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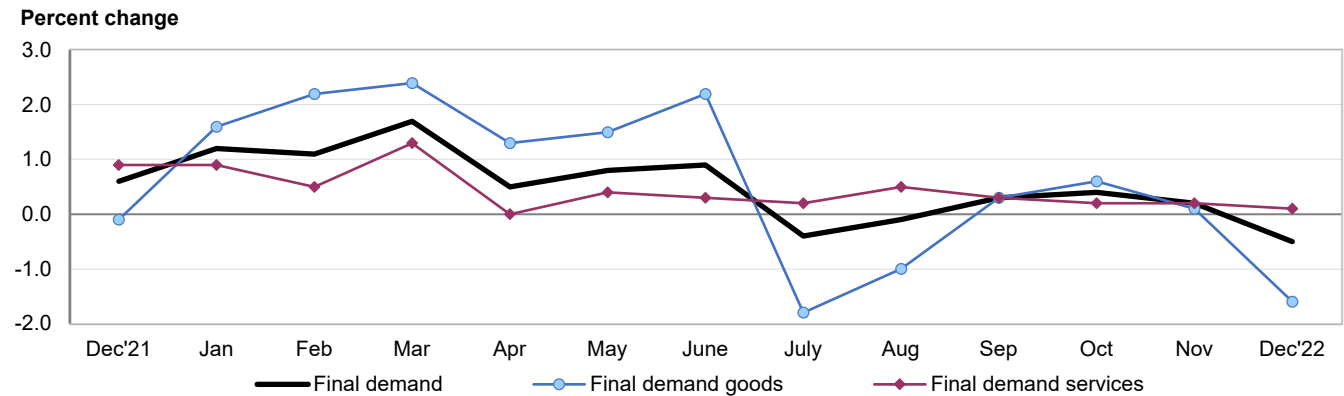
**PRODUCER PRICE INDEXES – DECEMBER 2022**

The Producer Price Index for final demand declined 0.5 percent in December, seasonally adjusted, the U.S. Bureau of Labor Statistics reported today. Final demand prices advanced 0.2 percent in November and 0.4 percent in October. (See table A.) On an unadjusted basis, the index for final demand increased 6.2 percent in 2022 after rising 10.0 percent in 2021.

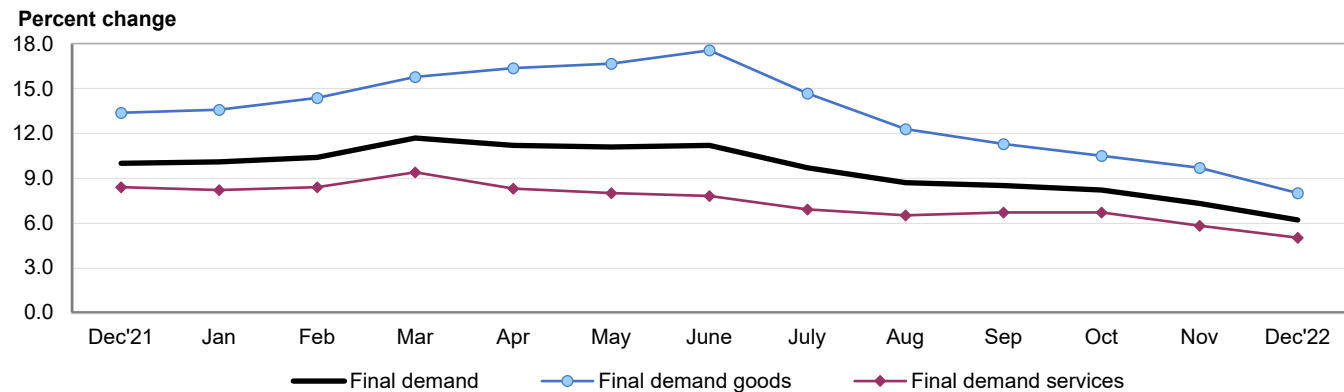
In December, the decrease in the final demand index can be attributed to a 1.6-percent decline in prices for final demand goods. In contrast, the index for final demand services rose 0.1 percent.

Prices for final demand less foods, energy, and trade services edged up 0.1 percent in December after increasing 0.3 percent in November. The index for final demand less foods, energy, and trade services advanced 4.6 percent in 2022 following a 7.0-percent rise in 2021.

**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:** Prices for final demand goods moved down 1.6 percent in December, the largest decrease since falling 1.8 percent in July. Leading the December decline, the index for final demand energy dropped 7.9 percent. Prices for final demand foods decreased 1.2 percent. Conversely, the index for final demand goods less foods and energy advanced 0.2 percent.

*Product detail:* Nearly half of the December decrease in the index for final demand goods can be traced to a 13.4-percent decline in prices for gasoline. The indexes for diesel fuel; jet fuel; fresh and dry vegetables; canned, cooked, smoked, or prepared poultry; and basic organic chemicals also fell. In contrast, prices for carbon steel scrap increased 8.3 percent. The indexes for chicken eggs and for electric power also moved higher. (See table 2.)

**Final demand services:** Prices for final demand services edged up 0.1 percent in December after rising 0.2 percent in November. The December increase can be traced to margins for final demand trade services, which advanced 0.3 percent. (Trade indexes measure changes in margins received by wholesalers and retailers.) Conversely, the index for final demand transportation and warehousing services fell 0.2 percent, while prices for final demand services less trade, transportation, and warehousing were unchanged.

*Product detail:* A major factor in the December increase in prices for final demand services was a 17.6-percent jump in margins for fuels and lubricants retailing. The indexes for deposit services (partial), airline passenger services, inpatient care, and professional and commercial equipment wholesaling also moved higher. In contrast, prices for truck transportation of freight decreased 1.7 percent. The indexes for residential real estate loans (partial), machinery and vehicle wholesaling, and guestroom rental 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>2021</b>												
Dec....	0.6	0.4	-0.1	-0.2	-1.4	0.4	0.9	1.9	1.6	0.3	10.0	7.0
<b>2022</b>												
Jan... ..	1.2	0.8	1.6	1.8	4.1	0.8	0.9	1.3	0.0	0.8	10.1	6.9
Feb... ..	1.1	0.2	2.2	1.9	7.2	0.8	0.5	1.7	2.0	-0.3	10.4	6.7
Mar... ..	1.7	1.0	2.4	2.4	6.6	1.1	1.3	2.3	5.6	0.4	11.7	7.1
Apr....	0.5	0.4	1.3	1.5	1.5	1.1	0.0	0.1	2.1	-0.2	11.2	6.8
May. . .	0.8	0.5	1.5	0.4	4.8	0.7	0.4	0.6	2.5	0.1	11.1	6.8
June... ..	0.9	0.3	2.2	-0.1	8.9	0.5	0.3	0.3	0.8	0.2	11.2	6.4
July....	-0.4	0.2	-1.8	1.2	-9.1	0.1	0.2	0.7	-0.5	0.0	9.7	5.8
Aug. <sup>1</sup> ..	-0.1	0.2	-1.0	-0.1	-5.4	0.2	0.5	1.0	-1.1	0.4	8.7	5.6
Sept. <sup>1</sup> ..	0.3	0.3	0.3	1.5	0.3	0.0	0.3	-0.2	-0.3	0.6	8.5	5.7
Oct. <sup>1</sup> ..	0.4	0.2	0.6	0.7	2.5	0.0	0.2	0.1	0.4	0.2	8.2	5.5
Nov. <sup>1</sup> ..	0.2	0.3	0.1	3.3	-3.2	0.3	0.2	0.0	-0.9	0.4	7.3	4.9
Dec....	-0.5	0.1	-1.6	-1.2	-7.9	0.2	0.1	0.3	-0.2	0.0	6.2	4.6

<sup>1</sup> Some of the figures shown above and elsewhere in this release may differ from those previously reported because data for August 2022 through November 2022 have been revised to reflect the availability of late reports and corrections by respondents.

## **Intermediate Demand by Commodity Type**

Within intermediate demand in December, prices for processed goods decreased 2.8 percent, the index for unprocessed goods rose 3.4 percent, and prices for services increased 0.4 percent. (See tables B and C.)

**Processed goods for intermediate demand:** The index for processed goods for intermediate demand moved down 2.8 percent in December, the largest decline since falling 3.4 percent in April 2020. Over 80 percent of the broad-based decrease in December is attributable to prices for processed energy goods, which dropped 10.9 percent. The indexes for processed materials less foods and energy and for processed foods and feeds also moved down, 0.5 percent and 0.8 percent, respectively. In 2022, prices for processed goods for intermediate demand increased 4.7 percent after jumping 24.4 percent in 2021.

*Product detail:* Nearly two-thirds of the December decline in the index for processed goods for intermediate demand can be traced to a 27.0-percent drop in prices for diesel fuel. The indexes for gasoline; basic organic chemicals; jet fuel; asphalt; and canned, cooked, smoked, or prepared poultry also moved lower. Conversely, prices for electric power advanced 1.0 percent. The indexes for beef and veal and for primary nonferrous metals also increased.

**Unprocessed goods for intermediate demand:** Prices for unprocessed goods for intermediate demand rose 3.4 percent in December following three consecutive declines. Leading the increase, the index for unprocessed energy materials advanced 9.5 percent. Prices for unprocessed nonfood materials less energy moved up 0.6 percent. In contrast, the index for unprocessed foodstuffs and feedstuffs fell 1.5 percent. In 2022, prices for unprocessed goods for intermediate demand moved up 11.7 percent following a 40.0-percent jump in 2021.

*Product detail:* A major factor in the increase in prices for unprocessed goods for intermediate demand was the index for natural gas, which surged 45.3 percent. Prices for ungraded chicken eggs, carbon steel scrap, hay and hayseeds, slaughter turkeys, and aluminum base scrap also moved up. Conversely, the index for grains declined 5.9 percent. Prices for crude petroleum and for raw cotton also decreased.

**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>2021</b>										
Dec.....	-0.1	0.1	-2.7	0.6	24.4	-4.8	3.8	-12.1	-1.8	40.0
<b>2022</b>										
Jan.....	2.2	2.6	4.7	1.5	24.8	3.1	2.9	4.2	1.1	36.4
Feb.....	1.5	2.1	5.8	0.4	23.3	9.8	5.4	18.2	1.5	33.5
Mar.....	2.3	2.1	7.3	0.9	22.1	2.9	7.7	-4.3	9.7	43.3
Apr.....	2.0	3.2	4.4	1.2	22.0	5.5	4.2	9.3	1.3	50.1
May.....	2.3	1.1	4.5	1.8	21.6	5.4	0.2	14.6	-4.2	46.4
June.....	2.0	0.0	8.8	0.1	21.9	4.8	-0.4	11.1	-2.0	50.3
July.....	-2.3	0.3	-8.8	-0.4	17.2	-9.3	-1.9	-14.3	-7.2	32.5
Aug. <sup>1</sup> .....	-1.4	-0.1	-4.4	-0.6	14.3	4.6	-1.6	10.9	0.4	36.9
Sept. <sup>1</sup> ....	-0.1	-0.2	2.0	-0.8	12.9	-3.0	1.1	-6.6	0.0	29.1
Oct. <sup>1</sup> .....	-0.1	-0.1	1.9	-0.7	10.2	-10.2	-1.5	-18.3	-5.1	9.1
Nov. <sup>1</sup> ....	-0.8	0.7	-3.2	-0.2	7.7	-3.7	-0.1	-8.0	-0.9	2.8
Dec.....	-2.8	-0.8	-10.9	-0.5	4.7	3.4	-1.5	9.5	0.6	11.7

<sup>1</sup> Some of the figures shown above and elsewhere in this release may differ from those previously reported because data for August 2022 through November 2022 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 rose 0.4 percent in December, the sixth consecutive increase. Over 70 percent of the December advance can be attributed to prices for services less trade, transportation, and warehousing for intermediate demand, which moved up 0.5 percent. The index for trade services for intermediate demand increased 0.6 percent. In contrast, prices for transportation and warehousing services for intermediate demand fell 0.1 percent. In 2022, the index for services for intermediate demand rose 6.4 percent following an 8.3-percent advance in 2021.

*Product detail:* Over 40 percent of the December rise in the index for services for intermediate demand can be traced to a 16.4-percent increase in prices for deposit services (partial). The indexes for fuels and lubricants retailing, business loans (partial), gross rents for retail properties, paper and plastics products wholesaling, and airline passenger services also advanced. Conversely, prices for truck transportation of freight fell 1.7 percent. The indexes for investment banking and for chemicals and allied products wholesaling also decreased.

**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>2021</b>					
Dec.....	0.8	1.5	1.6	0.5	8.3
<b>2022</b>					
Jan.....	0.8	1.4	0.6	0.6	7.9
Feb.....	0.2	1.4	0.4	-0.2	7.8
Mar.....	1.3	4.4	2.1	0.0	8.4
Apr.....	0.9	1.0	1.7	0.6	8.0
May.....	0.5	0.6	0.6	0.4	7.9
June.....	-0.3	-0.7	0.1	-0.3	6.3
July.....	0.3	0.0	1.0	0.2	5.9
Aug. <sup>1</sup> .....	0.6	-1.1	-0.4	1.4	6.0
Sept. <sup>1</sup> .....	0.4	-0.1	-0.7	0.9	6.1
Oct. <sup>1</sup> .....	0.4	0.1	0.7	0.5	6.6
Nov. <sup>1</sup> .....	0.8	1.3	-1.3	1.1	6.9
Dec.....	0.4	0.6	-0.1	0.5	6.4

<sup>1</sup> Some of the figures shown above and elsewhere in this release may differ from those previously reported because data for August 2022 through November 2022 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 declined 0.3 percent in December following four consecutive increases. In December, the index for total goods inputs to stage 4 intermediate demand fell 0.9 percent. In contrast, prices for total services inputs rose 0.3 percent. (See table D.) Decreases in the indexes for diesel fuel; gasoline; grains; strawberries; canned, cooked, smoked, or prepared poultry; and portfolio management outweighed increases in prices for deposit services (partial), gross rents for retail properties, and electric power. In 2022, the index for stage 4 intermediate demand moved up 6.0 percent after rising 12.6 percent in 2021.

**Stage 3 intermediate demand:** The index for stage 3 intermediate demand declined 2.1 percent in December, the largest decrease since dropping 5.4 percent in April 2020. In December, prices for total goods inputs to stage 3 intermediate demand fell 4.5 percent. Conversely, the index for total services inputs rose 0.3 percent. Decreases in prices for diesel fuel, jet fuel, slaughter chickens, grains, raw milk, and truck transportation of freight outweighed advances in the indexes for deposit services (partial), ungraded chicken eggs, and hay and hayseeds. In 2022, prices for stage 3 intermediate demand increased 4.9 percent after jumping 20.8 percent in 2021.

**Stage 2 intermediate demand:** Prices for stage 2 intermediate demand advanced 2.2 percent in December following three consecutive declines. In December, the index for total goods inputs to stage 2 intermediate demand rose 3.5 percent, and prices for total services inputs increased 1.1 percent. Advances in the indexes for natural gas, deposit services (partial), fuels and lubricants retailing, business loans (partial), carbon steel scrap, and aluminum base scrap outweighed declines in prices for crude petroleum, basic organic chemicals, and guestroom rental. In 2022, the index for stage 2 intermediate demand rose 8.7 percent after jumping 21.6 percent in 2021.

**Stage 1 intermediate demand:** The index for stage 1 intermediate demand declined 1.7 percent in December, the largest decrease since falling 1.9 percent in July. In December, prices for total goods inputs to stage 1 intermediate demand dropped 3.2 percent. The index for total services inputs was unchanged. Decreases in prices for diesel fuel, basic organic chemicals, gasoline, grains, guestroom rental, and investment banking outweighed increases in the indexes for gross rents for retail properties, fuels and lubricants retailing, and carbon steel scrap. In 2022, prices for stage 1 intermediate demand advanced 5.5 percent following a 17.8-percent rise in 2021.

**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>2021</b>												
Dec.....	0.7	0.5	0.8	0.8	0.7	0.9	-2.2	-5.6	1.2	0.4	0.0	0.8
<b>2022</b>												
Jan.....	1.5	2.1	1.0	1.6	2.6	0.7	1.4	2.7	0.1	1.4	1.8	1.0
Feb.....	0.6	1.2	0.0	1.4	2.6	0.1	4.3	8.4	0.3	1.0	1.6	0.2
Mar.....	1.2	1.6	0.8	3.1	4.5	1.6	0.8	0.3	1.3	2.8	3.3	2.2
Apr.....	1.0	1.2	0.7	2.5	3.7	1.3	2.8	4.7	0.7	1.7	2.4	0.9
May.....	0.9	1.4	0.4	1.7	2.6	0.6	3.6	6.8	0.3	1.5	2.3	0.7
June.....	0.4	1.1	-0.3	0.5	1.4	-0.5	2.9	5.4	0.0	1.0	2.4	-0.6
July.....	-0.4	-0.9	0.0	-1.4	-3.0	0.4	-4.2	-8.4	1.0	-1.9	-3.2	-0.5
Aug. <sup>1</sup> .....	0.3	0.0	0.6	-1.6	-3.1	0.1	3.1	4.7	1.3	-0.6	-1.4	0.4
Sept. <sup>1</sup> .....	0.4	0.1	0.6	-0.1	-0.2	0.0	-1.8	-3.9	0.5	0.3	0.4	0.2
Oct. <sup>1</sup> .....	0.1	-0.1	0.2	-0.1	-0.6	0.5	-4.7	-9.9	0.8	0.1	-0.2	0.4
Nov. <sup>1</sup> .....	0.4	-0.3	1.0	-0.5	-1.4	0.4	-1.3	-3.3	0.6	-0.1	-1.1	0.9
Dec.....	-0.3	-0.9	0.3	-2.1	-4.5	0.3	2.2	3.5	1.1	-1.7	-3.2	0.0

<sup>1</sup> Some of the figures shown above and elsewhere in this release may differ from those previously reported because data for August 2022 through November 2022 have been revised to reflect the availability of late reports and corrections by respondents.

**The Producer Price Index for January 2023 is scheduled to be released on Thursday, February 16, 2023, at 8:30 a.m. (ET).**

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## **Recalculated Seasonal Adjustment Factors and Relative Importance Figures to be Available on February 14, 2023**

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, 2023 (2 workdays prior to the release of PPI data for January 2023 on February 16, 2023):

- Direct seasonal factors for PPI commodity indexes for the year 2023,
- Recalculated seasonal factors for the last 5 years (2018-2022) for PPI commodity indexes,
- Recalculated seasonal factors for the last 5 years (2018-2022) for PPI Final Demand-Intermediate Demand indexes,
- Recalculated seasonal index data for the last 5 years (2018-2022) 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 tables, which include values for December 2022, will be available on February 14, 2023:

- 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.

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## **PPI Weights to be Updated to Reflect 2017 Census Shipment Values**

With the release of January 2023 Producer Price Index (PPI) data on February 16, 2023, the Bureau of Labor Statistics will update PPI value weights to more accurately reflect recent production and marketing patterns. The updated weights will be constructed using 2017 value of shipments data from the Census of Manufactures, the Census of Mining, the Census of Services, and the Census of Agriculture. These data were collected in accordance with the North American Product Classification System (NAPCS). From January 2018 through December 2022, PPI weights have been based on 2012 North American Industry Classification System (NAICS) shipment values.

All PPIs will be affected by this weight update, including all industry net output indexes, as well as indexes for traditional commodity groupings. In addition, weights will be updated from the 2012 to the 2017 Economic Census for all Final Demand-Intermediate Demand (FD-ID) indexes, special commodity-grouping indexes, and inputs to industry indexes. This weight revision will not result in changes to the reference base for indexes, the dates when PPIs are set to 100.

It is important to note that the basic structures of the PPI commodity and FD-ID classification systems will not change as a result of the weight revision. However, PPIs classified according to the NAICS will be updated to reflect 2022 NAICS definitions established by the U.S. Census Bureau. The weight update also will result in shifting relative importance values. These shifts will impact aggregate indexes in a manner commensurate with the relative gains and losses in value weights from 2012 to 2017.

In addition, PPI sample updates normally occurring with the release of October 2022 and February 2023 data will be combined and released in conjunction with the release of January 2023 PPI data in February 2023.

Commodity and FD-ID relative importance figures for December 2022 will be released on February 14, 2023, two business days prior to the release of January 2023 PPI data. This information will be available on the PPI website at [www.bls.gov/ppi/tables/](http://www.bls.gov/ppi/tables/). Following the January 2023 PPI data release, a concordance between Census product codes and PPI commodity codes will be available upon request 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 2022, the PPI covered 71 percent of services as measured by 2012 Census revenue, and 31 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 2021, final demand goods were about 33 percent of overall final demand, final demand services were roughly 65.1 percent, and final demand construction was about 1.7 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 and the *PPI Detailed Report* that announces their introduction

Title	Code	<i>PPI Detailed Report Issue</i>
	<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
Candy, nut, and confectionery stores ...	5441	July 2000
Retail bakeries .....	5461	July 2000

Title	Code	PPI Detailed Report Issue
<b>SIC</b>		
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 2012 values of shipments as reported in the *Census of Manufactures* and other sources. From January 2012 to December 2017, PPI weights were derived from 2007 shipment values. Industry indexes now are calculated under the 2017 NAICS structure utilizing 2012 value of shipment weights and 2007 net output ratios. The periodic update of the value weights used to calculate the PPI is done to more accurately reflect changes in production and marketing patterns in the economy.

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

## Price Index Reference Base

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

series. (See “Calculating Index Changes,” below.) The 1982 reference base is not used for commodity indexes with a base later than December 1981 or for industry net output indexes and their products. The FD-ID indexes typically have a reference base of November 2009 = 100.

For further information on the underlying concepts and methodology of the Producer Price Index, see chapter 14, “Producer Prices,” in the *BLS Handbook of Methods*. This chapter can be downloaded from the BLS Web site at [www.bls.gov/opub/hom/homch14.htm](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
Equals percent change	3.4

## Seasonally Adjusted and Unadjusted Data

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

specialists, and commodity traders. It is the unadjusted data that are generally cited when escalating long-term contracts such as purchasing agreements or real estate leases. For more information, see *Price Adjustment Guide for Contracting Parties*, on the Web at: [www.bls.gov/ppi/publications/price-adjustment-guide-for-contracting-parties.htm](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 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, 76 were subject to intervention in 2022.

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 9 million instances of PPI data being downloaded from the BLS website during 2021.

## 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.)

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

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

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

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

- **Text Files** are best suited for users requiring access to either a large volume of time series data or other PPI-related documentation, such as seasonal factor tables and relative importance tables. The text files can be accessed at [download.bls.gov/](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="http://pub.time.series/pc">/pub/time.series/pc</a>
Industry Data - Discontinued (NAICS basis)	<a href="http://pub.time.series/nd">/pub/time.series/nd</a>
(SIC basis)	<a href="http://pub.time.series/pd">/pub/time.series/pd</a>
Commodity Data (incl. FD-ID)	<a href="http://pub.time.series/wp">/pub/time.series/wp</a>
Commodity Data – Discontinued	<a href="http://pub.time.series/wd">/pub/time.series/wd</a>
Special requests	<a href="http://pub.special.requests/ppi">/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 2022]

Grouping	Commodity code		Relative Importance Dec. 2021 <sup>1</sup>	Unadjusted 12-month percent change <sup>2</sup> Dec. 2021 to Dec. 2022 <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	6.2	-0.1	0.3	0.4	0.2	-0.5
Final demand goods.....	FD	41	33.128	8.0	-1.0	0.3	0.6	0.1	-1.6
Final demand foods.....	FD	411	5.743	14.3	-0.1	1.5	0.7	3.3	-1.2
Finished consumer foods <sup>3</sup> .....	FD	4111	4.425	15.3	-0.4	1.4	1.3	3.7	-1.0
Finished consumer foods, crude.....	FD	41113	0.460	64.9	-7.2	11.4	15.6	21.0	-1.7
Finished consumer foods, processed.....	FD	41112	3.965	9.5	0.5	0.2	-0.5	1.2	-0.9
Government purchased foods.....	FD	4112	0.407	9.9	0.0	0.2	0.2	1.2	-0.3
Foods for export.....	FD	4113	0.911	11.7	1.3	2.7	-1.9	2.4	-2.3
Final demand energy.....	FD	412	5.972	9.1	-5.4	0.3	2.5	-3.2	-7.9
Finished consumer energy goods <sup>3</sup> .....	FD	4121	4.773	6.3	-5.0	-0.2	2.8	-3.2	-6.3
Government purchased energy.....	FD	4122	0.834	18.4	-6.6	2.8	2.9	-3.4	-13.6
Energy for export.....	FD	4123	0.365	23.7	-6.8	0.9	-0.9	-2.6	-12.6
Final demand goods less foods and energy.....	FD	413	21.412	6.0	0.2	0.0	0.0	0.3	0.2
Finished goods less foods and energy <sup>3</sup> .....	FD	4131	12.084	7.8	0.5	0.3	0.3	0.5	0.3
Finished consumer goods less foods and energy.....	FD	41311	6.448	7.3	0.5	0.3	0.2	0.6	0.3
Nondurable consumer goods less foods and energy.....	FD	413111	4.061	7.7	0.6	0.3	0.3	0.8	0.2
Durable consumer goods.....	FD	413112	2.387	6.6	0.3	0.1	0.0	0.2	0.4
Private capital equipment.....	FD	41312	5.636	8.3	0.5	0.3	0.3	0.3	0.4
Private capital equipment for manufacturing industries.....	FD	413121	1.256	10.2	0.5	0.4	0.3	0.5	0.4
Private capital equipment for nonmanufacturing industries.....	FD	413122	4.380	7.7	0.5	0.3	0.4	0.3	0.4
Government purchased goods, excluding foods and energy.....	FD	4132	2.255	6.7	0.1	-0.1	0.0	0.2	0.1
Government purchased goods excluding foods, energy, and capital equipment.....	FD	41321	1.338	8.2	0.0	-0.1	-0.1	0.2	-0.1
Government purchased capital equipment.....	FD	41322	0.917	4.5	0.2	-0.1	0.1	0.2	0.3
Goods for export, excluding foods and energy.....	FD	4133	7.073	2.8	-0.3	-0.5	-0.6	0.0	0.1
Final demand services.....	FD	42	65.132	5.0	0.5	0.3	0.2	0.2	0.1
Final demand trade services <sup>4</sup> .....	FD	423	20.434	8.7	1.0	-0.2	0.1	0.0	0.3
Trade of finished goods <sup>3</sup> .....	FD	4231	17.549	8.5	1.3	-0.3	0.2	-0.2	0.4
Trade of personal consumption goods.....	FD	42311	14.295	8.4	1.5	-0.5	0.4	-0.6	0.6
Trade of private capital equipment.....	FD	42312	3.254	8.8	0.1	0.8	-1.0	1.2	-0.7
Trade of government purchased goods.....	FD	4232	0.761	11.6	-0.3	0.8	-0.3	1.5	-0.2
Trade of government purchased goods, excluding capital equipment.....	FD	42321	0.474	11.7	-0.5	0.5	-0.2	1.2	0.1
Trade of government purchased capital equipment.....	FD	42322	0.287	11.3	0.2	1.2	-0.6	2.0	-0.7
Trade of exports.....	FD	4233	2.124	9.4	-0.4	0.6	-0.3	1.7	-0.2
Final demand transportation and warehousing services.....	FD	422	4.396	10.8	-1.1	-0.3	0.4	-0.9	-0.2
Transportation of passengers for final demand.....	FD	4221	1.113	17.1	0.5	-0.3	3.0	-5.1	3.0
Transportation of private passengers.....	FD	42211	0.752	17.1	0.5	-0.3	3.0	-5.1	3.0
Transportation of government passengers.....	FD	42212	0.090	16.9	0.5	-0.3	2.9	-5.1	3.0
Transportation of passengers for export.....	FD	42213	0.271	17.3	0.5	-0.3	3.0	-5.2	3.1
Transportation and warehousing of goods for final demand.....	FD	4222	3.283	8.6	-1.7	-0.3	-0.5	0.7	-1.3
Transportation and warehousing of finished goods <sup>3</sup> .....	FD	42221	2.160	8.5	-1.8	-0.4	-0.5	0.7	-1.3
Transportation and warehousing of personal consumption goods.....	FD	422211	1.734	8.5	-1.7	-0.3	-0.5	0.7	-1.3
Transportation and warehousing of private capital equipment.....	FD	422212	0.426	8.7	-1.9	-0.4	-0.6	0.7	-1.4
Transportation and warehousing of government purchased goods.....	FD	42222	0.198	8.3	-1.6	0.0	-0.4	0.6	-1.1
Transportation and warehousing of exports.....	FD	42223	0.925	8.9	-1.5	-0.2	-0.5	0.7	-1.2
Final demand services less trade, transportation, and warehousing.....	FD	421	40.301	2.5	0.4	0.6	0.2	0.4	0.0
Finished services less trade, transportation, and warehousing <sup>3</sup> .....	FD	4211	35.337	2.5	0.3	0.6	0.2	0.4	0.0
Finished consumer services less trade, transportation, and warehousing.....	FD	42111	31.663	2.1	0.3	0.5	0.2	0.4	0.0
Private capital investment services less trade, transportation, and warehousing.....	FD	42112	3.674	6.0	0.5	0.9	-0.2	-0.2	0.1
Government purchased services less trade, transportation, and warehousing.....	FD	4212	2.482	1.8	0.7	0.4	0.1	0.2	0.2
Gov. purchased services less trade, transportation, and warehousing, excl. capital investment.....	FD	42121	2.376	1.9	0.8	0.4	0.1	0.3	0.2
Government purchased capital investment services less trade, transportation, and warehousing.....	FD	42122	0.106	-0.7	-0.5	0.6	-0.5	-0.8	0.3
Services for export less trade, transportation, and warehousing.....	FD	4213	2.482	3.4	1.4	0.8	0.3	1.5	0.4
Final demand construction.....	FD	43	1.740	18.5	0.2	0.2	2.7	0.1	0.0
Construction for private capital investment.....	FD	431	1.133	19.9	0.2	0.2	2.7	0.1	0.1
Construction for government.....	FD	432	0.606	16.1	0.1	0.3	2.6	0.0	0.0
<b>Special Groupings of Final Demand</b>									
Final demand less exports.....	FD	49101	85.849	6.3	0.0	0.3	0.5	0.1	-0.5
Final demand less government.....	FD	49102	92.367	6.1	0.0	0.3	0.4	0.2	-0.4

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 2022]

Grouping	Commodity code		Relative Importance Dec. 2021 <sup>1</sup>	Unadjusted 12-month percent change <sup>2</sup> Dec. 2021 to Dec. 2022 <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	87.780	5.6	0.4	0.2	0.2	0.2	0.1
Final demand less foods and energy <sup>5</sup> .....	FD	49104	88.285	5.5	0.4	0.2	0.2	0.2	0.1
Final demand less foods and food and nonalcoholic beverages for immediate consumption <sup>5</sup> .....	FD	49105	93.752	5.8	-0.1	0.2	0.4	0.0	-0.5
Final demand less foods <sup>5</sup> .....	FD	49106	94.257	5.8	0.0	0.2	0.4	0.0	-0.5
Final demand less energy.....	FD	49107	94.028	6.1	0.4	0.3	0.2	0.4	0.0
Final demand less trade services.....	FD	49108	79.566	5.6	-0.3	0.4	0.4	0.2	-0.7
Final demand less distributive services <sup>6</sup> .....	FD	49109	76.283	5.5	-0.3	0.4	0.5	0.2	-0.7
Final demand goods less energy.....	FD	49111	27.155	7.8	0.1	0.3	0.1	1.0	-0.1
Final demand goods less foods.....	FD	49112	27.384	6.7	-1.2	0.1	0.6	-0.6	-1.8
Final demand services less trade services.....	FD	49113	44.697	3.4	0.2	0.5	0.2	0.3	0.0
Final demand distributive services <sup>6</sup> .....	FD	49114	23.717	8.7	0.6	-0.2	0.0	0.1	0.1
Final demand goods plus final demand distributive services <sup>6</sup> .....	FD	49115	56.844	8.3	-0.3	0.1	0.4	0.1	-0.9
Final demand less foods, energy, and trade services <sup>5</sup> .....	FD	49116	67.851	4.6	0.2	0.3	0.2	0.3	0.1
Private and government purchased capital equipment.....	FD	49117	6.553	7.7	0.5	0.3	0.3	0.3	0.4
Private and government purchased capital investment services.....	FD	49118	7.747	7.4	0.2	0.8	-0.6	0.5	-0.3
Total private and government purchased capital investment.....	FD	49119	14.300	8.7	0.3	0.5	0.2	0.4	0.0
Total finished <sup>3</sup> .....	FD	49201	78.213	6.2	0.1	0.3	0.5	0.1	-0.4
Total finished less foods, food and nonalcoholic beverages for immediate consumption, and energy <sup>3, 5</sup> .....	FD	49202	68.515	5.7	0.5	0.3	0.3	0.2	0.2
Total finished less foods and energy <sup>3, 5</sup> .....	FD	49203	69.015	5.6	0.5	0.3	0.3	0.2	0.1
Total finished less foods and food and nonalcoholic beverages for immediate consumption <sup>3, 5</sup> .....	FD	49204	73.288	5.8	0.1	0.2	0.4	-0.1	-0.3
Total finished less foods <sup>3, 5</sup> .....	FD	49205	73.788	5.6	0.1	0.2	0.4	-0.1	-0.3
Total finished less energy <sup>3</sup> .....	FD	49206	73.440	6.2	0.5	0.3	0.3	0.4	0.1
Finished goods <sup>3</sup> .....	FD	49207	21.282	9.0	-1.1	0.4	1.1	0.2	-1.5
Finished goods less energy <sup>3</sup> .....	FD	49208	16.509	9.8	0.3	0.6	0.6	1.4	-0.1
Finished goods, excluding foods <sup>3, 5</sup> .....	FD	49209	16.857	7.3	-1.3	0.1	1.0	-0.7	-1.7
Finished services <sup>3</sup> .....	FD	49210	55.798	4.8	0.5	0.2	0.2	0.1	0.1
Private capital investment services.....	FD	49211	7.354	7.4	0.2	0.7	-0.6	0.5	-0.3
Finished distributive services <sup>3, 6</sup> .....	FD	49212	19.709	8.5	0.9	-0.3	0.1	-0.1	0.2
Finished services less trade services <sup>3</sup> .....	FD	49213	38.249	3.2	0.2	0.5	0.2	0.3	0.0
Finished services less distributive services <sup>3, 6</sup> .....	FD	49214	36.089	2.8	0.3	0.6	0.3	0.2	0.1
Total private capital investment (goods, services, and construction).....	FD	49215	14.123	8.7	0.3	0.5	0.1	0.4	0.0
Finished goods plus finished distributive services <sup>3, 6</sup> .....	FD	49216	40.991	8.7	-0.1	0.1	0.6	0.1	-0.7
Total exports.....	FD	49301	14.151	5.7	-0.2	0.2	-0.4	0.5	-0.5
Goods for export.....	FD	49302	8.349	4.7	-0.5	0.0	-0.7	0.1	-0.9
Services for export.....	FD	49303	5.802	7.1	0.2	0.5	0.1	1.1	0.0
Total government purchases.....	FD	49401	7.633	8.0	-0.8	0.6	0.6	-0.2	-1.8
Government purchased goods.....	FD	49402	3.496	9.9	-1.9	0.8	0.8	-0.8	-3.9
Government purchased services.....	FD	49403	3.531	4.7	0.3	0.5	0.0	0.4	0.1
Total government purchased capital investment (goods, services, construction).....	FD	49404	1.916	8.9	0.2	0.3	0.8	0.4	0.1
Government purchases, defense.....	FD	49405	2.357	6.9	-1.4	0.5	0.4	-0.2	-2.4
Government purchases, non-defense.....	FD	49406	5.276	8.4	-0.6	0.6	0.7	-0.2	-1.7
Personal consumption.....	FD	49501	64.090	5.6	0.0	0.2	0.6	0.1	-0.4
Personal consumption goods (finished consumer goods).....	FD	49502	15.646	9.2	-1.6	0.4	1.3	0.2	-2.2
Personal consumption goods less energy.....	FD	49503	10.873	10.5	0.2	0.7	0.7	1.9	-0.3
Personal consumption goods less foods.....	FD	49504	11.221	6.9	-2.1	0.1	1.3	-1.2	-2.7
Personal consumption nondurable goods less foods.....	FD	49508	8.834	7.0	-2.7	0.0	1.7	-1.5	-3.5
Personal consumption services.....	FD	49505	48.444	4.4	0.6	0.2	0.3	0.0	0.2
Personal consumption less trade services.....	FD	49506	49.795	4.8	-0.4	0.5	0.6	0.3	-0.7
Personal consumption less distributive services <sup>6</sup> .....	FD	49507	48.061	4.7	-0.4	0.5	0.7	0.2	-0.7
Personal consumption less foods and energy.....	FD	49510	54.892	4.8	0.6	0.2	0.3	0.1	0.2
Personal consumption less foods, energy, and trade services <sup>4</sup> .....	FD	49511	40.597	3.5	0.2	0.4	0.3	0.3	0.0
Personal consumption less foods, energy, and distributive services <sup>6</sup> .....	FD	49512	38.863	3.3	0.3	0.5	0.3	0.3	0.1
Personal consumption goods plus personal consumption distributive services <sup>6</sup> .....	FD	49509	31.675	8.8	-0.2	0.0	0.8	-0.1	-0.9
<b>Intermediate Demand by Commodity Type</b>									
<b>Processed goods</b>									
Processed goods for intermediate demand.....	ID6	1	100.000	4.7	-1.4	-0.1	-0.1	-0.8	-2.8
Materials and components for manufacturing.....	ID6	11	45.927	-0.5	-1.4	-1.2	-1.1	-0.2	-0.8
Materials for manufacturing.....	ID6	111	30.390	-3.9	-2.3	-2.0	-1.6	-0.4	-1.3
Materials for food manufacturing.....	ID6	1111	4.084	11.4	-0.9	-0.7	0.5	0.9	-0.6
Materials for nondurable manufacturing.....	ID6	1112	13.045	0.5	-2.7	-1.1	-1.2	-0.5	-1.9
Materials for durable manufacturing.....	ID6	1113	13.261	-12.9	-2.3	-3.4	-2.9	-0.7	-1.0
Components for manufacturing.....	ID6	112	15.537	6.3	0.3	0.1	0.0	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 2022]

Grouping	Commodity code		Relative Importance Dec. 2021 <sup>1</sup>	Unadjusted 12-month percent change <sup>2</sup> Dec. 2021 to Dec. 2022 <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	0.800	7.3	0.8	-0.3	-0.2	0.1	0.1
Components for durable manufacturing.....	ID6	1122	14.737	6.2	0.3	0.2	0.0	0.1	0.1
Materials and components for construction.....	ID6	12	9.074	7.6	0.4	-0.4	-0.3	-0.3	-0.3
Materials for construction.....	ID6	121	3.869	6.4	0.5	-0.5	-0.5	-0.2	-0.5
Components for construction.....	ID6	122	5.205	8.6	0.3	-0.2	-0.2	-0.3	-0.2
Processed fuels and lubricants for intermediate demand.....	ID6	13	18.757	10.4	-4.4	2.0	1.9	-3.2	-10.9
Processed fuels and lubricants to manufacturing industries.....	ID6	131	4.683	12.9	-2.2	1.5	1.0	-3.3	-7.5
Processed fuels and lubricants to nonmanufacturing industries.....	ID6	132	14.074	9.6	-5.1	2.1	2.2	-3.2	-12.1
Containers for intermediate demand.....	ID6	14	2.795	13.2	1.3	0.3	0.0	0.2	0.1
Supplies for intermediate demand.....	ID6	15	23.448	8.3	0.4	0.0	-0.2	0.2	-0.2
Supplies to manufacturing industries.....	ID6	151	3.227	6.6	0.6	0.1	-0.5	0.0	0.2
Supplies to nonmanufacturing industries.....	ID6	152	20.221	8.5	0.3	0.0	-0.1	0.2	-0.2
Supplies to nonmanufacturing industries, feeds.....	ID6	1521	1.743	13.9	1.6	1.2	-1.4	-0.1	-1.4
Supplies to nonmanufacturing industries, other than feeds.....	ID6	1522	18.478	8.0	0.2	-0.1	0.0	0.3	-0.1
<b>Unprocessed goods</b>									
Unprocessed goods for intermediate demand.....	ID6	2	100.000	11.7	4.6	-3.0	-10.2	-3.7	3.4
Unprocessed foodstuffs and feedstuffs.....	ID6	21	32.603	15.1	-1.6	1.1	-1.5	-0.1	-1.5
Unprocessed nonfood materials.....	ID6	22	67.398	10.1	7.5	-4.8	-14.1	-5.6	6.0
Unprocessed nonfood materials except fuel.....	ID6	221	44.822	-1.0	-2.8	-3.2	-1.4	-1.7	-7.0
Unprocessed nonfood materials except fuel to manufacturing industries.....	ID6	2211	42.852	-1.6	-3.0	-3.3	-1.5	-1.8	-7.3
Unprocessed nonfood materials except fuel to nonmanufacturing industries.....	ID6	2212	1.970	11.6	0.8	0.4	0.3	0.3	0.2
Unprocessed fuel.....	ID6	222	22.576	32.1	24.3	-6.8	-31.0	-12.9	33.9
Unprocessed fuel to manufacturing industries.....	ID6	2221	1.143	44.0	6.4	-1.9	-11.7	-4.9	4.0
Unprocessed fuel to nonmanufacturing industries.....	ID6	2222	21.433	31.4	25.3	-7.1	-32.0	-13.5	36.2
<b>Services</b>									
Services for intermediate demand.....	ID6	3	100.000	6.4	0.6	0.4	0.4	0.8	0.4
Trade services for intermediate demand <sup>4</sup> .....	ID6	33	22.377	9.1	-1.1	-0.1	0.1	1.3	0.6
Trade services for manufacturing industries.....	ID6	331	11.472	7.5	-1.3	0.1	0.0	1.3	0.3
Trade services for nonmanufacturing industries.....	ID6	332	10.905	10.8	-0.9	-0.3	0.1	1.2	0.9
Transportation and warehousing services for intermediate demand.....	ID6	32	13.264	4.6	-0.4	-0.7	0.7	-1.3	-0.1
Transportation of passengers for intermediate demand.....	ID6	321	0.984	16.9	0.5	-0.3	2.9	-5.1	3.0
Transportation of passengers for manufacturing industries.....	ID6	3211	0.116	17.3	0.5	-0.3	3.0	-5.2	3.1
Transportation of passengers for nonmanufacturing industries.....	ID6	3212	0.868	16.9	0.5	-0.3	2.9	-5.1	3.0
Transportation and warehousing of goods for intermediate demand.....	ID6	322	12.280	3.6	-0.4	-0.8	0.4	-0.9	-0.4
Transportation and warehousing of goods for manufacturing industries.....	ID6	3221	2.498	9.4	-1.1	0.2	-0.5	0.6	-0.9
Transportation and warehousing of goods for nonmanufacturing industries.....	ID6	3222	9.782	2.1	-0.3	-1.1	0.7	-1.3	-0.3
Services less trade, transportation, and warehousing for intermediate demand.....	ID6	31	64.359	5.8	1.4	0.9	0.5	1.1	0.5
Services less trade, transportation, and warehousing for manufacturing industries.....	ID6	311	2.040	4.9	0.4	0.2	0.2	0.2	0.0
Services less trade, transportation, and warehousing for nonmanufacturing industries.....	ID6	312	62.318	5.8	1.4	0.9	0.5	1.1	0.5
<b>Construction</b>									
Construction for intermediate demand.....	ID6	4	100.000	7.7	0.1	0.3	0.6	0.0	0.1
<b>Special Groupings of Intermediate Demand by Commodity Type</b>									
Processed materials less foods and feeds.....	ID6	9111	92.100	4.2	-1.5	-0.1	-0.1	-0.9	-3.0
Processed foods and feeds.....	ID6	9112	7.900	11.3	-0.1	-0.2	-0.1	0.7	-0.8
Processed energy goods.....	ID6	9113	18.757	10.4	-4.4	2.0	1.9	-3.2	-10.9
Processed materials less energy.....	ID6	9118	81.243	3.4	-0.6	-0.7	-0.7	-0.1	-0.5
Processed materials less foods and energy.....	ID6	9115	73.343	2.6	-0.6	-0.8	-0.7	-0.2	-0.5
Intermediate distributive services <sup>7</sup> .....	ID6	9116	34.657	7.2	-0.9	-0.4	0.2	0.5	0.3
Processed goods plus intermediate distributive services.....	ID6	9117	-	5.4	-1.3	-0.2	0.0	-0.4	-1.9
Unprocessed materials less agricultural products.....	ID6	9211	62.340	10.8	8.1	-5.8	-15.0	-6.0	7.7
Unprocessed energy materials <sup>8</sup> .....	ID6	9212	42.130	20.0	10.9	-6.6	-18.3	-8.0	9.5
Unprocessed materials less energy.....	ID6	9213	57.870	6.4	-0.9	0.7	-2.8	-0.4	-0.7
Unprocessed nonfood materials less energy <sup>9</sup> .....	ID6	9216	25.267	-5.7	0.4	0.0	-5.1	-0.9	0.6
<b>Intermediate Demand by Production Flow</b>									
<b>Stage 4 Intermediate Demand</b>									
Stage 4 intermediate demand.....	ID5	4	100.000	6.0	0.3	0.4	0.1	0.4	-0.3
Inputs to stage 4 goods producers.....	ID5	41	32.865	6.0	-0.3	0.2	-0.2	0.2	-0.2
Goods.....	ID5	411	23.183	5.4	0.1	0.1	-0.3	-0.1	-0.5

See footnotes at end of table.

**Table 1. Producer price index percentage changes and weights for Final Demand-Intermediate Demand groupings, seasonally adjusted — Continued**  
 [December 2022]

Grouping	Commodity code		Relative Importance Dec. 2021 <sup>1</sup>	Unadjusted 12-month percent change <sup>2</sup> Dec. 2021 to Dec. 2022 <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	3.188	10.7	0.6	2.1	-0.3	-0.2	-2.7
Energy.....	ID5	4112	0.189	10.5	-3.3	0.2	2.1	-1.2	-3.8
Goods excluding foods and energy.....	ID5	4113	19.806	4.5	0.1	-0.2	-0.4	-0.1	0.0
Services.....	ID5	412	9.682	7.3	-1.4	0.5	0.1	1.2	0.4
Trade services.....	ID5	4123	7.732	7.7	-1.8	0.6	0.2	1.5	0.5
Transportation and warehousing services.....	ID5	4122	0.475	8.4	-0.9	-0.2	-0.1	-0.4	-0.1
Transportation of passengers.....	ID5	41221	0.066	17.3	0.5	-0.3	3.0	-5.2	3.1
Transportation and warehousing of goods.....	ID5	41222	0.409	7.0	-1.1	-0.2	-0.7	0.4	-0.6
Services less trade, transportation, and warehousing.....	ID5	4121	1.475	4.8	0.4	0.2	0.1	0.2	0.0
Inputs to stage 4 services producers.....	ID5	42	52.483	5.9	1.1	0.6	0.2	0.6	0.0
Goods.....	ID5	421	13.894	7.8	0.1	0.4	-0.1	-0.4	-1.1
Foods.....	ID5	4211	2.353	4.8	-0.4	-1.0	-1.1	1.0	-1.2
Energy.....	ID5	4212	3.737	10.6	-0.3	1.6	0.1	-2.5	-3.0
Goods excluding foods and energy.....	ID5	4213	7.804	7.3	0.5	0.1	0.1	0.3	0.0
Services.....	ID5	422	38.503	5.2	1.4	0.7	0.3	1.1	0.3
Trade services.....	ID5	4223	4.524	10.7	-0.3	0.6	0.1	1.3	0.3
Transportation and warehousing services.....	ID5	4222	3.277	5.2	-0.9	0.0	0.7	-1.3	0.2
Transportation of passengers.....	ID5	42221	0.421	17.2	0.5	-0.3	3.0	-5.2	3.0
Transportation and warehousing of goods.....	ID5	42222	2.856	3.5	-1.1	0.0	0.3	-0.6	-0.3
Services less trade, transportation, and warehousing.....	ID5	4221	30.702	4.3	1.9	0.9	0.3	1.3	0.4
Construction.....	ID5	423	0.086	7.7	0.1	0.3	0.6	0.0	0.1
Inputs to stage 4 construction producers.....	ID5	43	14.650	6.8	-0.9	-0.3	0.3	-0.3	-1.4
Goods.....	ID5	431	10.502	7.1	-0.6	-0.3	0.4	-0.6	-1.8
Energy.....	ID5	4312	0.844	0.9	-10.0	0.1	5.5	-5.3	-16.9
Goods excluding foods and energy.....	ID5	4313	9.658	7.7	0.5	-0.3	-0.2	-0.1	-0.3
Services.....	ID5	432	4.148	6.0	-1.5	-0.5	0.1	0.6	-0.2
Trade services.....	ID5	4323	2.051	5.6	-3.0	-0.9	0.4	0.8	0.0
Transportation and warehousing services.....	ID5	4322	0.612	8.1	-1.8	-0.4	-0.6	0.5	-1.2
Transportation of passengers.....	ID5	43221	0.013	17.3	0.5	-0.3	3.0	-5.2	3.0
Transportation and warehousing of goods.....	ID5	43222	0.599	7.9	-1.8	-0.4	-0.7	0.6	-1.3
Services less trade, transportation, and warehousing.....	ID5	4321	1.485	5.6	0.7	0.1	0.0	0.3	0.0
<b>Stage 3 Intermediate Demand</b>									
Stage 3 intermediate demand.....	ID5	3	100.000	4.9	-1.6	-0.1	-0.1	-0.5	-2.1
Inputs to stage 3 goods producers.....	ID5	31	49.802	2.7	-2.1	-0.8	-1.4	-0.7	-1.6
Goods.....	ID5	311	40.208	1.6	-2.4	-1.0	-1.8	-1.0	-2.0
Foods.....	ID5	3111	11.423	15.2	-2.6	0.5	-1.9	-0.8	-1.7
Energy.....	ID5	3112	1.551	0.2	-4.9	-0.7	1.5	-3.6	-18.6
Goods excluding foods and energy.....	ID5	3113	27.234	-4.0	-2.1	-1.7	-1.9	-0.9	-1.0
Services.....	ID5	312	9.594	7.1	-1.1	-0.3	0.0	0.7	-0.1
Trade services.....	ID5	3123	5.774	6.1	-1.4	-0.5	0.1	0.9	0.3
Transportation and warehousing services.....	ID5	3122	2.538	9.8	-1.3	-0.2	-0.3	0.5	-0.8
Transportation of passengers.....	ID5	31221	0.120	17.3	0.5	-0.3	3.0	-5.2	3.1
Transportation and warehousing of goods.....	ID5	31222	2.418	9.5	-1.4	-0.2	-0.5	0.8	-1.0
Services less trade, transportation, and warehousing.....	ID5	3121	1.282	6.2	0.5	0.1	0.3	0.2	-0.3
Inputs to stage 3 services producers.....	ID5	32	48.823	7.2	-1.1	0.7	1.2	-0.4	-2.7
Goods.....	ID5	321	10.251	14.7	-5.6	2.3	3.0	-2.5	-12.1
Foods.....	ID5	3211	0.088	12.1	2.9	1.4	-1.2	1.0	-0.5
Energy.....	ID5	3212	6.099	19.4	-8.2	3.5	4.5	-3.9	-18.0
Goods excluding foods and energy.....	ID5	3213	4.064	7.8	-0.1	-0.1	0.0	0.3	-0.2
Services.....	ID5	322	37.657	5.2	0.5	0.1	0.6	0.3	0.5
Trade services.....	ID5	3223	2.600	14.8	-0.2	0.6	-0.5	1.0	0.2
Transportation and warehousing services.....	ID5	3222	8.909	-0.3	0.2	-1.8	1.1	-2.1	0.0
Transportation of passengers.....	ID5	32221	0.022	2.7	0.2	-0.3	0.0	-0.3	0.0
Transportation and warehousing of goods.....	ID5	32222	8.887	-0.3	0.2	-1.8	1.2	-2.1	0.0
Services less trade, transportation, and warehousing.....	ID5	3221	26.148	6.1	0.6	0.7	0.5	1.1	0.6
Construction.....	ID5	323	0.915	7.7	0.1	0.3	0.6	0.0	0.1
Inputs to stage 3 construction producers.....	ID5	33	1.376	6.2	-1.8	-0.9	0.4	0.3	-0.1
Goods.....	ID5	331	0.574	5.2	0.4	-0.6	-0.6	-0.8	-0.4
Goods excluding foods and energy.....	ID5	3313	0.574	5.2	0.4	-0.6	-0.6	-0.8	-0.4
Services.....	ID5	332	0.802	6.8	-3.4	-1.1	1.2	1.0	0.1
Trade services.....	ID5	3323	0.760	6.8	-3.6	-1.1	1.2	1.1	0.2
Transportation and warehousing services.....	ID5	3322	0.015	11.3	0.0	0.3	-0.6	0.6	0.1
Transportation and warehousing of goods.....	ID5	33222	0.015	11.3	0.0	0.3	-0.6	0.6	0.1
Services less trade, transportation, and warehousing.....	ID5	3321	0.027	6.1	1.1	0.0	0.3	0.1	-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 2022]

Grouping	Commodity code		Relative Importance Dec. 2021 <sup>1</sup>	Unadjusted 12-month percent change <sup>2</sup> Dec. 2021 to Dec. 2022 <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	8.7	3.1	-1.8	-4.7	-1.3	2.2
Inputs to stage 2 goods producers.....	ID5	21	55.017	9.5	4.4	-3.5	-8.7	-2.7	3.3
Goods.....	ID5	211	42.903	9.6	5.3	-4.3	-10.9	-3.6	4.0
Foods.....	ID5	2111	3.172	14.8	2.9	2.8	-4.2	1.2	-2.0
Energy.....	ID5	2112	20.215	18.3	10.3	-6.9	-18.2	-7.4	8.6
Goods excluding foods and energy.....	ID5	2113	19.516	-0.3	-1.3	-1.6	-1.6	0.0	0.1
Services.....	ID5	212	11.646	10.1	0.8	0.3	0.4	0.7	0.6
Trade services.....	ID5	2123	5.347	10.5	0.8	-0.8	0.3	0.8	0.9
Transportation and warehousing services.....	ID5	2122	3.332	8.1	0.2	1.0	0.1	-0.3	-0.3
Transportation of passengers.....	ID5	21221	0.156	16.3	0.5	-0.3	2.8	-4.9	2.9
Transportation and warehousing of goods.....	ID5	21222	3.176	7.7	0.1	1.1	-0.1	0.1	-0.5
Services less trade, transportation, and warehousing.....	ID5	2121	2.967	11.2	1.4	1.6	1.0	1.4	1.0
Construction.....	ID5	213	0.468	7.7	0.1	0.3	0.6	0.0	0.1
Inputs to stage 2 services producers.....	ID5	22	44.982	7.5	1.2	0.5	0.8	0.4	0.9
Goods.....	ID5	221	5.753	5.9	-0.2	-0.1	-0.1	-0.5	-1.2
Foods.....	ID5	2211	0.032	6.9	0.8	-0.1	-2.8	-0.9	-1.2
Energy.....	ID5	2212	0.393	2.7	-4.0	2.1	0.8	-4.9	-12.2
Goods excluding foods and energy.....	ID5	2213	5.328	6.2	0.1	-0.3	-0.2	-0.1	-0.3
Services.....	ID5	222	37.664	7.8	1.5	0.6	1.0	0.6	1.3
Trade services.....	ID5	2223	2.497	18.3	3.4	-2.4	-0.8	2.0	6.4
Transportation and warehousing services.....	ID5	2222	3.167	-8.5	1.6	-5.3	3.1	-6.9	1.0
Transportation of passengers.....	ID5	22221	0.356	17.2	0.5	-0.3	3.0	-5.1	3.0
Transportation and warehousing of goods.....	ID5	22222	2.811	-11.7	1.8	-6.1	3.1	-7.2	0.7
Services less trade, transportation, and warehousing.....	ID5	2221	32.000	8.6	1.3	1.4	0.9	1.2	0.9
Construction.....	ID5	223	1.565	7.7	0.1	0.3	0.6	0.0	0.1
<b>Stage 1 Intermediate Demand</b>									
Stage 1 intermediate demand.....	ID5	1	100.000	5.5	-0.6	0.3	0.1	-0.1	-1.7
Inputs to stage 1 goods producers.....	ID5	11	35.307	0.7	-1.1	-0.4	-1.4	-0.5	-1.4
Goods.....	ID5	111	25.965	-0.9	-1.4	-0.4	-1.8	-1.1	-2.0
Foods.....	ID5	1111	3.181	9.3	2.0	5.3	-3.9	-1.1	-3.2
Energy.....	ID5	1112	3.712	6.7	-1.3	1.6	-1.2	-2.8	-5.8
Goods excluding foods and energy.....	ID5	1113	19.072	-4.0	-2.0	-1.9	-1.6	-0.7	-0.9
Services.....	ID5	112	9.341	5.1	-0.3	-0.5	-0.1	0.9	0.1
Trade services.....	ID5	1123	6.053	5.0	-0.9	-1.1	-0.1	1.3	0.1
Transportation and warehousing services.....	ID5	1122	0.488	16.5	0.6	0.8	-0.2	-0.4	0.5
Transportation of passengers.....	ID5	11221	0.084	17.3	0.5	-0.3	3.0	-5.2	3.1
Transportation and warehousing of goods.....	ID5	11222	0.404	16.2	0.6	0.9	-0.6	0.3	0.1
Services less trade, transportation, and warehousing.....	ID5	1121	2.800	2.8	1.0	0.6	-0.1	0.3	-0.1
Construction.....	ID5	113	0.001	7.7	0.1	0.3	0.6	0.0	0.1
Inputs to stage 1 services producers.....	ID5	12	51.790	7.9	0.0	0.8	0.9	0.2	-1.7
Goods.....	ID5	121	17.196	11.7	-1.8	1.3	1.6	-1.2	-4.9
Foods.....	ID5	1211	0.051	118.6	-3.4	-5.7	20.8	-1.1	8.3
Energy.....	ID5	1212	5.758	13.7	-5.6	3.4	3.8	-3.5	-13.7
Goods excluding foods and energy.....	ID5	1213	11.387	10.2	0.6	0.1	0.1	0.2	0.3
Services.....	ID5	122	34.589	5.9	1.0	0.5	0.6	1.0	0.0
Trade services.....	ID5	1223	3.797	13.0	-0.7	0.7	-0.7	1.6	0.9
Transportation and warehousing services.....	ID5	1222	3.611	9.9	-0.3	-0.1	1.1	-1.6	0.6
Transportation of passengers.....	ID5	12221	1.098	17.3	0.5	-0.3	3.0	-5.2	3.1
Transportation and warehousing of goods.....	ID5	12222	2.513	6.6	-0.7	-0.1	0.3	0.2	-0.6
Services less trade, transportation, and warehousing.....	ID5	1221	27.181	4.4	1.5	0.5	0.7	1.2	-0.2
Construction.....	ID5	123	0.005	7.7	0.1	0.3	0.6	0.0	0.1
Inputs to stage 1 construction producers.....	ID5	13	12.903	9.3	-1.5	0.2	0.8	-0.1	-2.1
Goods.....	ID5	131	8.482	10.6	-0.7	0.7	0.9	-0.6	-3.1
Energy.....	ID5	1312	0.827	20.4	-8.9	5.7	8.0	-4.3	-22.8
Goods excluding foods and energy.....	ID5	1313	7.655	9.5	0.5	0.0	-0.1	0.0	-0.1
Services.....	ID5	132	4.421	7.0	-3.1	-0.9	0.6	1.0	-0.1
Trade services.....	ID5	1323	3.756	6.6	-3.3	-1.0	0.9	1.1	0.2
Transportation and warehousing services.....	ID5	1322	0.609	8.7	-2.0	-0.5	-0.6	0.7	-1.6
Transportation and warehousing of goods.....	ID5	13222	0.609	8.7	-2.0	-0.5	-0.6	0.7	-1.6
Services less trade, transportation, and warehousing.....	ID5	1321	0.056	8.9	2.6	0.3	0.4	0.1	0.2
<b>Special Groupings of Intermediate Demand by Production Flow</b>									
Total goods inputs to stage 4 intermediate demand.....	ID5	9411	47.579	6.5	0.0	0.1	-0.1	-0.3	-0.9
Total services inputs to stage 4 intermediate demand.....	ID5	9412	52.333	5.6	0.6	0.6	0.2	1.0	0.3
Total construction inputs to stage 4 intermediate demand.....	ID5	9413	0.086	7.7	0.1	0.3	0.6	0.0	0.1
Total foods inputs to stage 4 intermediate demand.....	ID5	9414	5.541	8.2	0.2	0.8	-0.6	0.3	-2.1

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 2022]

Grouping	Commodity code		Relative Importance Dec. 2021 <sup>1</sup>	Unadjusted 12-month percent change <sup>2</sup> Dec. 2021 to Dec. 2022 <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	4.770	8.9	-2.4	1.2	1.2	-3.0	-5.7
Total goods less foods and energy inputs to stage 4 intermediate demand. ....	ID5	9416	37.268	5.9	0.3	-0.2	-0.2	0.0	-0.1
Total goods inputs to stage 3 intermediate demand.....	ID5	9311	51.033	4.3	-3.1	-0.2	-0.6	-1.4	-4.5
Total services inputs to stage 3 intermediate demand.....	ID5	9312	48.053	5.6	0.1	0.0	0.5	0.4	0.3
Total construction inputs to stage 3 intermediate demand.....	ID5	9313	0.915	7.7	0.1	0.3	0.6	0.0	0.1
Total foods inputs to stage 3 intermediate demand.....	ID5	9314	11.511	15.2	-2.6	0.5	-1.9	-0.7	-1.6
Total energy goods inputs to stage 3 intermediate demand.....	ID5	9315	7.650	15.5	-7.6	2.7	4.0	-3.8	-18.1
Total goods less foods and energy inputs to stage 3 intermediate demand. ....	ID5	9316	31.872	-2.4	-1.8	-1.4	-1.6	-0.8	-0.9
Total goods inputs to stage 2 intermediate demand.....	ID5	9211	48.656	9.2	4.7	-3.9	-9.9	-3.3	3.5
Total services inputs to stage 2 intermediate demand.....	ID5	9212	49.310	8.3	1.3	0.5	0.8	0.6	1.1
Total construction inputs to stage 2 intermediate demand.....	ID5	9213	2.033	7.7	0.1	0.3	0.6	0.0	0.1
Total foods inputs to stage 2 intermediate demand.....	ID5	9214	3.204	14.8	2.9	2.7	-4.2	1.1	-2.0
Total energy goods inputs to stage 2 intermediate demand.....	ID5	9215	20.608	18.0	10.0	-6.7	-17.8	-7.3	8.2
Total goods less foods and energy inputs to stage 2 intermediate demand. ....	ID5	9216	24.844	1.1	-1.0	-1.3	-1.3	0.0	0.0
Total goods inputs to stage 1 intermediate demand.....	ID5	9111	51.643	5.0	-1.4	0.4	-0.2	-1.1	-3.2
Total services inputs to stage 1 intermediate demand.....	ID5	9112	48.351	5.9	0.4	0.2	0.4	0.9	0.0
Total construction inputs to stage 1 intermediate demand.....	ID5	9117	0.006	7.7	0.1	0.3	0.6	0.0	0.1
Total foods inputs to stage 1 intermediate demand.....	ID5	9114	3.232	10.9	1.9	5.1	-3.4	-1.1	-2.9
Total energy goods inputs to stage 1 intermediate demand.....	ID5	9115	10.297	11.7	-4.5	3.0	2.5	-3.4	-12.0
Total goods less foods and energy inputs to stage 1 intermediate demand. ....	ID5	9116	38.114	2.9	-0.7	-0.9	-0.7	-0.3	-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 2022]

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>
<b>Final Demand</b>								
Final demand.....	FD	4	6.2	-0.1	0.3	0.4	0.2	-0.5
Final demand goods.....	FD	41	8.0	-1.0	0.3	0.6	0.1	-1.6
Final demand foods.....	FD	411	14.3	-0.1	1.5	0.7	3.3	-1.2
Fresh fruits and melons <sup>2</sup> .....	01	11	13.3	0.5	-1.3	11.5	3.2	-7.8
Fresh and dry vegetables <sup>2</sup> .....	01	13	92.3	1.7	15.7	22.4	38.1	-9.4
Grains.....	01	2	8.8	3.2	10.5	-5.8	-3.3	-5.9
Eggs for fresh use <sup>2</sup> .....	01	7107	191.8	-25.0	16.6	15.0	26.0	24.5
Oilseeds.....	01	8301	17.4	5.1	5.4	-9.5	4.8	-2.3
Bakery products <sup>2</sup> .....	02	11	13.9	1.6	0.7	0.2	1.6	0.1
Milled rice <sup>2</sup> .....	02	13	22.8	1.9	2.1	1.4	0.7	1.9
Pasta products <sup>2</sup> .....	02	1402	20.4	0.0	1.1	3.0	-1.5	0.0
Beef and veal.....	02	2101	-7.8	-1.8	-3.4	-1.7	3.6	4.2
Pork.....	02	2104	3.4	2.1	2.3	-0.1	2.3	-1.3
Processed young chickens.....	02	2203	-6.7	-3.3	-1.7	-6.9	-1.3	-3.6
Processed turkeys.....	02	2206	35.6	1.7	0.5	1.9	0.5	0.7
Finfish and shellfish.....	02	23	-12.9	1.9	1.7	-0.5	-2.2	-1.8
Dairy products.....	02	3	12.7	-1.9	-1.4	0.2	-0.6	-0.3
Processed fruits and vegetables <sup>2</sup> .....	02	4	18.5	1.0	2.9	0.9	1.8	0.3
Confectionery end products <sup>2</sup> .....	02	55	6.2	0.5	0.4	0.4	0.5	-0.6
Soft drinks <sup>2</sup> .....	02	62	12.1	5.4	2.1	-0.6	0.3	-1.3
Roasted coffee <sup>2</sup> .....	02	6301	19.8	2.1	3.9	0.9	0.7	0.4
Shortening and cooking oils <sup>2</sup> .....	02	78	12.7	-0.8	-1.2	-3.4	2.9	-3.5
Frozen specialty food <sup>2</sup> .....	02	85	16.7	0.3	2.3	0.0	0.6	0.1
Final demand energy.....	FD	412	9.1	-5.4	0.3	2.5	-3.2	-7.9
Liquefied petroleum gas <sup>2</sup> .....	05	32	-10.1	-4.2	-14.5	-14.0	12.4	-12.9
Residential electric power.....	05	41	12.3	1.6	0.1	1.6	-0.6	0.8
Residential natural gas.....	05	51	16.2	0.7	3.3	-2.0	-3.4	2.2
Gasoline.....	05	71	-5.9	-12.1	-1.5	5.2	-6.3	-13.4
Home heating oil and distillates.....	05	7302	37.0	-6.0	1.2	7.6	-10.4	-6.4
No. 2 diesel fuel.....	05	7303	20.4	-10.5	7.7	10.1	-4.6	-27.0
Final demand goods less foods and energy.....	FD	413	6.0	0.2	0.0	0.0	0.3	0.2
Alcoholic beverages.....	02	61	6.8	0.3	0.3	1.0	1.2	0.0
Pet food <sup>2</sup> .....	02	9402	14.4	0.9	0.2	0.0	0.8	0.1
Women's, girls', and infants' apparel <sup>2</sup> .....	03	8106	0.6	0.1	0.1	-0.1	0.0	0.0
Men's and boys' apparel <sup>2</sup> .....	03	8107	11.4	0.6	1.5	0.0	0.5	0.0
Textile housefurnishings <sup>2</sup> .....	03	82	3.7	-0.8	0.3	1.9	0.0	0.0
Footwear.....	04	3	10.3	1.3	3.6	0.8	-0.1	0.1
Industrial chemicals.....	06	1	-1.6	-5.3	-2.0	-1.3	-0.9	-3.2
Pharmaceutical preparations.....	06	38	2.3	0.3	0.3	0.2	0.1	0.2
Soaps and detergents <sup>2</sup> .....	06	71	12.7	0.8	1.1	0.2	1.3	0.0
Cleaning and polishing products <sup>2</sup> .....	06	72	5.5	1.5	0.2	0.2	0.0	0.0
Cosmetics and other toiletries <sup>2</sup> .....	06	75	6.6	0.5	0.2	0.5	0.1	0.0
Tires <sup>2</sup> .....	07	1201	15.2	0.7	0.5	1.0	0.6	0.6
Consumer, institutional, and commercial products, n.e.c. <sup>2</sup> .....	07	2B	12.4	0.6	-0.4	-0.5	0.3	0.5
Sanitary paper products <sup>2</sup> .....	09	1501	15.9	-0.3	1.4	1.4	4.2	-0.2
Iron and steel scrap <sup>2</sup> .....	10	12	-27.7	-8.0	-3.4	-3.4	-3.3	8.3
Agricultural machinery and equipment.....	11	1	12.3	0.8	1.0	1.8	-0.1	-0.4
Construction machinery and equipment <sup>2</sup> .....	11	2	8.8	2.6	0.1	0.0	0.2	0.0
Metal cutting machine tools <sup>2</sup> .....	11	37	3.5	0.3	0.0	0.4	0.8	0.0
Metal forming machine tools.....	11	38	5.1	1.4	0.1	0.2	-0.2	-0.1
Tools, dies, jigs, fixtures, and industrial molds <sup>2</sup> .....	11	39	7.5	0.5	0.4	0.6	0.1	0.2
Pumps, compressors, and equipment.....	11	41	15.1	0.5	0.8	0.6	0.8	0.1
Industrial material handling equipment <sup>2</sup> .....	11	44	10.3	0.5	0.1	0.3	1.6	0.1
Electronic computers and computer equipment <sup>2</sup> .....	11	5	5.3	-0.2	-0.5	-0.2	0.5	1.0
Textile machinery and equipment <sup>2</sup> .....	11	62	5.8	0.0	0.0	0.0	0.0	0.0
Paper industries machinery <sup>2</sup> .....	11	64	9.1	0.9	1.5	-0.1	0.5	0.3
Printing trades machinery and equipment <sup>2</sup> .....	11	65	2.0	0.2	0.4	0.4	0.0	0.1
Transformers and power regulators <sup>2</sup> .....	11	74	20.3	0.1	0.1	-2.7	1.7	2.4
Communication and related equipment.....	11	76	3.9	0.1	0.0	0.2	0.4	0.2
Electronic components and accessories.....	11	78	4.0	-0.3	0.4	0.7	0.5	-0.2
X-ray and electromedical equipment <sup>2</sup> .....	11	7905	4.4	0.0	0.1	0.0	0.0	0.1
Oil field and gas field machinery <sup>2</sup> .....	11	91	9.3	0.0	0.3	4.8	0.1	0.0
Mining machinery and equipment <sup>2</sup> .....	11	92	13.4	0.3	2.7	0.0	1.0	0.2
Office and store machines and equipment <sup>2</sup> .....	11	93	0.8	0.0	0.0	0.0	0.0	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 2022]

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. 2021 to Dec. 2022 <sup>P</sup>	July to Aug.	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>	Oct. to Nov. <sup>P</sup>
Household furniture <sup>2</sup> .....	12	1	8.0	0.7	0.1	-0.4	-0.1	0.6
Commercial furniture <sup>2</sup> .....	12	2	12.9	0.9	0.8	0.4	1.4	0.3
Floor coverings <sup>2</sup> .....	12	3	1.9	1.4	0.3	0.6	0.9	0.0
Household appliances <sup>2</sup> .....	12	4	9.5	0.2	0.0	-0.2	-1.3	1.7
Home electronic equipment <sup>2</sup> .....	12	5	6.7	0.0	1.7	0.2	0.0	0.0
Lawn and garden equipment excl. garden tractors <sup>2</sup> .....	12	66	11.1	0.4	-0.1	0.1	-0.3	2.9
Passenger cars.....	14	1101	2.1	0.4	0.1	-1.5	0.1	0.0
Light motor trucks.....	14	1105	7.1	0.2	0.1	0.6	0.3	0.7
Heavy motor trucks <sup>2</sup> .....	14	1106	2.6	0.1	-0.1	0.1	0.2	0.0
Motor vehicles parts <sup>2</sup> .....	14	12	3.6	0.5	0.2	0.0	-0.1	0.0
Truck trailers <sup>2</sup> .....	14	14	16.9	0.1	0.2	0.5	0.0	0.1
Travel trailers and campers <sup>2</sup> .....	14	16	7.5	0.2	1.1	0.6	0.1	0.0
Aircraft.....	14	21	5.2	0.3	0.1	0.3	0.3	0.4
Ships <sup>2</sup> .....	14	31	2.4	0.0	-0.3	0.0	0.0	0.3
Railroad equipment <sup>2</sup> .....	14	4	1.5	0.3	0.2	0.0	0.1	0.0
Toys, games, and children's vehicles <sup>2</sup> .....	15	11	4.0	0.0	0.0	1.2	0.0	0.0
Sporting and athletic goods.....	15	12	18.5	-0.1	-0.2	0.4	2.1	1.9
Cigarettes <sup>2</sup> .....	15	21	10.5	2.0	0.8	0.0	2.1	0.0
Mobile homes <sup>2</sup> .....	15	5	7.6	-1.3	-0.9	-0.8	-0.3	0.0
Medical, surgical & personal aid devices.....	15	6	4.6	0.3	0.4	0.2	-0.1	0.3
Jewelry, platinum and karat gold <sup>2</sup> .....	15	9402	11.6	1.7	-1.5	-0.5	3.7	0.7
Costume jewelry and novelties <sup>2</sup> .....	15	9404	5.7	0.0	0.0	0.0	0.0	0.0
Final demand services.....	FD	42	5.0	0.5	0.3	0.2	0.2	0.1
Final demand trade services <sup>3</sup> .....	FD	423	8.7	1.0	-0.2	0.1	0.0	0.3
Machinery and equipment parts and supplies wholesaling <sup>2</sup> .....	57	1102	7.1	-2.8	1.4	0.1	2.1	0.6
Machinery and vehicle wholesaling <sup>2</sup> .....	57	1103	14.8	1.1	1.7	-0.4	1.9	-1.4
Professional and commercial equipment wholesaling <sup>2</sup> .....	57	1104	0.4	-2.6	-0.5	-1.5	2.6	2.0
Furnishings wholesaling <sup>2</sup> .....	57	2	8.8	1.5	0.8	1.6	-1.5	0.0
Chemicals and allied products wholesaling <sup>2</sup> .....	57	5	8.7	5.8	-1.3	-1.0	2.5	-0.9
Paper and plastics products wholesaling <sup>2</sup> .....	57	6	23.7	-0.8	3.9	-0.4	0.3	2.6
Apparel wholesaling <sup>2</sup> .....	57	7	3.5	1.9	2.9	5.1	-1.5	-6.0
Food and alcohol wholesaling <sup>2</sup> .....	57	8	12.2	1.3	-1.1	1.9	-0.4	0.7
Food and alcohol retailing.....	58	1	17.9	0.9	2.2	2.7	-1.0	0.5
Health, beauty, and optical goods retailing <sup>2</sup> .....	58	2	-0.8	1.0	-3.8	2.4	-3.4	0.3
Apparel, jewelry, footwear, and accessories retailing.....	58	3	-3.8	3.1	1.0	-0.7	-0.1	-1.8
Computer hardware, software, and supplies retailing <sup>2</sup> .....	58	4	-2.6	-5.1	0.3	0.8	-6.2	0.1
TV, video, and photographic equipment and supplies retailing <sup>2</sup> .....	58	5	-26.9	0.5	-11.6	8.8	-24.5	-3.7
Automobiles retailing (partial).....	58	6101	-9.9	-2.4	-0.7	-5.4	-3.4	0.7
Automotive parts, including tires, retailing <sup>2</sup> .....	58	6102	18.5	0.4	1.3	0.4	2.2	0.7
RVs, trailers, and campers retailing <sup>2</sup> .....	58	8	-49.1	-1.6	-8.8	-6.3	-18.1	-0.9
Sporting goods, including boats, retailing.....	58	9	-2.9	2.4	0.9	3.0	-5.6	-0.7
Lawn, garden, and farm equipment and supplies retailing <sup>2</sup> .....	58	A	14.6	7.8	0.7	-3.7	0.6	-4.5
Furniture retailing <sup>2</sup> .....	58	B	-8.8	-3.1	0.0	-3.6	-1.2	-0.1
Flooring and floor coverings retailing <sup>2</sup> .....	58	C	15.7	-1.6	-3.7	3.5	0.4	0.3
Hardware, building materials, and supplies retailing.....	58	D	3.6	-5.9	-2.0	2.5	1.1	-0.2
Major household appliances retailing.....	58	E	2.1	-3.9	1.2	-3.0	-3.5	1.1
Fuels and lubricants retailing.....	58	F	31.3	12.5	-7.4	-1.7	2.8	17.6
Cleaning supplies and paper products retailing <sup>2</sup> .....	58	G	13.8	-1.2	-1.0	-1.3	-1.3	-1.4
Book retailing <sup>2</sup> .....	58	H	13.7	2.4	-0.5	1.8	0.3	0.1
Final demand transportation and warehousing services.....	FD	422	10.8	-1.1	-0.3	0.4	-0.9	-0.2
Rail transportation of freight and mail <sup>2</sup> .....	30	11	8.4	-0.4	0.1	-0.6	0.6	-0.1
Truck transportation of freight <sup>2</sup> .....	30	12	8.2	-2.2	-0.6	-0.6	0.7	-1.7
Air transportation of freight <sup>2</sup> .....	30	14	-3.0	-1.5	-0.6	-2.6	-2.5	-0.1
Courier, messenger, and U.S. postal services.....	30	16	7.6	-0.3	0.4	0.4	0.5	-0.4
Rail transportation of passengers.....	30	21	2.1	0.2	-0.3	-0.1	-0.1	-0.2
Airline passenger services.....	30	22	17.3	0.5	-0.3	3.0	-5.2	3.1
Final demand services less trade, transportation, and warehousing.....	FD	421	2.5	0.4	0.6	0.2	0.4	0.0
Sales of books <sup>2</sup> .....	33	11	6.6	0.1	-1.0	1.3	-0.7	1.4
Sales and subscriptions of periodicals and newspapers.....	33	12	1.8	-0.4	6.0	-0.2	-3.8	0.7
Application software publishing <sup>2</sup> .....	34	2	-0.5	-1.5	1.9	-0.6	-2.4	0.5
Advertising space sales in periodicals, newspapers, directories, and mailing lists <sup>2</sup> .....	36	1	0.6	0.2	-0.5	0.6	-0.3	1.0
Residential wired telecommunication services.....	37	11	4.2	0.9	2.4	0.2	0.0	0.1
Wireless telecommunication services.....	37	2	2.0	0.5	0.0	0.0	0.4	-0.1
Cable and satellite subscriber services.....	37	3	8.1	0.3	1.1	0.6	1.1	0.6
Internet access services <sup>2</sup> .....	37	4	-2.0	-0.3	0.2	-0.2	-0.7	-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 2022]

Grouping	Commodity code		Unadjusted 12-month percent change <sup>1</sup> Dec. 2021 to Dec. 2022 <sup>P</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>
Bundled wired telecommunications access services <sup>2</sup> .....	37	5	5.5	0.4	1.7	1.2	-0.3	-0.2
Consumer loans (partial).....	39	12	1.0	4.4	-0.4	0.0	3.4	-6.8
Deposit services (partial) <sup>2</sup> .....	39	2	13.7	-1.2	4.0	-0.2	-0.9	16.4
Other credit intermediation, incl. trust services (partial) <sup>2</sup> .....	39	3	-5.8	-4.8	0.5	0.0	-2.5	0.0
Securities brokerage, dealing, investment advice, and related services <sup>2</sup> ...	40	1	20.7	9.5	-1.8	4.1	10.7	0.4
Portfolio management <sup>2</sup> .....	40	2	-14.1	2.2	1.6	-1.7	1.3	-1.0
Life insurance <sup>2</sup> .....	41	1101	3.3	0.0	0.0	0.1	0.0	0.0
Disability insurance, including accidental death <sup>2</sup> .....	41	1102	-0.4	0.0	0.0	0.0	0.0	0.0
Health and medical insurance.....	41	1103	1.9	0.2	0.2	0.3	0.2	0.3
Property and casualty insurance <sup>2</sup> .....	41	1104	4.2	0.1	0.4	0.1	0.1	1.2
Annuities <sup>2</sup> .....	41	2	-1.2	0.0	0.5	-0.3	0.0	0.0
Residential property sales and leases, brokerage fees and commissions...	43	21	7.2	1.1	0.1	-0.4	-0.4	-0.1
Passenger car rental.....	44	1	-2.5	3.7	-0.7	2.5	-3.7	-0.8
Legal services.....	45	1	4.8	0.4	0.8	0.4	0.4	0.2
Tax preparation and planning.....	45	2102	6.0	0.9	0.4	-0.7	0.6	-0.6
Architectural and engineering services.....	45	3	5.6	0.4	0.1	0.0	0.3	-0.1
Management, scientific, and technical consulting services.....	45	4	0.4	0.0	-0.3	-0.8	0.2	1.0
Arrangement of flights (partial).....	47	1	11.4	-0.4	0.0	-0.8	0.4	-1.3
Arrangement of vehicle rentals and lodging <sup>2</sup> .....	47	2	4.3	-0.6	-0.2	-0.3	0.7	0.6
Arrangement of cruises and tours <sup>2</sup> .....	47	3	19.0	0.1	-5.3	4.7	0.6	6.6
Physician care.....	51	1101	0.6	0.0	0.2	0.5	0.1	0.2
Medical laboratory and diagnostic imaging care <sup>2</sup> .....	51	1102	-0.7	0.0	0.0	0.0	-0.4	0.1
Home health and hospice care.....	51	1103	2.2	0.2	0.1	1.0	0.1	0.2
Hospital outpatient care <sup>2</sup> .....	51	1104	2.3	-0.3	-0.2	-1.0	0.4	-0.1
Dental care.....	51	1105	3.7	0.0	0.6	-0.1	0.1	0.1
Hospital inpatient care.....	51	2101	4.3	-0.1	0.2	0.9	0.0	0.3
Nursing home care.....	51	2102	4.6	0.7	0.4	0.3	0.4	0.3
Traveler accommodation services.....	53	11	4.4	-3.6	2.9	2.8	1.2	-3.4
Food and beverages for immediate consumption services (partial) <sup>2</sup> .....	54	1	-3.5	0.3	-1.0	-0.4	0.5	-0.8
Motor vehicle repair and maintenance (partial).....	55	2	4.5	0.4	0.4	0.5	0.4	0.0
Membership dues and admissions and recreation facility use fees (partial) <sup>2</sup> .....	56	1	5.5	-0.3	0.4	1.0	1.7	1.2
Recreational activity instruction fees (partial) <sup>2</sup> .....	56	2	1.6	0.1	0.0	0.0	0.0	0.0
Gaming receipts (partial) <sup>2</sup> .....	56	3	0.5	-2.3	5.4	-0.2	-4.3	0.5
Mining services <sup>2</sup> .....	60	1	11.0	0.9	2.4	0.2	0.4	0.2
Final demand construction.....	FD	43	18.5	0.2	0.2	2.7	0.1	0.0
New warehouse building construction <sup>2</sup> .....	80	1101	20.9	0.0	0.2	2.1	0.3	-0.2
New school building construction <sup>2</sup> .....	80	1102	17.9	0.1	0.3	3.3	0.0	-0.1
New office building construction <sup>2</sup> .....	80	1103	20.2	0.3	0.2	2.4	0.0	0.3
New industrial building construction <sup>2</sup> .....	80	1104	20.8	0.1	0.1	2.8	0.2	-0.1
New health care building construction <sup>2</sup> .....	80	1105	18.1	0.1	0.1	3.3	0.1	0.1
<b>Intermediate Demand by Commodity Type</b>								
Processed goods for intermediate demand.....	ID6	1	4.7	-1.4	-0.1	-0.1	-0.8	-2.8
Processed foods and feeds.....	ID6	9112	11.3	-0.1	-0.2	-0.1	0.7	-0.8
Meats.....	02	21	-1.1	0.3	-0.6	-0.5	2.4	1.4
Processed poultry.....	02	22	-5.7	-2.6	-5.8	-7.0	2.9	-9.9
Dairy products.....	02	3	12.7	-1.9	-1.4	0.2	-0.6	-0.3
Processed fruits and vegetables <sup>2</sup> .....	02	4	18.5	1.0	2.9	0.9	1.8	0.3
Refined sugar and byproducts <sup>2</sup> .....	02	53	9.6	0.7	4.5	0.2	-0.2	0.8
Fats and oils <sup>2</sup> .....	02	7	11.6	-1.2	-0.2	-2.4	2.5	-3.0
Prepared animal feeds <sup>2</sup> .....	02	9	14.1	1.0	0.2	-1.7	0.6	-0.4
Processed materials less foods and feeds.....	ID6	9111	4.2	-1.5	-0.1	-0.1	-0.9	-3.0
Synthetic fibers <sup>2</sup> .....	03	1	6.4	2.2	1.0	0.1	-0.2	-1.2
Processed yarns and threads <sup>2</sup> .....	03	2	8.5	-0.1	-3.0	-3.8	-1.5	0.2
Finished fabrics <sup>2</sup> .....	03	4	8.6	0.6	0.0	-0.3	0.7	-0.5
Liquefied petroleum gas <sup>2</sup> .....	05	32	-10.1	-4.2	-14.5	-14.0	12.4	-12.9
Commercial electric power.....	05	42	13.2	2.3	0.4	-0.7	-1.1	1.0
Industrial electric power.....	05	43	11.0	1.1	2.4	-0.7	-2.9	2.0
Commercial natural gas.....	05	52	21.9	3.3	3.0	-3.9	-5.7	3.1
Industrial natural gas.....	05	53	19.6	10.1	2.2	-9.4	-4.5	3.0
Natural gas to electric utilities.....	05	54	-12.4	6.8	0.1	-9.2	-4.7	0.6
Gasoline.....	05	71	-5.9	-12.1	-1.5	5.2	-6.3	-13.4
Jet fuel <sup>2</sup> .....	05	7203	35.4	-11.1	1.9	0.9	-2.3	-17.7
No. 2 diesel fuel.....	05	7303	20.4	-10.5	7.7	10.1	-4.6	-27.0
Residual fuels <sup>2</sup> .....	05	74	-0.8	-16.7	-2.1	-17.9	6.7	-3.4

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 2022]

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. 2021 to Dec. 2022 <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	23.0	0.8	2.7	1.5	0.3	-0.1
Lubricating oil base stocks <sup>2</sup> .....	05	78	25.1	-0.7	-5.4	-2.6	-4.1	-3.8
Asphalt.....	05	8102	-24.5	-6.2	-6.9	-1.1	-4.8	-33.2
Basic inorganic chemicals <sup>2</sup> .....	06	13	28.9	0.2	1.1	1.7	1.4	0.2
Basic organic chemicals.....	06	14	-6.0	-6.2	-2.5	-1.9	-1.4	-3.8
Prepared paint <sup>2</sup> .....	06	21	20.7	0.3	0.8	0.4	0.1	0.4
Paint materials <sup>2</sup> .....	06	22	23.4	3.7	1.9	-1.8	5.3	0.4
Medicinal and botanical chemicals <sup>2</sup> .....	06	31	1.9	0.1	0.3	-0.1	0.4	0.0
Biological products, including diagnostics.....	06	37	2.4	0.5	0.3	0.2	0.3	-0.5
Fats and oils, inedible <sup>2</sup> .....	06	4	12.7	0.9	-1.1	-1.1	5.8	-7.0
Nitrogenates.....	06	5201	9.1	1.9	-0.5	2.9	2.5	-1.9
Phosphates.....	06	5202	-1.2	-0.4	0.3	0.3	-0.1	1.1
Other agricultural chemicals <sup>2</sup> .....	06	53	38.8	0.3	0.8	1.9	-0.2	1.6
Plastic resins and materials.....	06	6	-10.6	-3.9	-0.5	-3.1	-3.2	-0.6
Industrial gases <sup>2</sup> .....	06	7903	15.4	-0.5	0.5	0.3	4.6	-0.8
Adhesives and sealants <sup>2</sup> .....	06	7904	17.7	1.8	0.7	0.2	0.2	0.6
Synthetic rubber <sup>2</sup> .....	07	1102	1.0	0.1	-0.4	-1.7	-3.6	-4.5
Tires <sup>2</sup> .....	07	1201	15.2	0.7	0.5	1.0	0.6	0.6
Plastic construction products <sup>2</sup> .....	07	21	8.3	0.3	-0.4	-0.8	-0.5	-0.7
Unsupported plastic film, sheet, other shapes <sup>2</sup> .....	07	22	6.8	1.4	-1.1	-0.5	0.4	-0.2
Parts for manufacturing from plastics <sup>2</sup> .....	07	26	6.1	0.5	0.4	0.2	-0.3	0.2
Plastic packaging products <sup>2</sup> .....	07	2A	6.3	1.9	0.1	-1.7	-0.5	-0.2
Softwood lumber.....	08	11	-26.1	-5.5	-3.4	-1.8	-0.3	-6.9
Hardwood lumber <sup>2</sup> .....	08	12	-21.2	-4.2	-4.4	-5.5	-7.4	-3.0
Millwork.....	08	2	7.5	1.3	-1.1	-0.4	-1.1	-0.4
Plywood <sup>2</sup> .....	08	3	1.5	-0.8	-0.7	-2.6	-4.0	-1.2
Paper <sup>2</sup> .....	09	13	9.3	1.1	0.9	0.4	-0.1	0.5
Paperboard <sup>2</sup> .....	09	14	10.5	0.0	0.1	0.2	0.3	-0.3
Paper boxes and containers <sup>2</sup> .....	09	1503	14.7	2.3	0.3	0.3	0.7	0.2
Building paper and board <sup>2</sup> .....	09	2	-14.3	5.7	-5.7	-2.8	-0.4	-3.4
Commercial printing <sup>2</sup> .....	09	47	15.3	1.1	0.6	0.2	0.5	0.8
Foundry and forge shop products <sup>2</sup> .....	10	15	12.2	-1.4	0.0	-0.4	0.5	-0.8
Steel mill products <sup>2</sup> .....	10	17	-28.7	-4.8	-6.7	-5.5	-3.0	-2.7
Primary nonferrous metals <sup>2</sup> .....	10	22	-7.3	1.6	-4.8	-2.7	7.2	2.6
Secondary nonferrous metals <sup>2</sup> .....	10	24	1.2	2.3	-4.3	-2.3	5.1	0.8
Aluminum mill shapes <sup>2</sup> .....	10	2501	-5.7	-3.5	-1.3	-3.0	-1.9	1.3
Copper and brass mill shapes <sup>2</sup> .....	10	2502	-3.6	0.1	1.1	-4.9	5.4	1.5
Nonferrous wire and cable <sup>2</sup> .....	10	26	6.1	-0.1	-0.4	-0.4	3.2	1.0
Nonferrous foundry shop products.....	10	28	11.4	0.2	1.2	-0.4	1.4	-0.2
Metal containers <sup>2</sup> .....	10	3	18.5	0.1	0.6	-0.2	-0.5	0.0
Hardware <sup>2</sup> .....	10	4	5.6	0.5	0.0	0.2	0.4	0.1
Plumbing fixtures and brass fittings.....	10	5	9.2	-0.2	0.4	0.5	0.3	-0.1
Heating equipment <sup>2</sup> .....	10	6	12.3	0.5	0.2	0.3	2.8	0.3
Fabricated structural metal products.....	10	7	4.7	-0.2	-0.4	0.0	-0.5	0.1
Bolts, nuts, screws, rivets, and washers <sup>2</sup> .....	10	81	16.0	2.7	0.3	-0.7	0.0	0.1
Lighting fixtures <sup>2</sup> .....	10	83	6.9	0.2	0.9	0.1	0.0	0.2
Fabricated ferrous wire products <sup>2</sup> .....	10	88	10.9	0.3	-0.6	1.7	-0.2	0.1
Other miscellaneous metal products <sup>2</sup> .....	10	89	7.1	0.3	0.0	0.3	0.5	-0.1
Fluid power equipment.....	11	43	10.3	0.3	0.6	0.0	0.4	0.2
Mechanical power transmission equipment <sup>2</sup> .....	11	45	15.0	1.7	1.1	0.7	1.5	0.8
Air conditioning and refrigeration equipment <sup>2</sup> .....	11	48	17.7	-0.3	0.5	0.3	-0.9	0.8
Metal valves, except fluid power.....	11	4902	13.6	2.2	0.3	0.5	1.3	0.1
Ball and roller bearings <sup>2</sup> .....	11	4905	7.7	0.0	-1.0	-0.2	0.2	-0.1
Wiring devices <sup>2</sup> .....	11	71	11.8	1.2	0.0	0.0	1.1	0.0
Motors, generators, motor generator sets <sup>2</sup> .....	11	73	13.0	0.9	1.9	0.1	0.0	0.2
Switchgear, switchboard, and industrial controls equip. <sup>2</sup> .....	11	75	21.2	1.9	0.2	0.2	0.3	2.8
Electronic components and accessories.....	11	78	4.0	-0.3	0.4	0.7	0.5	-0.2
Internal combustion engines <sup>2</sup> .....	11	94	7.1	0.9	0.1	0.4	0.0	0.1
Machine shop products <sup>2</sup> .....	11	95	5.1	1.0	0.2	0.5	0.3	0.1
Flat glass <sup>2</sup> .....	13	11	11.0	2.3	0.0	1.5	1.3	0.0
Cement.....	13	22	12.9	1.0	0.8	1.6	0.8	0.3
Concrete products.....	13	3	14.8	1.2	1.0	0.7	1.0	1.0
Asphalt felts and coatings <sup>2</sup> .....	13	6	11.4	0.5	0.7	0.0	0.6	0.4
Paving mixtures and blocks.....	13	94	15.8	0.7	0.1	-0.4	0.0	-2.2
Motor vehicle parts <sup>2</sup> .....	14	12	3.6	0.5	0.2	0.0	-0.1	0.0
Aircraft engines and engine parts.....	14	23	4.4	0.7	0.4	0.1	0.1	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 2022]

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>
Aircraft parts and auxiliary equipment, n.e.c.....	14	25	2.6	0.0	1.2	0.0	0.3	0.1
Medical, surgical, and personal aid devices.....	15	6	4.6	0.3	0.4	0.2	-0.1	0.3
Unprocessed goods for intermediate demand.....	ID6	2	11.7	4.6	-3.0	-10.2	-3.7	3.4
Unprocessed foodstuffs and feedstuffs.....	ID6	21	15.1	-1.6	1.1	-1.5	-0.1	-1.5
Wheat <sup>2</sup> .....	01	21	-5.7	-2.8	9.4	3.8	-3.3	-7.2
Corn.....	01	2202	13.5	4.7	11.8	-8.8	-3.6	-5.8
Slaughter cattle.....	01	31	14.1	4.0	-0.4	-0.4	1.4	1.1
Slaughter hogs.....	01	32	11.1	6.2	-12.3	-13.2	4.1	1.1
Slaughter chickens.....	01	4102	0.4	-9.0	0.4	-4.7	0.5	-10.0
Slaughter turkeys.....	01	42	37.3	1.7	-0.1	5.3	-3.8	7.3
Raw milk.....	01	6	10.1	-7.7	-2.1	2.0	-4.1	-3.9
Hay and hayseeds <sup>2</sup> .....	01	81	28.2	-8.7	5.1	0.5	-15.0	21.4
Oilseeds.....	01	8301	17.4	5.1	5.4	-9.5	4.8	-2.3
Raw cane sugar and byproducts <sup>2</sup> .....	02	5201	14.3	3.3	0.0	1.5	0.4	1.2
Unprocessed nonfood materials.....	ID6	22	10.1	7.5	-4.8	-14.1	-5.6	6.0
Raw cotton <sup>2</sup> .....	01	51	-20.3	4.7	-0.2	-15.2	-4.5	-5.1
Hides and skins.....	04	1	-14.6	-0.9	-0.6	2.9	-9.5	-2.0
Coal.....	05	1	48.7	-2.7	1.6	0.4	-1.2	-6.5
Natural gas <sup>2</sup> .....	05	31	29.1	29.3	-8.0	-35.7	-15.7	45.3
Crude petroleum <sup>2</sup> .....	05	61	4.3	-6.0	-6.5	2.5	-2.6	-14.9
Logs, bolts, timber, pulpwood, and woodchips <sup>2</sup> .....	08	5	4.6	-0.5	-0.2	-0.4	0.0	0.4
Recyclable paper <sup>2</sup> .....	09	12	-61.0	-11.0	-26.1	-31.9	-22.0	14.8
Iron ores.....	10	11	11.9	-0.2	0.5	1.0	0.6	0.6
Iron and steel scrap <sup>2</sup> .....	10	12	-27.7	-8.0	-3.4	-3.4	-3.3	8.3
Nonferrous metal ores <sup>2</sup> .....	10	21	-0.2	3.7	-2.3	-5.4	5.2	1.4
Copper base scrap <sup>2</sup> .....	10	2301	-7.6	3.0	1.2	-2.9	9.2	2.0
Aluminum base scrap.....	10	2302	-14.1	9.7	-3.3	-8.1	0.5	8.8
Construction sand, gravel, and crushed stone.....	13	21	11.8	0.8	0.5	0.3	0.3	0.2
Services for intermediate demand.....	ID6	3	6.4	0.6	0.4	0.4	0.8	0.4
Trade services for intermediate demand <sup>3</sup> .....	ID6	33	9.1	-1.1	-0.1	0.1	1.3	0.6
Machinery and equipment parts and supplies wholesaling <sup>2</sup> .....	57	1102	7.1	-2.8	1.4	0.1	2.1	0.6
Building materials, paint, and hardware wholesaling.....	57	3	8.0	-1.8	-2.1	2.0	-1.0	0.0
Metals, minerals, and ores wholesaling <sup>2</sup> .....	57	4	-11.4	-7.5	-2.7	-0.8	1.7	-0.6
Chemicals and allied products wholesaling <sup>2</sup> .....	57	5	8.7	5.8	-1.3	-1.0	2.5	-0.9
Paper and plastics products wholesaling <sup>2</sup> .....	57	6	23.7	-0.8	3.9	-0.4	0.3	2.6
Food wholesaling <sup>2</sup> .....	57	8101	11.9	1.3	-1.6	2.0	-0.7	1.1
Automotive parts, including tires, retailing <sup>2</sup> .....	58	6102	18.5	0.4	1.3	0.4	2.2	0.7
Hardware, building material, and supplies retailing.....	58	D	3.6	-5.9	-2.0	2.5	1.1	-0.2
Transportation and warehousing services for intermediate demand.....	ID6	32	4.6	-0.4	-0.7	0.7	-1.3	-0.1
Rail transportation of freight and mail <sup>2</sup> .....	30	11	8.4	-0.4	0.1	-0.6	0.6	-0.1
Truck transportation of freight <sup>2</sup> .....	30	12	8.2	-2.2	-0.6	-0.6	0.7	-1.7
Water transportation of freight <sup>2</sup> .....	30	13	28.2	1.8	1.1	0.0	1.5	0.5
Air transportation of freight <sup>2</sup> .....	30	14	-3.0	-1.5	-0.6	-2.6	-2.5	-0.1
U.S. Postal Service.....	30	1601	4.8	0.2	0.1	1.0	0.0	0.2
Courier and messenger services, except air mail.....	30	1602	8.8	0.0	0.4	0.0	0.8	0.0
Air mail and package delivery services, excluding by USPS.....	30	1603	11.9	-1.9	1.0	-0.2	1.2	-2.7
Pipeline transportation <sup>2</sup> .....	30	17	-	0.0	3.0	-0.1	0.0	-1.3
Transportation of passengers (partial).....	30	2	17.1	0.5	-0.3	3.0	-5.1	3.0
Services related to water transportation.....	31	1	3.9	0.3	-0.4	0.1	0.6	0.1
Arrangement of freight and cargo <sup>2</sup> .....	31	31	-25.2	3.8	-12.9	7.2	-14.4	1.6
Warehousing, storage, and related services <sup>2</sup> .....	32	1	3.9	-4.0	2.7	-1.0	0.1	-0.6
Services less trade, transportation, and warehousing for intermediate demand.....	ID6	31	5.8	1.4	0.9	0.5	1.1	0.5
Network compensation from broadcast TV, cable TV, radio <sup>2</sup> .....	35	-	4.4	0.3	0.0	0.0	0.0	0.0
Advertising space sales in periodicals and newspapers <sup>2</sup> .....	36	11	0.7	0.2	-0.7	0.7	-0.4	1.2
Advertising space sales in directories and mail lists <sup>2</sup> .....	36	12	0.1	0.0	0.0	0.0	0.0	0.0
Television advertising time sales.....	36	2	-1.8	-4.1	-1.2	4.5	-1.5	1.6
Radio advertising time sales.....	36	3	-6.0	-1.6	5.0	-3.0	3.0	-2.4
Internet advertising space sales, excluding Internet ads sold by print publishers <sup>2</sup> .....	36	5	12.3	-0.7	0.2	1.7	0.6	0.0
Business wired telecommunication services <sup>2</sup> .....	37	12	1.7	0.4	0.0	-0.1	0.1	0.2
Wireless telecommunication services.....	37	2	2.0	0.5	0.0	0.0	0.4	-0.1
Cable and satellite subscriber services.....	37	3	8.1	0.3	1.1	0.6	1.1	0.6
Bundled wired telecommunication access services <sup>2</sup> .....	37	5	5.5	0.4	1.7	1.2	-0.3	-0.2
Data processing and related services <sup>2</sup> .....	38	1	-1.3	-0.1	-0.2	0.1	0.0	0.0
Business loans (partial).....	39	11	71.1	10.2	8.8	6.0	9.7	1.9

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 2022]

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>
Deposit services (partial) <sup>2</sup> .....	39	2	13.7	-1.2	4.0	-0.2	-0.9	16.4
Other credit intermediation, incl. trust services (partial) <sup>2</sup> .....	39	3	-5.8	-4.8	0.5	0.0	-2.5	0.0
Securities brokerage, dealing, investment advice, and related services <sup>2</sup> .....	40	1	20.7	9.5	-1.8	4.1	10.7	0.4
Portfolio management <sup>2</sup> .....	40	2	-14.1	2.2	1.6	-1.7	1.3	-1.0
Investment banking <sup>2</sup> .....	40	3	-12.1	-5.0	5.8	0.1	-0.5	-2.6
Life insurance <sup>2</sup> .....	41	1101	3.3	0.0	0.0	0.1	0.0	0.0
Health and medical insurance.....	41	1103	1.9	0.2	0.2	0.3	0.2	0.3
Property and casualty insurance <sup>2</sup> .....	41	1104	4.2	0.1	0.4	0.1	0.1	1.2
Annuities <sup>2</sup> .....	41	2	-1.2	0.0	0.5	-0.3	0.0	0.0
Commissions from sales of insurance <sup>2</sup> .....	42	1	0.2	0.0	0.0	0.0	0.0	0.1
Nonresidential real estate rents <sup>2</sup> .....	43	11	4.5	5.2	1.3	-1.7	-0.6	0.9
Nonresidential property sales and leases <sup>2</sup> .....	43	12	4.8	0.2	0.1	0.0	0.5	0.6
Residential property management fees <sup>2</sup> .....	43	22	0.8	0.3	-0.2	0.2	0.6	-1.0
Passenger car rental.....	44	1	-2.5	3.7	-0.7	2.5	-3.7	-0.8
Truck, utility trailer, and RV rental and leasing <sup>2</sup> .....	44	2	3.0	1.6	-0.4	0.2	0.1	-0.8
Construction, mining, and forestry machinery and equipment rental and leasing <sup>2</sup> .....	44	3	6.8	3.0	0.0	0.0	0.1	0.3
Legal services.....	45	1	4.8	0.4	0.8	0.4	0.4	0.2
Accounting services (partial).....	45	2	4.0	2.0	0.6	0.1	-0.6	-0.3
Architectural and engineering services.....	45	3	5.6	0.4	0.1	0.0	0.3	-0.1
Management, scientific, and technical consulting services.....	45	4	0.4	0.0	-0.3	-0.8	0.2	1.0
Advertising and related services (partial) <sup>2</sup> .....	45	5	4.7	-0.1	0.0	0.0	0.1	0.0
Permanent placement services <sup>2</sup> .....	46	1	5.5	-1.0	2.2	0.7	-0.7	0.5
Executive search services <sup>2</sup> .....	46	2	1.9	1.2	-1.1	4.7	-2.4	-0.4
Staffing services.....	46	3	2.8	-0.1	0.1	-0.3	0.2	-0.1
Security guard services <sup>2</sup> .....	48	1	7.4	-0.1	2.5	0.3	0.0	0.0
Janitorial services <sup>2</sup> .....	49	1	4.9	-0.1	0.0	-0.1	0.2	0.2
Waste collection.....	50	1	10.0	0.6	0.5	0.8	0.4	0.5
Traveler accommodation services.....	53	11	4.4	-3.6	2.9	2.8	1.2	-3.4
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	13.1	2.4	1.0	1.1	0.2	0.2
Aircraft repair and maintenance.....	55	4	3.0	0.2	0.1	0.2	0.3	0.7
Metal treatment services <sup>2</sup> .....	59	1	5.9	0.3	0.0	0.5	0.0	-0.7
Construction for intermediate demand.....	ID6	4	7.7	0.1	0.3	0.6	0.0	0.1
Maintenance and repair of non-residential buildings (partial) <sup>2</sup> .....	80	2	7.7	0.1	0.3	0.6	0.0	0.1
<b>Intermediate Demand by Production Flow</b>								
Stage 4 intermediate demand.....	ID5	4	6.0	0.3	0.4	0.1	0.4	-0.3
Stage 4 intermediate demand goods.....	ID5	9411	6.5	0.0	0.1	-0.1	-0.3	-0.9
Grains.....	01	2	8.8	3.2	10.5	-5.8	-3.3	-5.9
Meats.....	02	21	-1.1	0.3	-0.6	-0.5	2.4	1.4
Unprocessed and packaged fish.....	02	23	-12.9	1.9	1.7	-0.5	-2.2	-1.8
Dairy products.....	02	3	12.7	-1.9	-1.4	0.2	-0.6	-0.3
Commercial electric power.....	05	42	13.2	2.3	0.4	-0.7	-1.1	1.0
Industrial electric power.....	05	43	11.0	1.1	2.4	-0.7	-2.9	2.0
Gasoline.....	05	71	-5.9	-12.1	-1.5	5.2	-6.3	-13.4
No. 2 diesel fuel.....	05	7303	20.4	-10.5	7.7	10.1	-4.6	-27.0
Basic organic chemicals.....	06	14	-6.0	-6.2	-2.5	-1.9	-1.4	-3.8
Prepared paint <sup>2</sup> .....	06	21	20.7	0.3	0.8	0.4	0.1	0.4
Medicinal and botanical chemicals <sup>2</sup> .....	06	31	1.9	0.1	0.3	-0.1	0.4	0.0
Biological products, including diagnostics.....	06	37	2.4	0.5	0.3	0.2	0.3	-0.5
Pharmaceutical preparations.....	06	38	2.3	0.3	0.3	0.2	0.1	0.2
Plastic construction products <sup>2</sup> .....	07	21	8.3	0.3	-0.4	-0.8	-0.5	-0.7
Unsupported plastic film, sheet, and other shapes <sup>2</sup> .....	07	22	6.8	1.4	-1.1	-0.5	0.4	-0.2
Parts for manufacturing from plastics <sup>2</sup> .....	07	26	6.1	0.5	0.4	0.2	-0.3	0.2
Plastic packaging products <sup>2</sup> .....	07	2A	6.3	1.9	0.1	-1.7	-0.5	-0.2
Lumber.....	08	1	-24.6	-5.1	-3.8	-3.1	-2.6	-5.7
Millwork.....	08	2	7.5	1.3	-1.1	-0.4	-1.1	-0.4
Paper boxes and containers <sup>2</sup> .....	09	1503	14.7	2.3	0.3	0.3	0.7	0.2
Commercial printing <sup>2</sup> .....	09	47	15.3	1.1	0.6	0.2	0.5	0.8
Steel mill products <sup>2</sup> .....	10	17	-28.7	-4.8	-6.7	-5.5	-3.0	-2.7
Nonferrous wire and cable <sup>2</sup> .....	10	26	6.1	-0.1	-0.4	-0.4	3.2	1.0
Fabricated structural metal products.....	10	7	4.7	-0.2	-0.4	0.0	-0.5	0.1
Other miscellaneous metal products <sup>2</sup> .....	10	89	7.1	0.3	0.0	0.3	0.5	-0.1
Air conditioning and refrigeration equipment <sup>2</sup> .....	11	48	17.7	-0.3	0.5	0.3	-0.9	0.8
Wiring devices <sup>2</sup> .....	11	71	11.8	1.2	0.0	0.0	1.1	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 2022]

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. 2021 to Dec. 2022 <sup>P</sup>	July to Aug.	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>	Oct. to Nov. <sup>P</sup>
Electronic components and accessories.....	11	78	4.0	-0.3	0.4	0.7	0.5	-0.2
Miscellaneous electrical machinery and equipment <sup>2</sup> .....	11	79	7.3	0.9	0.3	0.1	0.3	0.3
Internal combustion engines <sup>2</sup> .....	11	94	7.1	0.9	0.1	0.4	0.0	0.1
Machine shop products <sup>2</sup> .....	11	95	5.1	1.0	0.2	0.5	0.3	0.1
Concrete ingredients and related products.....	13	2	12.1	0.9	0.5	0.6	0.5	0.3
Concrete products.....	13	3	14.8	1.2	1.0	0.7	1.0	1.0
Prepared asphalt, tar roofing and siding products <sup>2</sup> .....	13	61	11.7	0.2	0.8	0.0	0.7	0.4
Paving mixtures and blocks.....	13	94	15.8	0.7	0.1	-0.4	0.0	-2.2
Motor vehicle parts <sup>2</sup> .....	14	12	3.6	0.5	0.2	0.0	-0.1	0.0
Aircraft engines and engine parts.....	14	23	4.4	0.7	0.4	0.1	0.1	0.4
Aircraft parts and auxiliary equipment, n.e.c.....	14	25	2.6	0.0	1.2	0.0	0.3	0.1
Medical, surgical and personal aid devices.....	15	6	4.6	0.3	0.4	0.2	-0.1	0.3
Stage 4 intermediate demand services.....	ID5	9412	5.6	0.6	0.6	0.2	1.0	0.3
Truck transportation of freight <sup>2</sup> .....	30	12	8.2	-2.2	-0.6	-0.6	0.7	-1.7
Courier, messenger, and U.S. postal services.....	30	16	7.6	-0.3	0.4	0.4	0.5	-0.4
Airline passenger services.....	30	22	17.3	0.5	-0.3	3.0	-5.2	3.1
Warehousing, storage, and related services <sup>2</sup> .....	32	1	3.9	-4.0	2.7	-1.0	0.1	-0.6
Advertising space sales in periodicals and newspapers <sup>2</sup> .....	36	11	0.7	0.2	-0.7	0.7	-0.4	1.2
Data processing and related services <sup>2</sup> .....	38	1	-1.3	-0.1	-0.2	0.1	0.0	0.0
Business loans (partial).....	39	11	71.1	10.2	8.8	6.0	9.7	1.9
Deposit services (partial) <sup>2</sup> .....	39	2	13.7	-1.2	4.0	-0.2	-0.9	16.4
Securities brokerage, dealing, investment advice, and related services <sup>2</sup> .....	40	1	20.7	9.5	-1.8	4.1	10.7	0.4
Portfolio management <sup>2</sup> .....	40	2	-14.1	2.2	1.6	-1.7	1.3	-1.0
Investment banking <sup>2</sup> .....	40	3	-12.1	-5.0	5.8	0.1	-0.5	-2.6
Insurance.....	41	11	3.2	0.2	0.3	0.2	0.1	0.7
Annuities <sup>2</sup> .....	41	2	-1.2	0.0	0.5	-0.3	0.0	0.0
Nonresidential real estate rents <sup>2</sup> .....	43	11	4.5	5.2	1.3	-1.7	-0.6	0.9
Nonresidential property sales and leases <sup>2</sup> .....	43	12	4.8	0.2	0.1	0.0	0.5	0.6
Nonresidential property management fees <sup>2</sup> .....	43	13	8.9	-2.0	0.7	4.3	0.1	0.4
Residential property management fees <sup>2</sup> .....	43	22	0.8	0.3	-0.2	0.2	0.6	-1.0
Construction, mining, and forestry machinery and equipment rental and leasing <sup>2</sup> .....	44	3	6.8	3.0	0.0	0.0	0.1	0.3
Legal services.....	45	1	4.8	0.4	0.8	0.4	0.4	0.2
Advertising agency services <sup>2</sup> .....	45	51	4.7	-0.1	0.0	0.0	0.1	0.0
Accounting services (partial).....	45	2	4.0	2.0	0.6	0.1	-0.6	-0.3
Architectural and engineering services.....	45	3	5.6	0.4	0.1	0.0	0.3	-0.1
Management, scientific, and technical consulting services.....	45	4	0.4	0.0	-0.3	-0.8	0.2	1.0
Staffing services.....	46	3	2.8	-0.1	0.1	-0.3	0.2	-0.1
Janitorial services <sup>2</sup> .....	49	1	4.9	-0.1	0.0	-0.1	0.2	0.2
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	13.1	2.4	1.0	1.1	0.2	0.2
Machinery and equipment parts and supplies wholesaling <sup>2</sup> .....	57	1102	7.1	-2.8	1.4	0.1	2.1	0.6
Building materials, paint, and hardware wholesaling.....	57	3	8.0	-1.8	-2.1	2.0	-1.0	0.0
Metals, minerals, and ores wholesaling <sup>2</sup> .....	57	4	-11.4	-7.5	-2.7	-0.8	1.7	-0.6
Chemicals and allied products wholesaling <sup>2</sup> .....	57	5	8.7	5.8	-1.3	-1.0	2.5	-0.9
Paper and plastics products wholesaling <sup>2</sup> .....	57	6	23.7	-0.8	3.9	-0.4	0.3	2.6
Food and alcohol wholesaling <sup>2</sup> .....	57	8	12.2	1.3	-1.1	1.9	-0.4	0.7
Hardware and building materials and supplies retailing.....	58	D	3.6	-5.9	-2.0	2.5	1.1	-0.2
Metal treatment services <sup>2</sup> .....	59	1	5.9	0.3	0.0	0.5	0.0	-0.7
Stage 3 intermediate demand.....	ID5	3	4.9	-1.6	-0.1	-0.1	-0.5	-2.1
Stage 3 intermediate demand goods.....	ID5	9311	4.3	-3.1	-0.2	-0.6	-1.4	-4.5
Slaughter cattle.....	01	31	14.1	4.0	-0.4	-0.4	1.4	1.1
Slaughter hogs.....	01	32	11.1	6.2	-12.3	-13.2	4.1	1.1
Slaughter poultry.....	01	4	6.3	-7.2	0.3	-3.0	-0.3	-6.7
Raw milk.....	01	6	10.1	-7.7	-2.1	2.0	-4.1	-3.9
Commercial electric power.....	05	42	13.2	2.3	0.4	-0.7	-1.1	1.0
Industrial electric power.....	05	43	11.0	1.1	2.4	-0.7	-2.9	2.0
Gasoline.....	05	71	-5.9	-12.1	-1.5	5.2	-6.3	-13.4
Jet fuel <sup>2</sup> .....	05	7203	35.4	-11.1	1.9	0.9	-2.3	-17.7
No. 2 diesel fuel.....	05	7303	20.4	-10.5	7.7	10.1	-4.6	-27.0
Finished lubricants <sup>2</sup> .....	05	76	23.0	0.8	2.7	1.5	0.3	-0.1
Lubricating oil base stocks <sup>2</sup> .....	05	78	25.1	-0.7	-5.4	-2.6	-4.1	-3.8
Asphalt.....	05	8102	-24.5	-6.2	-6.9	-1.1	-4.8	-33.2
Basic inorganic chemicals <sup>2</sup> .....	06	13	28.9	0.2	1.1	1.7	1.4	0.2
Basic organic chemicals.....	06	14	-6.0	-6.2	-2.5	-1.9	-1.4	-3.8
Paints and allied products <sup>2</sup> .....	06	2	20.9	1.0	1.1	-0.1	1.3	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 2022]

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>
Agricultural chemicals and chemical products.....	06	5	16.7	2.7	1.4	1.2	-0.4	0.4
Plastic resins and materials.....	06	6	-10.6	-3.9	-0.5	-3.1	-3.2	-0.6
Synthetic rubber <sup>2</sup> .....	07	1102	1.0	0.1	-0.4	-1.7	-3.6	-4.5
Unsupported plastic film, sheet, and other shapes <sup>2</sup> .....	07	22	6.8	1.4	-1.1	-0.5	0.4	-0.2
Paper <sup>2</sup> .....	09	13	9.3	1.1	0.9	0.4	-0.1	0.5
Paperboard <sup>2</sup> .....	09	14	10.5	0.0	0.1	0.2	0.3	-0.3
Converted paper and paperboard products <sup>2</sup> .....	09	15	13.8	1.2	0.5	0.7	1.1	0.3
Commercial printing <sup>2</sup> .....	09	47	15.3	1.1	0.6	0.2	0.5	0.8
Foundry and forge shop products <sup>2</sup> .....	10	15	12.2	-1.4	0.0	-0.4	0.5	-0.8
Steel mill products <sup>2</sup> .....	10	17	-28.7	-4.8	-6.7	-5.5	-3.0	-2.7
Nonferrous mill shapes <sup>2</sup> .....	10	25	-2.8	-2.2	-0.5	-3.5	0.3	1.2
Nonferrous foundry shop products.....	10	28	11.4	0.2	1.2	-0.4	1.4	-0.2
Metal containers <sup>2</sup> .....	10	3	18.5	0.1	0.6	-0.2	-0.5	0.0
Structural, architectural, and pre-engineered metal products.....	10	74	2.2	-0.9	-0.8	-0.9	-1.0	-0.2
Bolts, nuts, screws, rivets, and washers <sup>2</sup> .....	10	81	16.0	2.7	0.3	-0.7	0.0	0.1
Other miscellaneous metal products <sup>2</sup> .....	10	89	7.1	0.3	0.0	0.3	0.5	-0.1
General purpose machinery and equipment.....	11	4	12.8	0.6	0.4	0.4	0.6	0.4
Electrical machinery and equipment.....	11	7	7.0	0.4	0.3	0.2	0.4	0.4
Construction sand, gravel, and crushed stone.....	13	21	11.8	0.8	0.5	0.3	0.3	0.2
Cement.....	13	22	12.9	1.0	0.8	1.6	0.8	0.3
Motor vehicle parts <sup>2</sup> .....	14	12	3.6	0.5	0.2	0.0	-0.1	0.0
Aircraft and aircraft equipment.....	14	2	4.4	0.3	0.4	0.2	0.2	0.3
Stage 3 intermediate demand services.....	ID5	9312	5.6	0.1	0.0	0.5	0.4	0.3
Rail transportation of freight and mail <sup>2</sup> .....	30	11	8.4	-0.4	0.1	-0.6	0.6	-0.1
Courier, messenger, and U.S. postal services.....	30	16	7.6	-0.3	0.4	0.4	0.5	-0.4
Arrangement of freight and cargo <sup>2</sup> .....	31	31	-25.2	3.8	-12.9	7.2	-14.4	1.6
Freight forwarding <sup>2</sup> .....	31	3201	-1.2	-0.2	-0.1	0.0	-3.4	0.0
Warehousing, storage, and related services <sup>2</sup> .....	32	1	3.9	-4.0	2.7	-1.0	0.1	-0.6
Advertising space sales in periodicals, newspapers, directories, and mailing lists <sup>2</sup> .....	36	1	0.6	0.2	-0.5	0.6	-0.3	1.0
Wired telephone services <sup>2</sup> .....	37	1	2.2	0.4	0.7	0.1	0.1	0.1
Bundled wired telecommunications access services <sup>2</sup> .....	37	5	5.5	0.4	1.7	1.2	-0.3	-0.2
Data processing and related services <sup>2</sup> .....	38	1	-1.3	-0.1	-0.2	0.1	0.0	0.0
Business loans (partial).....	39	11	71.1	10.2	8.8	6.0	9.7	1.9
Deposit services (partial) <sup>2</sup> .....	39	2	13.7	-1.2	4.0	-0.2	-0.9	16.4
Securities brokerage, dealing, investment advice, and related services <sup>2</sup> .....	40	1	20.7	9.5	-1.8	4.1	10.7	0.4
Insurance.....	41	11	3.2	0.2	0.3	0.2	0.1	0.7
Nonresidential real estate rents <sup>2</sup> .....	43	11	4.5	5.2	1.3	-1.7	-0.6	0.9
Legal services.....	45	1	4.8	0.4	0.8	0.4	0.4	0.2
Accounting services (partial).....	45	2	4.0	2.0	0.6	0.1	-0.6	-0.3
Architectural and engineering services.....	45	3	5.6	0.4	0.1	0.0	0.3	-0.1
Management, scientific, and technical consulting services.....	45	4	0.4	0.0	-0.3	-0.8	0.2	1.0
Advertising agency services <sup>2</sup> .....	45	51	4.7	-0.1	0.0	0.0	0.1	0.0
Staffing services.....	46	3	2.8	-0.1	0.1	-0.3	0.2	-0.1
Aircraft repair maintenance.....	55	4	3.0	0.2	0.1	0.2	0.3	0.7
Machinery and equipment parts and supplies wholesaling <sup>2</sup> .....	57	1102	7.1	-2.8	1.4	0.1	2.1	0.6
Building materials, paint, and hardware wholesaling.....	57	3	8.0	-1.8	-2.1	2.0	-1.0	0.0
Metals, minerals, and ores wholesaling <sup>2</sup> .....	57	4	-11.4	-7.5	-2.7	-0.8	1.7	-0.6
Chemicals and allied products wholesaling <sup>2</sup> .....	57	5	8.7	5.8	-1.3	-1.0	2.5	-0.9
Paper and plastics products wholesaling <sup>2</sup> .....	57	6	23.7	-0.8	3.9	-0.4	0.3	2.6
Food wholesaling <sup>2</sup> .....	57	8101	11.9	1.3	-1.6	2.0	-0.7	1.1
Metal treatment services <sup>2</sup> .....	59	1	5.9	0.3	0.0	0.5	0.0	-0.7
Stage 2 intermediate demand.....	ID5	2	8.7	3.1	-1.8	-4.7	-1.3	2.2
Stage 2 intermediate demand goods.....	ID5	9211	9.2	4.7	-3.9	-9.9	-3.3	3.5
Corn.....	01	2202	13.5	4.7	11.8	-8.8	-3.6	-5.8
Oilseeds.....	01	83	17.4	5.1	5.4	-9.5	4.8	-2.3
Prepared animal feeds <sup>2</sup> .....	02	9	14.1	1.0	0.2	-1.7	0.6	-0.4
Coal.....	05	1	48.7	-2.7	1.6	0.4	-1.2	-6.5
Natural gas <sup>2</sup> .....	05	31	29.1	29.3	-8.0	-35.7	-15.7	45.3
Liquefied petroleum gas <sup>2</sup> .....	05	32	-10.1	-4.2	-14.5	-14.0	12.4	-12.9
Crude petroleum <sup>2</sup> .....	05	61	4.3	-6.0	-6.5	2.5	-2.6	-14.9
No. 2 diesel fuel.....	05	7303	20.4	-10.5	7.7	10.1	-4.6	-27.0
Industrial chemicals.....	06	1	-1.6	-5.3	-2.0	-1.3	-0.9	-3.2
Plastic resins and materials.....	06	6	-10.6	-3.9	-0.5	-3.1	-3.2	-0.6
Plastic products <sup>2</sup> .....	07	2	7.6	0.9	-0.3	-0.8	-0.2	0.0
Logs, bolts, timber, pulpwood, and wood chips <sup>2</sup> .....	08	5	4.6	-0.5	-0.2	-0.4	0.0	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 2022]

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. 2021 to Dec. 2022 <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	9.3	1.1	0.9	0.4	-0.1	0.5
Paperboard, excluding corrugated paperboard <sup>2</sup> .....	09	1411	10.7	-0.1	0.1	0.3	0.3	-0.4
Commercial printing <sup>2</sup> .....	09	47	15.3	1.1	0.6	0.2	0.5	0.8
Iron and steel scrap <sup>2</sup> .....	10	12	-27.7	-8.0	-3.4	-3.4	-3.3	8.3
Steel mill products <sup>2</sup> .....	10	17	-28.7	-4.8	-6.7	-5.5	-3.0	-2.7
Nonferrous mill shapes <sup>2</sup> .....	10	25	-2.8	-2.2	-0.5	-3.5	0.3	1.2
Electrical machinery and equipment.....	11	7	7.0	0.4	0.3	0.2	0.4	0.4
Electronic components and accessories.....	11	78	4.0	-0.3	0.4	0.7	0.5	-0.2
Stage 2 intermediate demand services.....	ID5	9212	8.3	1.3	0.5	0.8	0.6	1.1
Rail transportation of freight and mail <sup>2</sup> .....	30	11	8.4	-0.4	0.1	-0.6	0.6	-0.1
Truck transportation of freight <sup>2</sup> .....	30	12	8.2	-2.2	-0.6	-0.6	0.7	-1.7
U.S. Postal Service.....	30	1601	4.8	0.2	0.1	1.0	0.0	0.2
Courier and messenger services, except air.....	30	1602	8.8	0.0	0.4	0.0	0.8	0.0
Air mail and package delivery services, excluding by USPS.....	30	1603	11.9	-1.9	1.0	-0.2	1.2	-2.7
Pipeline transportation <sup>2</sup> .....	30	17	-	0.0	3.0	-0.1	0.0	-1.3
Airline passenger services.....	30	22	17.3	0.5	-0.3	3.0	-5.2	3.1
Arrangement of freight and cargo <sup>2</sup> .....	31	31	-25.2	3.8	-12.9	7.2	-14.4	1.6
Television advertising time sales.....	36	21	-1.8	-4.1	-1.2	4.5	-1.5	1.6
Wireless telecommunication services.....	37	2	2.0	0.5	0.0	0.0	0.4	-0.1
Data processing and related services <sup>2</sup> .....	38	1	-1.3	-0.1	-0.2	0.1	0.0	0.0
Securities brokerage, dealing, investment advice, and related services <sup>2</sup> .....	40	1	20.7	9.5	-1.8	4.1	10.7	0.4
Portfolio management <sup>2</sup> .....	40	2	-14.1	2.2	1.6	-1.7	1.3	-1.0
Investment banking <sup>2</sup> .....	40	31	-12.1	-5.0	5.8	0.1	-0.5	-2.6
Insurance.....	41	11	3.2	0.2	0.3	0.2	0.1	0.7
Commissions from sales of insurance <sup>2</sup> .....	42	11	0.2	0.0	0.0	0.0	0.0	0.1
Legal services.....	45	1	4.8	0.4	0.8	0.4	0.4	0.2
Accounting services (partial).....	45	2	4.0	2.0	0.6	0.1	-0.6	-0.3
Management, scientific, and technical consulting services.....	45	4	0.4	0.0	-0.3	-0.8	0.2	1.0
Advertising agency services <sup>2</sup> .....	45	51	4.7	-0.1	0.0	0.0	0.1	0.0
Staffing services.....	46	3	2.8	-0.1	0.1	-0.3	0.2	-0.1
Security guard services <sup>2</sup> .....	48	1	7.4	-0.1	2.5	0.3	0.0	0.0
Janitorial services <sup>2</sup> .....	49	1	4.9	-0.1	0.0	-0.1	0.2	0.2
Traveler accommodation services.....	53	1	4.4	-3.6	2.9	2.8	1.2	-3.4
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	13.1	2.4	1.0	1.1	0.2	0.2
Hardware and building materials and supplies retailing.....	58	D	3.6	-5.9	-2.0	2.5	1.1	-0.2
Stage 1 intermediate demand.....	ID5	1	5.5	-0.6	0.3	0.1	-0.1	-1.7
Stage 1 intermediate demand goods.....	ID5	9111	5.0	-1.4	0.4	-0.2	-1.1	-3.2
Prepared animal feeds <sup>2</sup> .....	02	9	14.1	1.0	0.2	-1.7	0.6	-0.4
Commercial electric power.....	05	42	13.2	2.3	0.4	-0.7	-1.1	1.0
Industrial electric power.....	05	43	11.0	1.1	2.4	-0.7	-2.9	2.0
Commercial natural gas.....	05	52	21.9	3.3	3.0	-3.9	-5.7	3.1
Industrial natural gas.....	05	53	19.6	10.1	2.2	-9.4	-4.5	3.0
Gasoline.....	05	71	-5.9	-12.1	-1.5	5.2	-6.3	-13.4
No. 2 diesel fuel.....	05	7303	20.4	-10.5	7.7	10.1	-4.6	-27.0
Industrial chemicals.....	06	1	-1.6	-5.3	-2.0	-1.3	-0.9	-3.2
Prepared paint <sup>2</sup> .....	06	21	20.7	0.3	0.8	0.4	0.1	0.4
Plastic construction products <sup>2</sup> .....	07	21	8.3	0.3	-0.4	-0.8	-0.5	-0.7
Recyclable paper <sup>2</sup> .....	09	12	-61.0	-11.0	-26.1	-31.9	-22.0	14.8
Paper <sup>2</sup> .....	09	13	9.3	1.1	0.9	0.4	-0.1	0.5
Converted paper and paperboard products <sup>2</sup> .....	09	15	13.8	1.2	0.5	0.7	1.1	0.3
Iron and steel scrap <sup>2</sup> .....	10	12	-27.7	-8.0	-3.4	-3.4	-3.3	8.3
Steel mill products <sup>2</sup> .....	10	17	-28.7	-4.8	-6.7	-5.5	-3.0	-2.7
Primary nonferrous metals <sup>2</sup> .....	10	22	-7.3	1.6	-4.8	-2.7	7.2	2.6
Nonferrous scrap.....	10	23	-3.9	5.4	-1.5	-4.6	1.7	2.1
Nonferrous wire and cable <sup>2</sup> .....	10	26	6.1	-0.1	-0.4	-0.4	3.2	1.0
Fabricated structural metal products.....	10	7	4.7	-0.2	-0.4	0.0	-0.5	0.1
General purpose machinery and equipment.....	11	4	12.8	0.6	0.4	0.4	0.6	0.4
Construction sand, gravel, and crushed stone.....	13	21	11.8	0.8	0.5	0.3	0.3	0.2
Stage 1 intermediate demand services.....	ID5	9112	5.9	0.4	0.2	0.4	0.9	0.0
Truck transportation of freight <sup>2</sup> .....	30	12	8.2	-2.2	-0.6	-0.6	0.7	-1.7
Airline passenger services.....	30	22	17.3	0.5	-0.3	3.0	-5.2	3.1
Advertising space sales in periodicals, newspapers, directories, and mailing lists <sup>2</sup> .....	36	1	0.6	0.2	-0.5	0.6	-0.3	1.0
Business wired telecommunication services <sup>2</sup> .....	37	12	1.7	0.4	0.0	-0.1	0.1	0.2
Wireless telecommunication services.....	37	2	2.0	0.5	0.0	0.0	0.4	-0.1

See footnotes at end of table.

**Table 2. Producer price index percentage changes for selected commodity groupings by Final Demand-Intermediate Demand category, seasonally adjusted — Continued**  
 [December 2022]

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. 2021 to Dec. 2022 <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	5.5	0.4	1.7	1.2	-0.3	-0.2
Business loans (partial).....	39	11	71.1	10.2	8.8	6.0	9.7	1.9
Deposit services (partial) <sup>2</sup> .....	39	2	13.7	-1.2	4.0	-0.2	-0.9	16.4
Securities brokerage, dealing, investment advice, and related services <sup>2</sup> .....	40	1	20.7	9.5	-1.8	4.1	10.7	0.4
Portfolio management <sup>2</sup> .....	40	2	-14.1	2.2	1.6	-1.7	1.3	-1.0
Investment banking <sup>2</sup> .....	40	3	-12.1	-5.0	5.8	0.1	-0.5	-2.6
Insurance.....	41	11	3.2	0.2	0.3	0.2	0.1	0.7
Nonresidential real estate rents <sup>2</sup> .....	43	11	4.5	5.2	1.3	-1.7	-0.6	0.9
Architectural and engineering services.....	45	3	5.6	0.4	0.1	0.0	0.3	-0.1
Management consulting services.....	45	41	0.4	0.0	-0.3	-0.8	0.2	1.0
Waste collection.....	50	1	10.0	0.6	0.5	0.8	0.4	0.5
Traveler accommodation services.....	53	11	4.4	-3.6	2.9	2.8	1.2	-3.4
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	13.1	2.4	1.0	1.1	0.2	0.2
Machinery and equipment parts and supplies wholesaling <sup>2</sup> .....	57	1102	7.1	-2.8	1.4	0.1	2.1	0.6
Building materials, paint, and hardware wholesaling.....	57	3	8.0	-1.8	-2.1	2.0	-1.0	0.0
Metals, minerals, and ores wholesaling <sup>2</sup> .....	57	4	-11.4	-7.5	-2.7	-0.8	1.7	-0.6
Chemicals and allied products wholesaling <sup>2</sup> .....	57	5	8.7	5.8	-1.3	-1.0	2.5	-0.9
Paper and plastics products wholesaling <sup>2</sup> .....	57	6	23.7	-0.8	3.9	-0.4	0.3	2.6
Hardware and building materials and supplies retailing.....	58	D	3.6	-5.9	-2.0	2.5	1.1	-0.2
Mining services <sup>2</sup> .....	60	1	11.0	0.9	2.4	0.2	0.4	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 2022, 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. 2022	Sept. 2022 <sup>p</sup>	Oct. 2022 <sup>p</sup>	Nov. 2022 <sup>p</sup>	Dec. 2022 <sup>p</sup>
<b>Final Demand</b>								
Final demand.....		FD	4	139.726	140.140	140.670	140.904	140.206
Final demand goods.....		FD	41	143.426	143.894	144.776	144.924	142.535
Final demand foods.....		FD	411	149.905	152.134	153.258	158.345	156.494
Finished consumer foods <sup>2</sup> .....	00/82	FD	4111	261.415	264.965	268.522	278.454	275.633
Finished consumer foods, crude.....	00/82	FD	41113	273.860	305.171	352.861	427.128	419.835
Finished consumer foods, processed.....	00/82	FD	41112	260.650	261.225	260.048	263.088	260.742
Government purchased foods.....		FD	4112	152.327	152.666	152.936	154.782	154.279
Foods for export.....		FD	4113	160.254	164.513	161.438	165.299	161.487
Final demand energy.....		FD	412	154.884	155.415	159.307	154.189	141.988
Finished consumer energy goods <sup>2</sup> .....	00/82	FD	4121	235.290	234.814	241.277	233.483	218.742
Government purchased energy.....		FD	4122	179.378	184.419	189.678	183.257	158.287
Energy for export.....		FD	4123	170.118	171.687	170.196	165.715	144.852
Final demand goods less foods and energy.....		FD	413	138.304	138.298	138.244	138.647	138.971
Finished goods less foods and energy <sup>2</sup> .....	00/82	FD	4131	239.644	240.323	240.924	242.041	242.807
Finished consumer goods less foods and energy.....	00/82	FD	41311	266.975	267.672	268.130	269.649	270.350
Nondurable consumer goods less foods and energy.....	00/82	FD	413111	343.396	344.539	345.554	348.168	348.761
Durable consumer goods.....	00/82	FD	413112	188.008	188.268	188.189	188.639	189.422
Private capital equipment.....	00/82	FD	41312	205.171	205.805	206.504	207.221	208.009
Private capital equipment for manufacturing industries.....	00/82	FD	413121	218.333	219.174	219.832	220.850	221.747
Private capital equipment for nonmanufacturing industries.....	00/82	FD	413122	201.222	201.799	202.508	203.142	203.900
Government purchased goods, excluding foods and energy.....		FD	4132	135.746	135.590	135.566	135.829	135.927
Government purchased goods excluding foods, energy, and capital equipment.....		FD	41321	146.068	145.866	145.725	145.977	145.835
Government purchased capital equipment.....		FD	41322	120.841	120.745	120.869	121.142	121.542
Goods for export, excluding foods and energy.....		FD	4133	137.814	137.167	136.402	136.427	136.619
Final demand services.....		FD	42	136.878	137.265	137.520	137.800	137.943
Final demand trade services <sup>3</sup> .....		FD	423	151.409	151.176	151.353	151.406	151.824
Trade of finished goods <sup>2</sup> .....		FD	4231	150.490	150.065	150.337	149.997	150.523
Trade of personal consumption goods.....		FD	42311	150.376	149.592	150.261	149.434	150.311
Trade of private capital equipment.....		FD	42312	149.316	150.473	149.006	150.803	149.781
Trade of government purchased goods.....		FD	4232	157.188	158.458	157.932	160.319	159.957
Trade of government purchased goods, excluding capital equipment.....		FD	42321	162.269	163.159	162.872	164.876	164.986
Trade of government purchased capital equipment.....		FD	42322	148.020	149.853	148.971	151.915	150.841
Trade of exports.....		FD	4233	158.019	158.924	158.514	161.176	160.927
Final demand transportation and warehousing services.....		FD	422	157.194	156.763	157.424	156.026	155.746
Transportation of passengers for final demand.....		FD	4221	134.812	134.468	138.479	131.369	135.338
Transportation of private passengers.....		FD	42211	134.817	134.473	138.473	131.381	135.339
Transportation of government passengers.....		FD	42212	134.611	134.267	138.221	131.207	135.119
Transportation of passengers for export.....		FD	42213	134.799	134.456	138.513	131.324	135.340
Transportation and warehousing of goods for final demand.....		FD	4222	165.140	164.676	163.866	164.980	162.847
Transportation and warehousing of finished goods <sup>2</sup> .....		FD	42221	164.286	163.699	162.864	163.975	161.790
Transportation and warehousing of personal consumption goods.....		FD	422211	164.389	163.836	163.042	164.141	161.982
Transportation and warehousing of private capital equipment.....		FD	422212	163.880	163.154	162.155	163.316	161.025
Transportation and warehousing of government purchased goods.....		FD	42222	160.733	160.749	160.046	160.948	159.197
Transportation and warehousing of exports.....		FD	42223	169.274	168.992	168.210	169.390	167.279
Final demand services less trade, transportation, and warehousing.....		FD	421	128.282	129.036	129.286	129.835	129.894
Finished services less trade, transportation, and warehousing <sup>2</sup> .....		FD	4211	128.832	129.581	129.838	130.311	130.328
Finished consumer services less trade, transportation, and warehousing.....		FD	42111	128.034	128.735	129.054	129.608	129.604
Private capital investment services less trade, transportation, and warehousing.....		FD	42112	136.216	137.382	137.102	136.864	137.063
Government purchased services less trade, transportation, and warehousing.....		FD	4212	120.049	120.558	120.622	120.876	121.078
Gov. purchased services less trade, transportation, and warehousing, excl. capital investment.....		FD	42121	120.534	121.037	121.133	121.439	121.635
Government purchased capital investment services less trade, transportation, and warehousing.....		FD	42122	107.742	108.355	107.786	106.965	107.279
Services for export less trade, transportation, and warehousing.....		FD	4213	130.530	131.636	131.994	133.975	134.482
Final demand construction.....		FD	43	168.309	168.667	173.191	173.321	173.392
Construction for private capital investment.....		FD	431	172.298	172.612	177.324	177.506	177.629
Construction for government.....		FD	432	160.853	161.292	165.471	165.506	165.484
<b>Final Demand Special Groupings</b>								
Final demand less exports.....	04/10	FD	49101	137.111	137.540	138.234	138.382	137.700
Final demand less government.....	04/10	FD	49102	137.638	138.012	138.505	138.777	138.248
Final demand less foods, food and nonalcoholic beverages for immediate consumption, and energy <sup>1</sup> .....	04/10	FD	49103	136.671	136.929	137.211	137.536	137.729
Final demand less foods and energy <sup>4</sup> .....	04/10	FD	49104	136.366	136.655	136.907	137.211	137.395
Final demand less foods and food and nonalcoholic beverages for immediate consumption <sup>4</sup> .....	04/10	FD	49105	137.495	137.771	138.299	138.251	137.593

See footnotes at end of table.

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

[December 2022, 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. 2022	Sept. 2022 <sup>P</sup>	Oct. 2022 <sup>P</sup>	Nov. 2022 <sup>P</sup>	Dec. 2022 <sup>P</sup>
Final demand less foods <sup>4</sup> .....	04/10	FD	49106	137.101	137.404	137.892	137.843	137.221
Final demand less energy.....	04/10	FD	49107	136.876	137.276	137.578	138.159	138.225
Final demand less trade services.....	01/10	FD	49108	135.442	136.004	136.612	136.885	135.927
Final demand less distributive services <sup>5</sup> .....	01/10	FD	49109	134.346	134.946	135.606	135.849	134.933
Final demand goods less energy.....	01/10	FD	49111	139.438	139.886	140.070	141.418	141.299
Final demand goods less foods.....	04/10	FD	49112	138.856	138.969	139.783	138.964	136.527
Final demand services less trade services.....	04/10	FD	49113	129.851	130.493	130.778	131.149	131.176
Final demand distributive services <sup>5</sup> .....	04/10	FD	49114	150.393	150.135	150.183	150.371	150.454
Final demand goods plus final demand distributive services <sup>5</sup> .....	04/10	FD	49115	144.277	144.450	144.988	145.150	143.777
Final demand less foods, energy, and trade services <sup>4</sup> .....	08/13	FD	49116	124.858	125.266	125.524	125.876	125.989
Private and government purchased capital equipment.....	08/13	FD	49117	123.951	124.268	124.650	125.062	125.529
Private and government purchased capital investment services.....	08/13	FD	49118	131.643	132.642	131.880	132.587	132.157
Total private and government purchased capital investment.....	08/13	FD	49119	131.124	131.769	131.976	132.502	132.602
Total finished <sup>2</sup> .....	01/10	FD	49201	137.862	138.256	138.937	139.129	138.630
Total finished less foods, food and nonalcoholic beverages for immediate consumption, and energy <sup>2, 4</sup> .....	12/10	FD	49202	135.899	136.253	136.614	136.834	137.047
Total finished less foods and energy <sup>2, 4</sup> .....	01/10	FD	49203	136.729	137.074	137.429	137.656	137.859
Total finished less foods and food and nonalcoholic beverages for immediate consumption <sup>2, 4</sup> .....	12/10	FD	49204	136.040	136.348	136.957	136.830	136.400
Total finished less foods <sup>2, 4</sup> .....	01/10	FD	49205	137.404	137.705	138.311	138.191	137.754
Total finished less energy <sup>2</sup> .....	01/10	FD	49206	137.265	137.706	138.157	138.696	138.795
Finished goods <sup>2</sup> .....	00/82	FD	49207	252.194	253.172	255.913	256.510	252.549
Finished goods less energy <sup>2</sup> .....	00/82	FD	49208	244.816	246.228	247.584	250.955	250.802
Finished goods, excluding foods <sup>2, 4</sup> .....	00/82	FD	49209	248.877	249.212	251.740	250.018	245.790
Finished services <sup>2</sup> .....	01/10	FD	49210	135.545	135.880	136.159	136.296	136.448
Private capital investment services.....	04/10	FD	49211	141.799	142.851	142.031	142.735	142.283
Finished distributive services <sup>2, 5</sup> .....	04/10	FD	49212	149.001	148.568	148.724	148.536	148.780
Finished services less trade services <sup>2</sup> .....	04/10	FD	49213	129.747	130.403	130.686	131.024	131.020
Finished services less distributive services <sup>2, 5</sup> .....	04/10	FD	49214	128.123	128.841	129.181	129.481	129.587
Total private capital investment (goods, services, and construction).....	04/10	FD	49215	139.054	139.780	139.881	140.443	140.433
Finished goods plus finished distributive services <sup>2</sup> .....	04/10	FD	49216	144.654	144.745	145.636	145.727	144.657
Total exports.....	04/10	FD	49301	139.837	140.108	139.556	140.287	139.575
Goods for export.....	00/82	FD	49302	238.425	238.355	236.614	236.930	234.806
Services for export.....	04/10	FD	49303	145.256	146.008	146.144	147.725	147.791
Total government purchases.....	04/10	FD	49401	136.551	137.353	138.203	137.933	135.409
Government purchased goods.....	00/82	FD	49402	241.036	242.851	244.879	243.038	233.532
Government purchased services.....	04/10	FD	49403	128.790	129.390	129.413	129.896	129.998
Total government purchased capital investment (goods, services, construction).....	08/13	FD	49404	128.197	128.545	129.562	130.043	130.112
Government purchases, defense.....	05/15	FD	49405	124.091	124.727	125.245	125.032	122.054
Government purchases, non-defense.....	05/15	FD	49406	130.782	131.618	132.581	132.270	130.048
Personal consumption.....	01/10	FD	49501	137.497	137.817	138.627	138.736	138.128
Personal consumption goods (finished consumer goods).....	00/82	FD	49502	272.325	273.456	277.127	277.663	271.527
Personal consumption goods less energy.....	00/82	FD	49503	265.303	267.204	268.969	274.037	273.256
Personal consumption goods less foods.....	00/82	FD	49504	274.707	274.845	278.534	275.246	267.808
Personal consumption nondurable goods less foods.....	00/82	FD	49508	312.289	312.379	317.652	312.800	301.913
Personal consumption services.....	04/10	FD	49505	134.064	134.292	134.732	134.785	135.026
Personal consumption less trade services.....	04/10	FD	49506	133.698	134.310	135.156	135.514	134.512
Personal consumption less distributive services <sup>5</sup> .....	04/10	FD	49507	132.839	133.487	134.384	134.719	133.753
Personal consumption less foods and energy.....	04/14	FD	49510	125.545	125.772	126.161	126.289	126.527
Personal consumption less foods, energy, and trade services <sup>3</sup> .....	04/14	FD	49511	121.514	122.053	122.368	122.789	122.840
Personal consumption less foods, energy, and distributive services <sup>5</sup> .....	04/14	FD	49512	120.762	121.343	121.699	122.099	122.228
Personal consumption goods plus personal consumption distributive services <sup>5</sup> .....	08/13	FD	49509	133.807	133.747	134.875	134.726	133.479
<b>Intermediate Demand by Commodity Type</b>								
<b>Processed goods</b>								
Processed goods for intermediate demand.....	00/82	ID6	1	270.573	270.204	269.946	267.853	260.330
Materials and components for manufacturing.....	00/82	ID6	11	244.878	241.864	239.319	238.816	236.811
Materials for manufacturing.....		ID6	111	158.070	154.962	152.419	151.818	149.790
Materials for food manufacturing.....	00/82	ID6	1111	259.950	258.175	259.341	261.608	260.101
Materials for nondurable manufacturing.....	00/82	ID6	1112	292.602	289.458	285.882	284.315	278.945
Materials for durable manufacturing.....	00/82	ID6	1113	306.430	295.985	287.469	285.438	282.588
Components for manufacturing.....	00/82	ID6	112	184.263	184.537	184.593	184.819	184.914
Components for nondurable manufacturing.....		ID6	1121	148.912	148.406	148.063	148.213	148.294
Components for durable manufacturing.....		ID6	1122	129.782	130.010	130.068	130.229	130.296
Materials and components for construction.....	00/82	ID6	12	352.932	351.634	350.629	349.655	348.487
Materials for construction.....		ID6	121	169.190	168.274	167.496	167.107	166.245
Components for construction.....		ID6	122	178.378	177.950	177.672	177.119	176.764
Processed fuels and lubricants for intermediate demand.....	00/82	ID6	13	284.671	290.278	295.910	286.398	255.052
Processed fuels and lubricants to manufacturing industries.....	00/82	ID6	131	288.751	292.999	296.001	286.319	264.771

See footnotes at end of table.



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

[December 2022, 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. 2022	Sept. 2022 <sup>P</sup>	Oct. 2022 <sup>P</sup>	Nov. 2022 <sup>P</sup>	Dec. 2022 <sup>P</sup>
Processed fuels and lubricants to nonmanufacturing industries.....	00/82	ID6	132	283.837	289.899	296.403	286.930	252.317
Containers for intermediate demand.....	00/82	ID6	14	313.372	314.362	314.325	314.917	315.293
Supplies for intermediate demand.....	00/82	ID6	15	253.432	253.429	252.967	253.524	253.099
Supplies to manufacturing industries.....	00/82	ID6	151	249.055	249.258	247.924	248.033	248.503
Supplies to nonmanufacturing industries.....	00/82	ID6	152	252.100	252.066	251.743	252.365	251.805
Supplies to nonmanufacturing industries, feeds.....	00/82	ID6	1521	257.444	260.446	256.702	256.508	252.843
Supplies to nonmanufacturing industries, other than feeds.....	00/82	ID6	1522	253.571	253.230	253.249	253.959	253.706
<b>Unprocessed goods</b>								
Unprocessed goods for intermediate demand.....	00/82	ID6	2	342.582	332.197	298.312	287.213	296.905
Unprocessed foodstuffs and feedstuffs.....	00/82	ID6	21	254.930	257.718	253.791	253.597	249.862
Unprocessed nonfood materials.....	00/82	ID6	22	388.269	369.729	317.621	299.850	317.882
Unprocessed nonfood materials except fuel.....	00/82	ID6	221	374.513	362.664	357.548	351.342	326.841
Unprocessed nonfood materials except fuel to manufacturing industries.....	00/82	ID6	2211	349.853	338.218	333.176	327.071	303.114
Unprocessed nonfood materials except fuel to nonmanufacturing industries.....	00/82	ID6	2212	325.076	326.496	327.496	328.452	329.263
Unprocessed fuel.....	00/82	ID6	222	375.109	349.461	241.226	210.036	281.177
Unprocessed fuel to manufacturing industries.....	00/82	ID6	2221	329.721	323.364	285.400	271.470	282.259
Unprocessed fuel to nonmanufacturing industries.....	00/82	ID6	2222	388.568	361.029	245.481	212.363	289.160
<b>Services</b>								
Services for intermediate demand.....		ID6	3	140.497	141.105	141.723	142.876	143.493
Trade services for intermediate demand <sup>5</sup> .....		ID6	33	168.853	168.643	168.760	170.891	171.954
Trade services for manufacturing industries.....	12/12	ID6	331	153.626	153.757	153.763	155.786	156.328
Trade services for nonmanufacturing industries.....	12/12	ID6	332	150.871	150.360	150.566	152.385	153.760
Transportation and warehousing services for intermediate demand.....		ID6	32	158.764	157.584	158.615	156.557	156.335
Transportation of passengers for intermediate demand.....		ID6	321	134.676	134.331	138.282	131.273	135.182
Transportation of passengers for manufacturing industries.....		ID6	3211	134.777	134.434	138.487	131.305	135.317
Transportation of passengers for nonmanufacturing industries.....		ID6	3212	134.725	134.380	138.319	131.330	135.227
Transportation and warehousing of goods for intermediate demand.....		ID6	322	161.382	160.112	160.827	159.304	158.636
Transportation and warehousing of goods for manufacturing industries.....	12/12	ID6	3221	136.298	136.619	135.925	136.702	135.438
Transportation and warehousing of goods for nonmanufacturing industries.....	12/12	ID6	3222	143.502	141.988	142.981	141.059	140.658
Services less trade, transportation, and warehousing for intermediate demand.....		ID6	31	129.588	130.727	131.413	132.842	133.479
Services less trade, transportation, and warehousing for manufacturing industries.....		ID6	311	123.876	124.073	124.357	124.574	124.622
Services less trade, transportation, and warehousing for nonmanufacturing industries.....		ID6	312	129.762	130.935	131.635	133.105	133.762
<b>Construction</b>								
Construction for intermediate demand.....		ID6	4	139.898	140.291	141.130	141.163	141.255
<b>Intermediate Demand by Commodity Type Special Groupings</b>								
Processed materials less foods and feeds.....	00/82	ID6	9111	272.095	271.737	271.480	269.029	260.988
Processed foods and feeds.....	00/82	ID6	9112	255.241	254.759	254.486	256.209	254.233
Processed energy goods.....	00/82	ID6	9113	285.993	291.626	297.283	287.728	256.235
Processed materials less energy.....	00/82	ID6	9118	263.444	261.572	259.831	259.637	258.227
Processed materials less foods and energy.....	00/82	ID6	9115	263.952	261.920	260.009	259.589	258.249
Intermediate distributive services <sup>6</sup> .....	04/10	ID6	9116	163.027	162.450	162.775	163.588	164.026
Processed goods plus intermediate distributive services.....	04/10	ID6	9117	151.422	151.123	151.104	150.478	147.573
Unprocessed materials less agricultural products.....	00/82	ID6	9211	397.538	374.557	318.307	299.350	322.310
Unprocessed energy materials <sup>7</sup> .....	00/82	ID6	9212	344.329	321.582	262.774	241.752	264.796
Unprocessed materials less energy.....	00/82	ID6	9213	310.776	313.050	304.403	303.256	301.120
Unprocessed nonfood materials less energy <sup>8</sup> .....	00/82	ID6	9216	478.234	478.138	453.732	449.797	452.687
<b>Intermediate Demand by Production Flow</b>								
<b>Stage 4 Intermediate Demand</b>								
Stage 4 intermediate demand.....		ID5	4	145.588	146.106	146.216	146.758	146.330
Inputs to stage 4 goods producers.....		ID5	41	146.092	146.429	146.140	146.498	146.211
Goods.....		ID5	411	141.460	141.620	141.144	140.943	140.303
Foods.....		ID5	4111	157.963	161.356	160.887	160.628	156.324
Energy.....		ID5	4112	167.858	168.263	171.822	169.780	163.314
Goods excluding foods and energy.....		ID5	4113	138.794	138.466	137.953	137.777	137.738
Services.....		ID5	412	161.831	162.668	162.891	164.810	165.496
Trade services.....		ID5	4123	172.312	173.392	173.668	176.198	177.112
Transportation and warehousing services.....		ID5	4122	140.641	140.359	140.187	139.595	139.487
Transportation of passengers.....		ID5	41221	134.798	134.455	138.512	131.323	135.339
Transportation and warehousing of goods.....		ID5	41222	151.099	150.810	149.799	150.458	149.537
Services less trade, transportation, and warehousing.....		ID5	4121	125.387	125.623	125.757	126.063	126.103
Inputs to stage 4 services producers.....		ID5	42	140.248	141.142	141.403	142.318	142.259

See footnotes at end of table.

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

[December 2022, 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. 2022	Sept. 2022 <sup>P</sup>	Oct. 2022 <sup>P</sup>	Nov. 2022 <sup>P</sup>	Dec. 2022 <sup>P</sup>
Goods.....		ID5	421	147.213	147.731	147.598	146.958	145.401
Foods.....		ID5	4211	153.832	152.295	150.687	152.131	150.246
Energy.....		ID5	4212	145.666	147.941	148.027	144.316	139.932
Goods excluding foods and energy.....		ID5	4213	145.548	145.732	145.912	146.292	146.328
Services.....		ID5	422	137.593	138.623	139.024	140.502	140.982
Trade services.....		ID5	4223	157.198	158.126	158.305	160.310	160.768
Transportation and warehousing services.....		ID5	4222	147.776	147.703	148.707	146.819	147.041
Transportation of passengers.....		ID5	42221	134.292	133.950	137.960	130.852	134.821
Transportation and warehousing of goods.....		ID5	42222	150.681	150.657	151.111	150.178	149.711
Services less trade, transportation, and warehousing.....		ID5	4221	133.403	134.553	134.921	136.660	137.167
Construction.....		ID5	423	139.898	140.291	141.130	141.163	141.255
Inputs to stage 4 construction producers.....		ID5	43	163.864	163.308	163.779	163.269	161.024
Goods.....		ID5	431	168.573	168.079	168.673	167.584	164.510
Energy.....		ID5	4312	181.867	182.124	192.072	181.933	151.132
Goods excluding foods and energy.....		ID5	4313	171.199	170.619	170.315	170.084	169.642
Services.....		ID5	432	151.874	151.175	151.354	152.221	151.960
Trade services.....		ID5	4323	170.031	168.529	169.182	170.539	170.619
Transportation and warehousing services.....		ID5	4322	158.964	158.273	157.376	158.172	156.243
Transportation of passengers.....		ID5	43221	140.516	140.159	144.377	136.902	141.077
Transportation and warehousing of goods.....		ID5	43222	160.258	159.555	158.516	159.538	157.435
Services less trade, transportation, and warehousing.....		ID5	4321	127.861	128.007	128.062	128.429	128.397
<b>Stage 3 Intermediate Demand</b>								
Stage 3 intermediate demand.....		ID5	3	152.609	152.452	152.286	151.488	148.272
Inputs to stage 3 goods producers.....		ID5	31	169.168	167.756	165.370	164.239	161.566
Goods.....		ID5	311	167.370	165.775	162.866	161.222	157.978
Foods.....		ID5	3111	191.729	192.629	188.985	187.550	184.451
Energy.....		ID5	3112	183.642	182.366	185.164	178.521	145.397
Goods excluding foods and energy.....		ID5	3113	160.488	157.800	154.759	153.305	151.817
Services.....		ID5	312	164.321	163.773	163.732	164.813	164.699
Trade services.....		ID5	3123	168.699	167.873	167.978	169.423	169.960
Transportation and warehousing services.....		ID5	3122	158.748	158.382	157.829	158.557	157.270
Transportation of passengers.....		ID5	31221	143.522	143.157	147.474	139.825	144.098
Transportation and warehousing of goods.....		ID5	31222	159.369	159.003	158.169	159.381	157.774
Services less trade, transportation, and warehousing.....		ID5	3121	129.017	129.209	129.536	129.770	129.424
Inputs to stage 3 services producers.....		ID5	32	139.093	140.004	141.652	141.098	137.352
Goods.....		ID5	321	145.069	148.347	152.770	148.942	130.955
Foods.....		ID5	3211	160.546	162.816	160.873	162.492	161.682
Energy.....		ID5	3212	157.356	162.842	170.190	163.578	134.070
Goods excluding foods and energy.....		ID5	3213	135.729	135.555	135.505	135.976	135.704
Services.....		ID5	322	136.888	137.066	137.858	138.320	138.962
Trade services.....		ID5	3223	190.085	191.260	190.211	192.182	192.652
Transportation and warehousing services.....		ID5	3222	164.870	161.930	163.788	160.410	160.455
Transportation of passengers.....		ID5	32221	104.924	104.606	104.620	104.320	104.284
Transportation and warehousing of goods.....		ID5	32222	165.385	162.429	164.297	160.901	160.947
Services less trade, transportation, and warehousing.....		ID5	3221	126.567	127.490	128.142	129.503	130.318
Construction.....		ID5	323	139.898	140.291	141.130	141.163	141.255
Inputs to stage 3 construction producers.....		ID5	33	143.122	141.849	142.459	142.819	142.715
Goods.....		ID5	331	139.215	138.326	137.539	136.426	135.932
Goods excluding foods and energy.....		ID5	3313	177.393	176.260	175.257	173.839	173.210
Services.....		ID5	332	166.694	164.907	166.823	168.517	168.739
Trade services.....		ID5	3323	171.661	169.707	171.794	173.613	173.881
Transportation and warehousing services.....		ID5	3322	115.545	115.848	115.118	115.760	115.838
Transportation and warehousing of goods.....		ID5	33222	121.962	122.282	121.511	122.189	122.271
Services less trade, transportation, and warehousing.....		ID5	3321	121.167	121.209	121.578	121.657	121.083
<b>Stage 2 Intermediate Demand</b>								
Stage 2 intermediate demand.....		ID5	2	150.697	147.943	140.982	139.139	142.214
Inputs to stage 2 goods producers.....		ID5	21	156.089	150.700	137.532	133.801	138.204
Goods.....		ID5	211	162.941	155.950	138.946	133.916	139.317
Foods.....		ID5	2111	176.325	181.188	173.488	175.488	171.986
Energy.....		ID5	2112	152.720	142.239	116.421	107.850	117.099
Goods excluding foods and energy.....		ID5	2113	152.341	149.876	147.530	147.593	147.676
Services.....		ID5	212	145.279	145.665	146.291	147.345	148.293
Trade services.....		ID5	2123	165.702	164.326	164.803	166.146	167.665
Transportation and warehousing services.....		ID5	2122	166.134	167.863	168.059	167.624	167.182
Transportation of passengers.....		ID5	21221	135.282	134.934	138.759	131.959	135.742
Transportation and warehousing of goods.....		ID5	21222	167.932	169.824	169.721	169.810	169.024
Services less trade, transportation, and warehousing.....		ID5	2121	125.042	127.012	128.241	130.088	131.348
Construction.....		ID5	213	139.898	140.291	141.130	141.163	141.255

See footnotes at end of table.

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

[December 2022, 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. 2022	Sept. 2022 <sup>P</sup>	Oct. 2022 <sup>P</sup>	Nov. 2022 <sup>P</sup>	Dec. 2022 <sup>P</sup>
Inputs to stage 2 services producers.....		ID5	22	138.544	139.217	140.340	140.949	142.238
Goods.....		ID5	221	148.388	148.178	147.961	147.275	145.567
Foods.....		ID5	2211	137.200	137.127	133.336	132.165	130.586
Energy.....		ID5	2212	192.075	196.138	197.735	188.014	165.091
Goods excluding foods and energy.....		ID5	2213	146.095	145.620	145.313	145.189	144.791
Services.....		ID5	222	136.747	137.557	138.885	139.704	141.473
Trade services.....		ID5	2223	185.883	181.490	179.994	183.555	195.344
Transportation and warehousing services.....		ID5	2222	168.156	159.163	164.044	152.673	154.189
Transportation of passengers.....		ID5	22221	135.234	134.889	138.918	131.775	135.763
Transportation and warehousing of goods.....		ID5	22222	174.929	164.277	169.335	157.128	158.185
Services less trade, transportation, and warehousing.....		ID5	2221	132.894	134.781	136.019	137.622	138.828
Construction.....		ID5	223	139.898	140.291	141.130	141.163	141.255
<b>Stage 1 Intermediate Demand</b>								
Stage 1 intermediate demand.....		ID5	1	147.485	147.895	148.082	147.919	145.458
Inputs to stage 1 goods producers.....		ID5	11	154.377	153.694	151.591	150.762	148.653
Goods.....		ID5	111	156.389	155.726	152.871	151.236	148.276
Foods.....		ID5	1111	175.034	184.306	177.138	175.180	169.545
Energy.....		ID5	1112	148.659	151.094	149.337	145.139	136.787
Goods excluding foods and energy.....		ID5	1113	159.090	155.989	153.533	152.518	151.212
Services.....		ID5	112	152.857	152.102	151.956	153.263	153.374
Trade services.....		ID5	1123	168.920	167.039	166.876	168.983	169.130
Transportation and warehousing services.....		ID5	1122	158.641	159.854	159.598	158.909	159.673
Transportation of passengers.....		ID5	11221	134.772	134.429	138.486	131.298	135.314
Transportation and warehousing of goods.....		ID5	11222	162.677	164.173	163.126	163.631	163.797
Services less trade, transportation, and warehousing.....		ID5	1121	106.700	107.288	107.208	107.548	107.478
Construction.....		ID5	113	139.898	140.291	141.130	141.163	141.255
Inputs to stage 1 services producers.....		ID5	12	142.001	143.108	144.444	144.682	142.189
Goods.....		ID5	121	151.336	153.323	155.759	153.832	146.260
Foods.....		ID5	1211	187.802	177.136	213.980	211.724	229.370
Energy.....		ID5	1212	178.582	184.663	191.622	184.876	159.584
Goods excluding foods and energy.....		ID5	1213	146.247	146.416	146.608	146.922	147.429
Services.....		ID5	122	137.030	137.694	138.477	139.798	139.848
Trade services.....		ID5	1223	168.424	169.540	168.302	171.026	172.506
Transportation and warehousing services.....		ID5	1222	142.544	142.354	143.979	141.692	142.494
Transportation of passengers.....		ID5	12221	134.692	134.349	138.403	131.220	135.233
Transportation and warehousing of goods.....		ID5	12222	161.960	161.836	162.249	162.509	161.567
Services less trade, transportation, and warehousing.....		ID5	1221	131.556	132.275	133.178	134.799	134.582
Construction.....		ID5	123	139.898	140.291	141.130	141.163	141.255
Inputs to stage 1 construction producers.....		ID5	13	165.207	165.513	166.852	166.701	163.212
Goods.....		ID5	131	166.844	168.033	169.533	168.473	163.268
Energy.....		ID5	1312	178.623	188.885	204.000	195.139	150.674
Goods excluding foods and energy.....		ID5	1313	167.957	167.983	167.733	167.672	167.500
Services.....		ID5	132	162.011	160.575	161.595	163.240	163.136
Trade services.....		ID5	1323	167.452	165.829	167.242	169.050	169.357
Transportation and warehousing services.....		ID5	1322	133.762	133.086	132.262	133.215	131.144
Transportation and warehousing of goods.....		ID5	13222	138.359	137.661	136.808	137.794	135.652
Services less trade, transportation, and warehousing.....		ID5	1321	132.537	132.979	133.492	133.654	133.904
<b>Intermediate Demand by Production Flow Special Groupings</b>								
Total goods inputs to stage 4 intermediate demand.....	04/10	ID5	9411	145.497	145.634	145.471	144.977	143.620
Total services inputs to stage 4 intermediate demand.....	04/10	ID5	9412	142.015	142.876	143.229	144.725	145.179
Total construction inputs to stage 4 intermediate demand.....	04/10	ID5	9413	138.739	139.129	139.960	139.994	140.085
Total foods inputs to stage 4 intermediate demand.....	04/10	ID5	9414	152.739	154.016	153.085	153.537	150.331
Total energy goods inputs to stage 4 intermediate demand.....	04/10	ID5	9415	139.646	141.378	143.013	138.720	130.760
Total goods less foods and energy inputs to stage 4 intermediate demand.....	04/10	ID5	9416	146.461	146.186	145.871	145.801	145.688
Total goods inputs to stage 3 intermediate demand.....	04/10	ID5	9311	153.474	153.164	152.221	150.123	143.425
Total services inputs to stage 3 intermediate demand.....	04/10	ID5	9312	140.720	140.738	141.388	141.973	142.467
Total construction inputs to stage 3 intermediate demand.....	04/10	ID5	9313	138.739	139.129	139.960	139.994	140.085
Total foods inputs to stage 3 intermediate demand.....	04/10	ID5	9314	170.411	171.223	167.992	166.738	163.997
Total energy goods inputs to stage 3 intermediate demand.....	04/10	ID5	9315	158.418	162.684	169.137	162.656	133.164
Total goods less foods and energy inputs to stage 3 intermediate demand.....	04/10	ID5	9316	150.263	148.087	145.652	144.546	143.316
Total goods inputs to stage 2 intermediate demand.....	04/10	ID5	9211	153.699	147.698	133.132	128.764	133.219
Total services inputs to stage 2 intermediate demand.....	04/10	ID5	9212	139.167	139.890	141.071	141.944	143.543
Total construction inputs to stage 2 intermediate demand.....	04/10	ID5	9213	138.739	139.129	139.960	139.994	140.085
Total foods inputs to stage 2 intermediate demand.....	04/10	ID5	9214	176.866	181.697	173.999	175.973	172.474
Total energy goods inputs to stage 2 intermediate demand.....	04/10	ID5	9215	149.959	139.865	114.906	106.502	115.186
Total goods less foods and energy inputs to stage 2 intermediate demand.....	04/10	ID5	9216	142.297	140.401	138.628	138.647	138.622
Total goods inputs to stage 1 intermediate demand.....	04/10	ID5	9111	139.030	139.519	139.225	137.762	133.390

See footnotes at end of table.

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

[December 2022, 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. 2022	Sept. 2022 <sup>p</sup>	Oct. 2022 <sup>p</sup>	Nov. 2022 <sup>p</sup>	Dec. 2022 <sup>p</sup>
Total services inputs to stage 1 intermediate demand.....	04/10	ID5	9112	140.849	141.075	141.699	143.032	143.081
Total construction inputs to stage 1 intermediate demand.....	04/10	ID5	9117	138.739	139.129	139.960	139.994	140.085
Total foods inputs to stage 1 intermediate demand.....	04/10	ID5	9114	165.085	173.428	167.537	165.687	160.835
Total energy goods inputs to stage 1 intermediate demand.....	04/10	ID5	9115	160.899	165.773	169.990	164.250	144.470
Total goods less foods and energy inputs to stage 1 intermediate demand.....	04/10	ID5	9116	129.995	128.828	127.875	127.553	127.152

<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.

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"/" Data not available.