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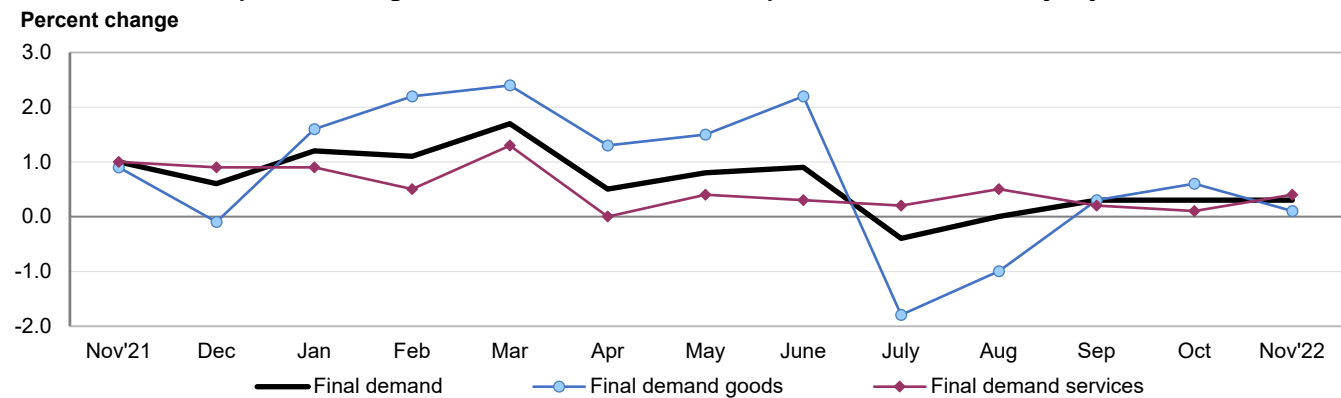
## PRODUCER PRICE INDEXES – NOVEMBER 2022

The Producer Price Index for final demand advanced 0.3 percent in November, seasonally adjusted, the U.S. Bureau of Labor Statistics reported today. Final demand prices also rose 0.3 percent in both October and September. (See table A.) On an unadjusted basis, the index for final demand moved up 7.4 percent for the 12 months ended in November.

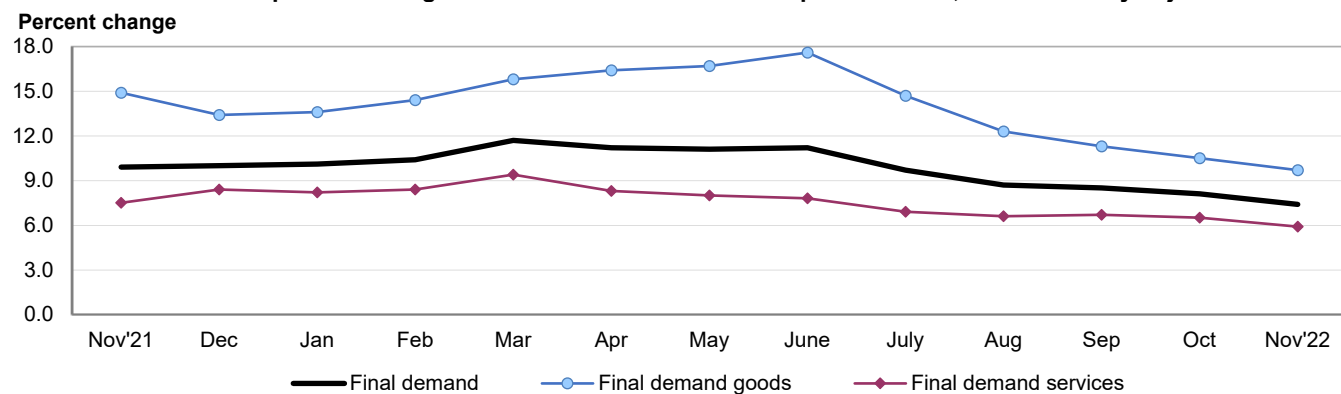
In November, most of the increase in the index for final demand is attributable to a 0.4-percent advance in prices for final demand services. The index for final demand goods inched up 0.1 percent.

Prices for final demand less foods, energy, and trade services moved up 0.3 percent in November after rising 0.2 percent in October. For the 12 months ended in November, the index for final demand less foods, energy, and trade services increased 4.9 percent.

**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 services:** The index for final demand services advanced 0.4 percent in November after edging up 0.1 percent in October. Leading the November increase, prices for final demand services less trade, transportation, and warehousing climbed 0.4 percent. Margins for final demand trade services rose 0.7 percent. (Trade indexes measure changes in margins received by wholesalers and retailers.) In contrast, prices for final demand transportation and warehousing services declined 0.9 percent.

*Product detail:* About one-third of the November rise in the index for final demand services can be traced to prices for securities brokerage, dealing, investment advice, and related services, which jumped 11.3 percent. The indexes for machinery and vehicle wholesaling, loan services (partial), fuels and lubricants retailing, portfolio management, and long-distance motor carrying also moved higher. Conversely, prices for transportation of passengers (partial) fell 5.6 percent. The indexes for automobile and automobile parts retailing and for traveler accommodation services also decreased. (See table 2.)

**Final demand goods:** The index for final demand goods inched up 0.1 percent in November following a 0.6-percent rise in October. A 3.3-percent increase in prices for final demand foods was a major factor in the November advance. The index for final demand goods less foods and energy moved up 0.3 percent. In contrast, prices for final demand energy decreased 3.3 percent.

*Product detail:* The November advance in prices for final demand goods was led by a 38.1-percent jump in the index for fresh and dry vegetables. Prices for chicken eggs; meats; canned, cooked, smoked, or prepared poultry; and tobacco products also moved higher. Conversely, the gasoline index fell 6.0 percent. Prices for diesel fuel, residential natural gas, and primary basic organic chemicals also declined.

**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>													
Nov....	1.0	0.8	0.9	1.3	0.9	0.8	1.0	1.3	2.8	0.6	9.9	7.0	
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 <sup>1</sup> ...	-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> ..	0.0	0.2	-1.0	-0.1	-5.4	0.2	0.5	1.1	-1.1	0.3	8.7	5.6	
Sept. <sup>1</sup> ..	0.3	0.3	0.3	1.5	0.3	0.0	0.2	-0.3	-0.3	0.6	8.5	5.6	
Oct. <sup>1</sup> ...	0.3	0.2	0.6	0.8	2.3	0.0	0.1	-0.1	0.4	0.2	8.1	5.4	
Nov....	0.3	0.3	0.1	3.3	-3.3	0.3	0.4	0.7	-0.9	0.4	7.4	4.9	

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

## Intermediate Demand by Commodity Type

Within intermediate demand in November, prices for processed goods fell 0.9 percent, the index for unprocessed goods declined 3.2 percent, and prices for services increased 0.6 percent. (See tables B and C.)

**Processed goods for intermediate demand:** Prices for processed goods for intermediate demand moved down 0.9 percent in November, the fifth consecutive decline. Leading the November decrease, the index for processed energy goods fell 3.7 percent. Prices for processed materials less foods and energy declined 0.2 percent. In contrast, the index for processed foods and feeds advanced 0.7 percent. For the 12 months ended in November, prices for processed goods for intermediate demand rose 7.7 percent.

*Product detail:* Over one-third of the November decline in the index for processed goods for intermediate demand can be attributed to prices for diesel fuel, which fell 4.5 percent. The indexes for gasoline, steel mill products, utility natural gas, primary basic organic chemicals, and industrial electric power also moved lower. Conversely, prices for meats rose 2.3 percent. The indexes for primary nonferrous metals and for inedible fats and oils also moved higher.

**Unprocessed goods for intermediate demand:** The index for unprocessed goods for intermediate demand fell 3.2 percent, the third consecutive decrease. Leading the November decline, prices for unprocessed energy materials moved down 7.8 percent. The index for unprocessed nonfood materials less energy fell 0.7 percent. In contrast, prices for unprocessed foodstuffs and feedstuffs advanced 1.1 percent. For the 12 months ended in November, the index for unprocessed goods for intermediate demand rose 3.0 percent.

*Product detail:* Leading the decrease in prices for unprocessed goods for intermediate demand, the index for natural gas dropped 15.8 percent. Prices for crude petroleum, corn, hay and hayseeds, citrus fruits, and carbon steel scrap also declined. Conversely, the index for fresh vegetables (except potatoes) jumped 43.1 percent. Prices for raw milk and for nonferrous metal ores also advanced.

**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>										
Nov.....	1.5	0.1	2.5	1.4	26.6	2.3	1.3	2.3	3.4	49.6
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 <sup>1</sup> .....	-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	14.4	4.6	-1.6	10.9	0.4	36.9
Sept. <sup>1</sup> .....	-0.1	-0.1	2.0	-0.7	13.0	-3.1	1.1	-6.8	0.0	29.0
Oct. <sup>1</sup> .....	-0.1	-0.1	1.8	-0.7	10.3	-10.5	-1.5	-18.9	-5.2	8.6
Nov.....	-0.9	0.7	-3.7	-0.2	7.7	-3.2	1.1	-7.8	-0.7	3.0

<sup>1</sup> Some of the figures shown above and elsewhere in this release may differ from those previously reported because data for July 2022 through October 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 increased 0.6 percent in November, the fifth consecutive rise. Leading the November advance, prices for services less trade, transportation, and warehousing for intermediate demand moved up 1.1 percent. The index for trade services for intermediate demand climbed 0.5 percent. In contrast, prices for transportation and warehousing services for intermediate demand fell 1.3 percent. For the 12 months ended in November, the index for services for intermediate demand increased 6.7 percent, the largest 12-month advance since rising 7.9 percent in May.

*Product detail:* Nearly 60 percent of the November rise in the index for services for intermediate demand can be traced to an 11.3-percent increase in prices for securities brokerage, dealing, investment advice, and related services. The indexes for loan services (partial), portfolio management, fuels and lubricants retailing, cable network advertising time sales, and long-distance motor carrying also advanced. Conversely, prices for arrangement of freight and cargo transportation dropped 15.2 percent. The indexes for broadcast and network television advertising time sales and for metals, minerals, and ores 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>					
Nov.....	0.6	-0.6	1.0	0.9	8.1
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 <sup>1</sup> .....	0.3	0.0	1.0	0.2	5.9
Aug. <sup>1</sup> .....	0.6	-0.9	-0.3	1.4	6.1
Sept. <sup>1</sup> ....	0.4	-0.2	-0.8	0.9	6.2
Oct. <sup>1</sup> ....	0.4	-0.1	0.6	0.5	6.6
Nov.....	0.6	0.5	-1.3	1.1	6.7

<sup>1</sup> Some of the figures shown above and elsewhere in this release may differ from those previously reported because data for July 2022 through October 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 advanced 0.2 percent in November following no change in the previous month. In November, the index for total services inputs to stage 4 intermediate demand increased 0.8 percent. In contrast, prices for total goods inputs declined 0.3 percent. (See table D.) Increases in the indexes for securities brokerage, dealing, investment advice, and related services; loan services (partial); portfolio management; meats; food and alcohol wholesaling; and canned, cooked, smoked, or prepared poultry outweighed declines in prices for electric power, gasoline, and gross rents for retail properties. For the 12 months ended in November, the index for stage 4 intermediate demand rose 6.9 percent.

**Stage 3 intermediate demand:** The index for stage 3 intermediate demand declined 0.4 percent in November after edging down 0.1 percent in October. In November, prices for total goods inputs to stage 3 intermediate demand fell 0.9 percent. Conversely, the index for total services inputs rose 0.2 percent. Decreases in prices for diesel fuel, arrangement of freight and cargo transportation, steel mill products, primary basic organic chemicals, corn, and thermoplastic resins and materials outweighed advances in the indexes for loan services (partial), raw milk, and cable network advertising time sales. For the 12 months ended in November, prices for stage 3 intermediate demand rose 8.4 percent.

**Stage 2 intermediate demand:** The index for stage 2 intermediate demand declined 1.4 percent in November, the third consecutive decrease. In November, prices for total goods inputs to stage 2 intermediate demand fell 3.4 percent. In contrast, the index for total services inputs advanced 0.6 percent. Decreases in prices for natural gas, crude petroleum, arrangement of freight and cargo transportation, broadcast and network television advertising time sales, primary basic organic chemicals, and transportation of passengers (partial) outweighed increases in the indexes for loan services (partial); securities brokerage, dealing, investment advice, and related services; and oilseeds. For the 12 months ended in November, prices for stage 2 intermediate demand rose 3.8 percent.

**Stage 1 intermediate demand:** The index for stage 1 intermediate demand declined 0.3 percent in November following a 0.1-percent rise in October. In November, prices for total goods inputs to stage 1 intermediate demand fell 1.2 percent. Conversely, the index for total services inputs advanced 0.7 percent. Decreases in prices for diesel fuel, utility natural gas, steel mill products, transportation of passengers (partial), primary basic organic chemicals, and gasoline outweighed increases in the indexes for securities brokerage, dealing, investment advice, and related services; fuels and lubricants retailing; and inedible fats and oils. For the 12 months ended in November, prices for stage 1 intermediate demand moved up 7.6 percent.

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

Month	Stage 4 intermediate demand			Stage 3 intermediate demand			Stage 2 intermediate demand			Stage 1 intermediate demand		
	Total	Goods inputs	Ser-vices inputs	Total	Goods inputs	Ser-vices inputs	Total	Goods inputs	Ser-vices inputs	Total	Goods inputs	Ser-vices inputs
<b>2021</b>												
Nov.....	1.1	1.5	0.7	0.8	1.2	0.4	1.2	1.7	0.7	1.3	2.0	0.5
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 <sup>1</sup> .....	-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	0.7	-1.6	-3.1	0.1	3.1	4.7	1.4	-0.5	-1.4	0.5
Sept. <sup>1</sup> .....	0.4	0.1	0.6	0.0	-0.1	0.0	-1.8	-3.9	0.5	0.3	0.4	0.2
Oct. <sup>1</sup> .....	0.0	-0.2	0.2	-0.1	-0.7	0.5	-4.9	-10.2	0.7	0.1	-0.1	0.4
Nov.....	0.2	-0.3	0.8	-0.4	-0.9	0.2	-1.4	-3.4	0.6	-0.3	-1.2	0.7

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

**The Producer Price Index for December 2022 is scheduled to be released on Wednesday, January 18, 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**  
 [November 2022]

Grouping	Commodity code		Relative Importance Dec. 2021 <sup>1</sup>	Unadjusted 12-month percent change <sup>2</sup> Nov. 2021 to Nov. 2022 <sup>P</sup>	Seasonally adjusted 1-month percent change <sup>2</sup>				
	Group code	Item code			June to July	July to Aug. <sup>P</sup>	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>	Oct. to Nov. <sup>P</sup>
<b>Final Demand</b>									
Final demand.....	FD	4	100.000	7.4	-0.4	0.0	0.3	0.3	0.3
Final demand goods.....	FD	41	33.128	9.7	-1.8	-1.0	0.3	0.6	0.1
Final demand foods.....	FD	411	5.743	15.5	1.2	-0.1	1.5	0.8	3.3
Finished consumer foods <sup>3</sup> .....	FD	4111	4.425	16.3	2.2	-0.4	1.4	1.4	3.7
Finished consumer foods, crude.....	FD	41113	0.460	61.7	13.7	-7.3	11.5	15.6	21.1
Finished consumer foods, processed.....	FD	41112	3.965	10.8	1.0	0.5	0.3	-0.4	1.2
Government purchased foods.....	FD	4112	0.407	10.2	1.4	0.0	0.3	0.2	1.1
Foods for export.....	FD	4113	0.911	14.1	-3.6	1.3	2.7	-1.9	2.4
Final demand energy.....	FD	412	5.972	16.2	-9.1	-5.4	0.3	2.3	-3.3
Finished consumer energy goods <sup>3</sup> .....	FD	4121	4.773	11.8	-9.4	-5.0	-0.2	2.7	-3.4
Government purchased energy.....	FD	4122	0.834	32.7	-8.3	-6.6	2.8	2.4	-3.1
Energy for export.....	FD	4123	0.365	35.4	-7.4	-6.8	0.9	-1.0	-2.7
Final demand goods less foods and energy.....	FD	413	21.412	6.2	0.1	0.2	0.0	0.0	0.3
Finished goods less foods and energy <sup>3</sup> .....	FD	4131	12.084	8.1	0.6	0.5	0.3	0.2	0.5
Finished consumer goods less foods and energy.....	FD	41311	6.448	7.7	0.6	0.5	0.3	0.2	0.6
Nondurable consumer goods less foods and energy.....	FD	413111	4.061	8.3	0.6	0.7	0.3	0.3	0.8
Durable consumer goods.....	FD	413112	2.387	6.6	0.5	0.3	0.1	-0.1	0.3
Private capital equipment.....	FD	41312	5.636	8.5	0.6	0.5	0.3	0.3	0.4
Private capital equipment for manufacturing industries.....	FD	413121	1.256	10.6	0.7	0.5	0.4	0.3	0.5
Private capital equipment for nonmanufacturing industries.....	FD	413122	4.380	7.9	0.5	0.5	0.3	0.4	0.4
Government purchased goods, excluding foods and energy.....	FD	4132	2.255	7.3	0.5	0.1	0.0	0.0	0.2
Government purchased goods excluding foods, energy, and capital equipment.....	FD	41321	1.338	9.1	0.6	0.0	0.0	0.0	0.1
Government purchased capital equipment.....	FD	41322	0.917	4.6	0.3	0.2	-0.1	0.1	0.2
Goods for export, excluding foods and energy.....	FD	4133	7.073	2.7	-0.7	-0.3	-0.4	-0.5	0.0
Final demand services.....	FD	42	65.132	5.9	0.2	0.5	0.2	0.1	0.4
Final demand trade services <sup>4</sup> .....	FD	423	20.434	10.8	0.7	1.1	-0.3	-0.1	0.7
Trade of finished goods <sup>3</sup> .....	FD	4231	17.549	10.7	0.7	1.4	-0.4	-0.1	0.7
Trade of personal consumption goods.....	FD	42311	14.295	10.4	0.7	1.6	-0.6	0.1	0.5
Trade of private capital equipment.....	FD	42312	3.254	12.3	0.7	0.1	0.4	-1.0	1.4
Trade of government purchased goods.....	FD	4232	0.761	13.4	1.1	-0.1	0.6	-0.2	1.2
Trade of government purchased goods, excluding capital equipment.....	FD	42321	0.474	12.1	1.0	-0.4	0.4	0.0	0.5
Trade of government purchased capital equipment.....	FD	42322	0.287	15.6	1.4	0.3	0.8	-0.5	2.5
Trade of exports.....	FD	4233	2.124	10.8	0.9	-0.3	0.4	-0.4	0.9
Final demand transportation and warehousing services.....	FD	422	4.396	12.7	-0.5	-1.1	-0.3	0.4	-0.9
Transportation of passengers for final demand.....	FD	4221	1.113	18.0	-2.9	0.7	-0.3	2.9	-5.6
Transportation of private passengers.....	FD	42211	0.752	18.0	-2.9	0.7	-0.3	2.9	-5.6
Transportation of government passengers.....	FD	42212	0.090	17.8	-2.9	0.7	-0.3	2.9	-5.6
Transportation of passengers for export.....	FD	42213	0.271	18.3	-2.9	0.7	-0.3	2.9	-5.7
Transportation and warehousing of goods for final demand.....	FD	4222	3.283	11.0	0.3	-1.7	-0.4	-0.5	0.9
Transportation and warehousing of finished goods <sup>3</sup> .....	FD	42221	2.160	10.9	0.3	-1.8	-0.5	-0.5	0.9
Transportation and warehousing of personal consumption goods.....	FD	422211	1.734	10.9	0.3	-1.7	-0.4	-0.5	0.9
Transportation and warehousing of private capital equipment.....	FD	422212	0.426	11.3	0.1	-1.9	-0.6	-0.6	1.0
Transportation and warehousing of government purchased goods.....	FD	42222	0.198	10.5	0.9	-1.6	-0.1	-0.5	0.8
Transportation and warehousing of exports.....	FD	42223	0.925	11.1	0.2	-1.5	-0.3	-0.5	0.9
Final demand services less trade, transportation, and warehousing.....	FD	421	40.301	2.7	0.0	0.3	0.6	0.2	0.4
Finished services less trade, transportation, and warehousing <sup>3</sup> .....	FD	4211	35.337	2.7	0.1	0.3	0.6	0.2	0.3
Finished consumer services less trade, transportation, and warehousing.....	FD	42111	31.663	2.2	0.1	0.2	0.5	0.2	0.3
Private capital investment services less trade, transportation, and warehousing.....	FD	42112	3.674	6.9	0.1	0.5	0.9	-0.1	0.0
Government purchased services less trade, transportation, and warehousing.....	FD	4212	2.482	2.1	-0.3	0.7	0.4	0.0	0.3
Gov. purchased services less trade, transportation, and warehousing, excl. capital investment.....	FD	42121	2.376	2.2	-0.3	0.8	0.4	0.1	0.4
Government purchased capital investment services less trade, transportation, and warehousing.....	FD	42122	0.106	-0.1	0.3	-0.5	0.6	-0.2	-0.4
Services for export less trade, transportation, and warehousing.....	FD	4213	2.482	3.4	-0.2	1.4	0.8	0.3	1.7
Final demand construction.....	FD	43	1.740	19.0	5.0	0.2	0.2	2.8	0.1
Construction for private capital investment.....	FD	431	1.133	20.4	5.5	0.2	0.2	2.8	0.2
Construction for government.....	FD	432	0.606	16.3	4.0	0.1	0.3	2.8	0.1
<b>Special Groupings of Final Demand</b>									
Final demand less exports.....	FD	49101	85.849	7.6	-0.3	0.0	0.3	0.4	0.3
Final demand less government.....	FD	49102	92.367	7.2	-0.4	0.0	0.2	0.3	0.3

See footnotes at end of table.

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

Grouping	Commodity code		Relative Importance Dec. 2021 <sup>1</sup>	Unadjusted 12-month percent change <sup>2</sup> Nov. 2021 to Nov. 2022 <sup>P</sup>	Seasonally adjusted 1-month percent change <sup>2</sup>				
	Group code	Item code			June to July	July to Aug. <sup>P</sup>	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>	Oct. to Nov. <sup>P</sup>
Final demand less foods, food and nonalcoholic beverages for immediate consumption, and energy <sup>5</sup> .....	FD	49103	87.780	6.3	0.3	0.4	0.2	0.1	0.4
Final demand less foods and energy <sup>5</sup> .....	FD	49104	88.285	6.2	0.3	0.4	0.2	0.1	0.4
Final demand less foods and food and nonalcoholic beverages for immediate consumption <sup>5</sup> .....	FD	49105	93.752	7.0	-0.5	-0.1	0.2	0.3	0.1
Final demand less foods <sup>5</sup> .....	FD	49106	94.257	6.9	-0.5	0.0	0.2	0.3	0.1
Final demand less energy.....	FD	49107	94.028	6.8	0.4	0.4	0.3	0.2	0.6
Final demand less trade services.....	FD	49108	79.566	6.5	-0.7	-0.3	0.4	0.4	0.2
Final demand less distributive services <sup>6</sup> .....	FD	49109	76.283	6.4	-0.7	-0.3	0.5	0.5	0.2
Final demand goods less energy.....	FD	49111	27.155	8.2	0.4	0.1	0.3	0.1	1.0
Final demand goods less foods.....	FD	49112	27.384	8.5	-2.4	-1.2	0.1	0.5	-0.6
Final demand services less trade services.....	FD	49113	44.697	3.7	0.0	0.2	0.5	0.2	0.3
Final demand distributive services <sup>6</sup> .....	FD	49114	23.717	10.9	0.7	0.7	-0.3	-0.2	0.7
Final demand goods plus final demand distributive services <sup>6</sup> .....	FD	49115	56.844	10.2	-0.8	-0.3	0.1	0.3	0.4
Final demand less foods, energy, and trade services <sup>5</sup> .....	FD	49116	67.851	4.9	0.2	0.2	0.3	0.2	0.3
Private and government purchased capital equipment.....	FD	49117	6.553	8.0	0.5	0.5	0.3	0.3	0.4
Private and government purchased capital investment services.....	FD	49118	7.747	9.6	0.4	0.2	0.6	-0.5	0.8
Total private and government purchased capital investment.....	FD	49119	14.300	10.0	0.9	0.3	0.4	0.2	0.5
Total finished <sup>3</sup> .....	FD	49201	78.213	7.3	-0.3	0.1	0.2	0.4	0.3
Total finished less foods, food and nonalcoholic beverages for immediate consumption, and energy <sup>3, 5</sup> .....	FD	49202	68.515	6.5	0.4	0.5	0.2	0.2	0.4
Total finished less foods and energy <sup>3, 5</sup> .....	FD	49203	69.015	6.4	0.4	0.5	0.2	0.2	0.4
Total finished less foods and food and nonalcoholic beverages for immediate consumption <sup>3, 5</sup> .....	FD	49204	73.288	6.9	-0.4	0.1	0.2	0.4	0.1
Total finished less foods <sup>3, 5</sup> .....	FD	49205	73.788	6.8	-0.4	0.1	0.2	0.4	0.1
Total finished less energy <sup>3</sup> .....	FD	49206	73.440	7.0	0.5	0.5	0.3	0.3	0.6
Finished goods <sup>3</sup> .....	FD	49207	21.282	10.6	-1.9	-1.1	0.4	1.1	0.2
Finished goods less energy <sup>3</sup> .....	FD	49208	16.509	10.3	1.0	0.3	0.6	0.6	1.4
Finished goods, excluding foods <sup>3, 5</sup> .....	FD	49209	16.857	9.2	-2.8	-1.2	0.1	1.0	-0.7
Finished services <sup>3</sup> .....	FD	49210	55.798	5.7	0.2	0.5	0.2	0.1	0.4
Private capital investment services.....	FD	49211	7.354	9.5	0.3	0.2	0.6	-0.5	0.7
Finished distributive services <sup>3, 6</sup> .....	FD	49212	19.709	10.8	0.7	1.0	-0.4	-0.1	0.7
Finished services less trade services <sup>3</sup> .....	FD	49213	38.249	3.5	0.0	0.1	0.5	0.2	0.2
Finished services less distributive services <sup>3, 6</sup> .....	FD	49214	36.089	3.0	0.0	0.3	0.6	0.2	0.2
Total private capital investment (goods, services, and construction).....	FD	49215	14.123	10.0	0.8	0.3	0.4	0.1	0.5
Finished goods plus finished distributive services <sup>3, 6</sup> .....	FD	49216	40.991	10.7	-0.7	-0.1	0.0	0.5	0.4
Total exports.....	FD	49301	14.151	6.5	-0.9	-0.2	0.2	-0.4	0.4
Goods for export.....	FD	49302	8.349	5.5	-1.5	-0.5	0.0	-0.7	0.1
Services for export.....	FD	49303	5.802	8.0	0.1	0.2	0.4	0.1	0.9
Total government purchases.....	FD	49401	7.633	10.2	-0.8	-0.8	0.6	0.6	-0.1
Government purchased goods.....	FD	49402	3.496	13.9	-2.2	-1.9	0.8	0.7	-0.7
Government purchased services.....	FD	49403	3.531	5.4	0.0	0.4	0.4	0.0	0.4
Total government purchased capital investment (goods, services, construction).....	FD	49404	1.916	9.7	1.7	0.2	0.2	0.9	0.5
Government purchases, defense.....	FD	49405	2.357	9.4	-0.8	-1.3	0.5	0.3	0.1
Government purchases, non-defense.....	FD	49406	5.276	10.6	-0.8	-0.5	0.6	0.8	-0.3
Personal consumption.....	FD	49501	64.090	6.7	-0.5	0.0	0.2	0.5	0.3
Personal consumption goods (finished consumer goods).....	FD	49502	15.646	11.4	-2.6	-1.6	0.4	1.3	0.2
Personal consumption goods less energy.....	FD	49503	10.873	11.2	1.2	0.2	0.7	0.7	1.9
Personal consumption goods less foods.....	FD	49504	11.221	9.5	-4.4	-2.1	0.0	1.3	-1.2
Personal consumption nondurable goods less foods.....	FD	49508	8.834	10.3	-5.5	-2.6	0.0	1.6	-1.6
Personal consumption services.....	FD	49505	48.444	5.2	0.2	0.6	0.1	0.2	0.3
Personal consumption less trade services.....	FD	49506	49.795	5.6	-0.9	-0.5	0.5	0.6	0.2
Personal consumption less distributive services <sup>6</sup> .....	FD	49507	48.061	5.5	-0.9	-0.4	0.5	0.6	0.2
Personal consumption less foods and energy.....	FD	49510	54.892	5.5	0.3	0.6	0.1	0.2	0.3
Personal consumption less foods, energy, and trade services <sup>4</sup> .....	FD	49511	40.597	3.7	0.1	0.2	0.4	0.2	0.3
Personal consumption less foods, energy, and distributive services <sup>6</sup> .....	FD	49512	38.863	3.4	0.1	0.3	0.5	0.2	0.3
Personal consumption goods plus personal consumption distributive services <sup>6</sup> .....	FD	49509	31.675	10.9	-1.0	-0.2	-0.1	0.7	0.3
<b>Intermediate Demand by Commodity Type</b>									
<b>Processed goods</b>									
Processed goods for intermediate demand.....	ID6	1	100.000	7.7	-2.3	-1.4	-0.1	-0.1	-0.9
Materials and components for manufacturing.....	ID6	11	45.927	0.9	-0.8	-1.4	-1.1	-1.0	-0.3
Materials for manufacturing.....	ID6	111	30.390	-2.4	-1.4	-2.3	-1.8	-1.5	-0.5
Materials for food manufacturing.....	ID6	1111	4.084	12.4	-0.3	-0.9	-0.7	0.5	1.0
Materials for nondurable manufacturing.....	ID6	1112	13.045	2.3	-0.6	-2.7	-0.6	-1.0	-0.8
Materials for durable manufacturing.....	ID6	1113	13.261	-11.7	-2.8	-2.3	-3.4	-2.9	-0.8
Components for manufacturing.....	ID6	112	15.537	7.4	0.3	0.4	0.2	0.1	0.2

See footnotes at end of table.



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

Grouping	Commodity code		Relative Importance Dec. 2021 <sup>1</sup>	Unadjusted 12-month percent change <sup>2</sup> Nov. 2021 to Nov. 2022 <sup>P</sup>	Seasonally adjusted 1-month percent change <sup>2</sup>				
	Group code	Item code			June to July	July to Aug. <sup>P</sup>	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>	Oct. to Nov. <sup>P</sup>
Components for nondurable manufacturing.....	ID6	1121	0.800	7.8	0.6	0.7	-0.3	-0.1	-0.3
Components for durable manufacturing.....	ID6	1122	14.737	7.3	0.3	0.3	0.2	0.1	0.2
Materials and components for construction.....	ID6	12	9.074	10.0	0.2	0.4	-0.4	-0.3	-0.2
Materials for construction.....	ID6	121	3.869	9.5	0.0	0.5	-0.6	-0.6	-0.1
Components for construction.....	ID6	122	5.205	10.4	0.4	0.3	-0.2	-0.2	-0.3
Processed fuels and lubricants for intermediate demand.....	ID6	13	18.757	20.1	-8.8	-4.4	2.0	1.8	-3.7
Processed fuels and lubricants to manufacturing industries.....	ID6	131	4.683	21.4	-3.6	-2.2	1.5	0.9	-3.1
Processed fuels and lubricants to nonmanufacturing industries.....	ID6	132	14.074	19.7	-10.3	-5.1	2.1	2.1	-3.9
Containers for intermediate demand.....	ID6	14	2.795	13.7	0.0	1.3	0.3	-0.4	0.2
Supplies for intermediate demand.....	ID6	15	23.448	9.1	0.4	0.4	0.1	-0.2	0.2
Supplies to manufacturing industries.....	ID6	151	3.227	6.6	0.3	0.6	0.1	-0.6	0.0
Supplies to nonmanufacturing industries.....	ID6	152	20.221	9.5	0.5	0.4	0.0	-0.1	0.2
Supplies to nonmanufacturing industries, feeds.....	ID6	1521	1.743	15.4	1.3	1.7	1.3	-1.5	0.0
Supplies to nonmanufacturing industries, other than feeds.....	ID6	1522	18.478	9.0	0.4	0.2	-0.1	0.0	0.3
<b>Unprocessed goods</b>									
Unprocessed goods for intermediate demand.....	ID6	2	100.000	3.0	-9.3	4.6	-3.1	-10.5	-3.2
Unprocessed foodstuffs and feedstuffs.....	ID6	21	32.603	23.0	-1.9	-1.6	1.1	-1.5	1.1
Unprocessed nonfood materials.....	ID6	22	67.398	-5.5	-12.3	7.5	-4.9	-14.5	-5.4
Unprocessed nonfood materials except fuel.....	ID6	221	44.822	0.0	-11.5	-2.8	-3.2	-1.6	-1.5
Unprocessed nonfood materials except fuel to manufacturing industries.....	ID6	2211	42.852	-0.5	-12.0	-3.0	-3.3	-1.6	-1.5
Unprocessed nonfood materials except fuel to nonmanufacturing industries.....	ID6	2212	1.970	11.4	1.0	0.9	0.5	0.3	0.3
Unprocessed fuel.....	ID6	222	22.576	-15.6	-13.6	24.3	-7.1	-31.9	-13.0
Unprocessed fuel to manufacturing industries.....	ID6	2221	1.143	31.2	-2.7	6.4	-2.0	-10.8	-4.9
Unprocessed fuel to nonmanufacturing industries.....	ID6	2222	21.433	-17.9	-14.2	25.3	-7.3	-33.0	-13.5
<b>Services</b>									
Services for intermediate demand.....	ID6	3	100.000	6.7	0.3	0.6	0.4	0.4	0.6
Trade services for intermediate demand <sup>4</sup> .....	ID6	33	22.377	9.0	0.0	-0.9	-0.2	-0.1	0.5
Trade services for manufacturing industries.....	ID6	331	11.472	7.5	0.1	-1.1	0.1	-0.2	0.2
Trade services for nonmanufacturing industries.....	ID6	332	10.905	10.5	-0.1	-0.7	-0.5	0.0	0.8
Transportation and warehousing services for intermediate demand.....	ID6	32	13.264	6.3	1.0	-0.3	-0.8	0.6	-1.3
Transportation of passengers for intermediate demand.....	ID6	321	0.984	17.8	-2.9	0.7	-0.3	2.9	-5.6
Transportation of passengers for manufacturing industries.....	ID6	3211	0.116	18.2	-2.9	0.7	-0.3	2.9	-5.7
Transportation of passengers for nonmanufacturing industries.....	ID6	3212	0.868	17.7	-2.8	0.7	-0.3	2.8	-5.5
Transportation and warehousing of goods for intermediate demand.....	ID6	322	12.280	5.4	1.3	-0.4	-0.8	0.4	-0.9
Transportation and warehousing of goods for manufacturing industries.....	ID6	3221	2.498	11.3	0.7	-1.1	0.1	-0.6	0.7
Transportation and warehousing of goods for nonmanufacturing industries.....	ID6	3222	9.782	3.9	1.5	-0.3	-1.1	0.7	-1.4
Services less trade, transportation, and warehousing for intermediate demand.....	ID6	31	64.359	5.9	0.2	1.4	0.9	0.5	1.1
Services less trade, transportation, and warehousing for manufacturing industries.....	ID6	311	2.040	5.4	0.5	0.4	0.2	0.2	0.2
Services less trade, transportation, and warehousing for nonmanufacturing industries.....	ID6	312	62.318	5.9	0.2	1.4	0.9	0.5	1.1
<b>Construction</b>									
Construction for intermediate demand.....	ID6	4	100.000	8.5	-1.6	0.1	0.3	1.4	0.0
<b>Special Groupings of Intermediate Demand by Commodity Type</b>									
Processed materials less foods and feeds.....	ID6	9111	92.100	7.3	-2.5	-1.5	-0.1	-0.1	-1.0
Processed foods and feeds.....	ID6	9112	7.900	12.5	0.3	-0.1	-0.1	-0.1	0.7
Processed energy goods.....	ID6	9113	18.757	20.1	-8.8	-4.4	2.0	1.8	-3.7
Processed materials less energy.....	ID6	9118	81.243	4.7	-0.3	-0.6	-0.6	-0.6	-0.1
Processed materials less foods and energy.....	ID6	9115	73.343	3.9	-0.4	-0.6	-0.7	-0.7	-0.2
Intermediate distributive services <sup>7</sup> .....	ID6	9116	34.657	7.7	0.5	-0.8	-0.4	0.1	0.0
Processed goods plus intermediate distributive services.....	ID6	9117	-	7.7	-1.5	-1.2	-0.2	-0.1	-0.6
Unprocessed materials less agricultural products.....	ID6	9211	62.340	-7.1	-12.4	8.1	-5.9	-15.5	-5.7
Unprocessed energy materials <sup>8</sup> .....	ID6	9212	42.130	-4.4	-14.3	10.9	-6.8	-18.9	-7.8
Unprocessed materials less energy.....	ID6	9213	57.870	9.6	-4.0	-0.9	0.8	-2.8	0.5
Unprocessed nonfood materials less energy <sup>9</sup> .....	ID6	9216	25.267	-8.0	-7.2	0.4	0.0	-5.2	-0.7
<b>Intermediate Demand by Production Flow</b>									
<b>Stage 4 Intermediate Demand</b>									
Stage 4 intermediate demand.....	ID5	4	100.000	6.9	-0.4	0.3	0.4	0.0	0.2
Inputs to stage 4 goods producers.....	ID5	41	32.865	6.7	-0.3	-0.3	0.3	-0.3	0.0
Goods.....	ID5	411	23.183	6.3	-0.6	0.1	0.1	-0.4	-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**  
[November 2022]

Grouping	Commodity code		Relative Importance Dec. 2021 <sup>1</sup>	Unadjusted 12-month percent change <sup>2</sup> Nov. 2021 to Nov. 2022 <sup>P</sup>	Seasonally adjusted 1-month percent change <sup>2</sup>				
	Group code	Item code			June to July	July to Aug. <sup>P</sup>	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>	Oct. to Nov. <sup>P</sup>
Foods.....	ID5	4111	3.188	13.8	-2.6	0.6	2.2	-0.3	0.0
Energy.....	ID5	4112	0.189	19.0	-8.0	-3.3	0.3	2.0	-1.1
Goods excluding foods and energy.....	ID5	4113	19.806	5.0	-0.2	0.1	-0.2	-0.4	-0.1
Services.....	ID5	412	9.682	7.6	0.4	-1.4	0.6	-0.1	0.1
Trade services.....	ID5	4123	7.732	7.9	0.4	-1.7	0.7	-0.2	0.1
Transportation and warehousing services.....	ID5	4122	0.475	9.6	0.0	-0.8	-0.3	-0.2	-0.4
Transportation of passengers.....	ID5	41221	0.066	18.3	-2.9	0.7	-0.3	2.9	-5.7
Transportation and warehousing of goods.....	ID5	41222	0.409	8.2	0.5	-1.1	-0.3	-0.7	0.6
Services less trade, transportation, and warehousing.....	ID5	4121	1.475	5.1	0.5	0.4	0.2	0.1	0.3
Inputs to stage 4 services producers.....	ID5	42	52.483	6.4	-0.2	1.1	0.6	0.2	0.6
Goods.....	ID5	421	13.894	9.0	-0.7	0.1	0.4	0.0	-0.6
Foods.....	ID5	4211	2.353	6.4	0.7	-0.4	-0.9	-1.1	0.9
Energy.....	ID5	4212	3.737	12.0	-3.3	-0.3	1.5	0.2	-2.9
Goods excluding foods and energy.....	ID5	4213	7.804	8.3	0.2	0.6	0.1	0.1	0.3
Services.....	ID5	422	38.503	5.4	0.0	1.4	0.7	0.3	1.0
Trade services.....	ID5	4223	4.524	11.0	0.7	-0.1	0.6	0.0	0.3
Transportation and warehousing services.....	ID5	4222	3.277	6.7	1.6	-0.8	-0.3	0.7	-1.3
Transportation of passengers.....	ID5	42221	0.421	18.1	-2.9	0.7	-0.3	2.9	-5.6
Transportation and warehousing of goods.....	ID5	42222	2.856	5.1	2.3	-1.1	-0.3	0.3	-0.6
Services less trade, transportation, and warehousing.....	ID5	4221	30.702	4.5	-0.3	2.0	0.9	0.2	1.4
Construction.....	ID5	423	0.086	8.5	-1.6	0.1	0.3	1.4	0.0
Inputs to stage 4 construction producers.....	ID5	43	14.650	9.4	-1.4	-0.9	-0.4	0.2	-0.3
Goods.....	ID5	431	10.502	10.5	-1.7	-0.6	-0.3	0.2	-0.6
Energy.....	ID5	4312	0.844	19.1	-14.7	-10.0	0.1	4.4	-5.0
Goods excluding foods and energy.....	ID5	4313	9.658	9.7	0.1	0.5	-0.4	-0.2	-0.1
Services.....	ID5	432	4.148	6.6	-0.7	-1.5	-0.5	0.2	0.4
Trade services.....	ID5	4323	2.051	6.1	-1.5	-2.9	-1.0	0.6	0.3
Transportation and warehousing services.....	ID5	4322	0.612	10.5	0.0	-1.8	-0.6	-0.6	0.7
Transportation of passengers.....	ID5	43221	0.013	18.2	-2.9	0.7	-0.3	2.9	-5.7
Transportation and warehousing of goods.....	ID5	43222	0.599	10.3	0.1	-1.8	-0.6	-0.7	0.9
Services less trade, transportation, and warehousing.....	ID5	4321	1.485	5.7	0.2	0.7	0.1	0.0	0.3
<b>Stage 3 Intermediate Demand</b>									
Stage 3 intermediate demand.....	ID5	3	100.000	8.4	-1.4	-1.6	0.0	-0.1	-0.4
Inputs to stage 3 goods producers.....	ID5	31	49.802	6.3	-1.3	-2.1	-0.7	-1.5	-0.3
Goods.....	ID5	311	40.208	5.9	-1.6	-2.3	-0.8	-1.8	-0.5
Foods.....	ID5	3111	11.423	26.2	-1.1	-2.6	0.5	-1.9	1.0
Energy.....	ID5	3112	1.551	18.9	-9.0	-4.9	-0.7	-1.8	-3.9
Goods excluding foods and energy.....	ID5	3113	27.234	-2.7	-1.2	-2.0	-1.4	-1.8	-0.9
Services.....	ID5	312	9.594	7.8	-0.2	-1.0	-0.4	-0.1	0.3
Trade services.....	ID5	3123	5.774	6.2	-0.7	-1.3	-0.5	0.0	0.2
Transportation and warehousing services.....	ID5	3122	2.538	11.8	0.2	-1.3	-0.3	-0.4	0.6
Transportation of passengers.....	ID5	31221	0.120	18.2	-2.9	0.7	-0.3	2.9	-5.7
Transportation and warehousing of goods.....	ID5	31222	2.418	11.5	0.4	-1.4	-0.3	-0.6	0.9
Services less trade, transportation, and warehousing.....	ID5	3121	1.282	7.0	0.7	0.5	0.1	0.3	0.2
Inputs to stage 3 services producers.....	ID5	32	48.823	10.4	-1.5	-1.1	0.7	1.2	-0.4
Goods.....	ID5	321	10.251	27.7	-7.3	-5.6	2.3	2.7	-2.2
Foods.....	ID5	3211	0.088	13.7	1.3	2.9	1.4	-1.0	1.0
Energy.....	ID5	3212	6.099	40.1	-10.4	-8.2	3.5	4.1	-3.3
Goods excluding foods and energy.....	ID5	3213	4.064	8.3	0.1	-0.1	0.0	0.0	0.1
Services.....	ID5	322	37.657	5.6	0.7	0.5	0.1	0.6	0.2
Trade services.....	ID5	3223	2.600	14.2	0.9	-0.2	0.3	0.0	0.8
Transportation and warehousing services.....	ID5	3222	8.909	1.5	1.5	0.3	-1.7	1.2	-2.1
Transportation of passengers.....	ID5	32221	0.022	2.7	0.0	0.3	-0.3	0.0	-0.3
Transportation and warehousing of goods.....	ID5	32222	8.887	1.5	1.5	0.3	-1.7	1.2	-2.1
Services less trade, transportation, and warehousing.....	ID5	3221	26.148	6.1	0.4	0.7	0.7	0.5	0.9
Construction.....	ID5	323	0.915	8.5	-1.6	0.1	0.3	1.4	0.0
Inputs to stage 3 construction producers.....	ID5	33	1.376	7.4	-2.4	-1.8	-0.9	0.4	0.1
Goods.....	ID5	331	0.574	7.9	-0.6	0.4	-0.7	-0.6	-0.8
Goods excluding foods and energy.....	ID5	3313	0.574	7.9	-0.6	0.4	-0.7	-0.6	-0.8
Services.....	ID5	332	0.802	7.1	-3.6	-3.3	-1.1	1.1	0.7
Trade services.....	ID5	3323	0.760	7.0	-3.9	-3.6	-1.2	1.2	0.7
Transportation and warehousing services.....	ID5	3322	0.015	11.9	1.3	0.0	0.1	-0.8	0.6
Transportation and warehousing of goods.....	ID5	33222	0.015	11.9	1.3	0.0	0.1	-0.8	0.6
Services less trade, transportation, and warehousing.....	ID5	3321	0.027	7.4	0.7	1.1	0.0	0.3	0.1
<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**  
 [November 2022]

Grouping	Commodity code		Relative Importance Dec. 2021 <sup>1</sup>	Unadjusted 12-month percent change <sup>2</sup> Nov. 2021 to Nov. 2022 <sup>P</sup>	Seasonally adjusted 1-month percent change <sup>2</sup>				
	Group code	Item code			June to July	July to Aug. <sup>P</sup>	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>	Oct. to Nov. <sup>P</sup>
Stage 2 intermediate demand.....	ID5	2	100.000	3.8	-4.2	3.1	-1.8	-4.9	-1.4
Inputs to stage 2 goods producers.....	ID5	21	55.017	0.6	-7.4	4.4	-3.5	-9.0	-2.8
Goods.....	ID5	211	42.903	-1.8	-9.2	5.3	-4.3	-11.2	-3.7
Foods.....	ID5	2111	3.172	17.7	-4.7	3.0	2.9	-4.3	1.2
Energy.....	ID5	2112	20.215	-5.6	-14.3	10.3	-7.0	-18.8	-7.6
Goods excluding foods and energy.....	ID5	2113	19.516	-0.3	-1.9	-1.3	-1.4	-1.5	0.0
Services.....	ID5	212	11.646	10.6	1.3	1.0	0.2	0.3	0.6
Trade services.....	ID5	2123	5.347	11.1	1.4	1.1	-1.0	0.0	0.7
Transportation and warehousing services.....	ID5	2122	3.332	9.2	1.3	0.2	1.0	0.1	-0.4
Transportation of passengers.....	ID5	21221	0.156	17.2	-2.8	0.7	-0.3	2.8	-5.4
Transportation and warehousing of goods.....	ID5	21222	3.176	8.9	1.6	0.1	1.1	-0.1	0.0
Services less trade, transportation, and warehousing.....	ID5	2121	2.967	11.0	1.2	1.5	1.6	1.0	1.4
Construction.....	ID5	213	0.468	8.5	-1.6	0.1	0.3	1.4	0.0
Inputs to stage 2 services producers.....	ID5	22	44.982	7.7	0.6	1.2	0.5	0.8	0.4
Goods.....	ID5	221	5.753	7.9	-1.2	-0.2	-0.1	-0.1	-0.5
Foods.....	ID5	2211	0.032	10.1	0.6	0.9	0.1	-2.7	-0.7
Energy.....	ID5	2212	0.393	10.9	-15.1	-4.0	2.1	1.1	-6.2
Goods excluding foods and energy.....	ID5	2213	5.328	7.7	0.2	0.1	-0.3	-0.2	-0.1
Services.....	ID5	222	37.664	7.7	0.9	1.5	0.6	0.9	0.6
Trade services.....	ID5	2223	2.497	13.6	3.9	3.4	-3.0	-2.6	1.9
Transportation and warehousing services.....	ID5	2222	3.167	-6.0	0.5	1.7	-5.0	3.0	-7.3
Transportation of passengers.....	ID5	22221	0.356	18.1	-2.9	0.7	-0.3	2.9	-5.6
Transportation and warehousing of goods.....	ID5	22222	2.811	-9.0	1.0	1.8	-5.6	3.0	-7.6
Services less trade, transportation, and warehousing.....	ID5	2221	32.000	8.6	0.7	1.3	1.4	0.9	1.2
Construction.....	ID5	223	1.565	8.5	-1.6	0.1	0.3	1.4	0.0
<b>Stage 1 Intermediate Demand</b>									
Stage 1 intermediate demand.....	ID5	1	100.000	7.6	-1.9	-0.5	0.3	0.1	-0.3
Inputs to stage 1 goods producers.....	ID5	11	35.307	2.1	-2.8	-1.1	-0.3	-1.3	-0.9
Goods.....	ID5	111	25.965	0.9	-3.6	-1.4	-0.3	-1.7	-1.3
Foods.....	ID5	1111	3.181	14.5	-5.3	2.0	5.3	-3.9	-1.0
Energy.....	ID5	1112	3.712	9.5	-9.8	-1.3	1.6	-0.9	-4.1
Goods excluding foods and energy.....	ID5	1113	19.072	-3.0	-1.7	-2.0	-1.7	-1.4	-0.8
Services.....	ID5	112	9.341	5.4	-0.5	-0.2	-0.5	-0.3	0.1
Trade services.....	ID5	1123	6.053	5.0	-0.3	-0.8	-1.1	-0.4	0.1
Transportation and warehousing services.....	ID5	1122	0.488	18.1	0.9	0.7	0.6	-0.3	-0.4
Transportation of passengers.....	ID5	11221	0.084	18.3	-2.9	0.7	-0.3	2.9	-5.7
Transportation and warehousing of goods.....	ID5	11222	0.404	17.7	1.6	0.6	0.7	-0.8	0.4
Services less trade, transportation, and warehousing.....	ID5	1121	2.800	3.6	-1.2	1.0	0.5	-0.1	0.4
Construction.....	ID5	113	0.001	8.5	-1.6	0.1	0.3	1.4	0.0
Inputs to stage 1 services producers.....	ID5	12	51.790	10.2	-1.3	0.1	0.8	0.9	0.1
Goods.....	ID5	121	17.196	17.4	-3.3	-1.8	1.3	1.6	-1.3
Foods.....	ID5	1211	0.051	102.4	-2.9	-3.4	-5.6	20.8	-1.0
Energy.....	ID5	1212	5.758	29.1	-9.0	-5.6	3.4	3.9	-3.8
Goods excluding foods and energy.....	ID5	1213	11.387	10.8	0.7	0.6	0.1	0.1	0.2
Services.....	ID5	122	34.589	6.6	-0.1	1.2	0.5	0.5	0.8
Trade services.....	ID5	1223	3.797	12.4	0.8	-0.6	0.4	-0.8	1.3
Transportation and warehousing services.....	ID5	1222	3.611	11.0	0.3	-0.3	-0.2	1.1	-1.7
Transportation of passengers.....	ID5	12221	1.098	18.3	-2.9	0.7	-0.3	2.9	-5.7
Transportation and warehousing of goods.....	ID5	12222	2.513	7.9	1.9	-0.7	-0.1	0.2	0.2
Services less trade, transportation, and warehousing.....	ID5	1221	27.181	5.2	-0.3	1.6	0.6	0.6	1.1
Construction.....	ID5	123	0.005	8.5	-1.6	0.1	0.3	1.4	0.0
Inputs to stage 1 construction producers.....	ID5	13	12.903	12.5	-2.1	-1.5	0.2	0.8	-0.1
Goods.....	ID5	131	8.482	15.2	-1.6	-0.7	0.7	0.9	-0.6
Energy.....	ID5	1312	0.827	52.9	-12.5	-8.9	5.7	8.0	-4.2
Goods excluding foods and energy.....	ID5	1313	7.655	10.9	0.3	0.5	0.0	-0.2	0.0
Services.....	ID5	132	4.421	7.4	-3.0	-3.1	-0.9	0.6	0.8
Trade services.....	ID5	1323	3.756	6.7	-3.5	-3.3	-1.0	0.8	0.8
Transportation and warehousing services.....	ID5	1322	0.609	11.6	-0.1	-2.0	-0.6	-0.6	1.0
Transportation and warehousing of goods.....	ID5	13222	0.609	11.6	-0.1	-2.0	-0.6	-0.6	1.0
Services less trade, transportation, and warehousing.....	ID5	1321	0.056	8.3	0.0	2.6	0.3	0.0	0.1
<b>Special Groupings of Intermediate Demand by Production Flow</b>									
Total goods inputs to stage 4 intermediate demand.....	ID5	9411	47.579	8.0	-0.9	0.0	0.1	-0.2	-0.3
Total services inputs to stage 4 intermediate demand.....	ID5	9412	52.333	5.9	0.0	0.7	0.6	0.2	0.8
Total construction inputs to stage 4 intermediate demand.....	ID5	9413	0.086	8.5	-1.6	0.1	0.3	1.4	0.0
Total foods inputs to stage 4 intermediate demand.....	ID5	9414	5.541	10.7	-1.2	0.2	0.9	-0.6	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**  
 [November 2022]

Grouping	Commodity code		Relative Importance Dec. 2021 <sup>1</sup>	Unadjusted 12-month percent change <sup>2</sup> Nov. 2021 to Nov. 2022 <sup>p</sup>	Seasonally adjusted 1-month percent change <sup>2</sup>				
	Group code	Item code			June to July	July to Aug. <sup>p</sup>	Aug. to Sept. <sup>p</sup>	Sept. to Oct. <sup>p</sup>	Oct. to Nov. <sup>p</sup>
Total energy goods inputs to stage 4 intermediate demand.....	ID5	9415	4.770	13.6	-6.0	-2.4	1.2	1.1	-3.3
Total goods less foods and energy inputs to stage 4 intermediate demand. ....	ID5	9416	37.268	6.9	0.0	0.3	-0.2	-0.3	0.0
Total goods inputs to stage 3 intermediate demand.....	ID5	9311	51.033	10.6	-3.0	-3.1	-0.1	-0.7	-0.9
Total services inputs to stage 3 intermediate demand.....	ID5	9312	48.053	6.0	0.4	0.1	0.0	0.5	0.2
Total construction inputs to stage 3 intermediate demand.....	ID5	9313	0.915	8.5	-1.6	0.1	0.3	1.4	0.0
Total foods inputs to stage 3 intermediate demand.....	ID5	9314	11.511	26.1	-1.1	-2.6	0.5	-1.9	1.0
Total energy goods inputs to stage 3 intermediate demand.....	ID5	9315	7.650	35.9	-10.2	-7.6	2.7	3.0	-3.4
Total goods less foods and energy inputs to stage 3 intermediate demand. ....	ID5	9316	31.872	-1.1	-1.0	-1.7	-1.2	-1.5	-0.8
Total goods inputs to stage 2 intermediate demand.....	ID5	9211	48.656	-0.8	-8.4	4.7	-3.9	-10.2	-3.4
Total services inputs to stage 2 intermediate demand.....	ID5	9212	49.310	8.3	1.0	1.4	0.5	0.7	0.6
Total construction inputs to stage 2 intermediate demand.....	ID5	9213	2.033	8.5	-1.6	0.1	0.3	1.4	0.0
Total foods inputs to stage 2 intermediate demand.....	ID5	9214	3.204	17.6	-4.7	3.0	2.9	-4.3	1.2
Total energy goods inputs to stage 2 intermediate demand.....	ID5	9215	20.608	-5.3	-14.3	10.0	-6.9	-18.5	-7.6
Total goods less foods and energy inputs to stage 2 intermediate demand. ....	ID5	9216	24.844	1.4	-1.4	-1.0	-1.2	-1.2	0.0
Total goods inputs to stage 1 intermediate demand.....	ID5	9111	51.643	8.5	-3.2	-1.4	0.4	-0.1	-1.2
Total services inputs to stage 1 intermediate demand.....	ID5	9112	48.351	6.4	-0.5	0.5	0.2	0.4	0.7
Total construction inputs to stage 1 intermediate demand.....	ID5	9117	0.006	8.5	-1.6	0.1	0.3	1.4	0.0
Total foods inputs to stage 1 intermediate demand.....	ID5	9114	3.232	15.9	-5.2	1.9	5.1	-3.4	-1.0
Total energy goods inputs to stage 1 intermediate demand.....	ID5	9115	10.297	24.0	-9.6	-4.5	3.0	2.7	-3.9
Total goods less foods and energy inputs to stage 1 intermediate demand. ....	ID5	9116	38.114	3.9	-0.6	-0.7	-0.8	-0.7	-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**  
[November 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		Nov. 2021 to Nov. 2022 <sup>P</sup>	June to July	July to Aug. <sup>P</sup>	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>
<b>Final Demand</b>								
Final demand.....	FD	4	7.4	-0.4	0.0	0.3	0.3	0.3
Final demand goods.....	FD	41	9.7	-1.8	-1.0	0.3	0.6	0.1
Final demand foods.....	FD	411	15.5	1.2	-0.1	1.5	0.8	3.3
Fresh fruits and melons <sup>2</sup> .....	01	11	15.8	2.0	0.5	-1.3	11.5	3.2
Fresh and dry vegetables <sup>2</sup> .....	01	13	80.6	12.7	1.7	15.7	22.4	38.1
Grains.....	01	2	19.2	-11.8	3.2	10.5	-5.8	-3.2
Eggs for fresh use <sup>2</sup> .....	01	7107	244.1	44.2	-25.0	16.6	15.0	26.0
Oilseeds.....	01	8301	20.8	-13.6	5.1	5.4	-9.5	4.8
Bakery products <sup>2</sup> .....	02	11	14.8	1.9	1.7	0.7	0.2	1.6
Milled rice <sup>2</sup> .....	02	13	20.9	3.6	1.9	2.1	1.4	0.5
Pasta products <sup>2</sup> .....	02	1402	32.8	4.7	0.0	1.1	3.0	-1.5
Beef and veal.....	02	2101	-15.6	7.5	-1.8	-3.4	-1.7	3.6
Pork.....	02	2104	2.8	-0.3	2.1	2.3	-0.1	2.3
Processed young chickens.....	02	2203	-1.9	-1.1	-3.3	-1.7	-6.9	-1.3
Processed turkeys.....	02	2206	37.6	1.9	1.7	0.5	1.9	0.5
Finfish and shellfish.....	02	23	-10.4	-2.1	1.2	2.3	-1.0	-2.6
Dairy products.....	02	3	16.1	-0.4	-2.0	-1.4	0.4	-0.7
Processed fruits and vegetables <sup>2</sup> .....	02	4	18.5	2.2	1.0	2.9	0.7	1.7
Confectionery end products <sup>2</sup> .....	02	55	6.5	1.6	0.5	0.4	0.4	0.3
Soft drinks <sup>2</sup> .....	02	62	14.5	1.0	5.4	2.1	0.0	0.1
Roasted coffee <sup>2</sup> .....	02	6301	21.5	-1.9	2.1	4.5	1.3	0.5
Shortening and cooking oils <sup>2</sup> .....	02	78	14.4	-5.0	-0.8	-1.2	-3.4	4.1
Frozen specialty food <sup>2</sup> .....	02	85	17.5	1.4	0.3	2.4	-0.2	1.0
Final demand energy.....	FD	412	16.2	-9.1	-5.4	0.3	2.3	-3.3
Liquefied petroleum gas <sup>2</sup> .....	05	32	-24.6	-11.3	-4.2	-14.6	-16.5	0.1
Residential electric power.....	05	41	12.4	0.6	1.7	0.1	1.7	-0.6
Residential natural gas.....	05	51	14.5	-2.5	0.8	3.1	-1.8	-3.5
Gasoline.....	05	71	6.8	-17.5	-12.1	-1.5	4.9	-6.0
Home heating oil and distillates.....	05	7302	45.5	-11.4	-6.0	1.2	9.7	-13.1
No. 2 diesel fuel.....	05	7303	59.6	-14.9	-10.5	7.7	10.0	-4.5
Final demand goods less foods and energy.....	FD	413	6.2	0.1	0.2	0.0	0.0	0.3
Alcoholic beverages.....	02	61	7.0	-0.5	0.3	0.3	1.1	1.1
Pet food <sup>2</sup> .....	02	9402	14.6	0.5	0.9	0.2	0.0	0.8
Women's, girls', and infants' apparel <sup>2</sup> .....	03	8106	0.6	0.1	0.1	0.1	-0.1	0.0
Men's and boys' apparel <sup>2</sup> .....	03	8107	10.9	0.5	0.0	1.5	0.0	0.4
Textile housefurnishings <sup>2</sup> .....	03	82	2.8	1.0	-0.8	0.3	1.0	0.0
Footwear.....	04	3	10.9	1.6	1.3	3.6	0.8	-0.1
Industrial chemicals.....	06	1	1.3	0.4	-5.3	-1.0	-0.7	-1.4
Pharmaceutical preparations.....	06	38	2.2	0.6	0.3	0.3	0.2	0.1
Soaps and detergents <sup>2</sup> .....	06	71	12.7	0.4	0.8	1.0	0.2	1.4
Cleaning and polishing products <sup>2</sup> .....	06	72	5.9	0.1	1.5	0.2	0.2	0.0
Cosmetics and other toiletries <sup>2</sup> .....	06	75	6.9	0.2	0.5	0.2	0.5	0.1
Tires <sup>2</sup> .....	07	1201	15.2	1.8	0.7	0.5	1.1	0.6
Consumer, institutional, and commercial products, n.e.c. <sup>2</sup> .....	07	2B	15.8	0.9	0.6	-0.4	-0.5	0.3
Sanitary paper products <sup>2</sup> .....	09	1501	17.3	1.6	0.3	1.5	1.6	4.2
Iron and steel scrap <sup>2</sup> .....	10	12	-34.3	-12.6	-8.0	-3.4	-3.9	-2.6
Agricultural machinery and equipment.....	11	1	14.4	0.3	0.8	1.0	1.8	-0.1
Construction machinery and equipment <sup>2</sup> .....	11	2	9.7	0.4	2.6	0.1	0.0	0.2
Metal cutting machine tools <sup>2</sup> .....	11	37	4.6	0.0	0.3	0.0	0.4	0.8
Metal forming machine tools.....	11	38	5.7	0.3	1.4	0.1	0.2	-0.2
Tools, dies, jigs, fixtures, and industrial molds <sup>2</sup> .....	11	39	8.0	0.4	0.5	0.4	0.6	0.1
Pumps, compressors, and equipment.....	11	41	16.5	1.5	0.5	0.8	0.6	0.9
Industrial material handling equipment <sup>2</sup> .....	11	44	11.5	0.8	0.5	0.1	0.2	1.6
Electronic computers and computer equipment <sup>2</sup> .....	11	5	4.7	0.5	-0.2	-0.5	-0.4	0.5
Textile machinery and equipment <sup>2</sup> .....	11	62	6.0	0.0	0.0	0.0	0.0	0.0
Paper industries machinery <sup>2</sup> .....	11	64	9.0	0.0	1.1	1.2	-0.1	0.0
Printing trades machinery and equipment <sup>2</sup> .....	11	65	4.5	0.1	0.2	0.4	0.4	0.0
Transformers and power regulators <sup>2</sup> .....	11	74	20.5	1.9	0.1	0.1	-2.7	2.5
Communication and related equipment.....	11	76	4.3	0.5	0.1	0.0	0.2	0.7
Electronic components and accessories.....	11	78	4.4	0.0	-0.3	0.4	0.7	0.3
X-ray and electromedical equipment <sup>2</sup> .....	11	7905	4.3	1.3	0.0	0.1	0.0	0.0
Oil field and gas field machinery <sup>2</sup> .....	11	91	9.6	0.1	0.0	0.3	4.8	0.2
Mining machinery and equipment <sup>2</sup> .....	11	92	13.3	0.0	0.3	2.7	0.0	1.1
Office and store machines and equipment <sup>2</sup> .....	11	93	2.2	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**  
 [November 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		Nov. 2021 to Nov. 2022 <sup>P</sup>	June to July	July to Aug. <sup>P</sup>	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>
Household furniture <sup>2</sup> .....	12	1	7.9	2.0	0.6	0.1	-0.4	-0.1
Commercial furniture <sup>2</sup> .....	12	2	13.2	-0.3	0.9	0.8	0.5	1.3
Floor coverings <sup>2</sup> .....	12	3	0.8	0.6	1.4	0.3	0.0	0.6
Household appliances <sup>2</sup> .....	12	4	8.6	0.1	0.2	-0.1	-0.2	-1.4
Home electronic equipment <sup>2</sup> .....	12	5	6.9	0.2	0.0	1.7	0.2	0.0
Lawn and garden equipment excl. garden tractors <sup>2</sup> .....	12	66	9.0	0.2	0.4	-0.1	0.1	-0.4
Passenger cars.....	14	1101	2.0	0.2	0.4	0.1	-1.5	0.3
Light motor trucks.....	14	1105	6.7	0.7	0.2	0.1	0.6	0.5
Heavy motor trucks <sup>2</sup> .....	14	1106	2.6	0.0	0.1	-0.1	0.2	0.0
Motor vehicles parts <sup>2</sup> .....	14	12	3.6	0.2	0.5	0.2	-0.1	-0.1
Truck trailers <sup>2</sup> .....	14	14	20.0	0.7	0.1	0.2	0.5	0.0
Travel trailers and campers <sup>2</sup> .....	14	16	8.2	0.1	0.2	1.1	0.6	0.1
Aircraft.....	14	21	5.0	0.3	0.3	0.1	0.3	0.3
Ships <sup>2</sup> .....	14	31	3.3	0.1	0.0	-0.3	0.0	0.0
Railroad equipment <sup>2</sup> .....	14	4	1.9	0.0	0.3	0.2	0.0	0.1
Toys, games, and children's vehicles <sup>2</sup> .....	15	11	4.0	0.0	0.0	0.0	1.2	0.0
Sporting and athletic goods.....	15	12	16.4	0.0	-0.2	-1.2	0.4	2.2
Cigarettes <sup>2</sup> .....	15	21	12.3	0.8	2.0	0.8	0.0	2.1
Mobile homes <sup>2</sup> .....	15	5	11.5	0.1	-1.3	-0.9	-0.9	-0.4
Medical, surgical & personal aid devices.....	15	6	4.0	0.1	0.3	0.3	0.3	-0.1
Jewelry, platinum and karat gold <sup>2</sup> .....	15	9402	10.2	-2.8	1.7	-1.5	-0.5	4.0
Costume jewelry and novelties <sup>2</sup> .....	15	9404	5.7	1.1	0.0	0.0	0.0	0.0
Final demand services.....	FD	42	5.9	0.2	0.5	0.2	0.1	0.4
Final demand trade services <sup>3</sup> .....	FD	423	10.8	0.7	1.1	-0.3	-0.1	0.7
Machinery and equipment parts and supplies wholesaling <sup>2</sup> .....	57	1102	7.1	0.8	-2.8	1.6	-0.5	-0.1
Machinery and vehicle wholesaling <sup>2</sup> .....	57	1103	22.8	2.0	1.3	1.4	-0.3	3.0
Professional and commercial equipment wholesaling <sup>2</sup> .....	57	1104	-6.3	-0.5	-2.7	-1.4	-1.8	1.2
Furnishings wholesaling <sup>2</sup> .....	57	2	19.1	2.4	1.5	0.8	1.6	0.0
Chemicals and allied products wholesaling <sup>2</sup> .....	57	5	7.5	0.4	6.2	-1.1	-2.2	0.0
Paper and plastics products wholesaling <sup>2</sup> .....	57	6	18.4	-1.4	-0.8	3.9	0.0	0.3
Apparel wholesaling <sup>2</sup> .....	57	7	11.0	0.8	1.9	3.1	6.6	-0.5
Food and alcohol wholesaling <sup>2</sup> .....	57	8	15.6	2.3	2.0	-1.3	2.0	1.2
Food and alcohol retailing.....	58	1	20.9	1.5	1.0	2.3	2.8	0.1
Health, beauty, and optical goods retailing <sup>2</sup> .....	58	2	5.6	1.7	1.0	-3.9	2.4	0.0
Apparel, jewelry, footwear, and accessories retailing.....	58	3	2.1	-5.3	3.1	1.1	-1.1	3.5
Computer hardware, software, and supplies retailing <sup>2</sup> .....	58	4	5.8	-2.6	-5.1	0.0	-0.4	-1.3
TV, video, and photographic equipment and supplies retailing <sup>2</sup> .....	58	5	-12.0	-5.2	-0.4	-11.0	-1.1	-4.9
Automobiles retailing (partial).....	58	6101	-6.1	-1.7	-2.0	-0.2	-4.8	-7.4
Automotive parts, including tires, retailing <sup>2</sup> .....	58	6102	15.6	2.6	0.4	1.3	0.4	-0.8
RVs, trailers, and campers retailing <sup>2</sup> .....	58	8	-34.3	-4.3	-1.6	-8.8	-7.0	0.0
Sporting goods, including boats, retailing.....	58	9	-7.3	0.5	2.4	0.9	3.0	-6.4
Lawn, garden, and farm equipment and supplies retailing <sup>2</sup> .....	58	A	21.1	0.1	7.8	0.7	-3.7	0.4
Furniture retailing <sup>2</sup> .....	58	B	-5.3	-0.6	-3.1	0.0	-3.4	-0.3
Flooring and floor coverings retailing <sup>2</sup> .....	58	C	18.7	-1.6	-1.6	-3.7	3.5	0.6
Hardware, building materials, and supplies retailing.....	58	D	4.0	-7.1	-5.9	-2.1	2.5	0.3
Major household appliances retailing.....	58	E	9.6	0.8	-3.9	1.2	-0.1	-0.2
Fuels and lubricants retailing.....	58	F	19.6	10.0	12.4	-8.8	-7.0	5.4
Cleaning supplies and paper products retailing <sup>2</sup> .....	58	G	14.0	10.1	-1.2	-1.0	-1.2	-1.0
Book retailing <sup>2</sup> .....	58	H	5.3	2.0	2.4	-0.5	1.8	-0.1
Final demand transportation and warehousing services.....	FD	422	12.7	-0.5	-1.1	-0.3	0.4	-0.9
Rail transportation of freight and mail <sup>2</sup> .....	30	11	8.6	1.2	-0.4	0.0	-0.7	0.6
Truck transportation of freight <sup>2</sup> .....	30	12	11.1	-0.2	-2.2	-0.7	-0.6	1.1
Air transportation of freight <sup>2</sup> .....	30	14	-1.8	-0.7	-1.5	-1.5	-2.8	-2.0
Courier, messenger, and U.S. postal services.....	30	16	8.1	2.2	-0.3	0.4	0.4	0.5
Rail transportation of passengers.....	30	21	2.1	0.1	0.2	-0.3	-0.1	-0.1
Airline passenger services.....	30	22	18.3	-2.9	0.7	-0.3	2.9	-5.7
Final demand services less trade, transportation, and warehousing.....	FD	421	2.7	0.0	0.3	0.6	0.2	0.4
Sales of books <sup>2</sup> .....	33	11	7.3	0.7	0.1	-1.0	1.3	0.1
Sales and subscriptions of periodicals and newspapers.....	33	12	1.6	0.5	-0.4	6.0	-0.2	-3.8
Application software publishing <sup>2</sup> .....	34	2	0.1	0.7	-1.5	1.9	-0.6	-1.2
Advertising space sales in periodicals, newspapers, directories, and mailing lists <sup>2</sup> .....	36	1	-0.2	-0.8	0.2	-0.5	0.6	-0.3
Residential wired telecommunication services.....	37	11	3.9	0.4	0.9	2.4	0.2	0.0
Wireless telecommunication services.....	37	2	2.0	0.0	0.5	0.0	0.0	0.4
Cable and satellite subscriber services.....	37	3	7.7	1.0	0.3	1.1	0.6	1.1
Internet access services <sup>2</sup> .....	37	4	-1.8	0.1	-0.3	0.2	-0.2	-0.9

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**  
 [November 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		Nov. 2021 to Nov. 2022 <sup>P</sup>	June to July	July to Aug. <sup>P</sup>	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>
Bundled wired telecommunications access services <sup>2</sup> .....	37	5	6.8	2.7	0.4	1.7	1.2	-0.1
Consumer loans (partial).....	39	12	9.3	1.3	4.4	-0.8	0.1	3.4
Deposit services (partial) <sup>2</sup> .....	39	2	-5.9	0.3	-1.2	4.0	0.2	-1.3
Other credit intermediation, incl. trust services (partial) <sup>2</sup> .....	39	3	-5.4	0.2	-4.8	0.5	-0.1	-2.5
Securities brokerage, dealing, investment advice, and related services <sup>2</sup> ...	40	1	19.1	0.1	9.5	-1.9	3.9	11.3
Portfolio management <sup>2</sup> .....	40	2	-13.2	-7.1	2.2	1.6	-1.7	1.7
Life insurance <sup>2</sup> .....	41	1101	3.4	0.4	0.0	0.0	0.1	0.0
Disability insurance, including accidental death <sup>2</sup> .....	41	1102	-0.4	-0.3	0.0	0.0	0.0	0.0
Health and medical insurance.....	41	1103	2.0	-0.1	0.2	0.2	0.1	0.2
Property and casualty insurance <sup>2</sup> .....	41	1104	2.9	0.8	0.1	0.4	0.0	0.0
Annuities <sup>2</sup> .....	41	2	-1.2	0.1	0.0	0.5	-0.3	0.0
Residential property sales and leases, brokerage fees and commissions..	43	21	8.1	0.5	1.1	0.1	-0.5	0.0
Passenger car rental.....	44	1	-0.4	-2.5	3.7	-0.7	2.5	-3.0
Legal services.....	45	1	4.9	0.4	0.4	0.8	0.4	0.4
Tax preparation and planning.....	45	2102	5.3	1.5	0.9	0.4	-0.7	0.6
Architectural and engineering services.....	45	3	5.7	0.1	0.4	0.1	0.0	0.3
Management, scientific, and technical consulting services.....	45	4	-0.1	1.1	0.0	-0.3	-0.8	0.2
Arrangement of flights (partial).....	47	1	12.7	3.1	-0.4	0.0	-0.9	0.4
Arrangement of vehicle rentals and lodging <sup>2</sup> .....	47	2	4.4	0.3	-0.6	-0.2	-0.4	0.5
Arrangement of cruises and tours <sup>2</sup> .....	47	3	4.8	1.5	0.1	-5.3	5.4	-0.1
Physician care.....	51	1101	0.7	-0.1	0.0	0.2	0.5	0.2
Medical laboratory and diagnostic imaging care <sup>2</sup> .....	51	1102	-1.0	-0.4	0.0	0.0	0.0	-0.5
Home health and hospice care.....	51	1103	2.3	-0.1	0.2	0.1	1.0	0.1
Hospital outpatient care <sup>2</sup> .....	51	1104	1.4	0.7	-0.6	-0.2	-1.3	0.0
Dental care.....	51	1105	3.7	0.2	0.0	0.6	-0.1	0.1
Hospital inpatient care.....	51	2101	4.4	0.6	-0.1	0.2	0.9	0.2
Nursing home care.....	51	2102	4.5	1.6	0.7	0.4	0.3	0.4
Traveler accommodation services.....	53	11	10.3	-0.7	-3.2	3.1	2.0	-1.6
Food and beverages for immediate consumption services (partial) <sup>2</sup> .....	54	1	-2.1	0.7	0.3	-1.0	-0.3	0.4
Motor vehicle repair and maintenance (partial).....	55	2	4.7	0.4	0.4	0.4	0.4	0.0
Membership dues and admissions and recreation facility use fees (partial) <sup>2</sup> .....	56	1	4.6	0.6	-0.3	0.4	0.9	1.0
Recreational activity instruction fees (partial) <sup>2</sup> .....	56	2	1.4	0.1	0.0	0.0	0.0	0.0
Gaming receipts (partial) <sup>2</sup> .....	56	3	-3.7	2.2	-2.3	5.4	-0.2	-4.3
Mining services <sup>2</sup> .....	60	1	13.1	-0.9	0.9	2.4	0.3	0.4
Final demand construction.....	FD	43	19.0	5.0	0.2	0.2	2.8	0.1
New warehouse building construction <sup>2</sup> .....	80	1101	21.3	5.6	0.0	0.2	2.1	0.3
New school building construction <sup>2</sup> .....	80	1102	17.7	5.6	0.1	0.3	3.3	0.0
New office building construction <sup>2</sup> .....	80	1103	21.0	5.0	0.3	0.2	2.6	0.2
New industrial building construction <sup>2</sup> .....	80	1104	21.6	5.9	0.2	0.3	2.8	0.2
New health care building construction <sup>2</sup> .....	80	1105	18.4	5.9	0.1	0.2	3.5	0.1
<b>Intermediate Demand by Commodity Type</b>								
Processed goods for intermediate demand.....	ID6	1	7.7	-2.3	-1.4	-0.1	-0.1	-0.9
Processed foods and feeds.....	ID6	9112	12.5	0.3	-0.1	-0.1	-0.1	0.7
Meats.....	02	21	-5.2	3.4	0.3	-0.6	-0.5	2.3
Processed poultry.....	02	22	7.4	-1.1	-2.6	-5.8	-7.0	2.9
Dairy products.....	02	3	16.1	-0.4	-2.0	-1.4	0.4	-0.7
Processed fruits and vegetables <sup>2</sup> .....	02	4	18.5	2.2	1.0	2.9	0.7	1.7
Refined sugar and byproducts <sup>2</sup> .....	02	53	10.1	0.5	0.7	4.5	0.2	-0.2
Fats and oils <sup>2</sup> .....	02	7	14.3	-3.7	-1.2	-0.2	-2.4	3.5
Prepared animal feeds <sup>2</sup> .....	02	9	15.2	0.1	1.0	0.3	-1.7	0.6
Processed materials less foods and feeds.....	ID6	9111	7.3	-2.5	-1.5	-0.1	-0.1	-1.0
Synthetic fibers <sup>2</sup> .....	03	1	6.9	1.7	2.2	1.0	0.1	-0.1
Processed yarns and threads <sup>2</sup> .....	03	2	8.5	1.2	-0.1	-3.0	-3.8	-1.5
Finished fabrics <sup>2</sup> .....	03	4	10.1	0.6	0.7	0.0	-0.2	0.7
Liquefied petroleum gas <sup>2</sup> .....	05	32	-24.6	-11.3	-4.2	-14.6	-16.5	0.1
Commercial electric power.....	05	42	10.4	1.8	2.3	0.3	-0.8	-1.4
Industrial electric power.....	05	43	8.6	3.2	1.1	2.4	-0.1	-2.7
Commercial natural gas.....	05	52	16.8	-2.3	3.3	3.0	-3.8	-6.0
Industrial natural gas.....	05	53	15.9	-9.6	10.3	2.2	-7.2	-4.6
Natural gas to electric utilities.....	05	54	-23.5	-19.1	6.8	0.1	-8.4	-9.9
Gasoline.....	05	71	6.8	-17.5	-12.1	-1.5	4.9	-6.0
Jet fuel <sup>2</sup> .....	05	7203	48.9	-6.1	-11.1	1.9	-1.1	0.2
No. 2 diesel fuel.....	05	7303	59.6	-14.9	-10.5	7.7	10.0	-4.5
Residual fuels <sup>2</sup> .....	05	74	-11.0	-4.2	-16.7	-2.1	-17.9	-0.7

See footnotes at end of table.

**Table 2. Producer price index percentage changes for selected commodity groupings by Final Demand-Intermediate Demand category, seasonally adjusted — Continued**  
 [November 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		Nov. 2021 to Nov. 2022 <sup>P</sup>	June to July	July to Aug. <sup>P</sup>	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>
Finished lubricants <sup>2</sup> .....	05	76	23.1	3.1	0.8	2.7	1.3	0.3
Lubricating oil base stocks <sup>2</sup> .....	05	78	33.5	2.9	-0.7	-5.4	-2.8	-1.8
Asphalt.....	05	8102	3.9	-4.9	-6.2	-6.9	-11.5	-4.9
Basic inorganic chemicals <sup>2</sup> .....	06	13	31.0	4.4	0.2	1.0	1.8	1.4
Basic organic chemicals.....	06	14	-2.9	-0.2	-6.2	-1.4	-1.1	-1.9
Prepared paint <sup>2</sup> .....	06	21	21.5	1.8	0.3	0.8	0.5	0.1
Paint materials <sup>2</sup> .....	06	22	20.8	1.9	3.1	2.0	-1.1	4.6
Medicinal and botanical chemicals <sup>2</sup> .....	06	31	2.1	0.0	0.1	0.3	-0.1	0.5
Biological products, including diagnostics.....	06	37	5.0	0.4	0.5	0.3	0.0	0.3
Fats and oils, inedible <sup>2</sup> .....	06	4	13.6	-7.7	0.9	-1.1	-1.0	6.2
Nitrogenates.....	06	5201	24.3	-8.7	1.9	-0.5	2.9	0.7
Phosphates.....	06	5202	2.4	-2.0	-0.4	0.3	0.3	-0.1
Other agricultural chemicals <sup>2</sup> .....	06	53	36.9	0.7	0.3	0.8	1.9	-0.2
Plastic resins and materials.....	06	6	-10.7	-2.8	-3.9	-0.4	-3.1	-2.7
Industrial gases <sup>2</sup> .....	06	7903	21.8	2.8	-0.5	0.5	0.3	6.2
Adhesives and sealants <sup>2</sup> .....	06	7904	19.5	0.7	1.8	0.7	0.2	0.2
Synthetic rubber <sup>2</sup> .....	07	1102	1.7	4.0	0.1	-1.1	-1.7	-3.5
Tires <sup>2</sup> .....	07	1201	15.2	1.8	0.7	0.5	1.1	0.6
Plastic construction products <sup>2</sup> .....	07	21	11.3	1.3	0.3	-0.4	-0.8	-0.5
Unsupported plastic film, sheet, other shapes <sup>2</sup> .....	07	22	5.4	0.6	0.9	-1.0	-0.1	-0.9
Parts for manufacturing from plastics <sup>2</sup> .....	07	26	7.6	0.4	0.5	0.4	0.2	-0.3
Plastic packaging products <sup>2</sup> .....	07	2A	7.0	1.5	1.9	0.1	-1.7	-0.6
Softwood lumber.....	08	11	-3.9	1.5	-5.5	-3.4	-2.9	-0.1
Hardwood lumber <sup>2</sup> .....	08	12	-18.2	0.5	-4.2	-4.4	-5.4	-7.4
Millwork.....	08	2	10.9	-0.2	1.3	-1.2	-0.4	-0.3
Plywood <sup>2</sup> .....	08	3	6.5	-6.6	-0.8	-0.7	-2.3	-3.1
Paper <sup>2</sup> .....	09	13	9.3	1.0	1.1	0.9	0.2	0.2
Paperboard <sup>2</sup> .....	09	14	11.7	0.7	0.0	0.1	0.2	0.3
Paper boxes and containers <sup>2</sup> .....	09	1503	15.2	0.5	2.4	0.3	0.3	0.7
Building paper and board <sup>2</sup> .....	09	2	-8.9	-12.1	5.7	-5.9	-2.9	-0.4
Commercial printing <sup>2</sup> .....	09	47	15.1	0.3	1.1	0.6	0.2	0.5
Foundry and forge shop products <sup>2</sup> .....	10	15	14.5	0.9	-1.4	0.0	-0.4	0.4
Steel mill products <sup>2</sup> .....	10	17	-26.6	-3.8	-4.8	-6.7	-5.5	-3.0
Primary nonferrous metals <sup>2</sup> .....	10	22	-9.2	-9.6	1.6	-4.8	-2.7	7.2
Secondary nonferrous metals <sup>2</sup> .....	10	24	1.1	-5.8	2.3	-4.3	-2.3	5.3
Aluminum mill shapes <sup>2</sup> .....	10	2501	-12.7	-4.3	-4.0	-1.4	-3.1	-1.9
Copper and brass mill shapes <sup>2</sup> .....	10	2502	-7.8	-10.7	0.1	1.1	-4.9	5.4
Nonferrous wire and cable <sup>2</sup> .....	10	26	0.4	-2.8	-0.1	-1.0	-0.1	0.4
Nonferrous foundry shop products.....	10	28	12.5	0.6	0.2	1.2	-0.3	1.5
Metal containers <sup>2</sup> .....	10	3	19.4	-1.5	0.1	0.6	-1.7	-0.5
Hardware <sup>2</sup> .....	10	4	5.9	1.2	0.5	0.0	0.2	0.4
Plumbing fixtures and brass fittings.....	10	5	10.5	0.5	-0.2	0.4	0.5	0.4
Heating equipment <sup>2</sup> .....	10	6	14.7	0.3	0.5	0.2	0.3	2.2
Fabricated structural metal products.....	10	7	7.7	-0.7	0.1	-0.2	0.2	-0.2
Bolts, nuts, screws, rivets, and washers <sup>2</sup> .....	10	81	16.7	1.1	2.7	0.3	-0.7	0.1
Lighting fixtures <sup>2</sup> .....	10	83	7.4	0.3	0.2	0.9	0.0	0.0
Fabricated ferrous wire products <sup>2</sup> .....	10	88	14.3	0.5	0.3	-0.6	2.1	-0.2
Other miscellaneous metal products <sup>2</sup> .....	10	89	8.6	0.3	0.3	0.0	0.2	0.5
Fluid power equipment.....	11	43	12.5	1.5	0.3	0.6	0.0	0.5
Mechanical power transmission equipment <sup>2</sup> .....	11	45	15.1	0.9	1.7	1.1	0.7	1.8
Air conditioning and refrigeration equipment <sup>2</sup> .....	11	48	18.3	1.4	-0.3	0.5	0.3	-0.9
Metal valves, except fluid power.....	11	4902	15.1	0.3	2.2	0.3	0.5	1.3
Ball and roller bearings <sup>2</sup> .....	11	4905	7.4	1.8	0.0	-1.0	-0.2	0.2
Wiring devices <sup>2</sup> .....	11	71	13.9	-0.6	1.0	-0.1	0.0	1.1
Motors, generators, motor generator sets <sup>2</sup> .....	11	73	12.9	0.9	0.9	1.9	0.1	0.0
Switchgear, switchboard, and industrial controls equip. <sup>2</sup> .....	11	75	20.2	0.9	1.9	0.2	0.2	0.6
Electronic components and accessories.....	11	78	4.4	0.0	-0.3	0.4	0.7	0.3
Internal combustion engines <sup>2</sup> .....	11	94	6.9	0.1	0.9	0.1	0.4	0.0
Machine shop products <sup>2</sup> .....	11	95	5.9	-0.3	1.0	0.2	0.5	0.4
Flat glass <sup>2</sup> .....	13	11	12.3	1.5	2.3	-0.2	1.6	1.5
Cement.....	13	22	12.9	2.7	1.0	0.8	1.6	0.6
Concrete products.....	13	3	14.3	1.8	1.2	1.0	0.6	0.9
Asphalt felts and coatings <sup>2</sup> .....	13	6	12.2	-0.2	0.5	0.7	-0.1	0.6
Paving mixtures and blocks.....	13	94	19.8	2.9	0.7	0.1	-0.4	0.0
Motor vehicle parts <sup>2</sup> .....	14	12	3.6	0.2	0.5	0.2	-0.1	-0.1
Aircraft engines and engine parts.....	14	23	4.5	0.4	0.7	0.4	0.1	0.1

See footnotes at end of table.



**Table 2. Producer price index percentage changes for selected commodity groupings by Final Demand-Intermediate Demand category, seasonally adjusted — Continued**  
 [November 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		Nov. 2021 to Nov. 2022 <sup>P</sup>	June to July	July to Aug. <sup>P</sup>	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>
Aircraft parts and auxiliary equipment, n.e.c.....	14	25	2.8	0.0	0.0	1.2	0.0	0.4
Medical, surgical, and personal aid devices.....	15	6	4.0	0.1	0.3	0.3	0.3	-0.1
Unprocessed goods for intermediate demand.....	ID6	2	3.0	-9.3	4.6	-3.1	-10.5	-3.2
Unprocessed foodstuffs and feedstuffs.....	ID6	21	23.0	-1.9	-1.6	1.1	-1.5	1.1
Wheat <sup>2</sup> .....	01	21	4.9	-22.7	-2.8	9.4	3.8	-3.3
Corn.....	01	2202	24.4	-8.5	4.7	11.8	-8.8	-3.6
Slaughter cattle.....	01	31	16.1	-1.5	4.0	-0.4	-0.4	1.4
Slaughter hogs.....	01	32	10.0	23.2	6.2	-12.3	-13.2	4.1
Slaughter chickens.....	01	4102	24.7	-1.9	-9.0	0.4	-4.7	0.5
Slaughter turkeys.....	01	42	33.1	6.7	1.7	-0.1	5.3	-3.8
Raw milk.....	01	6	32.1	-4.2	-7.7	-2.1	2.0	2.9
Hay and hayseeds <sup>2</sup> .....	01	81	5.3	7.4	-8.7	5.1	0.5	-15.0
Oilseeds.....	01	8301	20.8	-13.6	5.1	5.4	-9.5	4.8
Raw cane sugar and byproducts <sup>2</sup> .....	02	5201	14.6	1.2	3.3	0.0	1.5	0.4
Unprocessed nonfood materials.....	ID6	22	-5.5	-12.3	7.5	-4.9	-14.5	-5.4
Raw cotton <sup>2</sup> .....	01	51	-23.8	-23.8	4.7	-0.2	-15.2	-4.5
Hides and skins.....	04	1	-17.3	-0.1	-0.9	-0.6	2.9	-7.5
Coal.....	05	1	63.2	4.5	-2.7	1.6	2.3	-1.2
Natural gas <sup>2</sup> .....	05	31	-26.0	-16.2	29.3	-8.3	-37.1	-15.8
Crude petroleum <sup>2</sup> .....	05	61	8.5	-15.6	-6.0	-6.5	2.3	-2.3
Logs, bolts, timber, pulpwood, and woodchips <sup>2</sup> .....	08	5	4.7	0.1	-0.5	-0.2	-0.4	0.0
Recyclable paper <sup>2</sup> .....	09	12	-68.4	3.1	-11.0	-26.1	-31.9	-21.9
Iron ores.....	10	11	10.8	4.1	-0.2	0.5	1.0	0.6
Iron and steel scrap <sup>2</sup> .....	10	12	-34.3	-12.6	-8.0	-3.4	-3.9	-2.6
Nonferrous metal ores <sup>2</sup> .....	10	21	-4.9	-9.6	3.7	-2.3	-5.4	5.2
Copper base scrap <sup>2</sup> .....	10	2301	-9.5	-15.2	3.0	1.2	-2.9	9.7
Aluminum base scrap.....	10	2302	-22.2	-24.7	9.7	-3.3	-8.1	0.2
Construction sand, gravel, and crushed stone.....	13	21	11.6	0.8	0.8	0.4	0.3	0.4
Services for intermediate demand.....	ID6	3	6.7	0.3	0.6	0.4	0.4	0.6
Trade services for intermediate demand <sup>3</sup> .....	ID6	33	9.0	0.0	-0.9	-0.2	-0.1	0.5
Machinery and equipment parts and supplies wholesaling <sup>2</sup> .....	57	1102	7.1	0.8	-2.8	1.6	-0.5	-0.1
Building materials, paint, and hardware wholesaling.....	57	3	9.9	1.8	-1.8	-2.1	2.3	0.2
Metals, minerals, and ores wholesaling <sup>2</sup> .....	57	4	-11.0	-4.7	-7.5	-2.7	-0.8	-0.9
Chemicals and allied products wholesaling <sup>2</sup> .....	57	5	7.5	0.4	6.2	-1.1	-2.2	0.0
Paper and plastics products wholesaling <sup>2</sup> .....	57	6	18.4	-1.4	-0.8	3.9	0.0	0.3
Food wholesaling <sup>2</sup> .....	57	8101	15.4	2.7	2.2	-1.8	2.0	1.2
Automotive parts, including tires, retailing <sup>2</sup> .....	58	6102	15.6	2.6	0.4	1.3	0.4	-0.8
Hardware, building material, and supplies retailing.....	58	D	4.0	-7.1	-5.9	-2.1	2.5	0.3
Transportation and warehousing services for intermediate demand.....	ID6	32	6.3	1.0	-0.3	-0.8	0.6	-1.3
Rail transportation of freight and mail <sup>2</sup> .....	30	11	8.6	1.2	-0.4	0.0	-0.7	0.6
Truck transportation of freight <sup>2</sup> .....	30	12	11.1	-0.2	-2.2	-0.7	-0.6	1.1
Water transportation of freight <sup>2</sup> .....	30	13	29.8	2.5	1.8	1.1	-0.2	1.5
Air transportation of freight <sup>2</sup> .....	30	14	-1.8	-0.7	-1.5	-1.5	-2.8	-2.0
U.S. Postal Service.....	30	1601	4.8	5.0	0.2	0.1	1.0	0.0
Courier and messenger services, except air mail.....	30	1602	9.1	0.3	0.0	0.4	0.0	0.8
Air mail and package delivery services, excluding by USPS.....	30	1603	14.4	0.2	-1.9	1.0	-0.2	1.2
Pipeline transportation <sup>2</sup> .....	30	17	-	2.9	0.0	3.0	-0.1	0.0
Transportation of passengers (partial).....	30	2	18.0	-2.9	0.7	-0.3	2.9	-5.6
Services related to water transportation.....	31	1	4.3	-0.2	0.3	-0.4	0.2	0.3
Arrangement of freight and cargo <sup>2</sup> .....	31	31	-21.6	2.2	3.8	-11.9	6.9	-15.2
Warehousing, storage, and related services <sup>2</sup> .....	32	1	7.0	2.8	-4.0	1.4	-0.9	0.2
Services less trade, transportation, and warehousing for intermediate demand.....	ID6	31	5.9	0.2	1.4	0.9	0.5	1.1
Network compensation from broadcast TV, cable TV, radio <sup>2</sup> .....	35	-	4.5	0.0	0.3	0.0	0.0	0.0
Advertising space sales in periodicals and newspapers <sup>2</sup> .....	36	11	-0.3	-0.9	0.2	-0.7	0.7	-0.4
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	-0.6	0.2	-4.1	-1.2	4.5	-2.2
Radio advertising time sales.....	36	3	-4.2	-6.6	-1.7	5.0	-3.0	3.2
Internet advertising space sales, excluding Internet ads sold by print publishers <sup>2</sup> .....	36	5	15.6	-2.6	1.1	0.5	2.1	0.0
Business wired telecommunication services <sup>2</sup> .....	37	12	1.6	0.5	0.4	0.0	-0.1	0.1
Wireless telecommunication services.....	37	2	2.0	0.0	0.5	0.0	0.0	0.4
Cable and satellite subscriber services.....	37	3	7.7	1.0	0.3	1.1	0.6	1.1
Bundled wired telecommunication access services <sup>2</sup> .....	37	5	6.8	2.7	0.4	1.7	1.2	-0.1
Data processing and related services <sup>2</sup> .....	38	1	-1.4	-0.1	-0.1	-0.2	0.1	0.0
Business loans (partial).....	39	11	71.2	9.1	10.2	8.8	5.9	9.7

See footnotes at end of table.

**Table 2. Producer price index percentage changes for selected commodity groupings by Final Demand-Intermediate Demand category, seasonally adjusted — Continued**  
 [November 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		Nov. 2021 to Nov. 2022 <sup>P</sup>	June to July	July to Aug. <sup>P</sup>	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>
Deposit services (partial) <sup>2</sup> .....	39	2	-5.9	0.3	-1.2	4.0	0.2	-1.3
Other credit intermediation, incl. trust services (partial) <sup>2</sup> .....	39	3	-5.4	0.2	-4.8	0.5	-0.1	-2.5
Securities brokerage, dealing, investment advice, and related services <sup>2</sup> .....	40	1	19.1	0.1	9.5	-1.9	3.9	11.3
Portfolio management <sup>2</sup> .....	40	2	-13.2	-7.1	2.2	1.6	-1.7	1.7
Investment banking <sup>2</sup> .....	40	3	-8.1	0.0	-5.0	5.8	0.1	-0.5
Life insurance <sup>2</sup> .....	41	1101	3.4	0.4	0.0	0.0	0.1	0.0
Health and medical insurance.....	41	1103	2.0	-0.1	0.2	0.2	0.1	0.2
Property and casualty insurance <sup>2</sup> .....	41	1104	2.9	0.8	0.1	0.4	0.0	0.0
Annuities <sup>2</sup> .....	41	2	-1.2	0.1	0.0	0.5	-0.3	0.0
Commissions from sales of insurance <sup>2</sup> .....	42	1	0.0	0.0	0.0	0.0	0.0	0.0
Nonresidential real estate rents <sup>2</sup> .....	43	11	4.7	-0.2	5.2	1.4	-1.7	-0.5
Nonresidential property sales and leases <sup>2</sup> .....	43	12	4.3	0.7	0.2	0.1	0.0	0.0
Residential property management fees <sup>2</sup> .....	43	22	3.2	0.3	0.3	0.5	-0.5	0.6
Passenger car rental.....	44	1	-0.4	-2.5	3.7	-0.7	2.5	-3.0
Truck, utility trailer, and RV rental and leasing <sup>2</sup> .....	44	2	4.7	-0.2	1.6	-0.4	0.2	1.0
Construction, mining, and forestry machinery and equipment rental and leasing <sup>2</sup> .....	44	3	6.5	-0.3	3.0	0.0	0.0	0.1
Legal services.....	45	1	4.9	0.4	0.4	0.8	0.4	0.4
Accounting services (partial).....	45	2	5.5	-0.3	2.0	0.6	0.1	0.3
Architectural and engineering services.....	45	3	5.7	0.1	0.4	0.1	0.0	0.3
Management, scientific, and technical consulting services.....	45	4	-0.1	1.1	0.0	-0.3	-0.8	0.2
Advertising and related services (partial) <sup>2</sup> .....	45	5	6.3	0.3	-0.1	0.0	0.0	0.1
Permanent placement services <sup>2</sup> .....	46	1	7.6	1.2	-1.0	2.2	0.9	-0.9
Executive search services <sup>2</sup> .....	46	2	2.6	-1.4	1.6	-1.4	6.4	-3.6
Staffing services.....	46	3	3.7	-0.3	-0.1	0.1	-0.1	0.0
Security guard services <sup>2</sup> .....	48	1	7.9	0.1	-0.1	2.5	0.3	0.0
Janitorial services <sup>2</sup> .....	49	1	7.3	0.3	-0.1	0.0	0.2	0.0
Waste collection.....	50	1	10.0	2.6	0.6	0.5	0.8	0.4
Traveler accommodation services.....	53	11	10.3	-0.7	-3.2	3.1	2.0	-1.6
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	11.8	0.4	2.4	1.0	-0.1	0.2
Aircraft repair and maintenance.....	55	4	2.5	0.4	0.2	0.1	0.2	0.4
Metal treatment services <sup>2</sup> .....	59	1	7.7	1.2	0.3	0.0	0.5	0.0
Construction for intermediate demand.....	ID6	4	8.5	-1.6	0.1	0.3	1.4	0.0
Maintenance and repair of non-residential buildings (partial) <sup>2</sup> .....	80	2	8.5	-1.6	0.1	0.3	1.4	0.0
<b>Intermediate Demand by Production Flow</b>								
Stage 4 intermediate demand.....	ID5	4	6.9	-0.4	0.3	0.4	0.0	0.2
Stage 4 intermediate demand goods.....	ID5	9411	8.0	-0.9	0.0	0.1	-0.2	-0.3
Grains.....	01	2	19.2	-11.8	3.2	10.5	-5.8	-3.2
Meats.....	02	21	-5.2	3.4	0.3	-0.6	-0.5	2.3
Unprocessed and packaged fish.....	02	23	-10.4	-2.1	1.2	2.3	-1.0	-2.6
Dairy products.....	02	3	16.1	-0.4	-2.0	-1.4	0.4	-0.7
Commercial electric power.....	05	42	10.4	1.8	2.3	0.3	-0.8	-1.4
Industrial electric power.....	05	43	8.6	3.2	1.1	2.4	-0.1	-2.7
Gasoline.....	05	71	6.8	-17.5	-12.1	-1.5	4.9	-6.0
No. 2 diesel fuel.....	05	7303	59.6	-14.9	-10.5	7.7	10.0	-4.5
Basic organic chemicals.....	06	14	-2.9	-0.2	-6.2	-1.4	-1.1	-1.9
Prepared paint <sup>2</sup> .....	06	21	21.5	1.8	0.3	0.8	0.5	0.1
Medicinal and botanical chemicals <sup>2</sup> .....	06	31	2.1	0.0	0.1	0.3	-0.1	0.5
Biological products, including diagnostics.....	06	37	5.0	0.4	0.5	0.3	0.0	0.3
Pharmaceutical preparations.....	06	38	2.2	0.6	0.3	0.3	0.2	0.1
Plastic construction products <sup>2</sup> .....	07	21	11.3	1.3	0.3	-0.4	-0.8	-0.5
Unsupported plastic film, sheet, and other shapes <sup>2</sup> .....	07	22	5.4	0.6	0.9	-1.0	-0.1	-0.9
Parts for manufacturing from plastics <sup>2</sup> .....	07	26	7.6	0.4	0.5	0.4	0.2	-0.3
Plastic packaging products <sup>2</sup> .....	07	2A	7.0	1.5	1.9	0.1	-1.7	-0.6
Lumber.....	08	1	-9.0	1.2	-5.1	-3.8	-3.7	-2.5
Millwork.....	08	2	10.9	-0.2	1.3	-1.2	-0.4	-0.3
Paper boxes and containers <sup>2</sup> .....	09	1503	15.2	0.5	2.4	0.3	0.3	0.7
Commercial printing <sup>2</sup> .....	09	47	15.1	0.3	1.1	0.6	0.2	0.5
Steel mill products <sup>2</sup> .....	10	17	-26.6	-3.8	-4.8	-6.7	-5.5	-3.0
Nonferrous wire and cable <sup>2</sup> .....	10	26	0.4	-2.8	-0.1	-1.0	-0.1	0.4
Fabricated structural metal products.....	10	7	7.7	-0.7	0.1	-0.2	0.2	-0.2
Other miscellaneous metal products <sup>2</sup> .....	10	89	8.6	0.3	0.3	0.0	0.2	0.5
Air conditioning and refrigeration equipment <sup>2</sup> .....	11	48	18.3	1.4	-0.3	0.5	0.3	-0.9
Wiring devices <sup>2</sup> .....	11	71	13.9	-0.6	1.0	-0.1	0.0	1.1

See footnotes at end of table.

**Table 2. Producer price index percentage changes for selected commodity groupings by Final Demand-Intermediate Demand category, seasonally adjusted — Continued**  
 [November 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		Nov. 2021 to Nov. 2022 <sup>P</sup>	June to July	July to Aug. <sup>P</sup>	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>
Electronic components and accessories.....	11	78	4.4	0.0	-0.3	0.4	0.7	0.3
Miscellaneous electrical machinery and equipment <sup>2</sup> .....	11	79	7.1	1.4	0.9	0.2	0.1	0.3
Internal combustion engines <sup>2</sup> .....	11	94	6.9	0.1	0.9	0.1	0.4	0.0
Machine shop products <sup>2</sup> .....	11	95	5.9	-0.3	1.0	0.2	0.5	0.4
Concrete ingredients and related products.....	13	2	11.9	1.3	0.9	0.5	0.6	0.4
Concrete products.....	13	3	14.3	1.8	1.2	1.0	0.6	0.9
Prepared asphalt, tar roofing and siding products <sup>2</sup> .....	13	61	12.5	-0.4	0.2	0.8	-0.2	0.7
Paving mixtures and blocks.....	13	94	19.8	2.9	0.7	0.1	-0.4	0.0
Motor vehicle parts <sup>2</sup> .....	14	12	3.6	0.2	0.5	0.2	-0.1	-0.1
Aircraft engines and engine parts.....	14	23	4.5	0.4	0.7	0.4	0.1	0.1
Aircraft parts and auxiliary equipment, n.e.c.....	14	25	2.8	0.0	0.0	1.2	0.0	0.4
Medical, surgical and personal aid devices.....	15	6	4.0	0.1	0.3	0.3	0.3	-0.1
Stage 4 intermediate demand services.....	ID5	9412	5.9	0.0	0.7	0.6	0.2	0.8
Truck transportation of freight <sup>2</sup> .....	30	12	11.1	-0.2	-2.2	-0.7	-0.6	1.1
Courier, messenger, and U.S. postal services.....	30	16	8.1	2.2	-0.3	0.4	0.4	0.5
Airline passenger services.....	30	22	18.3	-2.9	0.7	-0.3	2.9	-5.7
Warehousing, storage, and related services <sup>2</sup> .....	32	1	7.0	2.8	-4.0	1.4	-0.9	0.2
Advertising space sales in periodicals and newspapers <sup>2</sup> .....	36	11	-0.3	-0.9	0.2	-0.7	0.7	-0.4
Data processing and related services <sup>2</sup> .....	38	1	-1.4	-0.1	-0.1	-0.2	0.1	0.0
Business loans (partial).....	39	11	71.2	9.1	10.2	8.8	5.9	9.7
Deposit services (partial) <sup>2</sup> .....	39	2	-5.9	0.3	-1.2	4.0	0.2	-1.3
Securities brokerage, dealing, investment advice, and related services <sup>2</sup> .....	40	1	19.1	0.1	9.5	-1.9	3.9	11.3
Portfolio management <sup>2</sup> .....	40	2	-13.2	-7.1	2.2	1.6	-1.7	1.7
Investment banking <sup>2</sup> .....	40	3	-8.1	0.0	-5.0	5.8	0.1	-0.5
Insurance.....	41	11	2.6	0.3	0.2	0.3	0.1	0.1
Annuities <sup>2</sup> .....	41	2	-1.2	0.1	0.0	0.5	-0.3	0.0
Nonresidential real estate rents <sup>2</sup> .....	43	11	4.7	-0.2	5.2	1.4	-1.7	-0.5
Nonresidential property sales and leases <sup>2</sup> .....	43	12	4.3	0.7	0.2	0.1	0.0	0.0
Nonresidential property management fees <sup>2</sup> .....	43	13	8.7	1.2	-2.0	0.7	4.3	0.1
Residential property management fees <sup>2</sup> .....	43	22	3.2	0.3	0.3	0.5	-0.5	0.6
Construction, mining, and forestry machinery and equipment rental and leasing <sup>2</sup> .....	44	3	6.5	-0.3	3.0	0.0	0.0	0.1
Legal services.....	45	1	4.9	0.4	0.4	0.8	0.4	0.4
Advertising agency services <sup>2</sup> .....	45	51	6.3	0.3	-0.1	0.0	0.0	0.1
Accounting services (partial).....	45	2	5.5	-0.3	2.0	0.6	0.1	0.3
Architectural and engineering services.....	45	3	5.7	0.1	0.4	0.1	0.0	0.3
Management, scientific, and technical consulting services.....	45	4	-0.1	1.1	0.0	-0.3	-0.8	0.2
Staffing services.....	46	3	3.7	-0.3	-0.1	0.1	-0.1	0.0
Janitorial services <sup>2</sup> .....	49	1	7.3	0.3	-0.1	0.0	0.2	0.0
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	11.8	0.4	2.4	1.0	-0.1	0.2
Machinery and equipment parts and supplies wholesaling <sup>2</sup> .....	57	1102	7.1	0.8	-2.8	1.6	-0.5	-0.1
Building materials, paint, and hardware wholesaling.....	57	3	9.9	1.8	-1.8	-2.1	2.3	0.2
Metals, minerals, and ores wholesaling <sup>2</sup> .....	57	4	-11.0	-4.7	-7.5	-2.7	-0.8	-0.9
Chemicals and allied products wholesaling <sup>2</sup> .....	57	5	7.5	0.4	6.2	-1.1	-2.2	0.0
Paper and plastics products wholesaling <sup>2</sup> .....	57	6	18.4	-1.4	-0.8	3.9	0.0	0.3
Food and alcohol wholesaling <sup>2</sup> .....	57	8	15.6	2.3	2.0	-1.3	2.0	1.2
Hardware and building materials and supplies retailing.....	58	D	4.0	-7.1	-5.9	-2.1	2.5	0.3
Metal treatment services <sup>2</sup> .....	59	1	7.7	1.2	0.3	0.0	0.5	0.0
Stage 3 intermediate demand.....	ID5	3	8.4	-1.4	-1.6	0.0	-0.1	-0.4
Stage 3 intermediate demand goods.....	ID5	9311	10.6	-3.0	-3.1	-0.1	-0.7	-0.9
Slaughter cattle.....	01	31	16.1	-1.5	4.0	-0.4	-0.4	1.4
Slaughter hogs.....	01	32	10.0	23.2	6.2	-12.3	-13.2	4.1
Slaughter poultry.....	01	4	25.9	-0.7	-7.2	0.3	-3.0	-0.3
Raw milk.....	01	6	32.1	-4.2	-7.7	-2.1	2.0	2.9
Commercial electric power.....	05	42	10.4	1.8	2.3	0.3	-0.8	-1.4
Industrial electric power.....	05	43	8.6	3.2	1.1	2.4	-0.1	-2.7
Gasoline.....	05	71	6.8	-17.5	-12.1	-1.5	4.9	-6.0
Jet fuel <sup>2</sup> .....	05	7203	48.9	-6.1	-11.1	1.9	-1.1	0.2
No. 2 diesel fuel.....	05	7303	59.6	-14.9	-10.5	7.7	10.0	-4.5
Finished lubricants <sup>2</sup> .....	05	76	23.1	3.1	0.8	2.7	1.3	0.3
Lubricating oil base stocks <sup>2</sup> .....	05	78	33.5	2.9	-0.7	-5.4	-2.8	-1.8
Asphalt.....	05	8102	3.9	-4.9	-6.2	-6.9	-11.5	-4.9
Basic inorganic chemicals <sup>2</sup> .....	06	13	31.0	4.4	0.2	1.0	1.8	1.4
Basic organic chemicals.....	06	14	-2.9	-0.2	-6.2	-1.4	-1.1	-1.9
Paints and allied products <sup>2</sup> .....	06	2	20.9	1.7	0.9	1.1	0.1	1.1

See footnotes at end of table.

**Table 2. Producer price index percentage changes for selected commodity groupings by Final Demand-Intermediate Demand category, seasonally adjusted — Continued**  
 [November 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		Nov. 2021 to Nov. 2022 <sup>P</sup>	June to July	July to Aug. <sup>P</sup>	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>
Agricultural chemicals and chemical products.....	06	5	21.5	-2.9	2.7	1.4	1.2	-0.8
Plastic resins and materials.....	06	6	-10.7	-2.8	-3.9	-0.4	-3.1	-2.7
Synthetic rubber <sup>2</sup> .....	07	1102	1.7	4.0	0.1	-1.1	-1.7	-3.5
Unsupported plastic film, sheet, and other shapes <sup>2</sup> .....	07	22	5.4	0.6	0.9	-1.0	-0.1	-0.9
Paper <sup>2</sup> .....	09	13	9.3	1.0	1.1	0.9	0.2	0.2
Paperboard <sup>2</sup> .....	09	14	11.7	0.7	0.0	0.1	0.2	0.3
Converted paper and paperboard products <sup>2</sup> .....	09	15	14.3	1.0	1.3	0.5	0.7	1.1
Commercial printing <sup>2</sup> .....	09	47	15.1	0.3	1.1	0.6	0.2	0.5
Foundry and forge shop products <sup>2</sup> .....	10	15	14.5	0.9	-1.4	0.0	-0.4	0.4
Steel mill products <sup>2</sup> .....	10	17	-26.6	-3.8	-4.8	-6.7	-5.5	-3.0
Nonferrous mill shapes <sup>2</sup> .....	10	25	-8.1	-4.8	-2.4	-0.5	-3.5	0.3
Nonferrous foundry shop products.....	10	28	12.5	0.6	0.2	1.2	-0.3	1.5
Metal containers <sup>2</sup> .....	10	3	19.4	-1.5	0.1	0.6	-1.7	-0.5
Structural, architectural, and pre-engineered metal products.....	10	74	7.0	-1.2	-0.3	-0.4	-0.4	-0.1
Bolts, nuts, screws, rivets, and washers <sup>2</sup> .....	10	81	16.7	1.1	2.7	0.3	-0.7	0.1
Other miscellaneous metal products <sup>2</sup> .....	10	89	8.6	0.3	0.3	0.0	0.2	0.5
General purpose machinery and equipment.....	11	4	13.8	1.1	0.6	0.4	0.4	0.6
Electrical machinery and equipment.....	11	7	7.2	0.5	0.4	0.2	0.2	0.5
Construction sand, gravel, and crushed stone.....	13	21	11.6	0.8	0.8	0.4	0.3	0.4
Cement.....	13	22	12.9	2.7	1.0	0.8	1.6	0.6
Motor vehicle parts <sup>2</sup> .....	14	12	3.6	0.2	0.5	0.2	-0.1	-0.1
Aircraft and aircraft equipment.....	14	2	4.4	0.2	0.3	0.4	0.2	0.3
Stage 3 intermediate demand services.....	ID5	9312	6.0	0.4	0.1	0.0	0.5	0.2
Rail transportation of freight and mail <sup>2</sup> .....	30	11	8.6	1.2	-0.4	0.0	-0.7	0.6
Courier, messenger, and U.S. postal services.....	30	16	8.1	2.2	-0.3	0.4	0.4	0.5
Arrangement of freight and cargo <sup>2</sup> .....	31	31	-21.6	2.2	3.8	-11.9	6.9	-15.2
Freight forwarding <sup>2</sup> .....	31	3201	-0.1	-0.2	-0.2	-0.1	0.0	-3.4
Warehousing, storage, and related services <sup>2</sup> .....	32	1	7.0	2.8	-4.0	1.4	-0.9	0.2
Advertising space sales in periodicals, newspapers, directories, and mailing lists <sup>2</sup> .....	36	1	-0.2	-0.8	0.2	-0.5	0.6	-0.3
Wired telephone services <sup>2</sup> .....	37	1	2.1	0.3	0.4	0.7	0.1	0.1
Bundled wired telecommunications access services <sup>2</sup> .....	37	5	6.8	2.7	0.4	1.7	1.2	-0.1
Data processing and related services <sup>2</sup> .....	38	1	-1.4	-0.1	-0.1	-0.2	0.1	0.0
Business loans (partial).....	39	11	71.2	9.1	10.2	8.8	5.9	9.7
Deposit services (partial) <sup>2</sup> .....	39	2	-5.9	0.3	-1.2	4.0	0.2	-1.3
Securities brokerage, dealing, investment advice, and related services <sup>2</sup> .....	40	1	19.1	0.1	9.5	-1.9	3.9	11.3
Insurance.....	41	11	2.6	0.3	0.2	0.3	0.1	0.1
Nonresidential real estate rents <sup>2</sup> .....	43	11	4.7	-0.2	5.2	1.4	-1.7	-0.5
Legal services.....	45	1	4.9	0.4	0.4	0.8	0.4	0.4
Accounting services (partial).....	45	2	5.5	-0.3	2.0	0.6	0.1	0.3
Architectural and engineering services.....	45	3	5.7	0.1	0.4	0.1	0.0	0.3
Management, scientific, and technical consulting services.....	45	4	-0.1	1.1	0.0	-0.3	-0.8	0.2
Advertising agency services <sup>2</sup> .....	45	51	6.3	0.3	-0.1	0.0	0.0	0.1
Staffing services.....	46	3	3.7	-0.3	-0.1	0.1	-0.1	0.0
Aircraft repair maintenance.....	55	4	2.5	0.4	0.2	0.1	0.2	0.4
Machinery and equipment parts and supplies wholesaling <sup>2</sup> .....	57	1102	7.1	0.8	-2.8	1.6	-0.5	-0.1
Building materials, paint, and hardware wholesaling.....	57	3	9.9	1.8	-1.8	-2.1	2.3	0.2
Metals, minerals, and ores wholesaling <sup>2</sup> .....	57	4	-11.0	-4.7	-7.5	-2.7	-0.8	-0.9
Chemicals and allied products wholesaling <sup>2</sup> .....	57	5	7.5	0.4	6.2	-1.1	-2.2	0.0
Paper and plastics products wholesaling <sup>2</sup> .....	57	6	18.4	-1.4	-0.8	3.9	0.0	0.3
Food wholesaling <sup>2</sup> .....	57	8101	15.4	2.7	2.2	-1.8	2.0	1.2
Metal treatment services <sup>2</sup> .....	59	1	7.7	1.2	0.3	0.0	0.5	0.0
Stage 2 intermediate demand.....	ID5	2	3.8	-4.2	3.1	-1.8	-4.9	-1.4
Stage 2 intermediate demand goods.....	ID5	9211	-0.8	-8.4	4.7	-3.9	-10.2	-3.4
Corn.....	01	2202	24.4	-8.5	4.7	11.8	-8.8	-3.6
Oilseeds.....	01	83	20.8	-13.6	5.1	5.4	-9.5	4.8
Prepared animal feeds <sup>2</sup> .....	02	9	15.2	0.1	1.0	0.3	-1.7	0.6
Coal.....	05	1	63.2	4.5	-2.7	1.6	2.3	-1.2
Natural gas <sup>2</sup> .....	05	31	-26.0	-16.2	29.3	-8.3	-37.1	-15.8
Liquefied petroleum gas <sup>2</sup> .....	05	32	-24.6	-11.3	-4.2	-14.6	-16.5	0.1
Crude petroleum <sup>2</sup> .....	05	61	8.5	-15.6	-6.0	-6.5	2.3	-2.3
No. 2 diesel fuel.....	05	7303	59.6	-14.9	-10.5	7.7	10.0	-4.5
Industrial chemicals.....	06	1	1.3	0.4	-5.3	-1.0	-0.7	-1.4
Plastic resins and materials.....	06	6	-10.7	-2.8	-3.9	-0.4	-3.1	-2.7
Plastic products <sup>2</sup> .....	07	2	8.9	0.9	0.8	-0.3	-0.8	-0.4
Logs, bolts, timber, pulpwood, and wood chips <sup>2</sup> .....	08	5	4.7	0.1	-0.5	-0.2	-0.4	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**  
 [November 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		Nov. 2021 to Nov. 2022 <sup>P</sup>	June to July	July to Aug. <sup>P</sup>	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>
Paper <sup>2</sup> .....	09	13	9.3	1.0	1.1	0.9	0.2	0.2
Paperboard, excluding corrugated paperboard <sup>2</sup> .....	09	1411	11.9	0.7	-0.1	0.1	0.3	0.4
Commercial printing <sup>2</sup> .....	09	47	15.1	0.3	1.1	0.6	0.2	0.5
Iron and steel scrap <sup>2</sup> .....	10	12	-34.3	-12.6	-8.0	-3.4	-3.9	-2.6
Steel mill products <sup>2</sup> .....	10	17	-26.6	-3.8	-4.8	-6.7	-5.5	-3.0
Nonferrous mill shapes <sup>2</sup> .....	10	25	-8.1	-4.8	-2.4	-0.5	-3.5	0.3
Electrical machinery and equipment.....	11	7	7.2	0.5	0.4	0.2	0.2	0.5
Electronic components and accessories.....	11	78	4.4	0.0	-0.3	0.4	0.7	0.3
Stage 2 intermediate demand services.....	ID5	9212	8.3	1.0	1.4	0.5	0.7	0.6
Rail transportation of freight and mail <sup>2</sup> .....	30	11	8.6	1.2	-0.4	0.0	-0.7	0.6
Truck transportation of freight <sup>2</sup> .....	30	12	11.1	-0.2	-2.2	-0.7	-0.6	1.1
U.S. Postal Service.....	30	1601	4.8	5.0	0.2	0.1	1.0	0.0
Courier and messenger services, except air.....	30	1602	9.1	0.3	0.0	0.4	0.0	0.8
Air mail and package delivery services, excluding by USPS.....	30	1603	14.4	0.2	-1.9	1.0	-0.2	1.2
Pipeline transportation <sup>2</sup> .....	30	17	-	2.9	0.0	3.0	-0.1	0.0
Airline passenger services.....	30	22	18.3	-2.9	0.7	-0.3	2.9	-5.7
Arrangement of freight and cargo <sup>2</sup> .....	31	31	-21.6	2.2	3.8	-11.9	6.9	-15.2
Television advertising time sales.....	36	21	-0.6	0.2	-4.1	-1.2	4.5	-2.2
Wireless telecommunication services.....	37	2	2.0	0.0	0.5	0.0	0.0	0.4
Data processing and related services <sup>2</sup> .....	38	1	-1.4	-0.1	-0.1	-0.2	0.1	0.0
Securities brokerage, dealing, investment advice, and related services <sup>2</sup> .....	40	1	19.1	0.1	9.5	-1.9	3.9	11.3
Portfolio management <sup>2</sup> .....	40	2	-13.2	-7.1	2.2	1.6	-1.7	1.7
Investment banking <sup>2</sup> .....	40	31	-8.1	0.0	-5.0	5.8	0.1	-0.5
Insurance.....	41	11	2.6	0.3	0.2	0.3	0.1	0.1
Commissions from sales of insurance <sup>2</sup> .....	42	11	0.0	0.0	0.0	0.0	0.0	0.0
Legal services.....	45	1	4.9	0.4	0.4	0.8	0.4	0.4
Accounting services (partial).....	45	2	5.5	-0.3	2.0	0.6	0.1	0.3
Management, scientific, and technical consulting services.....	45	4	-0.1	1.1	0.0	-0.3	-0.8	0.2
Advertising agency services <sup>2</sup> .....	45	51	6.3	0.3	-0.1	0.0	0.0	0.1
Staffing services.....	46	3	3.7	-0.3	-0.1	0.1	-0.1	0.0
Security guard services <sup>2</sup> .....	48	1	7.9	0.1	-0.1	2.5	0.3	0.0
Janitorial services <sup>2</sup> .....	49	1	7.3	0.3	-0.1	0.0	0.2	0.0
Traveler accommodation services.....	53	1	10.3	-0.7	-3.2	3.1	2.0	-1.6
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	11.8	0.4	2.4	1.0	-0.1	0.2
Hardware and building materials and supplies retailing.....	58	D	4.0	-7.1	-5.9	-2.1	2.5	0.3
Stage 1 intermediate demand.....	ID5	1	7.6	-1.9	-0.5	0.3	0.1	-0.3
Stage 1 intermediate demand goods.....	ID5	9111	8.5	-3.2	-1.4	0.4	-0.1	-1.2
Prepared animal feeds <sup>2</sup> .....	02	9	15.2	0.1	1.0	0.3	-1.7	0.6
Commercial electric power.....	05	42	10.4	1.8	2.3	0.3	-0.8	-1.4
Industrial electric power.....	05	43	8.6	3.2	1.1	2.4	-0.1	-2.7
Commercial natural gas.....	05	52	16.8	-2.3	3.3	3.0	-3.8	-6.0
Industrial natural gas.....	05	53	15.9	-9.6	10.3	2.2	-7.2	-4.6
Gasoline.....	05	71	6.8	-17.5	-12.1	-1.5	4.9	-6.0
No. 2 diesel fuel.....	05	7303	59.6	-14.9	-10.5	7.7	10.0	-4.5
Industrial chemicals.....	06	1	1.3	0.4	-5.3	-1.0	-0.7	-1.4
Prepared paint <sup>2</sup> .....	06	21	21.5	1.8	0.3	0.8	0.5	0.1
Plastic construction products <sup>2</sup> .....	07	21	11.3	1.3	0.3	-0.4	-0.8	-0.5
Recyclable paper <sup>2</sup> .....	09	12	-68.4	3.1	-11.0	-26.1	-31.9	-21.9
Paper <sup>2</sup> .....	09	13	9.3	1.0	1.1	0.9	0.2	0.2
Converted paper and paperboard products <sup>2</sup> .....	09	15	14.3	1.0	1.3	0.5	0.7	1.1
Iron and steel scrap <sup>2</sup> .....	10	12	-34.3	-12.6	-8.0	-3.4	-3.9	-2.6
Steel mill products <sup>2</sup> .....	10	17	-26.6	-3.8	-4.8	-6.7	-5.5	-3.0
Primary nonferrous metals <sup>2</sup> .....	10	22	-9.2	-9.6	1.6	-4.8	-2.7	7.2
Nonferrous scrap.....	10	23	-10.5	-9.5	5.4	-1.5	-4.6	1.9
Nonferrous wire and cable <sup>2</sup> .....	10	26	0.4	-2.8	-0.1	-1.0	-0.1	0.4
Fabricated structural metal products.....	10	7	7.7	-0.7	0.1	-0.2	0.2	-0.2
General purpose machinery and equipment.....	11	4	13.8	1.1	0.6	0.4	0.4	0.6
Construction sand, gravel, and crushed stone.....	13	21	11.6	0.8	0.8	0.4	0.3	0.4
Stage 1 intermediate demand services.....	ID5	9112	6.4	-0.5	0.5	0.2	0.4	0.7
Truck transportation of freight <sup>2</sup> .....	30	12	11.1	-0.2	-2.2	-0.7	-0.6	1.1
Airline passenger services.....	30	22	18.3	-2.9	0.7	-0.3	2.9	-5.7
Advertising space sales in periodicals, newspapers, directories, and mailing lists <sup>2</sup> .....	36	1	-0.2	-0.8	0.2	-0.5	0.6	-0.3
Business wired telecommunication services <sup>2</sup> .....	37	12	1.6	0.5	0.4	0.0	-0.1	0.1
Wireless telecommunication services.....	37	2	2.0	0.0	0.5	0.0	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**  
 [November 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		Nov. 2021 to Nov. 2022 <sup>p</sup>	June to July	July to Aug. <sup>p</sup>	Aug. to Sept. <sup>p</sup>	Sept. to Oct. <sup>p</sup>
Bundled wired telecommunications access services <sup>2</sup> .....	37	5	6.8	2.7	0.4	1.7	1.2	-0.1
Business loans (partial).....	39	11	71.2	9.1	10.2	8.8	5.9	9.7
Deposit services (partial) <sup>2</sup> .....	39	2	-5.9	0.3	-1.2	4.0	0.2	-1.3
Securities brokerage, dealing, investment advice, and related services <sup>2</sup> .....	40	1	19.1	0.1	9.5	-1.9	3.9	11.3
Portfolio management <sup>2</sup> .....	40	2	-13.2	-7.1	2.2	1.6	-1.7	1.7
Investment banking <sup>2</sup> .....	40	3	-8.1	0.0	-5.0	5.8	0.1	-0.5
Insurance.....	41	11	2.6	0.3	0.2	0.3	0.1	0.1
Nonresidential real estate rents <sup>2</sup> .....	43	11	4.7	-0.2	5.2	1.4	-1.7	-0.5
Architectural and engineering services.....	45	3	5.7	0.1	0.4	0.1	0.0	0.3
Management consulting services.....	45	41	-0.1	1.1	0.0	-0.3	-0.8	0.2
Waste collection.....	50	1	10.0	2.6	0.6	0.5	0.8	0.4
Traveler accommodation services.....	53	11	10.3	-0.7	-3.2	3.1	2.0	-1.6
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	11.8	0.4	2.4	1.0	-0.1	0.2
Machinery and equipment parts and supplies wholesaling <sup>2</sup> .....	57	1102	7.1	0.8	-2.8	1.6	-0.5	-0.1
Building materials, paint, and hardware wholesaling.....	57	3	9.9	1.8	-1.8	-2.1	2.3	0.2
Metals, minerals, and ores wholesaling <sup>2</sup> .....	57	4	-11.0	-4.7	-7.5	-2.7	-0.8	-0.9
Chemicals and allied products wholesaling <sup>2</sup> .....	57	5	7.5	0.4	6.2	-1.1	-2.2	0.0
Paper and plastics products wholesaling <sup>2</sup> .....	57	6	18.4	-1.4	-0.8	3.9	0.0	0.3
Hardware and building materials and supplies retailing.....	58	D	4.0	-7.1	-5.9	-2.1	2.5	0.3
Mining services <sup>2</sup> .....	60	1	13.1	-0.9	0.9	2.4	0.3	0.4

<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**  
 [November 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	July 2022	Aug. 2022 <sup>p</sup>	Sept. 2022 <sup>p</sup>	Oct. 2022 <sup>p</sup>	Nov. 2022 <sup>p</sup>
<b>Final Demand</b>								
Final demand.....		FD	4	139.796	139.748	140.119	140.558	140.975
Final demand goods.....		FD	41	144.926	143.430	143.919	144.773	144.918
Final demand foods.....		FD	411	150.007	149.880	152.169	153.392	158.474
Finished consumer foods <sup>2</sup> .....	00/82	FD	4111	262.372	261.376	265.025	268.781	278.702
Finished consumer foods, crude.....	00/82	FD	411113	295.208	273.648	305.159	352.818	427.089
Finished consumer foods, processed.....	00/82	FD	41112	259.418	260.629	261.292	260.340	263.368
Government purchased foods.....		FD	4112	152.257	152.320	152.725	153.104	154.864
Foods for export.....		FD	4113	158.161	160.211	164.550	161.491	165.388
Final demand energy.....		FD	412	163.757	154.911	155.410	159.048	153.812
Finished consumer energy goods <sup>2</sup> .....	00/82	FD	4121	247.779	235.340	234.812	241.038	232.885
Government purchased energy.....		FD	4122	192.087	179.386	184.405	188.800	182.906
Energy for export.....		FD	4123	182.601	170.118	171.656	169.886	165.330
Final demand goods less foods and energy.....		FD	413	138.022	138.308	138.329	138.280	138.714
Finished goods less foods and energy <sup>2</sup> .....	00/82	FD	4131	238.432	239.665	240.333	240.927	242.142
Finished consumer goods less foods and energy.....	00/82	FD	41311	265.583	266.995	267.667	268.104	269.700
Nondurable consumer goods less foods and energy.....	00/82	FD	413111	341.192	343.462	344.569	345.639	348.266
Durable consumer goods.....	00/82	FD	413112	187.415	187.984	188.230	188.059	188.645
Private capital equipment.....	00/82	FD	41312	204.170	205.191	205.827	206.532	207.361
Private capital equipment for manufacturing industries.....	00/82	FD	413121	217.345	218.405	219.290	219.929	221.001
Private capital equipment for nonmanufacturing industries.....	00/82	FD	413122	200.220	201.229	201.796	202.518	203.279
Government purchased goods, excluding foods and energy.....		FD	4132	135.654	135.753	135.696	135.719	135.971
Government purchased goods excluding foods, energy, and capital equipment.....		FD	41321	146.123	146.071	146.046	145.984	146.198
Government purchased capital equipment.....		FD	41322	120.565	120.852	120.758	120.885	121.183
Goods for export, excluding foods and energy.....		FD	4133	138.200	137.803	137.215	136.461	136.484
Final demand services.....		FD	42	136.229	136.908	137.218	137.343	137.901
Final demand trade services <sup>3</sup> .....		FD	423	149.864	151.567	151.097	150.944	152.012
Trade of finished goods <sup>2</sup> .....		FD	4231	148.612	150.636	149.977	149.885	150.878
Trade of personal consumption goods.....		FD	42311	148.094	150.526	149.565	149.783	150.519
Trade of private capital equipment.....		FD	42312	149.237	149.450	150.121	148.666	150.778
Trade of government purchased goods.....		FD	4232	157.605	157.411	158.291	157.976	159.930
Trade of government purchased goods, excluding capital equipment.....		FD	42321	163.126	162.528	163.180	163.186	163.986
Trade of government purchased capital equipment.....		FD	42322	147.764	148.185	149.402	148.605	152.292
Trade of exports.....		FD	4233	158.674	158.248	158.948	158.318	159.730
Final demand transportation and warehousing services.....		FD	422	158.964	157.257	156.712	157.313	155.972
Transportation of passengers for final demand.....		FD	4221	134.098	135.031	134.690	138.591	130.796
Transportation of private passengers.....		FD	42211	134.104	135.035	134.694	138.585	130.809
Transportation of government passengers.....		FD	42212	133.903	134.827	134.486	138.331	130.642
Transportation of passengers for export.....		FD	42213	134.080	135.020	134.680	138.627	130.745
Transportation and warehousing of goods for final demand.....		FD	4222	167.974	165.134	164.506	163.659	165.153
Transportation and warehousing of finished goods <sup>2</sup> .....		FD	42221	167.229	164.278	163.528	162.656	164.168
Transportation and warehousing of personal consumption goods.....		FD	422211	167.283	164.382	163.669	162.840	164.332
Transportation and warehousing of private capital equipment.....		FD	422212	167.020	163.870	162.964	161.922	163.513
Transportation and warehousing of government purchased goods.....		FD	42222	163.299	160.726	160.489	159.752	160.977
Transportation and warehousing of exports.....		FD	42223	171.931	169.273	168.847	168.026	169.551
Final demand services less trade, transportation, and warehousing.....		FD	421	127.807	128.251	129.003	129.210	129.719
Finished services less trade, transportation, and warehousing <sup>2</sup> .....		FD	4211	128.472	128.794	129.541	129.743	130.140
Finished consumer services less trade, transportation, and warehousing.....		FD	42111	127.713	127.992	128.691	128.935	129.374
Private capital investment services less trade, transportation, and warehousing.....		FD	42112	135.505	136.217	137.388	137.215	137.249
Government purchased services less trade, transportation, and warehousing.....		FD	4212	119.215	120.062	120.583	120.642	121.057
Gov. purchased services less trade, transportation, and warehousing, excl. capital investment.....		FD	42121	119.634	120.548	121.064	121.138	121.596
Government purchased capital investment services less trade, transportation, and warehousing.....		FD	42122	108.262	107.742	108.355	108.090	107.628
Services for export less trade, transportation, and warehousing.....		FD	4213	128.770	130.550	131.637	132.083	134.331
Final demand construction.....		FD	43	168.056	168.334	168.747	173.478	173.733
Construction for private capital investment.....		FD	431	172.019	172.336	172.727	177.576	177.925
Construction for government.....		FD	432	160.649	160.856	161.308	165.820	165.905
<b>Final Demand Special Groupings</b>								
Final demand less exports.....	04/10	FD	49101	137.135	137.130	137.511	138.105	138.481
Final demand less government.....	04/10	FD	49102	137.621	137.659	137.987	138.386	138.848
Final demand less foods, food and nonalcoholic beverages for immediate consumption, and energy <sup>1</sup> .....	04/10	FD	49103	136.128	136.696	136.902	137.083	137.622
Final demand less foods and energy <sup>4</sup> .....	04/10	FD	49104	135.818	136.390	136.629	136.791	137.308
Final demand less foods and food and nonalcoholic beverages for immediate consumption <sup>4</sup> .....	04/10	FD	49105	137.598	137.520	137.745	138.163	138.304

See footnotes at end of table.

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

[November 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	July 2022	Aug. 2022 <sup>P</sup>	Sept. 2022 <sup>P</sup>	Oct. 2022 <sup>P</sup>	Nov. 2022 <sup>P</sup>
Final demand less foods <sup>4</sup> .....	04/10	FD	49106	137.167	137.125	137.379	137.767	137.909
Final demand less energy.....	04/10	FD	49107	136.367	136.896	137.254	137.477	138.258
Final demand less trade services.....	01/10	FD	49108	135.896	135.431	135.996	136.572	136.829
Final demand less distributive services <sup>5</sup> .....	01/10	FD	49109	134.713	134.335	134.944	135.572	135.784
Final demand goods less energy.....	01/10	FD	49111	139.236	139.436	139.917	140.126	141.497
Final demand goods less foods.....	04/10	FD	49112	140.593	138.865	138.991	139.754	138.932
Final demand services less trade services.....	04/10	FD	49113	129.580	129.829	130.459	130.699	131.039
Final demand distributive services <sup>5</sup> .....	04/10	FD	49114	149.437	150.527	150.046	149.807	150.910
Final demand goods plus final demand distributive services <sup>5</sup> .....	04/10	FD	49115	144.780	144.333	144.429	144.837	145.361
Final demand less foods, energy, and trade services <sup>4</sup> .....	08/13	FD	49116	124.601	124.846	125.255	125.491	125.836
Private and government purchased capital equipment.....	08/13	FD	49117	123.391	123.963	124.282	124.667	125.141
Private and government purchased capital investment services.....	08/13	FD	49118	131.436	131.699	132.489	131.786	132.783
Total private and government purchased capital investment.....	08/13	FD	49119	130.762	131.158	131.709	131.964	132.667
Total finished <sup>2</sup> .....	01/10	FD	49201	137.781	137.881	138.221	138.796	139.233
Total finished less foods, food and nonalcoholic beverages for immediate consumption, and energy <sup>2, 4</sup> .....	12/10	FD	49202	135.205	135.920	136.212	136.453	136.972
Total finished less foods and energy <sup>2, 4</sup> .....	01/10	FD	49203	136.034	136.749	137.032	137.270	137.792
Total finished less foods and food and nonalcoholic beverages for immediate consumption <sup>2, 4</sup> .....	12/10	FD	49204	135.927	136.061	136.310	136.798	136.932
Total finished less foods <sup>2, 4</sup> .....	01/10	FD	49205	137.287	137.425	137.667	138.153	138.292
Total finished less energy <sup>2</sup> .....	01/10	FD	49206	136.642	137.282	137.669	138.016	138.832
Finished goods <sup>2</sup> .....	00/82	FD	49207	254.938	252.211	253.188	255.904	256.462
Finished goods less energy <sup>2</sup> .....	00/82	FD	49208	244.160	244.821	246.251	247.653	251.093
Finished goods, excluding foods <sup>2, 4</sup> .....	00/82	FD	49209	252.053	248.908	249.219	251.665	249.897
Finished services <sup>2</sup> .....	01/10	FD	49210	134.845	135.567	135.826	135.959	136.443
Private capital investment services.....	04/10	FD	49211	141.564	141.856	142.694	141.932	142.932
Finished distributive services <sup>2, 5</sup> .....	04/10	FD	49212	147.643	149.129	148.473	148.304	149.331
Finished services less trade services <sup>2</sup> .....	04/10	FD	49213	129.541	129.717	130.363	130.591	130.863
Finished services less distributive services <sup>2, 5</sup> .....	04/10	FD	49214	127.757	128.091	128.808	129.092	129.302
Total private capital investment (goods, services, and construction).....	04/10	FD	49215	138.647	139.091	139.715	139.855	140.610
Finished goods plus finished distributive services <sup>2</sup> .....	04/10	FD	49216	144.842	144.719	144.706	145.438	146.083
Total exports.....	04/10	FD	49301	140.177	139.868	140.133	139.562	140.175
Goods for export.....	00/82	FD	49302	239.669	238.402	238.428	236.682	236.994
Services for export.....	04/10	FD	49303	145.022	145.355	146.008	146.097	147.383
Total government purchases.....	04/10	FD	49401	137.618	136.580	137.378	138.194	137.992
Government purchased goods.....	00/82	FD	49402	245.772	241.046	242.971	244.738	243.072
Government purchased services.....	04/10	FD	49403	128.362	128.846	129.371	129.424	129.943
Total government purchased capital investment (goods, services, construction).....	08/13	FD	49404	128.004	128.225	128.496	129.632	130.259
Government purchases, defense.....	05/15	FD	49405	125.804	124.114	124.727	125.070	125.147
Government purchases, non-defense.....	05/15	FD	49406	131.511	130.812	131.650	132.643	132.295
Personal consumption.....	01/10	FD	49501	137.489	137.512	137.789	138.460	138.825
Personal consumption goods (finished consumer goods).....	00/82	FD	49502	276.787	272.341	273.470	277.101	277.528
Personal consumption goods less energy.....	00/82	FD	49503	264.897	265.298	267.226	269.063	274.171
Personal consumption goods less foods.....	00/82	FD	49504	280.560	274.744	274.841	278.393	274.957
Personal consumption nondurable goods less foods.....	00/82	FD	49508	320.845	312.353	312.389	317.505	312.386
Personal consumption services.....	04/10	FD	49505	133.299	134.081	134.253	134.518	134.924
Personal consumption less trade services.....	04/10	FD	49506	134.295	133.677	134.283	135.072	135.338
Personal consumption less distributive services <sup>5</sup> .....	04/10	FD	49507	133.365	132.817	133.464	134.303	134.532
Personal consumption less foods and energy.....	04/14	FD	49510	124.836	125.560	125.740	125.982	126.407
Personal consumption less foods, energy, and trade services <sup>3</sup> .....	04/14	FD	49511	121.261	121.489	122.018	122.275	122.618
Personal consumption less foods, energy, and distributive services <sup>5</sup> .....	04/14	FD	49512	120.396	120.736	121.313	121.609	121.914
Personal consumption goods plus personal consumption distributive services <sup>5</sup> .....	08/13	FD	49509	134.119	133.870	133.732	134.670	135.134
<b>Intermediate Demand by Commodity Type</b>								
<b>Processed goods</b>								
Processed goods for intermediate demand.....	00/82	ID6	1	274.484	270.599	270.426	270.142	267.722
Materials and components for manufacturing.....	00/82	ID6	11	248.369	244.916	242.264	239.928	239.317
Materials for manufacturing.....		ID6	111	161.760	158.048	155.254	152.872	152.091
Materials for food manufacturing.....	00/82	ID6	1111	262.243	259.936	258.203	259.427	261.966
Materials for nondurable manufacturing.....	00/82	ID6	1112	300.805	292.571	290.784	287.901	285.616
Materials for durable manufacturing.....	00/82	ID6	1113	313.618	306.369	295.840	287.273	285.090
Components for manufacturing.....	00/82	ID6	112	183.747	184.392	184.763	184.919	185.306
Components for nondurable manufacturing.....		ID6	1121	147.679	148.696	148.251	148.154	147.694
Components for durable manufacturing.....		ID6	1122	129.458	129.889	130.186	130.306	130.616
Materials and components for construction.....	00/82	ID6	12	351.621	352.920	351.558	350.377	349.571
Materials for construction.....		ID6	121	168.315	169.189	168.195	167.252	167.084
Components for construction.....		ID6	122	177.907	178.368	177.945	177.640	177.063
Processed fuels and lubricants for intermediate demand.....	00/82	ID6	13	297.758	284.677	290.241	295.426	284.566
Processed fuels and lubricants to manufacturing industries.....	00/82	ID6	131	295.124	288.768	292.957	295.553	286.453

See footnotes at end of table.



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

[November 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	July 2022	Aug. 2022 <sup>P</sup>	Sept. 2022 <sup>P</sup>	Oct. 2022 <sup>P</sup>	Nov. 2022 <sup>P</sup>
Processed fuels and lubricants to nonmanufacturing industries.....	00/82	ID6	132	299.147	283.840	289.863	295.907	284.451
Containers for intermediate demand.....	00/82	ID6	14	309.438	313.459	314.475	313.357	314.015
Supplies for intermediate demand.....	00/82	ID6	15	252.471	253.454	253.592	253.145	253.646
Supplies to manufacturing industries.....	00/82	ID6	151	247.494	248.929	249.195	247.822	247.843
Supplies to nonmanufacturing industries.....	00/82	ID6	152	251.240	252.145	252.262	251.963	252.535
Supplies to nonmanufacturing industries, feeds.....	00/82	ID6	1521	253.335	257.682	261.121	257.304	257.260
Supplies to nonmanufacturing industries, other than feeds.....	00/82	ID6	1522	253.031	253.596	253.381	253.433	254.071
<b>Unprocessed goods</b>								
Unprocessed goods for intermediate demand.....	00/82	ID6	2	327.543	342.556	331.945	297.050	287.659
Unprocessed foodstuffs and feedstuffs.....	00/82	ID6	21	259.086	254.864	257.715	253.778	256.665
Unprocessed nonfood materials.....	00/82	ID6	22	361.345	388.271	369.326	315.594	298.594
Unprocessed nonfood materials except fuel.....	00/82	ID6	221	385.373	374.515	362.695	357.046	351.830
Unprocessed nonfood materials except fuel to manufacturing industries.....	00/82	ID6	2211	360.586	349.854	338.242	332.682	327.541
Unprocessed nonfood materials except fuel to nonmanufacturing industries.....	00/82	ID6	2212	322.353	325.123	326.619	327.570	328.567
Unprocessed fuel.....	00/82	ID6	222	301.870	375.109	348.531	237.407	206.646
Unprocessed fuel to manufacturing industries.....	00/82	ID6	2221	309.844	329.721	323.021	288.277	274.181
Unprocessed fuel to nonmanufacturing industries.....	00/82	ID6	2222	310.032	388.568	360.037	241.151	208.510
<b>Services</b>								
Services for intermediate demand.....		ID6	3	139.720	140.573	141.164	141.712	142.613
Trade services for intermediate demand <sup>5</sup> .....		ID6	33	170.691	169.079	168.734	168.535	169.320
Trade services for manufacturing industries.....	12/12	ID6	331	155.631	153.853	153.999	153.659	153.920
Trade services for nonmanufacturing industries.....	12/12	ID6	332	152.179	151.051	150.283	150.264	151.419
Transportation and warehousing services for intermediate demand.....		ID6	32	159.346	158.811	157.567	158.571	156.449
Transportation of passengers for intermediate demand.....		ID6	321	133.967	134.891	134.550	138.393	130.708
Transportation of passengers for manufacturing industries.....		ID6	3211	134.058	134.998	134.658	138.601	130.726
Transportation of passengers for nonmanufacturing industries.....		ID6	3212	134.018	134.940	134.598	138.430	130.767
Transportation and warehousing of goods for intermediate demand.....		ID6	322	162.104	161.411	160.069	160.766	159.245
Transportation and warehousing of goods for manufacturing industries.....	12/12	ID6	3221	137.780	136.293	136.473	135.711	136.706
Transportation and warehousing of goods for nonmanufacturing industries.....	12/12	ID6	3222	143.903	143.535	141.981	142.972	140.992
Services less trade, transportation, and warehousing for intermediate demand.....		ID6	31	127.853	129.627	130.790	131.469	132.916
Services less trade, transportation, and warehousing for manufacturing industries.....		ID6	311	123.372	123.876	124.073	124.347	124.620
Services less trade, transportation, and warehousing for nonmanufacturing industries.....		ID6	312	127.985	129.803	131.000	131.692	133.180
<b>Construction</b>								
Construction for intermediate demand.....		ID6	4	139.800	139.898	140.291	142.287	142.305
<b>Intermediate Demand by Commodity Type Special Groupings</b>								
Processed materials less foods and feeds.....	00/82	ID6	9111	276.337	272.119	271.962	271.674	268.853
Processed foods and feeds.....	00/82	ID6	9112	255.603	255.285	254.946	254.707	256.567
Processed energy goods.....	00/82	ID6	9113	299.140	285.999	291.588	296.798	285.887
Processed materials less energy.....	00/82	ID6	9118	264.986	263.474	261.856	260.196	259.937
Processed materials less foods and energy.....	00/82	ID6	9115	265.629	263.981	262.215	260.390	259.881
Intermediate distributive services <sup>6</sup> .....	04/10	ID6	9116	164.440	163.180	162.493	162.611	162.576
Processed goods plus intermediate distributive services.....	04/10	ID6	9117	153.363	151.473	151.223	151.140	150.159
Unprocessed materials less agricultural products.....	00/82	ID6	9211	367.775	397.540	374.099	316.034	297.909
Unprocessed energy materials <sup>7</sup> .....	00/82	ID6	9212	310.496	344.329	321.047	260.343	240.051
Unprocessed materials less energy.....	00/82	ID6	9213	313.446	310.727	313.071	304.305	305.709
Unprocessed nonfood materials less energy <sup>8</sup> .....	00/82	ID6	9216	476.175	478.241	478.231	453.389	450.181
<b>Intermediate Demand by Production Flow</b>								
<b>Stage 4 Intermediate Demand</b>								
Stage 4 intermediate demand.....		ID5	4	145.154	145.627	146.150	146.174	146.520
Inputs to stage 4 goods producers.....		ID5	41	146.586	146.142	146.512	146.051	145.980
Goods.....		ID5	411	141.278	141.471	141.647	141.084	140.937
Foods.....		ID5	4111	157.039	157.949	161.373	160.904	160.885
Energy.....		ID5	4112	173.644	167.858	168.285	171.571	169.645
Goods excluding foods and energy.....		ID5	4113	138.672	138.809	138.495	137.884	137.733
Services.....		ID5	412	164.212	161.991	162.904	162.719	162.857
Trade services.....		ID5	4123	175.544	172.524	173.717	173.455	173.598
Transportation and warehousing services.....		ID5	4122	141.852	140.673	140.218	139.940	139.403
Transportation of passengers.....		ID5	41221	134.079	135.019	134.679	138.626	130.744
Transportation and warehousing of goods.....		ID5	41222	152.768	151.096	150.588	149.465	150.330
Services less trade, transportation, and warehousing.....		ID5	4121	124.829	125.386	125.623	125.763	126.086
Inputs to stage 4 services producers.....		ID5	42	138.790	140.290	141.182	141.423	142.244

See footnotes at end of table.

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

[November 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	July 2022	Aug. 2022 <sup>P</sup>	Sept. 2022 <sup>P</sup>	Oct. 2022 <sup>P</sup>	Nov. 2022 <sup>P</sup>
Goods.....		ID5	421	146.994	147.211	147.738	147.674	146.855
Foods.....		ID5	4211	154.391	153.752	152.328	150.722	152.086
Energy.....		ID5	4212	146.102	145.669	147.897	148.249	143.936
Goods excluding foods and energy.....		ID5	4213	144.759	145.565	145.758	145.922	146.318
Services.....		ID5	422	135.686	137.651	138.675	139.022	140.435
Trade services.....		ID5	4223	157.667	157.441	158.340	158.268	158.803
Transportation and warehousing services.....		ID5	4222	149.066	147.815	147.399	148.409	146.432
Transportation of passengers.....		ID5	42221	133.579	134.511	134.171	138.072	130.279
Transportation and warehousing of goods.....		ID5	42222	152.343	150.686	150.255	150.736	149.823
Services less trade, transportation, and warehousing.....		ID5	4221	130.866	133.438	134.618	134.953	136.817
Construction.....		ID5	423	139.800	139.898	140.291	142.287	142.305
Inputs to stage 4 construction producers.....		ID5	43	165.283	163.865	163.270	163.605	163.058
Goods.....		ID5	431	169.604	168.565	168.053	168.408	167.388
Energy.....		ID5	4312	202.158	181.867	182.127	190.184	180.654
Goods excluding foods and energy.....		ID5	4313	170.375	171.190	170.590	170.202	169.989
Services.....		ID5	432	154.212	151.898	151.108	151.394	151.975
Trade services.....		ID5	4323	175.243	170.088	168.441	169.383	169.951
Transportation and warehousing services.....		ID5	4322	161.858	158.961	158.081	157.127	158.288
Transportation of passengers.....		ID5	43221	139.768	140.746	140.392	144.495	136.299
Transportation and warehousing of goods.....		ID5	43222	163.265	160.250	159.350	158.256	159.675
Services less trade, transportation, and warehousing.....		ID5	4321	126.980	127.860	128.008	128.034	128.418
<b>Stage 3 Intermediate Demand</b>								
Stage 3 intermediate demand.....		ID5	3	155.124	152.660	152.588	152.370	151.834
Inputs to stage 3 goods producers.....		ID5	31	172.869	169.249	168.022	165.545	165.037
Goods.....		ID5	311	171.453	167.438	166.085	163.086	162.349
Foods.....		ID5	3111	196.878	191.728	192.633	188.989	190.906
Energy.....		ID5	3112	193.075	183.646	182.375	179.082	172.047
Goods excluding foods and energy.....		ID5	3113	163.894	160.590	158.264	155.475	154.020
Services.....		ID5	312	166.168	164.454	163.837	163.705	164.186
Trade services.....		ID5	3123	171.064	168.925	168.054	168.038	168.326
Transportation and warehousing services.....		ID5	3122	160.808	158.755	158.239	157.613	158.567
Transportation of passengers.....		ID5	31221	142.757	143.758	143.395	147.595	139.208
Transportation and warehousing of goods.....		ID5	31222	161.589	159.362	158.838	157.933	159.428
Services less trade, transportation, and warehousing.....		ID5	3121	128.401	129.017	129.209	129.534	129.797
Inputs to stage 3 services producers.....		ID5	32	140.621	139.120	140.036	141.665	141.088
Goods.....		ID5	321	153.615	145.070	148.393	152.404	149.067
Foods.....		ID5	3211	156.013	160.550	162.861	161.195	162.773
Energy.....		ID5	3212	171.413	157.356	162.828	169.427	163.786
Goods excluding foods and energy.....		ID5	3213	135.888	135.732	135.707	135.770	135.967
Services.....		ID5	322	136.248	136.924	137.095	137.962	138.240
Trade services.....		ID5	3223	190.555	190.232	190.826	190.733	192.212
Transportation and warehousing services.....		ID5	3222	164.530	164.952	162.079	163.969	160.471
Transportation of passengers.....		ID5	32221	104.668	104.931	104.613	104.623	104.302
Transportation and warehousing of goods.....		ID5	32222	165.043	165.467	162.579	164.479	160.963
Services less trade, transportation, and warehousing.....		ID5	3221	125.764	126.583	127.521	128.197	129.377
Construction.....		ID5	323	139.800	139.898	140.291	142.287	142.305
Inputs to stage 3 construction producers.....		ID5	33	145.774	143.133	141.798	142.374	142.481
Goods.....		ID5	331	138.691	139.207	138.272	137.472	136.422
Goods excluding foods and energy.....		ID5	3313	176.726	177.383	176.192	175.172	173.835
Services.....		ID5	332	172.490	166.724	164.853	166.709	167.840
Trade services.....		ID5	3323	178.031	171.694	169.653	171.679	172.884
Transportation and warehousing services.....		ID5	3322	115.548	115.545	115.678	114.801	115.487
Transportation and warehousing of goods.....		ID5	33222	121.965	121.962	122.103	121.177	121.901
Services less trade, transportation, and warehousing.....		ID5	3321	119.853	121.167	121.208	121.591	121.683
<b>Stage 2 Intermediate Demand</b>								
Stage 2 intermediate demand.....		ID5	2	146.232	150.738	147.972	140.734	138.792
Inputs to stage 2 goods producers.....		ID5	21	149.502	156.143	150.726	137.129	133.257
Goods.....		ID5	211	154.795	162.944	155.948	138.427	133.257
Foods.....		ID5	2111	171.375	176.497	181.673	173.923	175.977
Energy.....		ID5	2112	138.470	152.720	142.009	115.247	106.502
Goods excluding foods and energy.....		ID5	2113	154.332	152.321	150.148	147.949	147.912
Services.....		ID5	212	144.124	145.550	145.810	146.250	147.145
Trade services.....		ID5	2123	164.431	166.321	164.681	164.725	165.802
Transportation and warehousing services.....		ID5	2122	165.862	166.150	167.819	167.909	167.285
Transportation of passengers.....		ID5	21221	134.584	135.491	135.145	138.867	131.412
Transportation and warehousing of goods.....		ID5	21222	167.696	167.932	169.759	169.551	169.490
Services less trade, transportation, and warehousing.....		ID5	2121	123.258	125.046	127.017	128.320	130.153
Construction.....		ID5	213	139.800	139.898	140.291	142.287	142.305

See footnotes at end of table.

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

[November 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	July 2022	Aug. 2022 <sup>P</sup>	Sept. 2022 <sup>P</sup>	Oct. 2022 <sup>P</sup>	Nov. 2022 <sup>P</sup>
Inputs to stage 2 services producers.....		ID5	22	136.919	138.569	139.249	140.299	140.863
Goods.....		ID5	221	148.675	148.408	148.302	148.131	147.329
Foods.....		ID5	2211	136.088	137.316	137.465	133.704	132.709
Energy.....		ID5	2212	200.140	192.091	196.149	198.211	185.949
Goods excluding foods and energy.....		ID5	2213	145.910	146.115	145.749	145.463	145.372
Services.....		ID5	222	134.786	136.774	137.578	138.763	139.547
Trade services.....		ID5	2223	179.759	185.903	180.411	175.696	179.077
Transportation and warehousing services.....		ID5	2222	165.459	168.259	159.913	164.708	152.678
Transportation of passengers.....		ID5	22221	134.516	135.453	135.112	139.031	131.200
Transportation and warehousing of goods.....		ID5	22222	171.850	175.010	165.129	170.105	157.243
Services less trade, transportation, and warehousing.....		ID5	2221	131.218	132.916	134.811	136.086	137.710
Construction.....		ID5	223	139.800	139.898	140.291	142.287	142.305
<b>Stage 1 Intermediate Demand</b>								
Stage 1 intermediate demand.....		ID5	1	148.352	147.563	148.032	148.211	147.757
Inputs to stage 1 goods producers.....		ID5	11	156.097	154.419	153.907	151.880	150.459
Goods.....		ID5	111	158.617	156.391	155.979	153.328	151.287
Foods.....		ID5	1111	171.599	175.015	184.308	177.137	175.318
Energy.....		ID5	1112	150.578	148.668	151.095	149.680	143.529
Goods excluding foods and energy.....		ID5	1113	162.411	159.094	156.351	154.106	152.948
Services.....		ID5	112	153.259	153.004	152.212	151.804	152.005
Trade services.....		ID5	1123	170.498	169.170	167.261	166.655	166.767
Transportation and warehousing services.....		ID5	1122	157.649	158.675	159.617	159.189	158.542
Transportation of passengers.....		ID5	11221	134.053	134.993	134.653	138.599	130.719
Transportation and warehousing of goods.....		ID5	11222	161.638	162.677	163.853	162.621	163.304
Services less trade, transportation, and warehousing.....		ID5	1121	105.637	106.700	107.286	107.220	107.663
Construction.....		ID5	113	139.800	139.898	140.291	142.287	142.305
Inputs to stage 1 services producers.....		ID5	12	142.001	142.118	143.236	144.521	144.600
Goods.....		ID5	121	154.113	151.336	153.326	155.779	153.703
Foods.....		ID5	1211	194.360	187.799	177.222	214.068	211.900
Energy.....		ID5	1212	189.093	178.584	184.639	191.748	184.531
Goods excluding foods and energy.....		ID5	1213	145.393	146.245	146.431	146.578	146.890
Services.....		ID5	122	135.641	137.205	137.886	138.582	139.740
Trade services.....		ID5	1223	169.571	168.601	169.325	167.935	170.084
Transportation and warehousing services.....		ID5	1222	143.024	142.623	142.377	143.960	141.505
Transportation of passengers.....		ID5	12221	133.974	134.913	134.573	138.516	130.641
Transportation and warehousing of goods.....		ID5	12222	163.172	161.966	161.748	162.152	162.527
Services less trade, transportation, and warehousing.....		ID5	1221	129.634	131.742	132.534	133.354	134.862
Construction.....		ID5	123	139.800	139.898	140.291	142.287	142.305
Inputs to stage 1 construction producers.....		ID5	13	167.719	165.216	165.494	166.782	166.555
Goods.....		ID5	131	168.037	166.851	168.040	169.519	168.482
Energy.....		ID5	1312	196.068	178.623	188.888	204.013	195.445
Goods excluding foods and energy.....		ID5	1313	167.052	167.965	167.990	167.715	167.644
Services.....		ID5	132	167.127	162.023	160.504	161.414	162.784
Trade services.....		ID5	1323	173.187	167.468	165.776	167.069	168.457
Transportation and warehousing services.....		ID5	1322	136.552	133.753	132.929	132.083	133.429
Transportation and warehousing of goods.....		ID5	13222	141.245	138.350	137.497	136.623	138.016
Services less trade, transportation, and warehousing.....		ID5	1321	129.123	132.537	132.980	132.952	133.117
<b>Intermediate Demand by Production Flow Special Groupings</b>								
Total goods inputs to stage 4 intermediate demand.....	04/10	ID5	9411	145.537	145.500	145.645	145.414	144.907
Total services inputs to stage 4 intermediate demand.....	04/10	ID5	9412	141.148	142.087	142.948	143.201	144.334
Total construction inputs to stage 4 intermediate demand.....	04/10	ID5	9413	138.642	138.739	139.129	141.109	141.126
Total foods inputs to stage 4 intermediate demand.....	04/10	ID5	9414	152.450	152.698	154.039	153.109	153.663
Total energy goods inputs to stage 4 intermediate demand.....	04/10	ID5	9415	143.127	139.648	141.347	142.892	138.247
Total goods less foods and energy inputs to stage 4 intermediate demand.....	04/10	ID5	9416	146.040	146.471	146.202	145.809	145.761
Total goods inputs to stage 3 intermediate demand.....	04/10	ID5	9311	158.422	153.522	153.391	152.284	150.939
Total services inputs to stage 3 intermediate demand.....	04/10	ID5	9312	140.624	140.772	140.771	141.465	141.788
Total construction inputs to stage 3 intermediate demand.....	04/10	ID5	9313	138.642	138.739	139.129	141.109	141.126
Total foods inputs to stage 3 intermediate demand.....	04/10	ID5	9314	174.921	170.411	171.227	167.998	169.702
Total energy goods inputs to stage 3 intermediate demand.....	04/10	ID5	9315	171.429	158.419	162.675	167.519	161.766
Total goods less foods and energy inputs to stage 3 intermediate demand.....	04/10	ID5	9316	152.976	150.344	148.477	146.258	145.112
Total goods inputs to stage 2 intermediate demand.....	04/10	ID5	9211	146.759	153.703	147.709	132.705	128.206
Total services inputs to stage 2 intermediate demand.....	04/10	ID5	9212	137.372	139.247	139.937	140.966	141.777
Total construction inputs to stage 2 intermediate demand.....	04/10	ID5	9213	138.642	138.739	139.129	141.109	141.126
Total foods inputs to stage 2 intermediate demand.....	04/10	ID5	9214	171.934	177.038	182.183	174.436	176.465
Total energy goods inputs to stage 2 intermediate demand.....	04/10	ID5	9215	136.265	149.959	139.643	113.775	105.174
Total goods less foods and energy inputs to stage 2 intermediate demand.....	04/10	ID5	9216	143.705	142.286	140.627	138.965	138.919
Total goods inputs to stage 1 intermediate demand.....	04/10	ID5	9111	141.035	139.032	139.632	139.430	137.746

See footnotes at end of table.

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

[November 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	July 2022	Aug. 2022 <sup>p</sup>	Sept. 2022 <sup>p</sup>	Oct. 2022 <sup>p</sup>	Nov. 2022 <sup>p</sup>
Total services inputs to stage 1 intermediate demand.....	04/10	ID5	9112	140.329	141.005	141.229	141.732	142.719
Total construction inputs to stage 1 intermediate demand.....	04/10	ID5	9117	138.642	138.739	139.129	141.109	141.126
Total foods inputs to stage 1 intermediate demand.....	04/10	ID5	9114	162.046	165.067	173.431	167.537	165.817
Total energy goods inputs to stage 1 intermediate demand.....	04/10	ID5	9115	168.475	160.903	165.762	170.180	163.515
Total goods less foods and energy inputs to stage 1 intermediate demand.....	04/10	ID5	9116	130.918	129.998	128.975	128.089	127.709

<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.