Seasonally adjusted 1-month percent change <sup>1</sup>				
	Group code	Item code		July to Aug.	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>	Oct. to Nov. <sup>P</sup>	Nov. to Dec. <sup>P</sup>
Household furniture <sup>2</sup> .....	12	1	-0.9	0.0	-0.2	-1.2	-0.2	0.0
Commercial furniture <sup>2</sup> .....	12	2	1.0	-0.3	0.2	0.0	0.6	-0.6
Floor coverings <sup>2</sup> .....	12	3	0.4	1.0	1.6	-0.9	-1.4	0.0
Household appliances <sup>2</sup> .....	12	4	1.6	0.7	0.0	0.1	0.8	-0.3
Home electronic equipment <sup>2</sup> .....	12	5	1.2	0.0	0.0	0.0	0.2	0.0
Lawn and garden equipment excl. garden tractors <sup>2</sup> .....	12	66	0.8	0.1	0.0	0.5	0.0	0.0
Passenger cars.....	14	1101	-3.0	0.3	0.1	0.5	0.1	-3.0
Light motor trucks.....	14	1105	1.2	0.1	0.4	-0.5	0.4	-0.2
Heavy motor trucks <sup>2</sup> .....	14	1106	1.8	0.0	0.2	0.0	0.0	0.1
Motor vehicles parts <sup>2</sup> .....	14	12	1.6	0.0	0.1	0.1	0.1	0.1
Truck trailers <sup>2</sup> .....	14	14	-2.8	0.0	-0.2	-0.3	0.0	0.0
Travel trailers and campers <sup>2</sup> .....	14	16	0.6	0.2	0.1	-0.2	0.0	0.0
Aircraft.....	14	21	3.4	0.0	0.1	0.1	0.1	0.2
Ships <sup>2</sup> .....	14	31	2.5	0.0	0.0	0.5	0.0	0.0
Railroad equipment <sup>2</sup> .....	14	4	1.3	0.0	0.0	0.0	0.0	0.0
Toys, games, and children's vehicles <sup>2</sup> .....	15	11	1.4	0.0	0.0	0.0	0.0	0.0
Sporting and athletic goods <sup>2</sup> .....	15	12	7.3	2.2	1.1	0.0	2.2	0.0
Cigarettes <sup>2</sup> .....	15	21	11.6	1.3	0.4	1.2	1.4	0.0
Mobile homes <sup>2</sup> .....	15	5	-3.6	-0.9	-1.1	0.0	0.1	0.0
Medical, surgical & personal aid devices.....	15	6	2.5	0.1	0.1	0.0	0.2	0.2
Jewelry, platinum and karat gold <sup>2</sup> .....	15	9402	3.4	-0.9	0.5	-2.3	2.4	2.9
Costume jewelry and novelties <sup>2</sup> .....	15	9404	7.1	0.0	0.0	0.0	0.0	0.0
Final demand services.....	FD	42	1.8	0.2	0.2	0.0	0.0	0.0
Final demand trade services <sup>3</sup> .....	FD	423	-0.8	0.1	-0.1	-0.3	-0.1	-0.8
Machinery and equipment parts and supplies wholesaling <sup>2</sup> .....	57	1102	9.2	2.2	-0.1	0.9	1.3	0.2
Machinery and vehicle wholesaling <sup>2</sup> .....	57	1103	-5.5	0.3	0.7	-1.5	1.4	-5.5
Professional and commercial equipment wholesaling <sup>2</sup> .....	57	1104	5.5	0.8	0.5	0.9	-1.2	1.1
Furnishings wholesaling <sup>2</sup> .....	57	2	-7.0	-1.1	2.1	-4.5	1.4	0.1
Chemicals and allied products wholesaling <sup>2</sup> .....	57	5	-0.6	-2.8	-2.4	4.8	1.1	-0.3
Paper and plastics products wholesaling <sup>2</sup> .....	57	6	-1.7	2.7	-1.0	0.6	-0.2	-0.2
Apparel wholesaling <sup>2</sup> .....	57	7	10.1	5.7	2.4	1.1	0.6	-6.6
Food and alcohol wholesaling <sup>2</sup> .....	57	8	1.5	-3.3	-1.3	0.2	1.1	-0.7
Food and alcohol retailing.....	58	1	1.9	0.4	-0.8	-0.7	-0.8	0.1
Health, beauty, and optical goods retailing <sup>2</sup> .....	58	2	4.8	0.5	1.3	-2.2	1.4	-0.6
Apparel, jewelry, footwear, and accessories retailing.....	58	3	-1.7	4.1	1.9	-6.2	0.5	0.5
Computer hardware, software, and supplies retailing <sup>2</sup> .....	58	4	-16.8	-0.3	2.6	-2.5	-1.2	3.9
TV, video, and photographic equipment and supplies retailing.....	58	5	20.0	-6.5	5.9	6.5	12.3	-0.3
Automobiles retailing (partial).....	58	6101	-29.8	-0.4	-2.8	-5.4	-5.2	-3.4
Automotive parts, including tires, retailing <sup>2</sup> .....	58	6102	-1.2	0.7	-1.0	-1.5	3.8	-0.9
RVs, trailers, and campers retailing <sup>2</sup> .....	58	8	10.6	-6.4	-4.8	-0.3	3.6	-3.5
Sporting goods, including boats, retailing.....	58	9	-4.5	0.1	1.1	-0.2	-2.6	2.6
Lawn, garden, and farm equipment and supplies retailing <sup>2</sup> .....	58	A	18.1	-0.1	1.8	-0.4	-0.4	0.1
Furniture retailing <sup>2</sup> .....	58	B	-0.1	-2.4	-0.3	0.3	-5.8	-2.2
Flooring and floor coverings retailing <sup>2</sup> .....	58	C	5.5	-1.4	0.5	0.8	0.7	0.3
Hardware, building materials, and supplies retailing.....	58	D	7.9	2.3	4.0	0.8	-1.8	-1.4
Major household appliances retailing.....	58	E	3.4	7.4	3.5	-7.0	4.7	-5.8
Fuels and lubricants retailing.....	58	F	-12.8	4.7	-3.6	16.2	-4.7	3.5
Cleaning supplies and paper products retailing <sup>2</sup> .....	58	G	18.0	4.1	0.9	0.1	-1.8	-0.1
Book retailing <sup>2</sup> .....	58	H	0.9	-0.6	0.7	0.5	-3.2	0.7
Final demand transportation and warehousing services.....	FD	422	-4.5	-0.1	0.1	0.7	-0.2	-0.4
Rail transportation of freight and mail <sup>2</sup> .....	30	11	1.1	0.4	0.7	1.2	0.4	0.0
Truck transportation of freight <sup>2</sup> .....	30	12	-8.9	0.6	1.5	0.2	-0.1	-1.6
Air transportation of freight <sup>2</sup> .....	30	14	0.5	0.3	1.4	1.5	-0.2	-0.4
Courier, messenger, and U.S. postal services.....	30	16	5.7	1.0	0.6	0.6	-0.2	0.1
Rail transportation of passengers.....	30	21	0.0	0.2	0.0	-0.1	0.1	0.0
Airline passenger services.....	30	22	-0.1	-2.2	-3.2	2.1	-0.6	2.1
Final demand services less trade, transportation, and warehousing.....	FD	421	3.8	0.3	0.4	0.0	0.1	0.4
Sales of books.....	33	11	8.1	-0.1	0.8	0.7	1.1	0.8
Sales and subscriptions of periodicals and newspapers.....	33	12	2.5	0.9	0.1	-0.1	0.0	1.9
Application software publishing <sup>2</sup> .....	34	2	4.1	0.5	2.9	0.8	-2.7	3.0
Advertising space sales in periodicals, newspapers, directories, and mailing lists <sup>2</sup> .....	36	1	0.8	-0.4	-0.4	-0.3	-0.2	0.0
Residential wired telecommunication services <sup>2</sup> .....	37	11	4.9	0.5	0.5	0.1	0.1	0.2
Wireless telecommunication services.....	37	2	1.2	-0.6	0.2	0.1	0.2	0.1
Cable and satellite subscriber services.....	37	3	7.5	1.1	0.7	0.5	0.4	0.8
Internet access services <sup>2</sup> .....	37	4	0.1	-0.4	-1.4	0.0	1.0	-0.3

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**  
 [December 2023]

Grouping	Commodity code		Unadjusted 12-month percent change <sup>1</sup>	Seasonally adjusted 1-month percent change <sup>1</sup>				
	Group code	Item code		Dec. 2022 to Dec. 2023 <sup>P</sup>	July to Aug.	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>	Oct. to Nov. <sup>P</sup>
Bundled wired telecommunications access services <sup>2</sup>	37	5	3.0	1.0	-2.9	0.2	-0.2	1.9
Consumer loans (partial)	39	12	8.3	3.3	1.0	-0.6	0.5	4.6
Deposit services (partial) <sup>2</sup>	39	2	12.7	-2.5	5.2	0.8	2.8	1.6
Other credit intermediation, incl. trust services (partial) <sup>2</sup>	39	3	1.9	2.5	0.0	0.0	-3.7	0.0
Securities brokerage, dealing, investment advice, and related services <sup>2</sup>	40	1	10.5	0.9	-0.1	-1.9	0.4	2.0
Portfolio management <sup>2</sup>	40	2	5.5	1.8	-0.5	-3.0	-1.7	1.5
Life insurance <sup>2</sup>	41	1101	-1.6	0.0	-0.4	0.1	0.0	0.0
Disability insurance, including accidental death <sup>2</sup>	41	1102	0.0	0.0	0.0	0.0	0.0	0.0
Health and medical insurance	41	1103	3.1	0.5	0.2	0.2	0.2	0.1
Property and casualty insurance <sup>2</sup>	41	1104	6.3	0.2	0.8	0.0	0.0	0.1
Annuities <sup>2</sup>	41	2	0.4	0.0	0.0	-0.3	0.0	0.0
Residential property sales and leases, brokerage fees and commissions	43	21	6.3	1.4	0.3	0.5	0.3	0.5
Passenger car rental	44	1	-5.8	0.8	1.0	1.8	-2.8	1.1
Legal services	45	1	6.3	0.2	0.3	0.9	0.3	0.6
Tax preparation and planning	45	2102	-2.6	-2.6	2.2	-4.2	-1.1	0.7
Architectural and engineering services	45	3	3.3	0.1	0.2	0.8	0.0	0.1
Management, scientific, and technical consulting services	45	4	3.5	-2.3	5.1	-3.4	0.2	1.7
Arrangement of flights (partial)	47	1	3.8	-0.1	-0.3	-1.3	0.3	-0.5
Arrangement of vehicle rentals and lodging <sup>2</sup>	47	2	0.6	0.4	-0.2	-0.8	-0.1	-0.1
Arrangement of cruises and tours <sup>2</sup>	47	3	0.6	0.8	-0.4	0.6	-0.7	-1.3
Physician care	51	1101	0.3	0.0	0.0	0.2	0.0	0.0
Medical laboratory and diagnostic imaging care <sup>2</sup>	51	1102	0.7	0.0	0.0	0.0	-0.1	0.0
Home health and hospice care	51	1103	5.2	0.7	0.5	0.1	0.1	0.1
Hospital outpatient care <sup>2</sup>	51	1104	4.4	0.0	0.2	0.4	-0.2	0.0
Dental care	51	1105	3.0	0.5	0.0	0.1	0.3	0.1
Hospital inpatient care	51	2101	4.3	-0.3	1.3	0.9	0.2	0.1
Nursing home care	51	2102	4.0	0.2	0.0	0.4	0.0	0.1
Traveler accommodation services	53	11	-6.4	-0.4	2.5	-2.6	1.4	-4.8
Food and beverages for immediate consumption services (partial) <sup>2</sup>	54	1	4.5	0.8	0.1	0.8	0.3	0.0
Motor vehicle repair and maintenance (partial)	55	2	4.7	3.7	-2.2	0.4	0.4	0.0
Membership dues and admissions and recreation facility use fees (partial) <sup>2</sup>	56	1	7.3	-1.4	0.0	1.9	1.8	2.4
Recreational activity instruction fees (partial) <sup>2</sup>	56	2	0.3	0.0	0.0	0.0	0.0	0.0
Gaming receipts (partial) <sup>2</sup>	56	3	3.3	-0.7	0.6	1.7	-0.2	1.8
Mining services <sup>2</sup>	60	1	2.0	-0.3	0.8	-0.7	1.2	0.2
Final demand construction	FD	43	0.5	0.1	0.1	-0.3	-0.1	0.1
New warehouse building construction <sup>2</sup>	80	1101	-1.4	0.1	0.0	-0.3	-0.2	0.1
New school building construction <sup>2</sup>	80	1102	-0.1	0.0	0.1	-0.2	0.0	-0.2
New office building construction <sup>2</sup>	80	1103	2.1	0.2	-0.1	-0.8	-0.1	0.2
New industrial building construction <sup>2</sup>	80	1104	0.5	0.1	0.6	0.0	-0.1	0.0
New health care building construction <sup>2</sup>	80	1105	0.4	0.1	0.0	0.0	-0.5	0.2
<b>Intermediate Demand by Commodity Type</b>								
Processed goods for intermediate demand	ID6	1	-2.7	2.1	0.6	-1.0	-0.4	-0.6
Processed foods and feeds	ID6	9112	-5.3	0.7	0.7	-0.3	-0.6	-0.7
Meats	02	21	6.8	-2.4	1.5	1.1	0.4	-0.7
Processed poultry	02	22	-9.8	1.9	6.2	0.5	-9.0	0.5
Dairy products	02	3	-7.0	1.9	1.4	1.3	-0.4	-0.9
Processed fruits and vegetables <sup>2</sup>	02	4	9.9	0.3	2.0	0.7	0.0	0.4
Refined sugar and byproducts <sup>2</sup>	02	53	9.5	1.1	-2.3	0.9	3.3	0.0
Fats and oils <sup>2</sup>	02	7	-18.2	4.9	-0.8	-0.3	-0.3	-1.7
Prepared animal feeds	02	9	-6.7	0.2	0.6	-1.1	-0.1	-1.0
Processed materials less foods and feeds	ID6	9111	-2.5	2.3	0.6	-1.1	-0.4	-0.6
Synthetic fibers <sup>2</sup>	03	1	-2.1	-2.4	2.4	2.3	-0.6	-3.7
Processed yarns and threads <sup>2</sup>	03	2	-6.1	-0.2	0.3	-0.6	-1.1	0.2
Finished fabrics <sup>2</sup>	03	4	-0.7	-0.1	0.1	-0.1	-0.1	0.3
Liquefied petroleum gas <sup>2</sup>	05	32	-15.5	4.7	9.7	-7.0	-6.1	-2.5
Commercial electric power	05	42	5.7	0.2	0.7	-0.3	2.3	0.8
Industrial electric power	05	43	7.3	0.3	0.1	0.6	2.3	0.8
Commercial natural gas	05	52	-16.3	-0.1	-1.8	2.2	5.5	-0.6
Industrial natural gas	05	53	-16.8	0.3	-2.3	-6.5	8.3	1.7
Natural gas to electric utilities	05	54	-13.1	0.1	-1.1	-1.0	3.2	-2.2
Gasoline	05	71	-5.3	18.7	5.1	-15.6	-6.5	2.1
Jet fuel <sup>2</sup>	05	7203	-12.3	22.7	7.1	-3.2	-5.8	-12.1
No. 2 diesel fuel	05	7303	-18.7	39.2	2.6	-11.7	-1.8	-12.4
Residual fuels <sup>2</sup>	05	74	-1.9	7.3	5.7	4.0	-3.1	-7.9

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**  
 [December 2023]

Grouping	Commodity code		Unadjusted 12-month percent change <sup>1</sup>	Seasonally adjusted 1-month percent change <sup>1</sup>				
	Group code	Item code		Dec. 2022 to Dec. 2023 <sup>P</sup>	July to Aug.	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>	Oct. to Nov. <sup>P</sup>
Finished lubricants <sup>2</sup> .....	05	76	-0.4	-0.1	-1.1	-0.2	0.2	0.7
Lubricating oil base stocks <sup>2</sup> .....	05	78	-21.4	1.9	-0.1	11.9	2.1	0.6
Asphalt.....	05	8102	23.9	0.0	5.0	2.4	1.4	2.2
Basic inorganic chemicals <sup>2</sup> .....	06	13	-9.7	-1.5	0.3	-2.1	-0.4	0.2
Basic organic chemicals.....	06	14	-8.8	0.1	1.7	2.9	-2.7	-1.8
Prepared paint <sup>2</sup> .....	06	21	-1.0	0.0	-0.2	-0.3	-0.1	-0.2
Paint materials <sup>2</sup> .....	06	22	-3.0	5.0	-0.8	-4.0	0.1	-0.1
Medicinal and botanical chemicals <sup>2</sup> .....	06	31	0.8	-0.2	0.0	0.9	0.0	-0.3
Biological products, including diagnostics.....	06	37	5.1	-0.1	0.3	0.2	0.3	0.0
Fats and oils, inedible <sup>2</sup> .....	06	4	-19.8	3.4	0.0	-6.5	-6.0	-2.3
Nitrogenates.....	06	5201	-38.8	2.2	-0.5	5.5	1.6	1.9
Phosphates.....	06	5202	-11.7	7.4	1.5	6.2	1.4	2.9
Other agricultural chemicals <sup>2</sup> .....	06	53	-15.8	-1.1	-4.2	0.2	-0.1	0.0
Plastic resins and materials.....	06	6	-6.5	-1.7	0.4	-2.5	1.6	1.4
Industrial gases <sup>2</sup> .....	06	7903	4.7	-1.5	1.5	0.8	-1.7	0.1
Adhesives and sealants <sup>2</sup> .....	06	7904	1.6	-0.3	0.1	0.0	0.0	0.0
Synthetic rubber <sup>2</sup> .....	07	1102	-7.4	0.1	1.1	2.4	0.2	-1.5
Tires <sup>2</sup> .....	07	1201	2.0	0.0	-0.2	-0.1	-0.1	0.0
Plastic construction products <sup>2</sup> .....	07	21	-3.2	-0.1	0.2	0.0	0.2	-0.4
Unsupported plastic film, sheet, other shapes <sup>2</sup> .....	07	22	-6.2	-0.8	-1.5	0.4	0.3	0.9
Parts for manufacturing from plastics <sup>2</sup> .....	07	26	-4.1	-0.2	-0.2	-0.2	-0.4	0.2
Plastic packaging products <sup>2</sup> .....	07	2A	-4.6	-0.2	0.0	-0.4	0.4	-0.4
Softwood lumber.....	08	11	-14.6	-5.5	1.3	-2.9	-5.7	-2.4
Hardwood lumber <sup>2</sup> .....	08	12	-0.2	-8.4	3.5	-4.9	1.3	-0.6
Millwork.....	08	2	-3.4	-0.9	0.3	0.3	0.3	-0.3
Plywood <sup>2</sup> .....	08	3	-3.8	1.4	1.4	1.6	-1.3	-0.2
Paper <sup>2</sup> .....	09	13	-1.4	-0.6	0.6	-0.5	-0.2	0.0
Paperboard <sup>2</sup> .....	09	14	-8.2	-0.3	0.5	0.0	-0.1	-1.5
Paper boxes and containers <sup>2</sup> .....	09	1503	-3.4	-0.5	-0.2	-0.1	-0.3	0.0
Building paper and board <sup>2</sup> .....	09	2	2.2	13.5	-0.2	-17.9	-2.4	1.1
Commercial printing <sup>2</sup> .....	09	47	2.5	0.3	0.2	0.0	0.1	0.0
Foundry and forge shop products <sup>2</sup> .....	10	15	1.7	0.5	-0.1	-0.6	-0.2	0.0
Steel mill products <sup>2</sup> .....	10	17	-2.0	-2.0	-3.5	-2.5	-1.5	3.3
Primary nonferrous metals <sup>2</sup> .....	10	22	0.1	-3.9	1.9	-2.0	0.9	-1.5
Secondary nonferrous metals <sup>2</sup> .....	10	24	-4.9	-1.4	-0.3	-1.4	0.2	0.3
Aluminum mill shapes <sup>2</sup> .....	10	2501	-1.7	-0.3	-0.9	-0.4	-0.2	-0.1
Copper and brass mill shapes <sup>2</sup> .....	10	2502	-1.4	0.1	-0.1	-1.4	-0.3	1.1
Nonferrous wire and cable <sup>2</sup> .....	10	26	-4.6	0.5	-1.5	-0.5	-0.1	0.4
Nonferrous foundry shop products.....	10	28	2.4	0.3	-0.1	0.6	-0.4	0.9
Metal containers <sup>2</sup> .....	10	3	-5.2	-1.6	-0.2	-0.9	-0.5	0.0
Hardware <sup>2</sup> .....	10	4	1.1	0.0	0.0	0.0	0.1	-0.3
Plumbing fixtures and brass fittings.....	10	5	1.5	0.3	0.0	0.1	0.4	0.2
Heating equipment <sup>2</sup> .....	10	6	2.4	0.1	-0.1	0.7	0.0	0.2
Fabricated structural metal products.....	10	7	2.5	0.1	0.4	0.6	0.4	1.6
Bolts, nuts, screws, rivets, and washers <sup>2</sup> .....	10	81	6.3	0.2	0.5	-0.5	1.1	0.0
Lighting fixtures <sup>2</sup> .....	10	83	3.0	-0.1	0.2	0.0	0.1	0.1
Fabricated ferrous wire products <sup>2</sup> .....	10	88	-8.2	-0.6	-0.3	-1.4	0.1	-0.6
Other miscellaneous metal products <sup>2</sup> .....	10	89	1.5	-0.2	0.0	0.2	0.2	0.0
Fluid power equipment.....	11	43	10.6	-0.3	0.8	2.2	-1.8	0.1
Mechanical power transmission equipment <sup>2</sup> .....	11	45	3.3	0.2	0.3	0.4	0.6	0.0
Air conditioning and refrigeration equipment.....	11	48	3.8	0.6	0.2	0.4	0.7	-0.3
Metal valves, except fluid power.....	11	4902	4.9	0.6	0.2	1.1	0.3	0.6
Ball and roller bearings <sup>2</sup> .....	11	4905	1.8	-0.1	0.1	0.0	-0.1	-0.1
Wiring devices <sup>2</sup> .....	11	71	4.0	0.6	0.0	0.2	-0.3	-0.5
Motors, generators, motor generator sets <sup>2</sup> .....	11	73	4.9	1.0	0.1	0.1	-0.3	0.0
Switchgear, switchboard, and industrial controls equip. <sup>2</sup> .....	11	75	5.2	0.4	0.1	0.4	1.0	0.2
Electronic components and accessories.....	11	78	-1.1	0.3	-0.1	-0.1	-0.1	-0.1
Internal combustion engines <sup>2</sup> .....	11	94	6.3	0.0	0.1	-0.1	0.1	0.0
Machine shop products <sup>2</sup> .....	11	95	1.6	0.0	0.0	-0.2	0.0	0.0
Flat glass <sup>2</sup> .....	13	11	2.1	-0.8	0.3	0.2	0.2	0.7
Cement.....	13	22	8.2	0.3	0.9	-0.4	0.7	0.6
Concrete products.....	13	3	7.3	0.9	1.1	0.7	0.4	0.1
Asphalt felts and coatings <sup>2</sup> .....	13	6	2.6	-1.0	0.6	0.6	-0.3	0.3
Paving mixtures and blocks.....	13	94	2.1	0.8	0.9	1.0	1.5	0.7
Motor vehicle parts <sup>2</sup> .....	14	12	1.6	0.0	0.1	0.1	0.1	0.1
Aircraft engines and engine parts.....	14	23	3.2	0.3	0.0	0.2	0.9	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**  
 [December 2023]

Grouping	Commodity code		Unadjusted 12-month percent change <sup>1</sup>	Seasonally adjusted 1-month percent change <sup>1</sup>				
	Group code	Item code		Dec. 2022 to Dec. 2023 <sup>P</sup>	July to Aug.	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>	Oct. to Nov. <sup>P</sup>
Aircraft parts and auxiliary equipment, n.e.c.....	14	25	4.6	0.5	-0.1	0.0	0.1	0.0
Medical, surgical, and personal aid devices.....	15	6	2.5	0.1	0.1	0.0	0.2	0.2
Unprocessed goods for intermediate demand.....	ID6	2	-19.0	2.3	3.3	-2.0	-2.4	-4.4
Unprocessed foodstuffs and feedstuffs.....	ID6	21	-16.5	0.1	2.3	-3.1	-1.0	-2.5
Wheat <sup>2</sup> .....	01	21	-24.4	-7.9	-5.2	-6.0	-1.2	2.4
Corn.....	01	2202	-31.4	-2.0	-6.2	-2.7	-3.5	-1.7
Slaughter cattle.....	01	31	12.6	1.6	1.7	-0.6	-7.2	-3.4
Slaughter hogs.....	01	32	-39.6	-2.4	-0.5	-9.0	-4.0	-19.7
Slaughter chickens.....	01	4102	1.6	0.8	13.5	-3.8	-2.4	5.7
Slaughter turkeys.....	01	42	-37.4	-10.4	-4.0	-13.8	7.0	-0.2
Raw milk.....	01	6	-12.1	14.0	5.4	-1.5	-2.1	1.0
Hay and hayseeds <sup>2</sup> .....	01	81	-37.9	-18.2	5.4	-4.7	7.1	-17.5
Oilseeds.....	01	8301	-12.4	-4.3	4.3	-4.7	5.0	-4.7
Raw cane sugar and byproducts <sup>2</sup> .....	02	5201	12.7	0.6	-0.3	4.1	-0.7	-0.3
Unprocessed nonfood materials.....	ID6	22	-20.5	3.6	3.9	-1.3	-3.3	-5.5
Raw cotton <sup>2</sup> .....	01	51	-7.0	4.6	1.6	-1.5	-6.2	3.6
Hides and skins.....	04	1	-8.4	1.5	-0.2	-8.6	2.6	-3.8
Coal.....	05	1	-0.4	1.5	-3.4	2.7	-1.7	1.1
Natural gas <sup>2</sup> .....	05	31	-60.5	0.0	-2.6	1.2	9.9	1.5
Crude petroleum <sup>2</sup> .....	05	61	-10.8	8.1	10.3	-3.4	-9.7	-13.2
Logs, bolts, timber, pulpwood, and woodchips <sup>2</sup> .....	08	5	-5.1	0.3	0.0	-0.1	-1.2	-0.4
Recyclable paper <sup>2</sup> .....	09	12	36.8	2.2	9.6	10.8	1.0	-7.5
Iron ores <sup>2</sup> .....	10	11	-6.0	1.1	0.5	-1.1	-1.9	0.0
Iron and steel scrap.....	10	12	19.4	2.9	0.8	1.6	5.5	-1.1
Nonferrous metal ores <sup>2</sup> .....	10	21	6.0	-3.0	0.5	1.8	3.4	1.2
Copper base scrap <sup>2</sup> .....	10	2301	2.0	-0.7	-0.6	-2.7	1.1	3.9
Aluminum base scrap.....	10	2302	6.8	0.3	0.1	1.5	3.6	0.9
Construction sand, gravel, and crushed stone.....	13	21	8.5	1.2	0.5	0.3	0.5	0.6
Services for intermediate demand.....	ID6	3	3.4	-0.1	0.2	0.0	0.3	0.4
Trade services for intermediate demand <sup>3</sup> .....	ID6	33	4.6	-0.5	-0.5	1.8	0.6	0.4
Machinery and equipment parts and supplies wholesaling <sup>2</sup> .....	57	1102	9.2	2.2	-0.1	0.9	1.3	0.2
Building materials, paint, and hardware wholesaling.....	57	3	-7.8	1.3	1.2	0.3	-1.8	1.1
Metals, minerals, and ores wholesaling <sup>2</sup> .....	57	4	19.0	-4.4	-2.5	7.8	2.8	1.6
Chemicals and allied products wholesaling <sup>2</sup> .....	57	5	-0.6	-2.8	-2.4	4.8	1.1	-0.3
Paper and plastics products wholesaling <sup>2</sup> .....	57	6	-1.7	2.7	-1.0	0.6	-0.2	-0.2
Food wholesaling <sup>2</sup> .....	57	8101	1.3	-3.7	-1.5	0.1	1.1	-0.8
Automotive parts, including tires, retailing <sup>2</sup> .....	58	6102	-1.2	0.7	-1.0	-1.5	3.8	-0.9
Hardware, building material, and supplies retailing.....	58	D	7.9	2.3	4.0	0.8	-1.8	-1.4
Transportation and warehousing services for intermediate demand.....	ID6	32	-0.8	-0.6	0.6	0.6	-0.2	0.1
Rail transportation of freight and mail <sup>2</sup> .....	30	11	1.1	0.4	0.7	1.2	0.4	0.0
Truck transportation of freight <sup>2</sup> .....	30	12	-8.9	0.6	1.5	0.2	-0.1	-1.6
Water transportation of freight <sup>2</sup> .....	30	13	-0.4	2.5	-0.8	-2.3	0.4	-0.2
Air transportation of freight <sup>2</sup> .....	30	14	0.5	0.3	1.4	1.5	-0.2	-0.4
U.S. Postal Service <sup>2</sup> .....	30	1601	8.0	0.0	0.0	0.0	0.0	0.0
Courier and messenger services, except air mail.....	30	1602	4.4	1.1	0.7	0.4	0.0	0.7
Air mail and package delivery services, excluding by USPS.....	30	1603	4.7	2.2	1.3	1.5	-1.0	-0.6
Pipeline transportation <sup>2</sup> .....	30	17	2.9	0.1	-0.2	-0.2	-0.1	0.0
Transportation of passengers (partial).....	30	2	-0.1	-2.1	-3.2	2.1	-0.6	2.1
Services related to water transportation.....	31	1	3.3	0.5	0.3	0.4	0.5	0.6
Arrangement of freight and cargo <sup>2</sup> .....	31	31	-22.5	-12.8	3.3	2.0	-0.5	2.5
Warehousing, storage, and related services <sup>2</sup> .....	32	1	3.1	-1.1	2.0	-0.3	-0.6	-0.1
Services less trade, transportation, and warehousing for intermediate demand.....	ID6	31	4.0	0.1	0.3	-0.5	0.3	0.5
Network compensation from broadcast TV, cable TV, radio <sup>2</sup> .....	35	-	0.7	0.2	0.0	0.0	0.0	0.0
Advertising space sales in periodicals and newspapers <sup>2</sup> .....	36	11	0.0	-0.5	-0.4	-0.4	-0.2	0.0
Advertising space sales in directories and mail lists <sup>2</sup> .....	36	12	5.4	0.0	0.0	0.0	0.0	0.0
Television advertising time sales.....	36	2	-15.6	-8.0	-4.2	0.5	7.1	3.1
Radio advertising time sales.....	36	3	2.2	4.6	-2.3	-0.7	5.5	4.0
Internet advertising sales <sup>2</sup> .....	36	6	2.1	0.0	0.0	0.0	0.0	0.0
Business wired telecommunication services <sup>2</sup> .....	37	12	3.1	1.0	0.2	-0.5	0.2	-0.1
Wireless telecommunication services.....	37	2	1.2	-0.6	0.2	0.1	0.2	0.1
Cable and satellite subscriber services.....	37	3	7.5	1.1	0.7	0.5	0.4	0.8
Bundled wired telecommunication access services <sup>2</sup> .....	37	5	3.0	1.0	-2.9	0.2	-0.2	1.9
Data processing and related services <sup>2</sup> .....	38	1	2.2	0.1	-0.2	0.2	0.3	0.3
Business loans (partial).....	39	11	9.4	-1.7	-2.7	0.9	-0.8	-1.6

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**  
 [December 2023]

Grouping	Commodity code		Unadjusted 12-month percent change <sup>1</sup>	Seasonally adjusted 1-month percent change <sup>1</sup>				
	Group code	Item code		Dec. 2022 to Dec. 2023 <sup>P</sup>	July to Aug.	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>	Oct. to Nov. <sup>P</sup>
Deposit services (partial) <sup>2</sup> .....	39	2	12.7	-2.5	5.2	0.8	2.8	1.6
Other credit intermediation, incl. trust services (partial) <sup>2</sup> .....	39	3	1.9	2.5	0.0	0.0	-3.7	0.0
Securities brokerage, dealing, investment advice, and related services <sup>2</sup> .....	40	1	10.5	0.9	-0.1	-1.9	0.4	2.0
Portfolio management <sup>2</sup> .....	40	2	5.5	1.8	-0.5	-3.0	-1.7	1.5
Investment banking <sup>2</sup> .....	40	3	7.1	1.9	2.9	-0.1	-0.7	-1.6
Life insurance <sup>2</sup> .....	41	1101	-1.6	0.0	-0.4	0.1	0.0	0.0
Health and medical insurance.....	41	1103	3.1	0.5	0.2	0.2	0.2	0.1
Property and casualty insurance <sup>2</sup> .....	41	1104	6.3	0.2	0.8	0.0	0.0	0.1
Annuities <sup>2</sup> .....	41	2	0.4	0.0	0.0	-0.3	0.0	0.0
Commissions from sales of insurance <sup>2</sup> .....	42	1	0.6	0.0	0.0	0.0	0.0	0.0
Nonresidential real estate rents <sup>2</sup> .....	43	11	4.2	2.9	2.0	-3.0	1.6	1.5
Nonresidential property sales and leases <sup>2</sup> .....	43	12	-3.4	0.4	0.0	-0.2	-0.1	-0.1
Residential property management fees <sup>2</sup> .....	43	22	1.6	0.1	-0.5	-0.7	1.1	-0.4
Passenger car rental.....	44	1	-5.8	0.8	1.0	1.8	-2.8	1.1
Truck, utility trailer, and RV rental and leasing <sup>2</sup> .....	44	2	-1.0	-0.6	0.9	-0.6	0.1	-0.2
Construction, mining, and forestry machinery and equipment rental and leasing <sup>2</sup> .....	44	3	1.4	-1.0	0.4	0.2	-0.1	0.2
Legal services.....	45	1	6.3	0.2	0.3	0.9	0.3	0.6
Accounting services (partial).....	45	2	6.2	0.2	1.3	-2.3	-0.1	0.3
Architectural and engineering services.....	45	3	3.3	0.1	0.2	0.8	0.0	0.1
Management, scientific, and technical consulting services.....	45	4	3.5	-2.3	5.1	-3.4	0.2	1.7
Advertising and related services (partial) <sup>2</sup> .....	45	5	0.5	-0.2	0.0	0.0	0.0	0.0
Permanent placement services <sup>2</sup> .....	46	1	1.3	-1.1	0.4	-0.2	0.4	0.2
Executive search services <sup>2</sup> .....	46	2	8.3	2.8	1.3	0.8	-1.2	3.7
Staffing services.....	46	3	0.5	-0.3	-0.4	0.2	0.1	0.2
Security guard services <sup>2</sup> .....	48	1	9.7	2.6	-0.1	0.8	-0.2	2.4
Janitorial services <sup>2</sup> .....	49	1	-0.8	0.0	-2.4	-0.1	0.1	0.0
Waste collection.....	50	1	8.5	1.1	0.9	-0.5	1.0	-0.5
Traveler accommodation services.....	53	11	-6.4	-0.4	2.5	-2.6	1.4	-4.8
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	5.7	0.0	1.8	-0.6	0.9	0.9
Aircraft repair and maintenance.....	55	4	8.1	0.3	3.5	0.4	0.2	0.1
Metal treatment services <sup>2</sup> .....	59	1	5.9	0.3	-0.3	0.5	-0.3	0.6
Construction for intermediate demand.....	ID6	4	3.3	0.0	0.0	0.1	0.0	0.1
Maintenance and repair of non-residential buildings (partial) <sup>2</sup> .....	80	2	3.3	0.0	0.0	0.1	0.0	0.1
<b>Intermediate Demand by Production Flow</b>								
Stage 4 intermediate demand.....	ID5	4	2.1	0.5	0.2	-0.3	0.1	0.2
Stage 4 intermediate demand goods.....	ID5	9411	-0.4	0.7	0.3	-0.5	-0.1	0.0
Grains.....	01	2	-29.6	-2.7	-6.3	-3.0	-2.8	-1.2
Meats.....	02	21	6.8	-2.4	1.5	1.1	0.4	-0.7
Unprocessed and packaged fish.....	02	23	-4.3	-0.7	-1.7	-0.9	0.5	0.4
Dairy products.....	02	3	-7.0	1.9	1.4	1.3	-0.4	-0.9
Commercial electric power.....	05	42	5.7	0.2	0.7	-0.3	2.3	0.8
Industrial electric power.....	05	43	7.3	0.3	0.1	0.6	2.3	0.8
Gasoline.....	05	71	-5.3	18.7	5.1	-15.6	-6.5	2.1
No. 2 diesel fuel.....	05	7303	-18.7	39.2	2.6	-11.7	-1.8	-12.4
Basic organic chemicals.....	06	14	-8.8	0.1	1.7	2.9	-2.7	-1.8
Prepared paint <sup>2</sup> .....	06	21	-1.0	0.0	-0.2	-0.3	-0.1	-0.2
Medicinal and botanical chemicals <sup>2</sup> .....	06	31	0.8	-0.2	0.0	0.9	0.0	-0.3
Biological products, including diagnostics.....	06	37	5.1	-0.1	0.3	0.2	0.3	0.0
Pharmaceutical preparations.....	06	38	2.8	0.1	0.2	0.3	0.1	0.1
Plastic construction products <sup>2</sup> .....	07	21	-3.2	-0.1	0.2	0.0	0.2	-0.4
Unsupported plastic film, sheet, and other shapes <sup>2</sup> .....	07	22	-6.2	-0.8	-1.5	0.4	0.3	0.9
Parts for manufacturing from plastics <sup>2</sup> .....	07	26	-4.1	-0.2	-0.2	-0.2	-0.4	0.2
Plastic packaging products <sup>2</sup> .....	07	2A	-4.6	-0.2	0.0	-0.4	0.4	-0.4
Lumber.....	08	1	-9.2	-6.7	2.1	-3.7	-3.0	-1.6
Millwork.....	08	2	-3.4	-0.9	0.3	0.3	0.3	-0.3
Paper boxes and containers <sup>2</sup> .....	09	1503	-3.4	-0.5	-0.2	-0.1	-0.3	0.0
Commercial printing <sup>2</sup> .....	09	47	2.5	0.3	0.2	0.0	0.1	0.0
Steel mill products <sup>2</sup> .....	10	17	-2.0	-2.0	-3.5	-2.5	-1.5	3.3
Nonferrous wire and cable <sup>2</sup> .....	10	26	-4.6	0.5	-1.5	-0.5	-0.1	0.4
Fabricated structural metal products.....	10	7	2.5	0.1	0.4	0.6	0.4	1.6
Other miscellaneous metal products <sup>2</sup> .....	10	89	1.5	-0.2	0.0	0.2	0.2	0.0
Air conditioning and refrigeration equipment.....	11	48	3.8	0.6	0.2	0.4	0.7	-0.3
Wiring devices <sup>2</sup> .....	11	71	4.0	0.6	0.0	0.2	-0.3	-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**  
 [December 2023]

Grouping	Commodity code		Unadjusted 12-month percent change <sup>1</sup>	Seasonally adjusted 1-month percent change <sup>1</sup>				
	Group code	Item code		July to Aug.	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>	Oct. to Nov. <sup>P</sup>	Nov. to Dec. <sup>P</sup>
Electronic components and accessories.....	11	78	-1.1	0.3	-0.1	-0.1	-0.1	-0.1
Miscellaneous electrical machinery and equipment <sup>2</sup> .....	11	79	1.1	0.0	0.0	-0.1	-0.1	0.0
Internal combustion engines <sup>2</sup> .....	11	94	6.3	0.0	0.1	-0.1	0.1	0.0
Machine shop products <sup>2</sup> .....	11	95	1.6	0.0	0.0	-0.2	0.0	0.0
Concrete ingredients and related products.....	13	2	8.4	0.9	0.6	0.1	0.5	0.6
Concrete products.....	13	3	7.3	0.9	1.1	0.7	0.4	0.1
Prepared asphalt, tar roofing and siding products <sup>2</sup> .....	13	61	2.8	-1.2	0.7	0.7	-0.3	0.3
Paving mixtures and blocks.....	13	94	2.1	0.8	0.9	1.0	1.5	0.7
Motor vehicle parts <sup>2</sup> .....	14	12	1.6	0.0	0.1	0.1	0.1	0.1
Aircraft engines and engine parts.....	14	23	3.2	0.3	0.0	0.2	0.9	0.5
Aircraft parts and auxiliary equipment, n.e.c.....	14	25	4.6	0.5	-0.1	0.0	0.1	0.0
Medical, surgical and personal aid devices.....	15	6	2.5	0.1	0.1	0.0	0.2	0.2
Stage 4 intermediate demand services.....	ID5	9412	4.3	0.4	0.2	-0.1	0.3	0.4
Truck transportation of freight <sup>2</sup> .....	30	12	-8.9	0.6	1.5	0.2	-0.1	-1.6
Courier, messenger, and U.S. postal services.....	30	16	5.7	1.0	0.6	0.6	-0.2	0.1
Airline passenger services.....	30	22	-0.1	-2.2	-3.2	2.1	-0.6	2.1
Warehousing, storage, and related services <sup>2</sup> .....	32	1	3.1	-1.1	2.0	-0.3	-0.6	-0.1
Advertising space sales in periodicals and newspapers <sup>2</sup> .....	36	11	0.0	-0.5	-0.4	-0.4	-0.2	0.0
Data processing and related services <sup>2</sup> .....	38	1	2.2	0.1	-0.2	0.2	0.3	0.3
Business loans (partial).....	39	11	9.4	-1.7	-2.7	0.9	-0.8	-1.6
Deposit services (partial) <sup>2</sup> .....	39	2	12.7	-2.5	5.2	0.8	2.8	1.6
Securities brokerage, dealing, investment advice, and related services <sup>2</sup> .....	40	1	10.5	0.9	-0.1	-1.9	0.4	2.0
Portfolio management <sup>2</sup> .....	40	2	5.5	1.8	-0.5	-3.0	-1.7	1.5
Investment banking <sup>2</sup> .....	40	3	7.1	1.9	2.9	-0.1	-0.7	-1.6
Insurance.....	41	11	3.6	0.3	0.4	0.2	0.1	0.0
Annuities <sup>2</sup> .....	41	2	0.4	0.0	0.0	-0.3	0.0	0.0
Nonresidential real estate rents <sup>2</sup> .....	43	11	4.2	2.9	2.0	-3.0	1.6	1.5
Nonresidential property sales and leases <sup>2</sup> .....	43	12	-3.4	0.4	0.0	-0.2	-0.1	-0.1
Nonresidential property management fees <sup>2</sup> .....	43	13	8.4	0.8	0.1	1.5	1.1	0.0
Residential property management fees <sup>2</sup> .....	43	22	1.6	0.1	-0.5	-0.7	1.1	-0.4
Construction, mining, and forestry machinery and equipment rental and leasing <sup>2</sup> .....	44	3	1.4	-1.0	0.4	0.2	-0.1	0.2
Legal services.....	45	1	6.3	0.2	0.3	0.9	0.3	0.6
Advertising agency services <sup>2</sup> .....	45	51	0.5	-0.2	0.0	0.0	0.0	0.0
Accounting services (partial).....	45	2	6.2	0.2	1.3	-2.3	-0.1	0.3
Architectural and engineering services.....	45	3	3.3	0.1	0.2	0.8	0.0	0.1
Management, scientific, and technical consulting services.....	45	4	3.5	-2.3	5.1	-3.4	0.2	1.7
Staffing services.....	46	3	0.5	-0.3	-0.4	0.2	0.1	0.2
Janitorial services <sup>2</sup> .....	49	1	-0.8	0.0	-2.4	-0.1	0.1	0.0
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	5.7	0.0	1.8	-0.6	0.9	0.9
Machinery and equipment parts and supplies wholesaling <sup>2</sup> .....	57	1102	9.2	2.2	-0.1	0.9	1.3	0.2
Building materials, paint, and hardware wholesaling.....	57	3	-7.8	1.3	1.2	0.3	-1.8	1.1
Metals, minerals, and ores wholesaling <sup>2</sup> .....	57	4	19.0	-4.4	-2.5	7.8	2.8	1.6
Chemicals and allied products wholesaling <sup>2</sup> .....	57	5	-0.6	-2.8	-2.4	4.8	1.1	-0.3
Paper and plastics products wholesaling <sup>2</sup> .....	57	6	-1.7	2.7	-1.0	0.6	-0.2	-0.2
Food and alcohol wholesaling <sup>2</sup> .....	57	8	1.5	-3.3	-1.3	0.2	1.1	-0.7
Hardware and building materials and supplies retailing.....	58	D	7.9	2.3	4.0	0.8	-1.8	-1.4
Metal treatment services <sup>2</sup> .....	59	1	5.9	0.3	-0.3	0.5	-0.3	0.6
Stage 3 intermediate demand.....	ID5	3	-2.4	1.1	0.6	-0.6	-0.3	-0.4
Stage 3 intermediate demand goods.....	ID5	9311	-7.8	3.3	1.2	-2.0	-1.2	-1.4
Slaughter cattle.....	01	31	12.6	1.6	1.7	-0.6	-7.2	-3.4
Slaughter hogs.....	01	32	-39.6	-2.4	-0.5	-9.0	-4.0	-19.7
Slaughter poultry.....	01	4	-5.2	-0.9	10.9	-4.9	-1.4	4.9
Raw milk.....	01	6	-12.1	14.0	5.4	-1.5	-2.1	1.0
Commercial electric power.....	05	42	5.7	0.2	0.7	-0.3	2.3	0.8
Industrial electric power.....	05	43	7.3	0.3	0.1	0.6	2.3	0.8
Gasoline.....	05	71	-5.3	18.7	5.1	-15.6	-6.5	2.1
Jet fuel <sup>2</sup> .....	05	7203	-12.3	22.7	7.1	-3.2	-5.8	-12.1
No. 2 diesel fuel.....	05	7303	-18.7	39.2	2.6	-11.7	-1.8	-12.4
Finished lubricants <sup>2</sup> .....	05	76	-0.4	-0.1	-1.1	-0.2	0.2	0.7
Lubricating oil base stocks <sup>2</sup> .....	05	78	-21.4	1.9	-0.1	11.9	2.1	0.6
Asphalt.....	05	8102	23.9	0.0	5.0	2.4	1.4	2.2
Basic inorganic chemicals <sup>2</sup> .....	06	13	-9.7	-1.5	0.3	-2.1	-0.4	0.2
Basic organic chemicals.....	06	14	-8.8	0.1	1.7	2.9	-2.7	-1.8
Paints and allied products <sup>2</sup> .....	06	2	-1.5	0.9	-0.5	-1.1	0.1	-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**  
 [December 2023]

Grouping	Commodity code		Unadjusted 12-month percent change <sup>1</sup>	Seasonally adjusted 1-month percent change <sup>1</sup>				
	Group code	Item code		Dec. 2022 to Dec. 2023 <sup>P</sup>	July to Aug.	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>	Oct. to Nov. <sup>P</sup>
Agricultural chemicals and chemical products.....	06	5	-20.3	2.5	-0.9	1.8	0.2	0.4
Plastic resins and materials.....	06	6	-6.5	-1.7	0.4	-2.5	1.6	1.4
Synthetic rubber <sup>2</sup> .....	07	1102	-7.4	0.1	1.1	2.4	0.2	-1.5
Unsupported plastic film, sheet, and other shapes <sup>2</sup> .....	07	22	-6.2	-0.8	-1.5	0.4	0.3	0.9
Paper <sup>2</sup> .....	09	13	-1.4	-0.6	0.6	-0.5	-0.2	0.0
Paperboard <sup>2</sup> .....	09	14	-8.2	-0.3	0.5	0.0	-0.1	-1.5
Converted paper and paperboard products <sup>2</sup> .....	09	15	-2.1	-0.5	0.0	-0.3	-0.6	-0.3
Commercial printing <sup>2</sup> .....	09	47	2.5	0.3	0.2	0.0	0.1	0.0
Foundry and forge shop products <sup>2</sup> .....	10	15	1.7	0.5	-0.1	-0.6	-0.2	0.0
Steel mill products <sup>2</sup> .....	10	17	-2.0	-2.0	-3.5	-2.5	-1.5	3.3
Nonferrous mill shapes <sup>2</sup> .....	10	25	-1.0	-0.2	-0.5	-0.7	-0.2	0.2
Nonferrous foundry shop products.....	10	28	2.4	0.3	-0.1	0.6	-0.4	0.9
Metal containers <sup>2</sup> .....	10	3	-5.2	-1.6	-0.2	-0.9	-0.5	0.0
Structural, architectural, and pre-engineered metal products.....	10	74	3.1	-0.2	0.3	0.7	0.8	3.0
Bolts, nuts, screws, rivets, and washers <sup>2</sup> .....	10	81	6.3	0.2	0.5	-0.5	1.1	0.0
Other miscellaneous metal products <sup>2</sup> .....	10	89	1.5	-0.2	0.0	0.2	0.2	0.0
General purpose machinery and equipment.....	11	4	5.1	0.4	0.5	0.6	0.0	0.1
Electrical machinery and equipment.....	11	7	1.5	0.2	0.0	0.1	0.1	0.1
Construction sand, gravel, and crushed stone.....	13	21	8.5	1.2	0.5	0.3	0.5	0.6
Cement.....	13	22	8.2	0.3	0.9	-0.4	0.7	0.6
Motor vehicle parts <sup>2</sup> .....	14	12	1.6	0.0	0.1	0.1	0.1	0.1
Aircraft and aircraft equipment.....	14	2	3.6	0.2	0.1	0.1	0.2	0.2
Stage 3 intermediate demand services.....	ID5	9312	2.3	-0.6	0.1	0.5	0.4	0.4
Rail transportation of freight and mail <sup>2</sup> .....	30	11	1.1	0.4	0.7	1.2	0.4	0.0
Courier, messenger, and U.S. postal services.....	30	16	5.7	1.0	0.6	0.6	-0.2	0.1
Arrangement of freight and cargo <sup>2</sup> .....	31	31	-22.5	-12.8	3.3	2.0	-0.5	2.5
Freight forwarding <sup>2</sup> .....	31	3201	2.1	0.0	0.0	0.0	0.0	0.0
Warehousing, storage, and related services <sup>2</sup> .....	32	1	3.1	-1.1	2.0	-0.3	-0.6	-0.1
Advertising space sales in periodicals, newspapers, directories, and mailing lists <sup>2</sup> .....	36	1	0.8	-0.4	-0.4	-0.3	-0.2	0.0
Wired telephone services <sup>2</sup> .....	37	1	3.4	0.7	0.3	-0.2	0.1	0.0
Bundled wired telecommunications access services <sup>2</sup> .....	37	5	3.0	1.0	-2.9	0.2	-0.2	1.9
Data processing and related services <sup>2</sup> .....	38	1	2.2	0.1	-0.2	0.2	0.3	0.3
Business loans (partial).....	39	11	9.4	-1.7	-2.7	0.9	-0.8	-1.6
Deposit services (partial) <sup>2</sup> .....	39	2	12.7	-2.5	5.2	0.8	2.8	1.6
Securities brokerage, dealing, investment advice, and related services <sup>2</sup> .....	40	1	10.5	0.9	-0.1	-1.9	0.4	2.0
Insurance.....	41	11	3.6	0.3	0.4	0.2	0.1	0.0
Nonresidential real estate rents <sup>2</sup> .....	43	11	4.2	2.9	2.0	-3.0	1.6	1.5
Legal services.....	45	1	6.3	0.2	0.3	-0.9	0.3	0.6
Accounting services (partial).....	45	2	6.2	0.2	1.3	-2.3	-0.1	0.3
Architectural and engineering services.....	45	3	3.3	0.1	0.2	0.8	0.0	0.1
Management, scientific, and technical consulting services.....	45	4	3.5	-2.3	5.1	-3.4	0.2	1.7
Advertising agency services <sup>2</sup> .....	45	51	0.5	-0.2	0.0	0.0	0.0	0.0
Staffing services.....	46	3	0.5	-0.3	-0.4	0.2	0.1	0.2
Aircraft repair maintenance.....	55	4	8.1	0.3	3.5	0.4	0.2	0.1
Machinery and equipment parts and supplies wholesaling <sup>2</sup> .....	57	1102	9.2	2.2	-0.1	0.9	1.3	0.2
Building materials, paint, and hardware wholesaling.....	57	3	-7.8	1.3	1.2	0.3	-1.8	1.1
Metals, minerals, and ores wholesaling <sup>2</sup> .....	57	4	19.0	-4.4	-2.5	7.8	2.8	1.6
Chemicals and allied products wholesaling <sup>2</sup> .....	57	5	-0.6	-2.8	-2.4	4.8	1.1	-0.3
Paper and plastics products wholesaling <sup>2</sup> .....	57	6	-1.7	2.7	-1.0	0.6	-0.2	-0.2
Food wholesaling <sup>2</sup> .....	57	8101	1.3	-3.7	-1.5	0.1	1.1	-0.8
Metal treatment services <sup>2</sup> .....	59	1	5.9	0.3	-0.3	0.5	-0.3	0.6
Stage 2 intermediate demand.....	ID5	2	-5.5	0.7	1.1	-0.3	-1.0	-1.6
Stage 2 intermediate demand goods.....	ID5	9211	-15.3	2.3	3.1	-1.3	-2.4	-4.1
Corn.....	01	2202	-31.4	-2.0	-6.2	-2.7	-3.5	-1.7
Oilseeds.....	01	83	-12.4	-4.3	4.3	-4.7	5.0	-4.7
Prepared animal feeds.....	02	9	-6.7	0.2	0.6	-1.1	-0.1	-1.0
Coal.....	05	1	-0.4	1.5	-3.4	2.7	-1.7	1.1
Natural gas <sup>2</sup> .....	05	31	-60.5	0.0	-2.6	1.2	9.9	1.5
Liquefied petroleum gas <sup>2</sup> .....	05	32	-15.5	4.7	9.7	-7.0	-6.1	-2.5
Crude petroleum <sup>2</sup> .....	05	61	-10.8	8.1	10.3	-3.4	-9.7	-13.2
No. 2 diesel fuel.....	05	7303	-18.7	39.2	2.6	-11.7	-1.8	-12.4
Industrial chemicals.....	06	1	-9.0	-0.2	1.4	2.0	-2.3	-1.4
Plastic resins and materials.....	06	6	-6.5	-1.7	0.4	-2.5	1.6	1.4
Plastic products <sup>2</sup> .....	07	2	-2.8	-0.2	-0.3	0.0	0.2	0.0
Logs, bolts, timber, pulpwood, and wood chips <sup>2</sup> .....	08	5	-5.1	0.3	0.0	-0.1	-1.2	-0.4

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**  
 [December 2023]

Grouping	Commodity code		Unadjusted 12-month percent change <sup>1</sup>	Seasonally adjusted 1-month percent change <sup>1</sup>				
	Group code	Item code		Dec. 2022 to Dec. 2023 <sup>P</sup>	July to Aug.	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>	Oct. to Nov. <sup>P</sup>
Paper <sup>2</sup> .....	09	13	-1.4	-0.6	0.6	-0.5	-0.2	0.0
Paperboard, excluding corrugated paperboard <sup>2</sup> .....	09	1411	-7.9	-0.6	0.9	-0.2	0.0	-2.0
Commercial printing <sup>2</sup> .....	09	47	2.5	0.3	0.2	0.0	0.1	0.0
Iron and steel scrap.....	10	12	19.4	2.9	0.8	1.6	5.5	-1.1
Steel mill products <sup>2</sup> .....	10	17	-2.0	-2.0	-3.5	-2.5	-1.5	3.3
Nonferrous mill shapes <sup>2</sup> .....	10	25	-1.0	-0.2	-0.5	-0.7	-0.2	0.2
Electrical machinery and equipment.....	11	7	1.5	0.2	0.0	0.1	0.1	0.1
Electronic components and accessories.....	11	78	-1.1	0.3	-0.1	-0.1	-0.1	-0.1
Stage 2 intermediate demand services.....	ID5	9212	2.8	-0.5	-0.4	0.5	0.2	0.2
Rail transportation of freight and mail <sup>2</sup> .....	30	11	1.1	0.4	0.7	1.2	0.4	0.0
Truck transportation of freight <sup>2</sup> .....	30	12	-8.9	0.6	1.5	0.2	-0.1	-1.6
U.S. Postal Service <sup>2</sup> .....	30	1601	8.0	0.0	0.0	0.0	0.0	0.0
Courier and messenger services, except air.....	30	1602	4.4	1.1	0.7	0.4	0.0	0.7
Air mail and package delivery services, excluding by USPS.....	30	1603	4.7	2.2	1.3	1.5	-1.0	-0.6
Pipeline transportation <sup>2</sup> .....	30	17	2.9	0.1	-0.2	-0.2	-0.1	0.0
Airline passenger services.....	30	22	-0.1	-2.2	-3.2	2.1	-0.6	2.1
Arrangement of freight and cargo <sup>2</sup> .....	31	31	-22.5	-12.8	3.3	2.0	-0.5	2.5
Television advertising time sales.....	36	21	-15.6	-8.0	-4.2	0.5	7.1	3.1
Wireless telecommunication services.....	37	2	1.2	-0.6	0.2	0.1	0.2	0.1
Data processing and related services <sup>2</sup> .....	38	1	2.2	0.1	-0.2	0.2	0.3	0.3
Securities brokerage, dealing, investment advice, and related services <sup>2</sup> .....	40	1	10.5	0.9	-0.1	-1.9	0.4	2.0
Portfolio management <sup>2</sup> .....	40	2	5.5	1.8	-0.5	-3.0	-1.7	1.5
Investment banking <sup>2</sup> .....	40	31	7.1	1.9	2.9	-0.1	-0.7	-1.6
Insurance.....	41	11	3.6	0.3	0.4	0.2	0.1	0.0
Commissions from sales of insurance <sup>2</sup> .....	42	11	0.6	0.0	0.0	0.0	0.0	0.0
Legal services.....	45	1	6.3	0.2	0.3	0.9	0.3	0.6
Accounting services (partial).....	45	2	6.2	0.2	1.3	-2.3	-0.1	0.3
Management, scientific, and technical consulting services.....	45	4	3.5	-2.3	5.1	-3.4	0.2	1.7
Advertising agency services <sup>2</sup> .....	45	51	0.5	-0.2	0.0	0.0	0.0	0.0
Staffing services.....	46	3	0.5	-0.3	-0.4	0.2	0.1	0.2
Security guard services <sup>2</sup> .....	48	1	9.7	2.6	-0.1	0.8	-0.2	2.4
Janitorial services <sup>2</sup> .....	49	1	-0.8	0.0	-2.4	-0.1	0.1	0.0
Traveler accommodation services.....	53	1	-6.4	-0.4	2.5	-2.6	1.4	-4.8
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	5.7	0.0	1.8	-0.6	0.9	0.9
Hardware and building materials and supplies retailing.....	58	D	7.9	2.3	4.0	0.8	-1.8	-1.4
Stage 1 intermediate demand.....	ID5	1	-0.2	1.4	0.3	-0.4	-0.1	-0.2
Stage 1 intermediate demand goods.....	ID5	9111	-3.7	2.6	0.3	-0.8	-0.5	-0.9
Prepared animal feeds.....	02	9	-6.7	0.2	0.6	-1.1	-0.1	-1.0
Commercial electric power.....	05	42	5.7	0.2	0.7	-0.3	2.3	0.8
Industrial electric power.....	05	43	7.3	0.3	0.1	0.6	2.3	0.8
Commercial natural gas.....	05	52	-16.3	-0.1	-1.8	2.2	5.5	-0.6
Industrial natural gas.....	05	53	-16.8	0.3	-2.3	-6.5	8.3	1.7
Gasoline.....	05	71	-5.3	18.7	5.1	-15.6	-6.5	2.1
No. 2 diesel fuel.....	05	7303	-18.7	39.2	2.6	-11.7	-1.8	-12.4
Industrial chemicals.....	06	1	-9.0	-0.2	1.4	2.0	-2.3	-1.4
Prepared paint <sup>2</sup> .....	06	21	-1.0	0.0	-0.2	-0.3	-0.1	-0.2
Plastic construction products <sup>2</sup> .....	07	21	-3.2	-0.1	0.2	0.0	0.2	-0.4
Recyclable paper <sup>2</sup> .....	09	12	36.8	2.2	9.6	10.8	1.0	-7.5
Paper <sup>2</sup> .....	09	13	-1.4	-0.6	0.6	-0.5	-0.2	0.0
Converted paper and paperboard products <sup>2</sup> .....	09	15	-2.1	-0.5	0.0	-0.3	-0.6	-0.3
Iron and steel scrap.....	10	12	19.4	2.9	0.8	1.6	5.5	-1.1
Steel mill products <sup>2</sup> .....	10	17	-2.0	-2.0	-3.5	-2.5	-1.5	3.3
Primary nonferrous metals <sup>2</sup> .....	10	22	0.1	-3.9	1.9	-2.0	0.9	-1.5
Nonferrous scrap.....	10	23	-5.4	0.2	-0.7	-0.8	0.0	3.6
Nonferrous wire and cable <sup>2</sup> .....	10	26	-4.6	0.5	-1.5	-0.5	-0.1	0.4
Fabricated structural metal products.....	10	7	2.5	0.1	0.4	0.6	0.4	1.6
General purpose machinery and equipment.....	11	4	5.1	0.4	0.5	0.6	0.0	0.1
Construction sand, gravel, and crushed stone.....	13	21	8.5	1.2	0.5	0.3	0.5	0.6
Stage 1 intermediate demand services.....	ID5	9112	3.5	0.3	0.3	0.0	0.4	0.4
Truck transportation of freight <sup>2</sup> .....	30	12	-8.9	0.6	1.5	0.2	-0.1	-1.6
Airline passenger services.....	30	22	-0.1	-2.2	-3.2	2.1	-0.6	2.1
Advertising space sales in periodicals, newspapers, directories, and mailing lists <sup>2</sup> .....	36	1	0.8	-0.4	-0.4	-0.3	-0.2	0.0
Business wired telecommunication services <sup>2</sup> .....	37	12	3.1	1.0	0.2	-0.5	0.2	-0.1
Wireless telecommunication services.....	37	2	1.2	-0.6	0.2	0.1	0.2	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**  
 [December 2023]

Grouping	Commodity code		Unadjusted 12-month percent change <sup>1</sup>	Seasonally adjusted 1-month percent change <sup>1</sup>				
	Group code	Item code		Dec. 2022 to Dec. 2023 <sup>p</sup>	July to Aug.	Aug. to Sept. <sup>p</sup>	Sept. to Oct. <sup>p</sup>	Oct. to Nov. <sup>p</sup>
Bundled wired telecommunications access services <sup>2</sup> .....	37	5	3.0	1.0	-2.9	0.2	-0.2	1.9
Business loans (partial).....	39	11	9.4	-1.7	-2.7	0.9	-0.8	-1.6
Deposit services (partial) <sup>2</sup> .....	39	2	12.7	-2.5	5.2	0.8	2.8	1.6
Securities brokerage, dealing, investment advice, and related services <sup>2</sup> .....	40	1	10.5	0.9	-0.1	-1.9	0.4	2.0
Portfolio management <sup>2</sup> .....	40	2	5.5	1.8	-0.5	-3.0	-1.7	1.5
Investment banking <sup>2</sup> .....	40	3	7.1	1.9	2.9	-0.1	-0.7	-1.6
Insurance.....	41	11	3.6	0.3	0.4	0.2	0.1	0.0
Nonresidential real estate rents <sup>2</sup> .....	43	11	4.2	2.9	2.0	-3.0	1.6	1.5
Architectural and engineering services.....	45	3	3.3	0.1	0.2	0.8	0.0	0.1
Management consulting services.....	45	41	3.5	-2.3	5.1	-3.4	0.2	1.7
Waste collection.....	50	1	8.5	1.1	0.9	-0.5	1.0	-0.5
Traveler accommodation services.....	53	11	-6.4	-0.4	2.5	-2.6	1.4	-4.8
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	5.7	0.0	1.8	-0.6	0.9	0.9
Machinery and equipment parts and supplies wholesaling <sup>2</sup> .....	57	1102	9.2	2.2	-0.1	0.9	1.3	0.2
Building materials, paint, and hardware wholesaling.....	57	3	-7.8	1.3	1.2	0.3	-1.8	1.1
Metals, minerals, and ores wholesaling <sup>2</sup> .....	57	4	19.0	-4.4	-2.5	7.8	2.8	1.6
Chemicals and allied products wholesaling <sup>2</sup> .....	57	5	-0.6	-2.8	-2.4	4.8	1.1	-0.3
Paper and plastics products wholesaling <sup>2</sup> .....	57	6	-1.7	2.7	-1.0	0.6	-0.2	-0.2
Hardware and building materials and supplies retailing.....	58	D	7.9	2.3	4.0	0.8	-1.8	-1.4
Mining services <sup>2</sup> .....	60	1	2.0	-0.3	0.8	-0.7	1.2	0.2

<sup>1</sup> 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.

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

<sup>3</sup> 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**  
 [December 2023, Index base Nov. 2009=100, unless otherwise indicated]

Grouping	Other index base	Commodity code		Seasonally adjusted index <sup>1</sup>				
		Group code	Item code	Aug. 2023	Sept. 2023 <sup>p</sup>	Oct. 2023 <sup>p</sup>	Nov. 2023 <sup>p</sup>	Dec. 2023 <sup>p</sup>
<b>Final Demand</b>								
Final demand.....		FD	4	142.427	143.004	142.368	142.243	142.055
Final demand goods.....		FD	41	143.958	145.177	143.125	142.750	142.187
Final demand foods.....		FD	411	148.961	149.893	149.672	150.652	149.230
Finished consumer foods <sup>2</sup> .....	00/82	FD	4111	263.062	264.534	264.761	266.377	264.215
Finished consumer foods, crude.....	00/82	FD	411113	237.530	229.078	221.941	264.787	247.881
Finished consumer foods, processed.....	00/82	FD	411112	264.353	266.765	267.693	265.373	264.625
Government purchased foods.....		FD	4112	153.334	155.374	156.899	156.666	155.498
Foods for export.....		FD	4113	149.194	150.123	147.578	149.374	146.925
Final demand energy.....		FD	412	150.047	154.659	144.271	140.851	139.174
Finished consumer energy goods <sup>2</sup> .....	00/82	FD	4121	234.682	241.631	223.424	218.477	219.298
Government purchased energy.....		FD	4122	161.679	166.930	159.044	155.462	146.165
Energy for export.....		FD	4123	141.434	147.029	144.208	138.074	127.425
Final demand goods less foods and energy.....		FD	413	140.773	141.012	141.051	141.247	141.273
Finished goods less foods and energy <sup>2</sup> .....	00/82	FD	4131	248.005	248.455	248.544	249.035	248.929
Finished consumer goods less foods and energy.....	00/82	FD	41311	275.526	276.011	276.090	276.654	276.461
Nondurable consumer goods less foods and energy.....	00/82	FD	413111	357.541	358.008	358.810	359.407	359.410
Durable consumer goods.....	00/82	FD	413112	191.430	191.901	191.382	191.884	191.541
Private capital equipment.....	00/82	FD	41312	212.999	213.398	213.491	213.897	213.872
Private capital equipment for manufacturing industries.....	00/82	FD	413121	228.748	229.046	229.253	229.636	229.952
Private capital equipment for nonmanufacturing industries.....	00/82	FD	413122	208.288	208.717	208.776	209.189	209.063
Government purchased goods, excluding foods and energy.....		FD	4132	136.374	136.623	136.786	136.734	136.761
Government purchased goods excluding foods, energy, and capital equipment.....		FD	41321	145.276	145.661	145.887	145.567	145.597
Government purchased capital equipment.....		FD	41322	123.188	123.269	123.354	123.625	123.648
Goods for export, excluding foods and energy.....		FD	4133	136.785	136.983	136.962	137.088	137.261
Final demand services.....		FD	42	140.593	140.897	140.894	140.885	140.855
Final demand trade services <sup>3</sup> .....		FD	423	153.330	153.118	152.676	152.488	151.233
Trade of finished goods <sup>2</sup> .....		FD	4231	151.701	151.500	150.821	150.410	149.286
Trade of personal consumption goods.....		FD	42311	151.162	150.747	150.319	149.747	149.425
Trade of private capital equipment.....		FD	42312	152.369	153.113	151.334	151.641	146.975
Trade of government purchased goods.....		FD	4232	164.960	164.991	165.610	166.718	164.444
Trade of government purchased goods, excluding capital equipment.....		FD	42321	169.386	168.785	170.915	171.759	172.418
Trade of government purchased capital equipment.....		FD	42322	156.767	157.741	156.095	157.588	150.952
Trade of exports.....		FD	4233	164.211	163.806	165.211	166.642	164.548
Final demand transportation and warehousing services.....		FD	422	148.952	149.134	150.237	149.893	149.362
Transportation of passengers for final demand.....		FD	4221	136.154	131.766	134.556	133.769	136.571
Transportation of private passengers.....		FD	42211	136.154	131.775	134.559	133.774	136.570
Transportation of government passengers.....		FD	42212	135.930	131.590	134.347	133.569	136.341
Transportation of passengers for export.....		FD	42213	136.160	131.734	134.550	133.755	136.581
Transportation and warehousing of goods for final demand.....		FD	4222	153.126	155.092	155.530	155.361	153.532
Transportation and warehousing of finished goods <sup>2</sup> .....		FD	42221	151.071	153.059	153.439	153.291	151.315
Transportation and warehousing of personal consumption goods.....		FD	422211	151.637	153.603	153.986	153.833	151.896
Transportation and warehousing of private capital equipment.....		FD	422212	148.778	150.856	151.222	151.097	148.961
Transportation and warehousing of government purchased goods.....		FD	42222	152.012	153.793	154.067	153.933	152.342
Transportation and warehousing of exports.....		FD	42223	159.247	161.212	161.825	161.598	160.047
Final demand services less trade, transportation, and warehousing.....		FD	421	133.967	134.491	134.550	134.648	135.163
Finished services less trade, transportation, and warehousing <sup>2</sup> .....		FD	4211	134.184	134.702	134.858	134.996	135.425
Finished consumer services less trade, transportation, and warehousing.....		FD	42111	133.430	133.980	134.096	134.263	134.627
Private capital investment services less trade, transportation, and warehousing.....		FD	42112	141.195	141.462	141.929	141.846	142.783
Government purchased services less trade, transportation, and warehousing.....		FD	4212	125.247	125.572	125.097	125.197	125.941
Gov. purchased services less trade, transportation, and warehousing, excl. capital investment.....		FD	42121	125.850	126.216	125.669	125.851	126.549
Government purchased capital investment services less trade, transportation, and warehousing.....		FD	42122	110.590	110.314	110.900	109.817	111.188
Services for export less trade, transportation, and warehousing.....		FD	4213	141.633	142.483	141.750	141.254	142.755
Final demand construction.....		FD	43	174.767	174.863	174.291	174.039	174.171
Construction for private capital investment.....		FD	431	178.944	179.053	178.398	178.070	178.304
Construction for government.....		FD	432	166.978	167.044	166.647	166.555	166.472
<b>Final Demand Special Groupings</b>								
Final demand less exports.....	04/10	FD	49101	140.155	140.736	140.034	139.889	139.740
Final demand less government.....	04/10	FD	49102	140.419	140.966	140.356	140.247	140.123
Final demand less foods, food and nonalcoholic beverages for immediate consumption, and energy <sup>1</sup> .....	04/10	FD	49103	140.032	140.286	140.269	140.304	140.224
Final demand less foods and energy <sup>4</sup> .....	04/10	FD	49104	139.795	140.077	140.069	140.098	140.084
Final demand less foods and food and nonalcoholic beverages for immediate consumption <sup>4</sup> .....	04/10	FD	49105	140.255	140.794	140.096	139.905	139.721

See footnotes at end of table.



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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index <sup>1</sup>				
		Group code	Item code	Aug. 2023	Sept. 2023 <sup>P</sup>	Oct. 2023 <sup>P</sup>	Nov. 2023 <sup>P</sup>	Dec. 2023 <sup>P</sup>
Final demand less foods <sup>4</sup> .....	04/10	FD	49106	139.950	140.498	139.849	139.664	139.547
Final demand less energy.....	04/10	FD	49107	140.063	140.381	140.361	140.443	140.350
Final demand less trade services.....	01/10	FD	49108	138.264	139.006	138.336	138.226	138.274
Final demand less distributive services <sup>5</sup> .....	01/10	FD	49109	137.792	138.483	137.765	137.657	137.785
Final demand goods less energy.....	01/10	FD	49111	141.058	141.445	141.428	141.792	141.503
Final demand goods less foods.....	04/10	FD	49112	139.796	141.048	138.659	138.009	137.638
Final demand services less trade services.....	04/10	FD	49113	134.196	134.684	134.839	134.895	135.307
Final demand distributive services <sup>5</sup> .....	04/10	FD	49114	150.202	150.329	150.032	149.851	148.533
Final demand goods plus final demand distributive services <sup>5</sup> .....	04/10	FD	49115	144.464	145.213	143.918	143.628	142.761
Final demand less foods, energy, and trade services <sup>4</sup> .....	08/13	FD	49116	128.459	128.842	128.938	129.017	129.299
Private and government purchased capital equipment.....	08/13	FD	49117	128.360	128.579	128.639	128.889	128.880
Private and government purchased capital investment services.....	08/13	FD	49118	134.885	135.386	135.018	135.090	133.757
Total private and government purchased capital investment.....	08/13	FD	49119	135.036	135.377	135.147	135.244	134.592
Total finished <sup>2</sup> .....	01/10	FD	49201	141.110	141.670	140.976	140.844	140.772
Total finished less foods, food and nonalcoholic beverages for immediate consumption, and energy <sup>2, 4</sup> .....	12/10	FD	49202	139.576	139.866	139.833	139.837	139.791
Total finished less foods and energy <sup>2, 4</sup> .....	01/10	FD	49203	140.422	140.713	140.688	140.695	140.649
Total finished less foods and food and nonalcoholic beverages for immediate consumption <sup>2, 4</sup> .....	12/10	FD	49204	139.354	139.897	139.154	138.963	138.952
Total finished less foods <sup>2, 4</sup> .....	01/10	FD	49205	140.755	141.300	140.562	140.373	140.363
Total finished less energy <sup>2</sup> .....	01/10	FD	49206	140.827	141.147	141.131	141.187	141.077
Finished goods <sup>2</sup> .....	00/82	FD	49207	257.192	259.616	254.829	254.116	253.825
Finished goods less energy <sup>2</sup> .....	00/82	FD	49208	251.193	251.918	252.043	252.837	252.176
Finished goods, excluding foods <sup>2, 4</sup> .....	00/82	FD	49209	254.981	257.649	251.555	250.231	250.433
Finished services <sup>2</sup> .....	01/10	FD	49210	138.964	139.265	139.243	139.206	139.157
Private capital investment services.....	04/10	FD	49211	145.069	145.613	145.234	145.295	143.966
Finished distributive services <sup>2, 5</sup> .....	04/10	FD	49212	148.501	148.567	148.029	147.659	146.455
Finished services less trade services <sup>2</sup> .....	04/10	FD	49213	134.022	134.510	134.731	134.835	135.184
Finished services less distributive services <sup>2, 5</sup> .....	04/10	FD	49214	133.350	133.757	133.970	134.087	134.565
Total private capital investment (goods, services, and construction).....	04/10	FD	49215	143.160	143.550	143.306	143.399	142.713
Finished goods plus finished distributive services <sup>2</sup> .....	04/10	FD	49216	145.838	146.569	144.928	144.543	143.879
Total exports.....	04/10	FD	49301	139.993	140.477	140.345	140.364	139.941
Goods for export.....	00/82	FD	49302	232.268	233.264	232.464	232.398	231.130
Services for export.....	04/10	FD	49303	150.868	151.235	151.563	151.662	151.664
Total government purchases.....	04/10	FD	49401	137.743	138.548	137.736	137.456	136.565
Government purchased goods.....	00/82	FD	49402	235.211	238.035	235.197	233.607	229.539
Government purchased services.....	04/10	FD	49403	133.677	133.908	133.727	133.953	134.156
Total government purchased capital investment (goods, services, construction).....	08/13	FD	49404	132.326	132.469	132.242	132.403	131.730
Government purchases, defense.....	05/15	FD	49405	124.591	125.686	125.069	124.572	122.803
Government purchases, non-defense.....	05/15	FD	49406	132.112	132.723	131.881	131.723	131.293
Personal consumption.....	01/10	FD	49501	140.558	141.157	140.361	140.178	140.246
Personal consumption goods (finished consumer goods).....	00/82	FD	49502	275.952	279.261	272.340	271.136	270.728
Personal consumption goods less energy.....	00/82	FD	49503	270.675	271.594	271.738	272.764	271.707
Personal consumption goods less foods.....	00/82	FD	49504	279.497	283.565	273.649	271.252	271.595
Personal consumption nondurable goods less foods.....	00/82	FD	49508	318.065	323.737	309.624	305.931	306.582
Personal consumption services.....	04/10	FD	49505	137.500	137.763	137.796	137.745	137.893
Personal consumption less trade services.....	04/10	FD	49506	137.323	138.171	137.287	137.202	137.366
Personal consumption less distributive services <sup>5</sup> .....	04/10	FD	49507	137.039	137.849	136.918	136.835	137.075
Personal consumption less foods and energy.....	04/14	FD	49510	128.856	129.100	129.132	129.117	129.232
Personal consumption less foods, energy, and trade services <sup>3</sup> .....	04/14	FD	49511	125.642	126.076	126.236	126.375	126.614
Personal consumption less foods, energy, and distributive services <sup>5</sup> .....	04/14	FD	49512	125.581	125.956	126.109	126.261	126.589
Personal consumption goods plus personal consumption distributive services <sup>5</sup> .....	08/13	FD	49509	134.273	135.001	133.208	132.685	132.353
<b>Intermediate Demand by Commodity Type</b>								
<b>Processed goods</b>								
Processed goods for intermediate demand.....	00/82	ID6	1	258.693	260.179	257.484	256.356	254.708
Materials and components for manufacturing.....	00/82	ID6	11	232.112	232.269	231.900	230.998	231.504
Materials for manufacturing.....		ID6	111	143.707	143.802	143.347	142.389	142.636
Materials for food manufacturing.....	00/82	ID6	1111	247.314	249.471	250.054	248.279	247.146
Materials for nondurable manufacturing.....	00/82	ID6	1112	259.824	261.842	263.183	261.157	259.748
Materials for durable manufacturing.....	00/82	ID6	1113	281.600	278.633	274.507	273.040	276.481
Components for manufacturing.....	00/82	ID6	112	187.846	187.976	188.156	188.271	188.820
Components for nondurable manufacturing.....		ID6	1121	145.723	145.120	145.130	145.204	145.775
Components for durable manufacturing.....		ID6	1122	132.590	132.715	132.848	132.930	133.311
Materials and components for construction.....	00/82	ID6	12	351.267	352.470	352.484	353.036	354.042
Materials for construction.....		ID6	121	167.574	168.534	167.876	167.912	167.971
Components for construction.....		ID6	122	178.130	178.413	178.982	179.453	180.319
Processed fuels and lubricants for intermediate demand.....	00/82	ID6	13	260.398	266.645	254.590	251.602	242.097
Processed fuels and lubricants to manufacturing industries.....	00/82	ID6	131	259.067	263.250	262.657	262.529	255.397

See footnotes at end of table.

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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index <sup>1</sup>				
		Group code	Item code	Aug. 2023	Sept. 2023 <sup>P</sup>	Oct. 2023 <sup>P</sup>	Nov. 2023 <sup>P</sup>	Dec. 2023 <sup>P</sup>
Processed fuels and lubricants to nonmanufacturing industries.....	00/82	ID6	132	261.127	268.036	252.342	248.447	238.182
Containers for intermediate demand.....	00/82	ID6	14	307.300	306.137	305.581	304.467	305.348
Supplies for intermediate demand.....	00/82	ID6	15	251.026	251.377	251.080	250.620	250.348
Supplies to manufacturing industries.....	00/82	ID6	151	245.560	245.512	245.419	245.323	245.639
Supplies to nonmanufacturing industries.....	00/82	ID6	152	249.883	250.293	249.966	249.454	249.092
Supplies to nonmanufacturing industries, feeds.....	00/82	ID6	1521	239.689	239.965	235.777	235.418	231.468
Supplies to nonmanufacturing industries, other than feeds.....	00/82	ID6	1522	253.218	253.649	253.822	253.285	253.392
<b>Unprocessed goods</b>								
Unprocessed goods for intermediate demand.....	00/82	ID6	2	253.963	262.335	257.031	250.743	239.829
Unprocessed foodstuffs and feedstuffs.....	00/82	ID6	21	223.337	228.470	221.304	219.074	213.687
Unprocessed nonfood materials.....	00/82	ID6	22	265.186	275.556	271.843	262.869	248.398
Unprocessed nonfood materials except fuel.....	00/82	ID6	221	334.913	352.333	345.737	328.337	305.668
Unprocessed nonfood materials except fuel to manufacturing industries.....	00/82	ID6	2211	309.949	326.796	320.347	303.374	281.275
Unprocessed nonfood materials except fuel to nonmanufacturing industries.....	00/82	ID6	2212	352.826	354.387	355.432	357.246	359.334
Unprocessed fuel.....	00/82	ID6	222	120.683	117.228	119.143	126.528	128.248
Unprocessed fuel to manufacturing industries.....	00/82	ID6	2221	220.205	213.012	218.249	218.143	220.668
Unprocessed fuel to nonmanufacturing industries.....	00/82	ID6	2222	118.517	115.174	116.957	124.974	126.698
<b>Services</b>								
Services for intermediate demand.....		ID6	3	146.312	146.616	146.669	147.137	147.697
Trade services for intermediate demand <sup>5</sup> .....		ID6	33	172.449	171.535	174.602	175.640	176.263
Trade services for manufacturing industries.....	12/12	ID6	331	156.850	155.493	158.522	160.019	160.501
Trade services for nonmanufacturing industries.....	12/12	ID6	332	154.131	153.814	156.327	156.728	157.364
Transportation and warehousing services for intermediate demand.....		ID6	32	154.390	155.263	156.154	155.876	155.962
Transportation of passengers for intermediate demand.....		ID6	321	135.993	131.655	134.411	133.634	136.404
Transportation of passengers for manufacturing industries.....		ID6	3211	136.136	131.714	134.528	133.733	136.557
Transportation of passengers for nonmanufacturing industries.....		ID6	3212	136.037	131.708	134.458	133.682	136.447
Transportation and warehousing of goods for intermediate demand.....		ID6	322	156.431	157.793	158.511	158.280	158.115
Transportation and warehousing of goods for manufacturing industries.....	12/12	ID6	3221	129.560	130.720	131.080	131.155	130.134
Transportation and warehousing of goods for nonmanufacturing industries.....	12/12	ID6	3222	139.864	141.073	141.784	141.499	141.609
Services less trade, transportation, and warehousing for intermediate demand.....		ID6	31	137.826	138.284	137.540	138.019	138.647
Services less trade, transportation, and warehousing for manufacturing industries.....		ID6	311	128.769	129.082	129.544	129.529	130.189
Services less trade, transportation, and warehousing for nonmanufacturing industries.....		ID6	312	138.117	138.579	137.793	138.290	138.916
<b>Construction</b>								
Construction for intermediate demand.....		ID6	4	145.804	145.826	145.907	145.971	146.082
<b>Intermediate Demand by Commodity Type Special Groupings</b>								
Processed materials less foods and feeds.....	00/82	ID6	9111	260.213	261.672	258.780	257.690	256.055
Processed foods and feeds.....	00/82	ID6	9112	244.084	245.829	245.061	243.562	241.796
Processed energy goods.....	00/82	ID6	9113	261.606	267.883	255.776	252.776	243.228
Processed materials less energy.....	00/82	ID6	9118	254.866	255.143	254.821	254.173	254.509
Processed materials less foods and energy.....	00/82	ID6	9115	255.765	255.850	255.587	255.051	255.660
Intermediate distributive services <sup>6</sup> .....	04/10	ID6	9116	163.037	163.124	165.128	165.600	165.872
Processed goods plus intermediate distributive services.....	04/10	ID6	9117	146.670	147.283	146.755	146.435	145.855
Unprocessed materials less agricultural products.....	00/82	ID6	9211	269.496	282.266	278.883	269.443	253.432
Unprocessed energy materials <sup>7</sup> .....	00/82	ID6	9212	205.947	219.870	215.161	202.706	184.262
Unprocessed materials less energy.....	00/82	ID6	9213	276.313	279.495	274.055	273.316	269.460
Unprocessed nonfood materials less energy <sup>8</sup> .....	00/82	ID6	9216	434.087	431.105	431.184	435.119	436.179
<b>Intermediate Demand by Production Flow</b>								
<b>Stage 4 Intermediate Demand</b>								
Stage 4 intermediate demand.....		ID5	4	148.939	149.297	148.800	149.018	149.351
Inputs to stage 4 goods producers.....		ID5	41	145.773	145.506	145.672	145.848	145.943
Goods.....		ID5	411	139.188	139.012	138.641	138.467	138.497
Foods.....		ID5	4111	147.375	146.134	143.821	144.508	143.809
Energy.....		ID5	4112	148.898	155.745	162.034	150.352	141.931
Goods excluding foods and energy.....		ID5	4113	137.953	137.875	137.740	137.541	137.760
Services.....		ID5	412	167.690	167.120	169.076	170.416	170.728
Trade services.....		ID5	4123	179.644	178.450	180.995	182.887	183.160
Transportation and warehousing services.....		ID5	4122	134.714	135.168	136.501	136.578	136.359
Transportation of passengers.....		ID5	41221	136.159	131.733	134.549	133.754	136.580
Transportation and warehousing of goods.....		ID5	41222	143.351	144.792	145.922	146.176	145.345
Services less trade, transportation, and warehousing.....		ID5	4121	130.043	130.976	131.288	131.342	131.904
Inputs to stage 4 services producers.....		ID5	42	146.610	147.132	146.364	146.734	147.168

See footnotes at end of table.



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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index <sup>1</sup>				
		Group code	Item code	Aug. 2023	Sept. 2023 <sup>P</sup>	Oct. 2023 <sup>P</sup>	Nov. 2023 <sup>P</sup>	Dec. 2023 <sup>P</sup>
Goods.....		ID5	421	146.539	147.413	146.625	146.878	146.428
Foods.....		ID5	4211	147.323	149.259	149.159	147.238	145.957
Energy.....		ID5	4212	143.553	145.013	142.467	144.128	143.072
Goods excluding foods and energy.....		ID5	4213	147.178	147.375	147.409	147.508	147.672
Services.....		ID5	422	146.414	146.819	146.058	146.467	147.195
Trade services.....		ID5	4223	162.068	161.121	163.309	164.460	164.659
Transportation and warehousing services.....		ID5	4222	150.155	150.919	151.656	151.214	151.655
Transportation of passengers.....		ID5	42221	135.635	131.252	134.039	133.253	136.051
Transportation and warehousing of goods.....		ID5	42222	153.248	154.888	155.280	154.896	154.939
Services less trade, transportation, and warehousing.....		ID5	4221	143.302	143.812	142.585	143.001	143.811
Construction.....		ID5	423	145.804	145.826	145.907	145.971	146.082
Inputs to stage 4 construction producers.....		ID5	43	163.194	164.257	163.415	163.091	163.530
Goods.....		ID5	431	168.122	169.370	167.492	167.024	167.532
Energy.....		ID5	4312	169.546	177.094	156.699	149.112	146.840
Goods excluding foods and energy.....		ID5	4313	171.831	172.473	172.415	172.653	173.451
Services.....		ID5	432	150.568	151.170	152.904	152.940	153.206
Trade services.....		ID5	4323	168.836	169.110	172.449	172.533	173.859
Transportation and warehousing services.....		ID5	4322	145.294	147.161	147.802	147.700	145.872
Transportation of passengers.....		ID5	43221	141.931	137.326	140.255	139.429	142.369
Transportation and warehousing of goods.....		ID5	43222	146.147	148.179	148.769	148.683	146.731
Services less trade, transportation, and warehousing.....		ID5	4321	131.610	131.984	132.727	132.775	132.938
<b>Stage 3 Intermediate Demand</b>								
Stage 3 intermediate demand.....		ID5	3	146.451	147.367	146.421	145.932	145.295
Inputs to stage 3 goods producers.....		ID5	31	154.378	155.316	154.335	153.264	152.902
Goods.....		ID5	311	149.968	151.243	149.370	147.854	147.394
Foods.....		ID5	3111	164.669	168.911	164.073	159.954	157.774
Energy.....		ID5	3112	141.101	146.445	147.880	143.220	136.554
Goods excluding foods and energy.....		ID5	3113	148.412	148.215	147.340	147.098	147.736
Services.....		ID5	312	160.998	160.577	163.103	163.827	163.867
Trade services.....		ID5	3123	167.068	165.370	169.524	170.889	171.662
Transportation and warehousing services.....		ID5	3122	148.268	149.621	150.173	150.175	148.820
Transportation of passengers.....		ID5	31221	144.970	140.261	143.257	142.411	145.419
Transportation and warehousing of goods.....		ID5	31222	148.241	149.926	150.333	150.383	148.784
Services less trade, transportation, and warehousing.....		ID5	3121	134.770	135.004	135.721	135.687	136.022
Inputs to stage 3 services producers.....		ID5	32	139.428	140.313	139.381	139.310	138.471
Goods.....		ID5	321	134.026	137.278	131.428	128.851	122.231
Foods.....		ID5	3211	157.003	156.210	156.152	157.154	155.756
Energy.....		ID5	3212	139.353	144.600	134.962	130.774	119.945
Goods excluding foods and energy.....		ID5	3213	135.428	135.642	135.663	135.552	135.472
Services.....		ID5	322	140.677	140.950	141.301	141.888	142.560
Trade services.....		ID5	3223	197.675	197.287	199.847	200.407	201.871
Transportation and warehousing services.....		ID5	3222	160.746	161.948	163.047	162.655	163.226
Transportation of passengers.....		ID5	32221	104.553	104.340	104.317	104.342	104.497
Transportation and warehousing of goods.....		ID5	32222	161.239	162.448	163.552	163.158	163.731
Services less trade, transportation, and warehousing.....		ID5	3221	132.239	132.297	132.312	133.171	133.826
Construction.....		ID5	323	145.804	145.826	145.907	145.971	146.082
Inputs to stage 3 construction producers.....		ID5	33	141.073	142.274	142.211	142.036	141.910
Goods.....		ID5	331	134.362	134.643	133.594	133.583	133.542
Goods excluding foods and energy.....		ID5	3313	171.210	171.567	170.231	170.216	170.164
Services.....		ID5	332	167.774	170.233	171.317	170.925	170.683
Trade services.....		ID5	3323	172.704	175.422	176.558	176.124	175.817
Transportation and warehousing services.....		ID5	3322	114.704	115.261	115.924	116.293	116.146
Transportation and warehousing of goods.....		ID5	33222	121.075	121.663	122.362	122.752	122.597
Services less trade, transportation, and warehousing.....		ID5	3321	125.959	125.998	126.541	126.298	126.870
<b>Stage 2 Intermediate Demand</b>								
Stage 2 intermediate demand.....		ID5	2	135.512	137.033	136.629	135.328	133.144
Inputs to stage 2 goods producers.....		ID5	21	124.381	127.369	126.348	123.960	119.910
Goods.....		ID5	211	120.318	124.539	122.798	119.439	113.971
Foods.....		ID5	2111	159.296	161.789	157.459	159.723	155.259
Energy.....		ID5	2112	91.392	97.739	95.343	89.820	81.884
Goods excluding foods and energy.....		ID5	2113	141.958	142.202	142.514	142.125	141.623
Services.....		ID5	212	150.016	149.275	150.505	151.033	151.158
Trade services.....		ID5	2123	168.063	166.125	168.740	169.982	170.011
Transportation and warehousing services.....		ID5	2122	168.261	168.262	168.818	169.009	169.309
Transportation of passengers.....		ID5	21221	136.545	132.306	134.993	134.236	136.944
Transportation and warehousing of goods.....		ID5	21222	170.119	170.327	170.776	171.013	171.196
Services less trade, transportation, and warehousing.....		ID5	2121	136.303	136.080	136.554	136.664	136.751
Construction.....		ID5	213	145.804	145.826	145.907	145.971	146.082

See footnotes at end of table.

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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index <sup>1</sup>				
		Group code	Item code	Aug. 2023	Sept. 2023 <sup>P</sup>	Oct. 2023 <sup>P</sup>	Nov. 2023 <sup>P</sup>	Dec. 2023 <sup>P</sup>
Inputs to stage 2 services producers.....		ID5	22	144.585	144.242	144.615	144.703	144.905
Goods.....		ID5	221	144.769	145.259	144.837	144.433	143.969
Foods.....		ID5	2211	113.193	113.285	112.472	114.318	113.144
Energy.....		ID5	2212	165.390	169.047	156.059	153.699	147.059
Goods excluding foods and energy.....		ID5	2213	144.144	144.431	144.841	144.535	144.486
Services.....		ID5	222	144.115	143.663	144.138	144.287	144.571
Trade services.....		ID5	2223	184.562	182.608	192.076	190.111	192.818
Transportation and warehousing services.....		ID5	2222	139.924	140.581	142.269	141.910	143.515
Transportation of passengers.....		ID5	22221	136.582	132.176	134.978	134.187	137.001
Transportation and warehousing of goods.....		ID5	22222	141.091	142.681	144.161	143.881	145.267
Services less trade, transportation, and warehousing.....		ID5	2221	143.398	142.930	142.900	143.186	143.262
Construction.....		ID5	223	145.804	145.826	145.907	145.971	146.082
<b>Stage 1 Intermediate Demand</b>								
Stage 1 intermediate demand.....		ID5	1	146.091	146.549	145.971	145.864	145.506
Inputs to stage 1 goods producers.....		ID5	11	144.052	143.732	144.248	143.570	143.234
Goods.....		ID5	111	142.312	142.174	141.955	140.738	140.023
Foods.....		ID5	1111	150.057	145.972	143.580	142.255	140.484
Energy.....		ID5	1112	129.533	132.247	131.682	129.021	123.598
Goods excluding foods and energy.....		ID5	1113	147.725	147.567	147.796	146.914	147.495
Services.....		ID5	112	152.722	151.871	154.519	155.376	156.125
Trade services.....		ID5	1123	165.740	163.945	169.140	170.392	171.371
Transportation and warehousing services.....		ID5	1122	159.313	158.456	158.260	158.342	158.712
Transportation of passengers.....		ID5	11221	136.133	131.708	134.523	133.729	136.554
Transportation and warehousing of goods.....		ID5	11222	163.246	163.285	162.344	162.642	162.398
Services less trade, transportation, and warehousing.....		ID5	1121	110.454	110.887	110.418	110.765	111.165
Construction.....		ID5	113	145.804	145.826	145.907	145.971	146.082
Inputs to stage 1 services producers.....		ID5	12	146.142	146.905	145.637	145.879	145.595
Goods.....		ID5	121	148.586	149.816	147.266	146.807	144.520
Foods.....		ID5	1211	131.915	130.764	127.250	127.972	128.036
Energy.....		ID5	1212	164.456	167.857	159.015	157.541	149.697
Goods excluding foods and energy.....		ID5	1213	149.359	149.648	149.936	149.923	150.118
Services.....		ID5	122	144.441	145.003	144.281	144.817	145.377
Trade services.....		ID5	1223	174.947	174.429	177.004	177.949	179.171
Transportation and warehousing services.....		ID5	1222	143.535	142.947	144.201	143.752	144.353
Transportation of passengers.....		ID5	12221	136.052	131.630	134.443	133.649	136.473
Transportation and warehousing of goods.....		ID5	12222	162.823	164.192	164.758	164.442	163.937
Services less trade, transportation, and warehousing.....		ID5	1221	139.890	140.716	139.397	140.026	140.508
Construction.....		ID5	123	145.804	145.826	145.907	145.971	146.082
Inputs to stage 1 construction producers.....		ID5	13	163.132	164.401	163.931	163.791	162.989
Goods.....		ID5	131	165.120	166.090	164.952	164.832	163.828
Energy.....		ID5	1312	153.146	157.297	144.876	140.699	125.986
Goods excluding foods and energy.....		ID5	1313	169.258	169.860	170.065	170.433	171.068
Services.....		ID5	132	159.292	161.303	162.469	162.280	161.968
Trade services.....		ID5	1323	169.189	171.242	172.812	172.586	172.862
Transportation and warehousing services.....		ID5	1322	120.403	122.163	122.337	122.181	120.294
Transportation and warehousing of goods.....		ID5	13222	124.542	126.362	126.542	126.381	124.428
Services less trade, transportation, and warehousing.....		ID5	1321	137.696	139.167	138.905	139.459	140.251
<b>Intermediate Demand by Production Flow Special Groupings</b>								
Total goods inputs to stage 4 intermediate demand.....	04/10	ID5	9411	144.150	144.572	143.785	143.682	143.665
Total services inputs to stage 4 intermediate demand.....	04/10	ID5	9412	149.593	149.884	149.667	150.172	150.812
Total construction inputs to stage 4 intermediate demand.....	04/10	ID5	9413	144.597	144.618	144.698	144.761	144.872
Total foods inputs to stage 4 intermediate demand.....	04/10	ID5	9414	144.122	144.244	142.913	142.488	141.560
Total energy goods inputs to stage 4 intermediate demand.....	04/10	ID5	9415	135.686	138.083	133.417	133.175	131.799
Total goods less foods and energy inputs to stage 4 intermediate demand.....	04/10	ID5	9416	146.498	146.647	146.566	146.533	146.875
Total goods inputs to stage 3 intermediate demand.....	04/10	ID5	9311	138.596	140.277	137.537	135.856	133.924
Total services inputs to stage 3 intermediate demand.....	04/10	ID5	9312	143.202	143.380	144.090	144.685	145.241
Total construction inputs to stage 3 intermediate demand.....	04/10	ID5	9313	144.597	144.618	144.698	144.761	144.872
Total foods inputs to stage 3 intermediate demand.....	04/10	ID5	9314	146.506	150.243	145.973	142.347	140.412
Total energy goods inputs to stage 3 intermediate demand.....	04/10	ID5	9315	136.944	142.105	134.295	130.118	120.114
Total goods less foods and energy inputs to stage 3 intermediate demand.....	04/10	ID5	9316	140.553	140.437	139.727	139.519	140.010
Total goods inputs to stage 2 intermediate demand.....	04/10	ID5	9211	116.938	120.585	119.059	116.155	111.450
Total services inputs to stage 2 intermediate demand.....	04/10	ID5	9212	145.989	145.467	146.122	146.361	146.609
Total construction inputs to stage 2 intermediate demand.....	04/10	ID5	9213	144.597	144.618	144.698	144.761	144.872
Total foods inputs to stage 2 intermediate demand.....	04/10	ID5	9214	159.621	162.091	157.790	160.063	155.622
Total energy goods inputs to stage 2 intermediate demand.....	04/10	ID5	9215	90.308	96.492	94.029	88.656	80.900
Total goods less foods and energy inputs to stage 2 intermediate demand.....	04/10	ID5	9216	134.339	134.579	134.894	134.546	134.172
Total goods inputs to stage 1 intermediate demand.....	04/10	ID5	9111	131.731	132.181	131.156	130.464	129.317

See footnotes at end of table.

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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index <sup>1</sup>				
		Group code	Item code	Aug. 2023	Sept. 2023 <sup>p</sup>	Oct. 2023 <sup>p</sup>	Nov. 2023 <sup>p</sup>	Dec. 2023 <sup>p</sup>
Total services inputs to stage 1 intermediate demand.....	04/10	ID5	9112	146.079	146.490	146.472	147.013	147.546
Total construction inputs to stage 1 intermediate demand.....	04/10	ID5	9117	144.597	144.618	144.698	144.761	144.872
Total foods inputs to stage 1 intermediate demand.....	04/10	ID5	9114	140.697	136.924	134.648	133.450	131.827
Total energy goods inputs to stage 1 intermediate demand.....	04/10	ID5	9115	144.032	147.108	141.539	139.419	132.222
Total goods less foods and energy inputs to stage 1 intermediate demand.....	04/10	ID5	9116	126.560	126.673	126.874	126.577	126.970

<sup>1</sup> 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.

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

<sup>3</sup> Trade indexes measure changes in margins received by wholesalers and retailers.

<sup>4</sup> 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.

<sup>5</sup> Distributive services include transportation, warehousing, and trade of goods.

<sup>6</sup> Includes intermediate trade, transportation, and warehousing services.

<sup>7</sup> Includes crude petroleum.

<sup>8</sup> Excludes crude petroleum.

p Preliminary

“-” Data not available.