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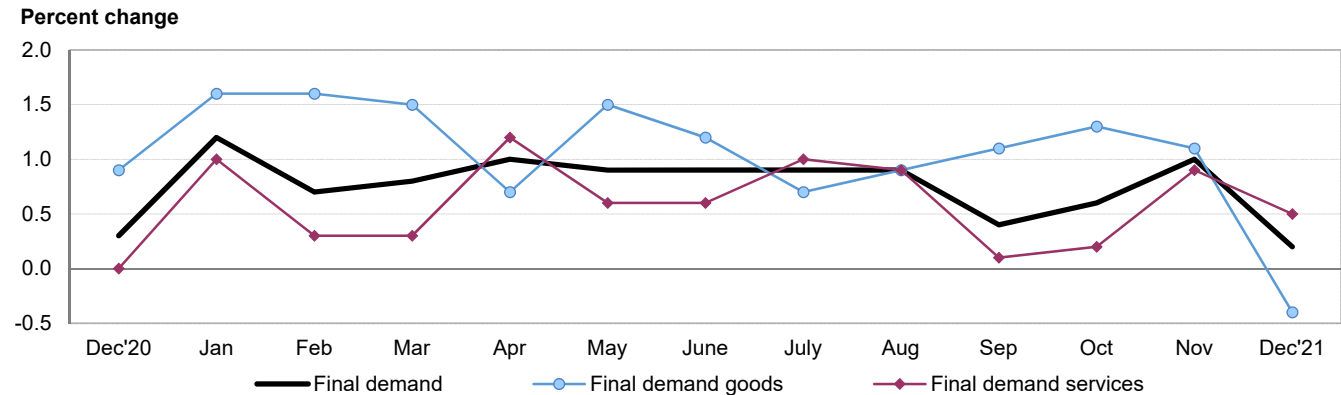
**PRODUCER PRICE INDEXES – DECEMBER 2021**

The Producer Price Index for final demand increased 0.2 percent in December, seasonally adjusted, the U.S. Bureau of Labor Statistics reported today. This rise followed advances of 1.0 percent in November and 0.6 percent in October. (See table A.) On an unadjusted basis, final demand prices moved up 9.7 percent in 2021, the largest calendar-year increase since data were first calculated in 2010.

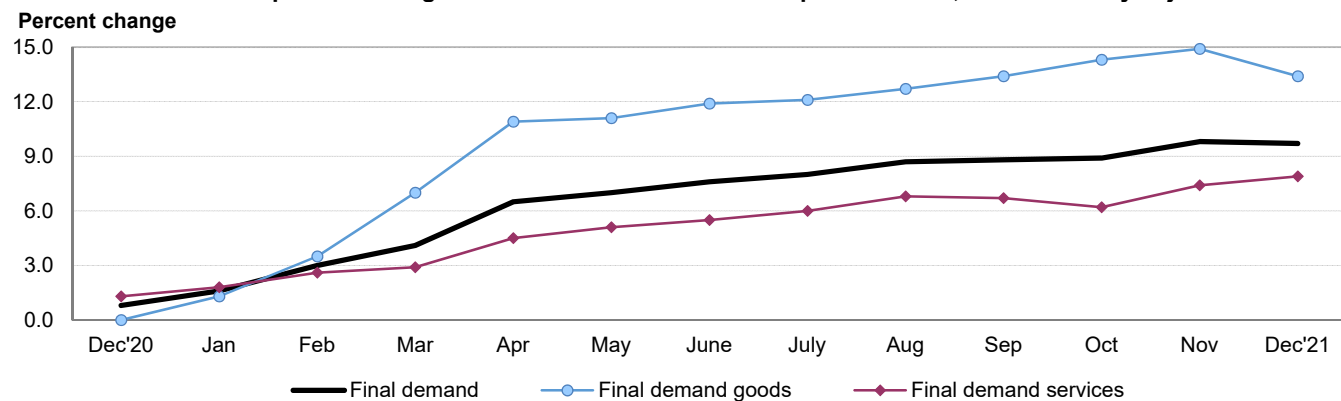
In December, the advance in the final demand index can be traced to a 0.5-percent increase in prices for final demand services. Conversely, the index for final demand goods decreased 0.4 percent.

Prices for final demand less foods, energy, and trade services rose 0.4 percent in December following a 0.8-percent increase in November. In 2021, the index for final demand less foods, energy, and trade services moved up 6.9 percent, following a 1.3-percent advance in 2020.

**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:** Prices for final demand services rose 0.5 percent in December following a 0.9-percent increase in November. Over half of the broad-based advance in December is attributable to margins for final demand trade services, which moved up 0.8 percent. (Trade indexes measure changes in margins received by wholesalers and retailers.) Prices for final demand services less trade, transportation, and warehousing and for final demand transportation and warehousing services rose 0.2 percent and 1.7 percent, respectively.

*Product detail:* Over a quarter of the December increase in the index for final demand services can be attributed to margins for fuels and lubricants retailing, which rose 13.0 percent. The indexes for airline passenger services, food retailing, machinery and vehicle wholesaling, machinery and equipment parts and supplies wholesaling, and traveler accommodation services also moved higher. In contrast, margins for automobile and automobile parts retailing decreased 2.7 percent. The indexes for deposit services (partial) and for health, beauty, and optical goods retailing also declined. (See table 2.)

**Final demand goods:** The index for final demand goods moved down 0.4 percent in December, the first decrease since falling 2.8 percent in April 2020. Leading the December decline, prices for final demand energy dropped 3.3 percent. The index for final demand foods fell 0.6 percent. Conversely, prices for final demand goods less foods and energy advanced 0.5 percent.

*Product detail:* A major factor in the December decrease in prices for final demand goods was the index for gasoline, which moved down 6.1 percent. Prices for meats, gas fuels, fresh and dry vegetables, diesel fuel, and primary basic organic chemicals also declined. In contrast, the index for ethanol increased 6.4 percent. Prices for residential electric power and for chicken eggs also moved higher.

**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>2020</b>												
Dec...	0.3	0.4	0.9	-1.4	4.9	0.5	0.0	-0.7	-0.2	0.4	0.8	1.3
<b>2021</b>												
Jan...	1.2	1.0	1.6	1.6	5.1	0.8	1.0	0.8	0.7	1.2	1.6	1.9
Feb...	0.7	0.4	1.6	1.4	6.2	0.5	0.3	0.2	0.8	0.2	3.0	2.3
Mar...	0.8	0.6	1.5	0.6	5.0	0.8	0.3	0.2	1.4	0.4	4.1	3.1
Apr....	1.0	0.8	0.7	1.8	-1.2	1.0	1.2	2.3	3.6	0.4	6.5	4.8
May...	0.9	0.5	1.5	2.7	1.2	1.1	0.6	1.7	0.2	0.2	7.0	5.3
June...	0.9	0.6	1.2	0.8	2.9	1.0	0.6	0.9	1.6	0.3	7.6	5.6
July...	0.9	0.8	0.7	-1.3	2.4	0.8	1.0	1.7	2.5	0.5	8.0	6.0
Aug. <sup>1</sup> ..	0.9	0.4	0.9	2.3	0.6	0.6	0.9	2.2	0.9	0.2	8.7	6.2
Sept. <sup>1</sup> ..	0.4	0.3	1.1	2.1	2.1	0.5	0.1	0.1	-1.2	0.3	8.8	6.0
Oct. <sup>1</sup> ..	0.6	0.3	1.3	-0.3	5.5	0.6	0.2	0.7	0.9	-0.2	8.9	6.2
Nov. <sup>1</sup> ..	1.0	0.8	1.1	1.3	2.0	0.8	0.9	1.2	2.7	0.6	9.8	6.9
Dec....	0.2	0.4	-0.4	-0.6	-3.3	0.5	0.5	0.8	1.7	0.2	9.7	6.9

<sup>1</sup> Some of the figures shown above and elsewhere in this release may differ from those previously reported because data for August 2021 through November 2021 have been revised to reflect the availability of late reports and corrections by respondents.

## Intermediate Demand by Commodity Type

Within intermediate demand in December, prices for processed goods moved down 0.3 percent, the index for unprocessed goods dropped 5.6 percent, and prices for services advanced 0.8 percent. (See tables B and C.)

**Processed goods for intermediate demand:** The index for processed goods for intermediate demand fell 0.3 percent in December, the first decline since moving down 3.5 percent in April 2020. Leading the December decrease in prices for processed goods for intermediate demand, the index for processed energy goods dropped 4.1 percent. Prices for processed foods and feeds moved down 0.5 percent. Conversely, the index for processed materials less foods and energy rose 0.7 percent. In 2021, prices for processed goods for intermediate demand surged 24.4 percent, the largest calendar-year increase since jumping 28.9 percent in 1974.

*Product detail:* A major factor in the December decline in prices for processed goods for intermediate demand was the index for diesel fuel, which dropped 5.9 percent. Prices for utility natural gas, gasoline, primary basic organic chemicals, liquefied petroleum gas, and meats also moved down. In contrast, the index for softwood lumber rose 24.4 percent. Prices for ethanol and for dairy products also increased.

**Unprocessed goods for intermediate demand:** Prices for unprocessed goods for intermediate demand fell 5.6 percent in December, the first decline after eight consecutive increases. Leading the decrease in the index for unprocessed goods for intermediate demand, prices for unprocessed energy materials dropped 13.1 percent. The index for unprocessed nonfood materials less energy declined 2.0 percent. Conversely, prices for unprocessed foodstuffs and feedstuffs rose 2.8 percent. In 2021, the index for unprocessed goods for intermediate demand surged 38.0 percent, the largest calendar-year increase since data were first calculated in 1948.

*Product detail:* Sixty percent of the December decrease in prices for unprocessed goods for intermediate demand can be traced to the index for crude petroleum, which fell 16.4 percent. The indexes for natural gas, nonferrous metals, raw milk, carbon steel scrap, and fresh fruits and melons also moved down. In contrast, prices for slaughter poultry rose 17.7 percent. The indexes for grains and for phosphates also increased.

**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>2020</b>										
Dec.....	1.4	-0.6	2.6	1.4	1.5	2.1	-3.6	6.5	5.3	1.3
<b>2021</b>										
Jan.....	1.8	0.9	1.9	1.8	3.4	5.3	2.7	5.4	8.6	7.9
Feb.....	2.9	2.2	6.7	2.0	7.1	11.9	2.4	33.6	-0.6	29.2
Mar.....	3.5	1.5	7.9	2.6	12.4	-4.2	1.6	-13.5	1.9	34.8
Apr.....	1.9	2.8	-2.8	3.0	18.7	2.0	8.7	-4.8	2.2	59.2
May.....	2.9	3.0	3.8	2.7	22.3	7.2	5.0	8.3	8.9	57.8
June.....	1.8	1.8	1.1	2.0	23.0	1.8	-0.8	5.6	0.5	52.9
July.....	1.6	-1.0	3.4	1.4	23.1	2.9	-1.9	9.7	0.5	56.0
Aug. <sup>1</sup> .....	0.9	1.5	-0.6	1.2	23.0	1.9	4.4	0.2	1.5	52.5
Sept. <sup>1</sup> .....	1.1	1.6	2.1	0.8	23.7	2.7	0.9	7.9	-2.2	48.5
Oct. <sup>1</sup> .....	2.4	-1.0	7.2	1.6	25.7	5.8	-3.1	18.0	-1.6	55.7
Nov. <sup>1</sup> .....	1.6	0.0	3.5	1.3	26.5	2.1	1.4	1.7	3.9	49.3
Dec.....	-0.3	-0.5	-4.1	0.7	24.4	-5.6	2.8	-13.1	-2.0	38.0

<sup>1</sup> Some of the figures shown above and elsewhere in this release may differ from those previously reported because data for August 2021 through November 2021 have been revised to reflect the availability of late reports and corrections by respondents.

**Services for intermediate demand:** The index for services for intermediate demand rose 0.8 percent in December, the largest advance since climbing 1.2 percent in June. Leading the broad-based increase in December, margins for trade services for intermediate demand jumped 1.4 percent. Prices for services less trade, transportation, and warehousing for intermediate demand and for transportation and warehousing services for intermediate demand also moved higher, rising 0.4 percent and 1.6 percent, respectively. In 2021, the index for services for intermediate demand advanced 8.0 percent, the largest calendar-year increase since data were first calculated in 2010.

*Product detail:* One-fifth of the December rise in prices for services for intermediate demand is attributable to margins for machinery and equipment parts and supplies wholesaling, which advanced 2.6 percent. The indexes for loan services (partial), arrangement of freight and cargo transportation, gross rents for retail properties, television advertising times sales, and fuels and lubricants retailing also moved higher. Conversely, prices for deposit services (partial) fell 4.3 percent. The indexes for building materials, paint, and hardware wholesaling and for air mail and package delivery services (excluding USPS) also declined.

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

Month	Services for intermediate demand				Total, change from 12 months ago (unadj.)
	Total	Trade	Transportation and warehousing	Other	
<b>2020</b>					
Dec.....	0.7	2.4	-0.3	0.4	2.1
<b>2021</b>					
Jan.....	1.1	1.3	0.5	1.2	3.0
Feb.....	0.3	0.1	1.2	0.1	3.6
Mar.....	0.6	1.2	0.9	0.5	4.3
Apr.....	1.3	2.7	2.3	0.6	7.3
May.....	0.6	2.1	0.9	0.1	8.4
June.....	1.2	2.4	2.0	0.6	9.3
July.....	0.6	1.1	0.7	0.5	9.5
Aug. <sup>1</sup> ....	0.4	2.0	0.8	-0.2	9.0
Sept. <sup>1</sup> ....	0.4	-1.2	2.5	0.5	8.2
Oct. <sup>1</sup> ....	0.0	0.5	0.5	-0.3	7.5
Nov. <sup>1</sup> ....	0.3	-1.0	0.9	0.7	7.9
Dec.....	0.8	1.4	1.6	0.4	8.0

<sup>1</sup> Some of the figures shown above and elsewhere in this release may differ from those previously reported because data for August 2021 through November 2021 have been revised to reflect the availability of late reports and corrections by respondents.

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

**Stage 4 intermediate demand:** Prices for stage 4 intermediate demand increased 0.6 percent in December after climbing 1.0 percent in November. In December, the index for total services inputs to stage 4 intermediate demand moved up 0.7 percent, and prices for total goods inputs rose 0.4 percent. (See table D.) Advances in the indexes for machinery and equipment parts and supplies wholesaling; softwood lumber; biological products (including diagnostics); gross rents for retail properties; loan services (partial); and warehousing, storage, and related services outweighed declining prices for gasoline, meats, and deposit services (partial). In 2021, the index for stage 4 intermediate demand moved up 12.4 percent, after rising 2.4 percent in 2020.

**Stage 3 intermediate demand:** Prices for stage 3 intermediate demand rose 0.4 percent in December following a 0.8-percent advance in November. In December, the index for total services inputs to stage 3 intermediate demand moved up 0.8 percent, while prices for total goods inputs were unchanged. Increases in the indexes for arrangement of freight and cargo transportation, slaughter poultry, grains, softwood lumber, slaughter cattle, and temporary help services outweighed falling prices for diesel fuel, raw milk, and deposit services (partial). In 2021, the index for stage 3 intermediate demand jumped 20.2 percent, after inching down 0.1 percent in 2020.

**Stage 2 intermediate demand:** The index for stage 2 intermediate demand declined 2.3 percent in December, the largest decrease since a 4.4-percent drop in April 2020. In December, prices for total goods inputs to stage 2 intermediate demand fell 5.8 percent. In contrast, the index for total services inputs advanced 1.3 percent. Decreases in prices for crude petroleum, gas fuels, primary basic organic chemicals, deposit services (partial), nonferrous scrap, and carbon steel scrap outweighed increases in the indexes for fuels and lubricants retailing, ethanol, and loan services (partial). In 2021, prices for stage 2 intermediate demand rose 21.2 percent, after moving up 1.4 percent in 2020.

**Stage 1 intermediate demand:** Prices for stage 1 intermediate demand edged up 0.1 percent in December following a 1.2-percent increase in November. In December, the index for total services inputs to stage 1 intermediate demand rose 0.6 percent. Conversely, prices for total goods inputs fell 0.3 percent. In December, advances in the indexes for airline passenger services, ethanol, agricultural chemicals and chemical products, grains, and machinery and equipment parts and supplies wholesaling outweighed decreases in the indexes for diesel fuel; utility natural gas; primary basic organic chemicals; and building materials, paint, and hardware wholesaling. In 2021, prices for stage 1 intermediate demand increased 17.5 percent, following a 2.6-percent rise in 2020.

**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>2020</b>												
Dec.....	0.9	0.7	1.1	1.1	1.7	0.7	1.8	3.9	0.3	2.8	4.2	1.1
<b>2021</b>												
Jan.....	1.4	1.5	1.3	1.8	1.9	1.5	2.6	4.9	0.9	1.7	2.3	1.2
Feb.....	0.8	1.5	0.3	2.2	4.2	0.5	5.4	12.4	0.2	1.6	3.1	0.2
Mar.....	1.4	2.1	0.8	2.4	4.5	0.6	-1.5	-3.9	0.6	2.2	3.7	0.9
Apr.....	1.5	1.7	1.2	3.0	4.9	1.3	0.4	-0.5	1.2	1.7	1.9	1.7
May.....	1.2	2.2	0.5	2.2	3.6	0.9	3.0	6.4	0.2	2.7	4.0	1.3
June.....	1.3	1.5	1.1	1.6	1.7	1.4	2.1	3.1	1.3	1.5	1.6	1.5
July.....	0.9	0.9	1.0	0.9	1.4	0.5	2.2	4.2	0.5	1.4	2.1	0.8
Aug. <sup>1</sup> .....	0.7	0.9	0.5	1.1	1.9	0.3	0.7	0.9	0.5	0.8	1.1	0.5
Sept. <sup>1</sup> .....	0.4	0.7	0.1	1.1	1.2	1.0	2.1	3.5	0.9	0.1	0.6	-0.4
Oct. <sup>1</sup> .....	0.6	1.3	0.1	1.0	1.8	0.2	3.7	7.9	-0.1	1.1	2.5	-0.3
Nov. <sup>1</sup> .....	1.0	1.5	0.5	0.8	1.3	0.1	1.0	1.5	0.5	1.2	2.1	0.2
Dec.....	0.6	0.4	0.7	0.4	0.0	0.8	-2.3	-5.8	1.3	0.1	-0.3	0.6

<sup>1</sup> Some of the figures shown above and elsewhere in this release may differ from those previously reported because data for August 2021 through November 2021 have been revised to reflect the availability of late reports and corrections by respondents.

**The Producer Price Index for January 2022 is scheduled to be released on Tuesday, February 15, 2022 at 8:30 a.m. (ET).**

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**Recalculated Seasonal Adjustment Factors and Relative Importance Figures to be Available on February 11, 2022**

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 seasonal information will be available on February 11, 2022 (2 workdays prior to the release of PPI data for January 2022 on February 15, 2022):

- Direct seasonal factors for PPI commodity indexes for the year 2022,
- Recalculated seasonal factors for the last 5 years (2017-2021) for PPI commodity indexes,
- Recalculated seasonal factors for the last 5 years (2017-2021) for PPI Final Demand-Intermediate Demand indexes,
- Recalculated seasonal index data for the last 5 years (2017-2021) 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 2021, will be available on February 11, 2022:

- 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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**Coronavirus (COVID-19) Impact on December 2021 Producer Price Index Data**

For each month from March 2020 to December 2021, BLS has published a summary of the impact of the pandemic on the Producer Price Index news release and data. The impact summary for December is available at [www.bls.gov/covid19/producer-price-indexes-covid19-impacts-december-2021.htm](http://www.bls.gov/covid19/producer-price-indexes-covid19-impacts-december-2021.htm).

Beginning with publication of January 2022 data in February 2022, this month-specific impact summary will be discontinued. However, information related to the impact of the pandemic will continue to be available at [www.bls.gov/covid19/effects-of-covid-19-pandemic-on-producer-price-index.htm](http://www.bls.gov/covid19/effects-of-covid-19-pandemic-on-producer-price-index.htm).

# 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 2018, the PPI covered 71 percent of services as measured by 2012 Census revenue, and 31 percent of construction.

More than 100,000 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 2017, final demand goods were about 33 percent of overall final demand, final demand services were roughly 65.5 percent, and final demand construction was about 1.5 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).

Price data are provided on a voluntary and confidential basis; only sworn BLS employees are allowed access to individual company price reports. BLS publishes price indexes instead of 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
Miscellaneous food stores .....	5499	July 2000

Title	Code	PPI Detailed Report Issue
<b>SIC</b>		
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
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
Construction, mining, and forestry machinery and equipment rental and leasing .....	532412	January 2005

Title	Code	PPI Detailed Report Issue
<b>NAICS</b>		
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 <https://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 Persian Gulf War. In this case, intervention techniques allowed for better estimates of seasonally adjusted data. On the whole, very few series have required intervention. Out of almost 400 seasonally adjusted series, only 42 were subject to intervention in 2018.

For more information relating to seasonal adjustment methods, see “Summary of Changes to the PPI’s Seasonal Adjustment Methodology” in the January 1995 issue of *Producer Price Indexes*, and “PPI and CPI Seasonal Adjustment: an Update” in the July 2010 *Monthly Labor Review*.

## Producer Price Index Data on the Internet

In 1995, the BLS began posting PPI series, news releases, and technical information to both a World Wide Web (WWW) site and a file transfer protocol (FTP) site. During the years following the introduction of PPI Internet services, use of these sites eclipsed more traditional methods of data dissemination, such as subscriptions to the *PPI Detailed*

*Report.* There were more than 4 million instances of PPI data and tables being downloaded from the BLS website during the 12 months ended December 31, 2017.

## Retrieving PPI data from the PPI Web site

PPI data can be obtained from the WWW address (<https://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 <https://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="https://pub.time.series/pc">/pub/time.series/pc</a>
Industry Data - Discontinued (NAICS basis)	<a href="https://pub.time.series/nd">/pub/time.series/nd</a>
(SIC basis)	<a href="https://pub.time.series/pd">/pub/time.series/pd</a>
Commodity Data (incl. FD-ID)	<a href="https://pub.time.series/wp">/pub/time.series/wp</a>
Commodity Data – Discontinued	<a href="https://pub.time.series/wd">/pub/time.series/wd</a>
Special requests	<a href="https://pub.special.requests/ppi">/pub/special.requests/ppi</a>

### Additional information

The PPI homepage (<https://www.bls.gov/ppi>) contains additional information regarding PPI data and methodology. The top section of the homepage provides PPI news releases, both current and archived, as well as general PPI information. The “PPI Tables” section found beneath the statistics 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).

**Table 1. Producer price index percentage changes and weights for Final Demand-Intermediate Demand groupings, seasonally adjusted**  
[December 2021]

Grouping	Commodity code		Relative Importance Dec. 2020 <sup>1</sup>	Unadjusted 12-month percent change <sup>2</sup> Dec. 2020 to Dec. 2021 <sup>P</sup>	Seasonally adjusted 1-month percent change <sup>2</sup>				
	Group code	Item code			July to Aug.	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>	Oct. to Nov. <sup>P</sup>	Nov. to Dec. <sup>P</sup>
<b>Final Demand</b>									
Final demand.....	FD	4	100.000	9.7	0.9	0.4	0.6	1.0	0.2
Final demand goods.....	FD	41	32.135	13.4	0.9	1.1	1.3	1.1	-0.4
Final demand foods.....	FD	411	5.590	12.9	2.3	2.1	-0.3	1.3	-0.6
Finished consumer foods <sup>3</sup> .....	FD	4111	4.338	12.1	2.0	2.6	0.2	1.3	-0.6
Finished consumer foods, crude.....	FD	41113	0.394	28.4	4.5	9.6	7.6	10.4	-3.8
Finished consumer foods, processed.....	FD	41112	3.944	10.5	1.8	1.9	-0.6	0.3	-0.2
Government purchased foods.....	FD	4112	0.396	12.8	2.4	2.3	-1.6	0.6	-0.7
Foods for export.....	FD	4113	0.856	16.7	3.5	-0.1	-2.1	1.4	-0.3
Final demand energy.....	FD	412	4.993	31.4	0.6	2.1	5.5	2.0	-3.3
Finished consumer energy goods <sup>3</sup> .....	FD	4121	4.040	29.7	1.1	2.0	4.8	2.1	-3.0
Government purchased energy.....	FD	4122	0.672	36.6	-0.7	2.2	7.7	1.8	-4.4
Energy for export.....	FD	4123	0.281	43.3	-2.4	2.7	9.1	1.4	-5.1
Final demand goods less foods and energy.....	FD	413	21.553	9.4	0.6	0.5	0.6	0.8	0.5
Finished goods less foods and energy <sup>3</sup> .....	FD	4131	12.487	6.5	0.5	0.6	0.4	0.6	0.6
Finished consumer goods less foods and energy.....	FD	41311	6.666	6.4	0.5	0.6	0.4	0.6	0.6
Nondurable consumer goods less foods and energy.....	FD	413111	4.216	5.8	0.5	0.7	0.5	0.7	0.6
Durable consumer goods.....	FD	413112	2.450	7.4	0.7	0.6	0.1	0.5	0.6
Private capital equipment.....	FD	41312	5.821	6.6	0.4	0.7	0.5	0.6	0.6
Private capital equipment for manufacturing industries.....	FD	413121	1.267	9.0	0.4	1.0	0.6	0.6	0.6
Private capital equipment for nonmanufacturing industries.....	FD	413122	4.554	5.9	0.4	0.5	0.5	0.5	0.6
Government purchased goods, excluding foods and energy.....	FD	4132	2.276	9.2	0.6	0.7	0.7	0.9	0.7
Government purchased goods excluding foods, energy, and capital equipment.....	FD	41321	1.298	13.6	0.9	0.5	0.9	1.3	0.8
Government purchased capital equipment.....	FD	41322	0.978	3.3	0.2	0.9	0.3	0.3	0.5
Goods for export, excluding foods and energy.....	FD	4133	6.790	14.7	0.8	0.3	0.9	1.2	0.1
Final demand services.....	FD	42	66.160	7.9	0.9	0.1	0.2	0.9	0.5
Final demand trade services <sup>4</sup> .....	FD	423	19.686	13.3	2.2	0.1	0.7	1.2	0.8
Trade of finished goods <sup>3</sup> .....	FD	4231	16.883	13.5	2.1	0.3	0.5	1.3	0.7
Trade of personal consumption goods.....	FD	42311	13.869	12.9	2.3	0.2	0.0	1.2	0.8
Trade of private capital equipment.....	FD	42312	3.014	16.3	1.4	0.7	3.0	1.8	0.4
Trade of government purchased goods.....	FD	4232	0.741	11.9	3.2	-1.3	1.7	0.7	1.1
Trade of government purchased goods, excluding capital equipment.....	FD	42321	0.472	10.8	4.0	-2.3	0.9	0.2	1.3
Trade of government purchased capital equipment.....	FD	42322	0.269	13.9	1.8	0.4	3.1	1.7	0.9
Trade of exports.....	FD	4233	2.062	12.2	2.7	-1.2	1.6	0.3	1.4
Final demand transportation and warehousing services.....	FD	422	4.137	16.6	0.9	-1.2	0.9	2.7	1.7
Transportation of passengers for final demand.....	FD	4221	1.007	20.6	1.4	-8.4	-2.1	4.4	5.3
Transportation of private passengers.....	FD	42211	0.680	20.5	1.4	-8.4	-2.1	4.4	5.2
Transportation of government passengers.....	FD	42212	0.082	20.3	1.4	-8.3	-2.1	4.4	5.2
Transportation of passengers for export.....	FD	42213	0.245	20.9	1.4	-8.5	-2.1	4.5	5.3
Transportation and warehousing of goods for final demand.....	FD	4222	3.130	15.4	0.7	1.4	1.9	2.1	0.5
Transportation and warehousing of finished goods <sup>3</sup> .....	FD	42221	2.051	15.8	0.7	1.4	1.9	2.2	0.5
Transportation and warehousing of personal consumption goods.....	FD	422211	1.648	15.6	0.7	1.5	1.9	2.2	0.5
Transportation and warehousing of private capital equipment.....	FD	422212	0.403	16.4	0.7	1.2	2.0	2.3	0.6
Transportation and warehousing of government purchased goods.....	FD	42222	0.191	14.3	0.7	1.7	1.8	1.7	0.7
Transportation and warehousing of exports.....	FD	42223	0.888	14.5	0.6	1.1	1.8	2.0	0.5
Final demand services less trade, transportation, and warehousing.....	FD	421	42.337	4.5	0.2	0.3	-0.2	0.6	0.2
Finished services less trade, transportation, and warehousing <sup>3</sup> .....	FD	4211	37.170	4.3	0.2	0.3	-0.1	0.6	0.2
Finished consumer services less trade, transportation, and warehousing.....	FD	42111	33.383	4.1	0.2	0.3	-0.2	0.6	0.2
Private capital investment services less trade, transportation, and warehousing.....	FD	42112	3.787	6.3	0.6	0.3	0.6	-0.1	0.2
Government purchased services less trade, transportation, and warehousing.....	FD	4212	2.615	4.3	0.2	0.2	-0.1	0.5	0.3
Gov. purchased services less trade, transportation, and warehousing, excl. capital investment.....	FD	42121	2.501	4.4	0.2	0.3	-0.2	0.6	0.3
Government purchased capital investment services less trade, transportation, and warehousing.....	FD	42122	0.114	1.8	0.0	-0.1	0.8	-0.2	0.2
Services for export less trade, transportation, and warehousing.....	FD	4213	2.552	6.8	-0.2	0.4	-0.4	0.9	0.1
Final demand construction.....	FD	43	1.705	12.4	0.4	0.2	6.0	0.3	0.3
Construction for private capital investment.....	FD	431	1.100	13.4	0.3	0.2	6.9	0.3	0.4
Construction for government.....	FD	432	0.606	10.5	0.5	0.4	4.5	0.3	0.1
<b>Special Groupings of Final Demand</b>									
Final demand less exports.....	FD	49101	86.326	9.1	0.8	0.5	0.6	0.9	0.2
Final demand less government.....	FD	49102	92.421	9.6	0.9	0.4	0.6	1.0	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**  
 [December 2021]

Grouping	Commodity code		Relative Importance Dec. 2020 <sup>1</sup>	Unadjusted 12-month percent change <sup>2</sup> Dec. 2020 to Dec. 2021 <sup>P</sup>	Seasonally adjusted 1-month percent change <sup>2</sup>				
	Group code	Item code			July to Aug.	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>	Oct. to Nov. <sup>P</sup>	Nov. to Dec. <sup>P</sup>
Final demand less foods, food and nonalcoholic beverages for immediate consumption, and energy <sup>5</sup> .....	FD	49103	88.904	8.4	0.8	0.2	0.4	0.9	0.5
Final demand less foods and energy <sup>5</sup> .....	FD	49104	89.417	8.3	0.8	0.2	0.4	0.9	0.5
Final demand less foods and food and nonalcoholic beverages for immediate consumption <sup>5</sup> .....	FD	49105	93.897	9.8	0.8	0.3	0.7	1.0	0.2
Final demand less foods <sup>5</sup> .....	FD	49106	94.410	9.6	0.8	0.3	0.7	0.9	0.2
Final demand less energy.....	FD	49107	95.007	8.6	0.9	0.3	0.3	0.9	0.4
Final demand less trade services.....	FD	49108	80.314	8.8	0.5	0.5	0.6	0.9	0.0
Final demand less distributive services <sup>6</sup> .....	FD	49109	77.184	8.6	0.5	0.5	0.6	0.9	0.0
Final demand goods less energy.....	FD	49111	27.143	10.1	1.0	0.9	0.4	0.9	0.2
Final demand goods less foods.....	FD	49112	26.546	13.5	0.6	0.9	1.7	1.1	-0.4
Final demand services less trade services.....	FD	49113	46.474	5.6	0.3	0.1	-0.1	0.8	0.3
Final demand distributive services <sup>6</sup> .....	FD	49114	22.816	13.6	2.0	0.3	0.8	1.3	0.8
Final demand goods plus final demand distributive services <sup>6</sup> .....	FD	49115	54.952	13.5	1.3	0.8	1.1	1.2	0.1
Final demand less foods, energy, and trade services <sup>5</sup> .....	FD	49116	69.731	6.9	0.4	0.3	0.3	0.8	0.4
Private and government purchased capital equipment.....	FD	49117	6.799	6.1	0.4	0.7	0.5	0.5	0.6
Private and government purchased capital investment services.....	FD	49118	7.587	11.1	1.0	0.5	1.7	0.9	0.3
Total private and government purchased capital investment.....	FD	49119	14.386	9.1	0.7	0.6	1.6	0.7	0.4
Total finished <sup>3</sup> .....	FD	49201	78.749	9.0	0.8	0.5	0.5	0.9	0.2
Total finished less foods, food and nonalcoholic beverages for immediate consumption, and energy <sup>3, 5</sup> .....	FD	49202	69.863	7.6	0.8	0.3	0.3	0.8	0.5
Total finished less foods and energy <sup>3, 5</sup> .....	FD	49203	70.371	7.6	0.8	0.3	0.3	0.8	0.5
Total finished less foods and food and nonalcoholic beverages for immediate consumption <sup>5</sup> .....	FD	49204	73.903	8.8	0.8	0.4	0.6	0.9	0.2
Total finished less foods <sup>3, 5</sup> .....	FD	49205	74.411	8.8	0.8	0.4	0.6	0.9	0.2
Total finished less energy <sup>3</sup> .....	FD	49206	74.709	7.8	0.8	0.4	0.3	0.9	0.4
Finished goods <sup>3</sup> .....	FD	49207	20.865	12.2	0.9	1.3	1.4	1.1	-0.5
Finished goods less energy <sup>3</sup> .....	FD	49208	16.825	7.9	0.9	1.2	0.4	0.8	0.3
Finished goods, excluding foods <sup>3, 5</sup> .....	FD	49209	16.527	12.2	0.6	1.0	1.7	1.0	-0.5
Finished services <sup>3</sup> .....	FD	49210	56.784	7.7	0.8	0.2	0.1	0.9	0.4
Private capital investment services.....	FD	49211	7.204	11.0	1.0	0.5	1.7	0.9	0.3
Finished distributive services <sup>3, 6</sup> .....	FD	49212	18.934	13.8	2.0	0.4	0.7	1.4	0.7
Finished services less trade services <sup>3</sup> .....	FD	49213	39.901	5.2	0.3	0.2	-0.1	0.7	0.3
Finished services less distributive services <sup>3, 6</sup> .....	FD	49214	37.850	4.6	0.2	0.1	-0.2	0.6	0.3
Total private capital investment (goods, services, and construction).....	FD	49215	14.125	9.4	0.7	0.5	1.6	0.7	0.5
Finished goods plus finished distributive services <sup>3, 6</sup> .....	FD	49216	39.799	12.9	1.4	0.9	1.0	1.2	0.1
Total exports.....	FD	49301	13.674	13.7	1.0	0.0	0.8	1.1	0.3
Goods for export.....	FD	49302	7.927	15.9	1.0	0.4	0.9	1.2	-0.1
Services for export.....	FD	49303	5.747	10.6	1.1	-0.5	0.6	1.0	0.9
Total government purchases.....	FD	49401	7.579	10.8	0.7	0.5	1.4	0.9	-0.1
Government purchased goods.....	FD	49402	3.344	15.1	0.5	1.2	2.0	1.1	-0.8
Government purchased services.....	FD	49403	3.629	6.7	0.9	-0.2	0.3	0.7	0.6
Total government purchased capital investment (goods, services, construction).....	FD	49404	1.967	6.9	0.5	0.6	2.1	0.5	0.4
Personal consumption.....	FD	49501	64.624	8.9	0.9	0.5	0.3	1.0	0.1
Personal consumption goods (finished consumer goods).....	FD	49502	15.044	14.3	1.1	1.6	1.7	1.3	-0.9
Personal consumption goods less energy.....	FD	49503	11.004	8.6	1.1	1.4	0.3	0.9	0.1
Personal consumption goods less foods.....	FD	49504	10.706	15.2	0.8	1.2	2.3	1.3	-1.0
Personal consumption nondurable goods less foods.....	FD	49508	8.256	17.5	0.8	1.4	2.9	1.5	-1.4
Personal consumption services.....	FD	49505	49.580	7.2	0.8	0.2	-0.1	0.9	0.4
Personal consumption less trade services.....	FD	49506	50.755	7.7	0.5	0.6	0.4	0.9	-0.1
Personal consumption less distributive services <sup>6</sup> .....	FD	49507	49.107	7.5	0.5	0.6	0.4	0.9	-0.1
Personal consumption less foods and energy.....	FD	49510	56.246	7.1	0.8	0.2	-0.1	0.9	0.5
Personal consumption less foods, energy, and trade services <sup>4</sup> .....	FD	49511	42.377	5.2	0.3	0.2	-0.1	0.8	0.4
Personal consumption less foods, energy, and distributive services <sup>6</sup> .....	FD	49512	40.729	4.7	0.3	0.2	-0.2	0.7	0.3
Personal consumption goods plus personal consumption distributive services <sup>6</sup> .....	FD	49509	30.561	13.8	1.6	1.0	0.9	1.3	-0.1
<b>Intermediate Demand by Commodity Type</b>									
<b>Processed goods</b>									
Processed goods for intermediate demand.....	ID6	1	100.000	24.4	0.9	1.1	2.4	1.6	-0.3
Materials and components for manufacturing.....	ID6	11	44.783	27.7	1.6	1.0	1.6	1.1	0.4
Materials for manufacturing.....	ID6	111	27.352	38.3	1.9	1.1	1.9	1.3	0.3
Materials for food manufacturing.....	ID6	1111	4.375	15.8	2.0	1.8	-0.6	0.2	-0.4
Materials for nondurable manufacturing.....	ID6	1112	12.322	32.3	2.2	-0.5	1.5	1.2	0.1
Materials for durable manufacturing.....	ID6	1113	10.655	54.7	1.6	2.4	3.0	1.7	0.6
Components for manufacturing.....	ID6	112	17.431	10.8	1.0	0.9	1.2	0.8	0.7
Components for nondurable manufacturing.....	ID6	1121	0.832	20.5	1.1	1.4	2.5	1.5	1.6
Components for durable manufacturing.....	ID6	1122	16.599	10.3	1.0	0.9	1.1	0.7	0.7

See footnotes at end of table.

**Table 1. Producer price index percentage changes and weights for Final Demand-Intermediate Demand groupings, seasonally adjusted — Continued**  
[December 2021]

Grouping	Commodity code		Relative Importance Dec. 2020 <sup>1</sup>	Unadjusted 12-month percent change <sup>2</sup> Dec. 2020 to Dec. 2021 <sup>P</sup>	Seasonally adjusted 1-month percent change <sup>2</sup>				
	Group code	Item code			July to Aug.	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>	Oct. to Nov. <sup>P</sup>	Nov. to Dec. <sup>P</sup>
Materials and components for construction.....	ID6	12	9.205	22.0	-0.1	0.4	1.5	1.7	1.5
Materials for construction.....	ID6	121	4.165	14.8	-3.1	-0.9	1.1	1.5	1.9
Components for construction.....	ID6	122	5.040	28.0	2.4	1.4	1.7	1.8	1.3
Processed fuels and lubricants for intermediate demand.....	ID6	13	17.430	34.1	-0.6	2.1	7.2	3.5	-4.1
Processed fuels and lubricants to manufacturing industries.....	ID6	131	4.591	26.6	-0.4	1.5	5.0	0.6	-1.9
Processed fuels and lubricants to nonmanufacturing industries.....	ID6	132	12.839	36.9	-0.7	2.3	8.0	4.5	-4.9
Containers for intermediate demand.....	ID6	14	2.963	16.8	1.1	1.1	2.5	0.9	0.8
Supplies for intermediate demand.....	ID6	15	25.620	13.7	0.9	0.8	0.7	1.0	0.6
Supplies to manufacturing industries.....	ID6	151	3.461	15.8	1.4	1.0	1.5	1.2	0.3
Supplies to nonmanufacturing industries.....	ID6	152	22.159	13.4	0.8	0.8	0.5	1.0	0.7
Supplies to nonmanufacturing industries, feeds.....	ID6	1521	1.941	10.0	0.1	0.7	-2.3	-0.5	-1.0
Supplies to nonmanufacturing industries, other than feeds.....	ID6	1522	20.218	13.7	0.9	0.8	0.8	1.2	0.9
<b>Unprocessed goods</b>									
Unprocessed goods for intermediate demand.....	ID6	2	100.000	38.0	1.9	2.7	5.8	2.1	-5.6
Unprocessed foodstuffs and feedstuffs.....	ID6	21	38.418	25.9	4.4	0.9	-3.1	1.4	2.8
Unprocessed nonfood materials.....	ID6	22	61.583	45.7	0.6	3.7	10.4	2.4	-9.2
Unprocessed nonfood materials except fuel.....	ID6	221	44.198	33.5	-2.3	0.5	5.1	2.8	-8.5
Unprocessed nonfood materials except fuel to manufacturing industries.....	ID6	2211	41.651	35.3	-2.4	0.5	5.4	2.9	-8.8
Unprocessed nonfood materials except fuel to nonmanufacturing industries.....	ID6	2212	2.547	4.0	0.5	0.4	0.1	0.8	-0.1
Unprocessed fuel.....	ID6	222	17.385	76.4	8.1	11.3	21.6	1.7	-10.7
Unprocessed fuel to manufacturing industries.....	ID6	2221	1.258	22.8	2.6	5.3	6.4	1.2	-4.9
Unprocessed fuel to nonmanufacturing industries.....	ID6	2222	16.127	80.6	8.5	11.7	22.5	1.8	-11.0
<b>Services</b>									
Services for intermediate demand.....	ID6	3	100.000	8.0	0.4	0.4	0.0	0.3	0.8
Trade services for intermediate demand <sup>4</sup> .....	ID6	33	21.305	13.4	2.0	-1.2	0.5	-1.0	1.4
Trade services for manufacturing industries.....	ID6	331	10.811	14.5	2.5	-0.9	0.7	-1.0	1.4
Trade services for nonmanufacturing industries.....	ID6	332	10.494	12.2	1.5	-1.5	0.3	-1.0	1.3
Transportation and warehousing services for intermediate demand.....	ID6	32	12.368	16.0	0.8	2.5	0.5	0.9	1.6
Transportation of passengers for intermediate demand.....	ID6	321	0.878	20.2	1.4	-8.3	-2.1	4.3	5.2
Transportation of passengers for manufacturing industries.....	ID6	3211	0.103	20.9	1.4	-8.5	-2.1	4.5	5.3
Transportation of passengers for nonmanufacturing industries.....	ID6	3212	0.775	20.2	1.4	-8.2	-2.1	4.3	5.1
Transportation and warehousing of goods for intermediate demand.....	ID6	322	11.490	15.7	0.7	3.4	0.7	0.6	1.4
Transportation and warehousing of goods for manufacturing industries.....	ID6	3221	2.395	12.9	0.6	1.0	1.6	1.6	0.7
Transportation and warehousing of goods for nonmanufacturing industries.....	ID6	3222	9.095	16.5	0.8	4.0	0.5	0.3	1.5
Services less trade, transportation, and warehousing for intermediate demand.....	ID6	31	66.328	4.8	-0.2	0.5	-0.3	0.7	0.4
Services less trade, transportation, and warehousing for manufacturing industries.....	ID6	311	2.090	5.6	0.2	0.3	1.1	0.4	0.4
Services less trade, transportation, and warehousing for nonmanufacturing industries.....	ID6	312	64.238	4.8	-0.2	0.5	-0.3	0.7	0.4
<b>Construction</b>									
Construction for intermediate demand.....	ID6	4	100.000	10.1	1.9	1.4	0.5	0.6	0.3
<b>Special Groupings of Intermediate Demand by Commodity Type</b>									
Processed materials less foods and feeds.....	ID6	9111	91.383	25.4	0.8	1.1	2.8	1.7	-0.3
Processed foods and feeds.....	ID6	9112	8.617	13.4	1.5	1.6	-1.0	0.0	-0.5
Processed energy goods.....	ID6	9113	17.430	34.2	-0.6	2.1	7.2	3.5	-4.1
Processed materials less energy.....	ID6	9118	82.570	22.3	1.2	0.9	1.4	1.1	0.6
Processed materials less foods and energy.....	ID6	9115	73.953	23.3	1.2	0.8	1.6	1.3	0.7
Intermediate distributive services <sup>7</sup> .....	ID6	9116	32.795	14.2	1.6	0.4	0.6	-0.4	1.4
Processed goods plus intermediate distributive services.....	ID6	9117	-	21.3	1.1	0.9	1.9	1.0	0.2
Unprocessed materials less agricultural products.....	ID6	9211	56.729	46.6	0.3	5.1	11.7	2.1	-10.0
Unprocessed energy materials <sup>8</sup> .....	ID6	9212	34.024	64.3	0.2	7.9	18.0	1.7	-13.1
Unprocessed materials less energy.....	ID6	9213	65.976	25.0	3.2	-0.4	-2.3	2.5	0.8
Unprocessed nonfood materials less energy <sup>9</sup> .....	ID6	9216	27.558	22.9	1.5	-2.2	-1.6	3.9	-2.0
<b>Intermediate Demand by Production Flow</b>									
<b>Stage 4 Intermediate Demand</b>									
Stage 4 intermediate demand.....	ID5	4	100.000	12.4	0.7	0.4	0.6	1.0	0.6
Inputs to stage 4 goods producers.....	ID5	41	31.937	15.6	1.4	0.3	1.2	0.9	0.7
Goods.....	ID5	411	22.264	17.1	1.5	0.6	1.2	1.3	0.4
Foods.....	ID5	4111	2.970	20.3	3.3	-1.5	-0.9	2.6	-0.2
Energy.....	ID5	4112	0.161	32.5	-2.9	2.2	4.8	4.5	3.0

See footnotes at end of table.



**Table 1. Producer price index percentage changes and weights for Final Demand-Intermediate Demand groupings, seasonally adjusted — Continued**  
 [December 2021]

Grouping	Commodity code		Relative Importance Dec. 2020 <sup>1</sup>	Unadjusted 12-month percent change <sup>2</sup> Dec. 2020 to Dec. 2021 <sup>P</sup>	Seasonally adjusted 1-month percent change <sup>2</sup>				
	Group code	Item code			July to Aug.	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>	Oct. to Nov. <sup>P</sup>	Nov. to Dec. <sup>P</sup>
Goods excluding foods and energy.....	ID5	4113	19.133	16.5	1.2	1.0	1.5	1.0	0.5
Services.....	ID5	412	9.673	12.3	1.1	-0.6	1.3	0.1	1.5
Trade services.....	ID5	4123	7.630	13.6	1.3	-0.8	1.4	-0.1	1.8
Transportation and warehousing services.....	ID5	4122	0.477	11.8	0.8	-0.6	0.9	1.8	1.1
Transportation of passengers.....	ID5	41221	0.061	20.9	1.4	-8.5	-2.1	4.5	5.3
Transportation and warehousing of goods.....	ID5	41222	0.416	10.5	0.6	0.8	1.4	1.4	0.5
Services less trade, transportation, and warehousing.....	ID5	4121	1.566	5.9	0.0	0.1	1.0	0.3	0.2
Inputs to stage 4 services producers.....	ID5	42	54.335	8.8	0.5	0.5	0.1	1.0	0.5
Goods.....	ID5	421	13.790	13.9	0.8	0.9	1.1	1.6	0.1
Foods.....	ID5	4211	2.286	15.5	2.8	2.1	-1.7	0.0	-0.5
Energy.....	ID5	4212	3.602	17.6	0.0	1.0	3.4	3.4	-1.9
Goods excluding foods and energy.....	ID5	4213	7.902	11.7	0.6	0.5	0.9	1.1	1.3
Services.....	ID5	422	40.456	7.0	0.4	0.4	-0.3	0.8	0.6
Trade services.....	ID5	4223	4.563	11.5	2.7	-1.2	1.3	-0.1	1.6
Transportation and warehousing services.....	ID5	4222	3.239	13.8	1.1	1.8	0.8	0.6	2.0
Transportation of passengers.....	ID5	42221	0.389	20.7	1.4	-8.4	-2.1	4.4	5.3
Transportation and warehousing of goods.....	ID5	42222	2.850	12.9	1.0	3.4	1.2	0.1	1.5
Services less trade, transportation, and warehousing.....	ID5	4221	32.654	5.7	0.0	0.5	-0.6	0.9	0.3
Construction.....	ID5	423	0.089	10.1	1.9	1.4	0.5	0.6	0.3
Inputs to stage 4 construction producers.....	ID5	43	13.727	19.8	0.0	0.3	1.5	1.1	0.6
Goods.....	ID5	431	9.555	23.4	-0.4	0.6	1.9	2.0	0.8
Energy.....	ID5	4312	0.596	59.1	-0.4	2.9	8.0	4.6	-4.7
Goods excluding foods and energy.....	ID5	4313	8.959	21.0	-0.4	0.4	1.3	1.8	1.3
Services.....	ID5	432	4.172	11.7	0.9	-0.5	0.5	-1.1	0.2
Trade services.....	ID5	4323	1.945	18.1	1.6	-1.2	0.1	-3.0	0.3
Transportation and warehousing services.....	ID5	4322	0.596	15.5	0.8	0.9	1.7	2.3	0.6
Transportation of passengers.....	ID5	43221	0.012	20.8	1.4	-8.5	-2.1	4.5	5.3
Transportation and warehousing of goods.....	ID5	43222	0.584	15.4	0.8	1.2	1.8	2.3	0.5
Services less trade, transportation, and warehousing.....	ID5	4321	1.631	2.5	0.0	0.1	0.5	0.2	-0.1
<b>Stage 3 Intermediate Demand</b>									
Stage 3 intermediate demand.....	ID5	3	100.000	20.2	1.1	1.1	1.0	0.8	0.4
Inputs to stage 3 goods producers.....	ID5	31	46.783	29.3	2.4	0.9	0.6	0.9	0.9
Goods.....	ID5	311	36.932	33.1	2.4	1.1	0.6	1.3	0.9
Foods.....	ID5	3111	11.807	26.2	3.7	0.9	-3.3	0.6	3.7
Energy.....	ID5	3112	1.229	50.2	-1.5	2.8	6.4	8.4	-1.5
Goods excluding foods and energy.....	ID5	3113	23.896	35.7	2.0	1.1	2.1	1.2	0.0
Services.....	ID5	312	9.851	15.7	2.1	0.1	0.5	-0.9	0.7
Trade services.....	ID5	3123	5.778	18.6	3.1	-0.1	-0.1	-2.5	0.7
Transportation and warehousing services.....	ID5	3122	2.630	14.7	0.7	0.6	1.6	1.9	0.9
Transportation of passengers.....	ID5	31221	0.117	20.8	1.4	-8.5	-2.1	4.5	5.3
Transportation and warehousing of goods.....	ID5	31222	2.513	14.4	0.6	1.1	1.7	1.8	0.7
Services less trade, transportation, and warehousing.....	ID5	3121	1.443	5.8	0.2	0.2	1.4	0.4	0.4
Inputs to stage 3 services producers.....	ID5	32	51.802	11.9	0.0	1.3	1.4	0.7	-0.2
Goods.....	ID5	321	9.293	31.3	-0.2	1.5	6.4	1.3	-3.5
Foods.....	ID5	3211	0.097	7.2	0.2	1.6	0.1	0.8	0.3
Energy.....	ID5	3212	4.955	46.2	-1.0	2.4	10.1	1.1	-6.1
Goods excluding foods and energy.....	ID5	3213	4.241	14.3	0.9	0.3	1.2	1.5	0.4
Services.....	ID5	322	41.514	7.7	0.0	1.3	0.1	0.5	0.8
Trade services.....	ID5	3223	2.761	12.8	5.1	-2.3	-0.3	0.3	0.6
Transportation and warehousing services.....	ID5	3222	9.008	17.7	0.7	4.7	-0.1	0.0	1.7
Transportation of passengers.....	ID5	32221	0.025	3.1	0.2	0.6	-0.9	0.0	0.2
Transportation and warehousing of goods.....	ID5	32222	8.983	17.7	0.7	4.7	-0.1	0.0	1.7
Services less trade, transportation, and warehousing.....	ID5	3221	29.745	4.2	-0.8	0.5	0.3	0.7	0.5
Construction.....	ID5	323	0.995	10.1	1.9	1.4	0.5	0.6	0.3
Inputs to stage 3 construction producers.....	ID5	33	1.416	14.7	-3.4	-1.2	0.8	-1.6	1.0
Goods.....	ID5	331	0.560	21.9	-2.6	-0.2	1.9	1.6	2.0
Goods excluding foods and energy.....	ID5	3313	0.560	21.9	-2.6	-0.2	1.9	1.6	2.0
Services.....	ID5	332	0.856	10.1	-3.9	-1.8	0.1	-3.8	0.3
Trade services.....	ID5	3323	0.810	10.2	-4.2	-1.9	0.0	-4.0	0.3
Transportation and warehousing services.....	ID5	3322	0.016	9.8	0.3	0.8	1.4	0.4	1.1
Transportation and warehousing of goods.....	ID5	33222	0.016	9.8	0.3	0.8	1.4	0.4	1.1
Services less trade, transportation, and warehousing.....	ID5	3321	0.030	7.7	0.4	0.4	1.9	0.6	0.8
<b>Stage 2 Intermediate Demand</b>									
Stage 2 intermediate demand.....	ID5	2	100.000	21.2	0.7	2.1	3.7	1.0	-2.3
Inputs to stage 2 goods producers.....	ID5	21	50.197	32.7	1.1	2.9	6.9	1.1	-5.0

See footnotes at end of table.

**Table 1. Producer price index percentage changes and weights for Final Demand-Intermediate Demand groupings, seasonally adjusted — Continued**  
[December 2021]

Grouping	Commodity code		Relative Importance Dec. 2020 <sup>1</sup>	Unadjusted 12-month percent change <sup>2</sup> Dec. 2020 to Dec. 2021 <sup>P</sup>	Seasonally adjusted 1-month percent change <sup>2</sup>				
	Group code	Item code			July to Aug.	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>	Oct. to Nov. <sup>P</sup>	Nov. to Dec. <sup>P</sup>
Goods.....	ID5	211	36.665	41.5	0.9	3.8	8.7	1.5	-6.6
Foods.....	ID5	2111	3.401	12.9	0.8	-0.8	-3.4	-0.8	0.5
Energy.....	ID5	2112	14.616	66.1	0.3	8.3	18.0	1.4	-13.4
Goods excluding foods and energy.....	ID5	2113	18.648	27.5	1.4	0.3	1.4	1.9	0.1
Services.....	ID5	212	13.012	8.6	1.7	0.1	0.9	-0.4	1.3
Trade services.....	ID5	2123	5.888	10.0	3.5	-0.7	1.0	-1.4	1.7
Transportation and warehousing services.....	ID5	2122	3.711	9.2	0.4	0.7	0.9	0.4	1.4
Transportation of passengers.....	ID5	21221	0.157	19.5	1.3	-7.9	-2.0	4.2	5.0
Transportation and warehousing of goods.....	ID5	21222	3.554	8.8	0.4	1.2	1.0	0.2	1.2
Services less trade, transportation, and warehousing.....	ID5	2121	3.413	5.6	-0.2	0.7	0.7	0.5	0.6
Construction.....	ID5	213	0.520	10.1	1.9	1.4	0.5	0.6	0.3
Inputs to stage 2 services producers.....	ID5	22	49.801	9.7	0.3	1.2	-0.1	0.9	1.1
Goods.....	ID5	221	5.802	20.7	1.0	0.9	1.8	1.8	0.6
Foods.....	ID5	2211	0.033	15.7	-0.2	0.2	-0.4	0.7	0.6
Energy.....	ID5	2212	0.306	55.9	-1.0	3.1	12.7	9.7	-7.0
Goods excluding foods and energy.....	ID5	2213	5.463	18.7	1.1	0.8	1.1	1.3	1.2
Services.....	ID5	222	42.261	8.1	0.1	1.2	-0.4	0.8	1.2
Trade services.....	ID5	2223	2.599	17.4	3.4	-0.2	-1.9	3.1	5.3
Transportation and warehousing services.....	ID5	2222	2.809	37.1	1.5	7.9	-1.6	0.2	3.8
Transportation of passengers.....	ID5	22221	0.356	20.6	1.4	-8.4	-2.1	4.4	5.3
Transportation and warehousing of goods.....	ID5	22222	2.453	39.4	1.5	10.3	-1.5	-0.3	3.6
Services less trade, transportation, and warehousing.....	ID5	2221	36.853	5.3	-0.2	0.7	-0.1	0.7	0.7
Construction.....	ID5	223	1.738	10.1	1.9	1.4	0.5	0.6	0.3
<b>Stage 1 Intermediate Demand</b>									
Stage 1 intermediate demand.....	ID5	1	100.000	17.5	0.8	0.1	1.1	1.2	0.1
Inputs to stage 1 goods producers.....	ID5	11	32.075	29.7	2.1	0.0	1.6	1.8	0.1
Goods.....	ID5	111	22.378	37.0	1.9	0.2	2.2	3.0	-0.2
Foods.....	ID5	1111	2.960	26.1	3.9	-3.8	-3.1	2.6	1.2
Energy.....	ID5	1112	3.186	37.8	-1.4	2.2	8.8	8.0	-3.6
Goods excluding foods and energy.....	ID5	1113	16.232	38.8	2.1	0.6	2.0	2.1	0.3
Services.....	ID5	112	9.696	13.2	2.7	-0.7	0.1	-1.5	0.8
Trade services.....	ID5	1123	6.079	17.0	4.1	-1.1	0.0	-2.6	1.0
Transportation and warehousing services.....	ID5	1122	0.505	13.7	0.2	-0.4	1.8	0.6	3.0
Transportation of passengers.....	ID5	11221	0.082	20.9	1.4	-8.5	-2.1	4.5	5.3
Transportation and warehousing of goods.....	ID5	11222	0.423	12.3	-0.1	1.5	2.6	-0.1	2.6
Services less trade, transportation, and warehousing.....	ID5	1121	3.112	5.6	0.2	0.3	0.1	0.6	0.1
Construction.....	ID5	113	0.001	10.1	1.9	1.4	0.5	0.6	0.3
Inputs to stage 1 services producers.....	ID5	12	55.036	10.6	0.3	0.2	0.7	1.1	0.1
Goods.....	ID5	121	17.049	19.0	0.4	1.1	3.2	1.4	-0.6
Foods.....	ID5	1211	0.055	9.4	0.4	1.9	0.9	1.9	0.4
Energy.....	ID5	1212	5.079	34.1	-0.9	1.6	7.4	1.6	-3.5
Goods excluding foods and energy.....	ID5	1213	11.915	12.5	1.0	0.8	1.1	1.2	0.9
Services.....	ID5	122	37.982	6.8	0.3	-0.2	-0.5	1.0	0.5
Trade services.....	ID5	1223	3.936	13.7	2.8	-1.6	0.4	0.5	1.0
Transportation and warehousing services.....	ID5	1222	3.705	14.5	0.8	-0.6	0.4	2.0	2.0
Transportation of passengers.....	ID5	12221	1.061	20.8	1.4	-8.5	-2.1	4.5	5.3
Transportation and warehousing of goods.....	ID5	12222	2.644	12.0	0.5	3.0	1.4	1.0	0.6
Services less trade, transportation, and warehousing.....	ID5	1221	30.341	4.9	-0.2	0.1	-0.7	1.0	0.3
Construction.....	ID5	123	0.005	10.1	1.9	1.4	0.5	0.6	0.3
Inputs to stage 1 construction producers.....	ID5	13	12.890	17.3	-0.9	0.0	1.5	-0.3	0.2
Goods.....	ID5	131	8.268	20.4	0.2	0.7	2.3	0.9	0.2
Energy.....	ID5	1312	0.641	51.9	-1.5	2.2	11.4	-1.3	-4.8
Goods excluding foods and energy.....	ID5	1313	7.627	17.7	0.4	0.6	1.3	1.2	0.8
Services.....	ID5	132	4.622	11.8	-2.7	-1.3	-0.1	-2.7	0.2
Trade services.....	ID5	1323	3.948	11.0	-3.3	-1.7	-0.4	-3.6	0.2
Transportation and warehousing services.....	ID5	1322	0.610	17.5	0.8	1.3	2.1	2.5	0.6
Transportation and warehousing of goods.....	ID5	13222	0.610	17.5	0.8	1.3	2.1	2.5	0.6
Services less trade, transportation, and warehousing.....	ID5	1321	0.064	2.8	0.1	0.1	0.6	0.1	0.0
<b>Special Groupings of Intermediate Demand by Production Flow</b>									
Total goods inputs to stage 4 intermediate demand.....	ID5	9411	45.609	17.5	0.9	0.7	1.3	1.5	0.4
Total services inputs to stage 4 intermediate demand.....	ID5	9412	54.301	8.3	0.5	0.1	0.1	0.5	0.7
Total construction inputs to stage 4 intermediate demand.....	ID5	9413	0.089	10.1	1.9	1.4	0.5	0.6	0.3
Total foods inputs to stage 4 intermediate demand.....	ID5	9414	5.256	18.1	3.1	0.0	-1.2	1.5	-0.3
Total energy goods inputs to stage 4 intermediate demand.....	ID5	9415	4.359	23.8	-0.2	1.4	4.2	3.7	-2.3
Total goods less foods and energy inputs to stage 4 intermediate demand.....	ID5	9416	35.994	16.6	0.7	0.7	1.3	1.2	0.9

See footnotes at end of table.

**Table 1. Producer price index percentage changes and weights for Final Demand-Intermediate Demand groupings, seasonally adjusted — Continued**  
 [December 2021]

Grouping	Commodity code		Relative Importance Dec. 2020 <sup>1</sup>	Unadjusted 12-month percent change <sup>2</sup> Dec. 2020 to Dec. 2021 <sup>p</sup>	Seasonally adjusted 1-month percent change <sup>2</sup>				
	Group code	Item code			July to Aug.	Aug. to Sept. <sup>p</sup>	Sept. to Oct. <sup>p</sup>	Oct. to Nov. <sup>p</sup>	Nov. to Dec. <sup>p</sup>
Total goods inputs to stage 3 intermediate demand.....	ID5	9311	46.785	32.5	1.9	1.2	1.8	1.3	0.0
Total services inputs to stage 3 intermediate demand.....	ID5	9312	52.221	9.3	0.3	1.0	0.2	0.1	0.8
Total construction inputs to stage 3 intermediate demand.....	ID5	9313	0.995	10.1	1.9	1.4	0.5	0.6	0.3
Total foods inputs to stage 3 intermediate demand.....	ID5	9314	11.904	26.0	3.7	0.9	-3.2	0.6	3.7
Total energy goods inputs to stage 3 intermediate demand.....	ID5	9315	6.184	47.0	-1.1	2.5	9.4	2.5	-5.2
Total goods less foods and energy inputs to stage 3 intermediate demand.....	ID5	9316	28.697	32.2	1.8	1.0	2.0	1.3	0.1
Total goods inputs to stage 2 intermediate demand.....	ID5	9211	42.467	38.8	0.9	3.5	7.9	1.5	-5.8
Total services inputs to stage 2 intermediate demand.....	ID5	9212	55.273	8.2	0.5	0.9	-0.1	0.5	1.3
Total construction inputs to stage 2 intermediate demand.....	ID5	9213	2.258	10.1	1.9	1.4	0.5	0.6	0.3
Total foods inputs to stage 2 intermediate demand.....	ID5	9214	3.434	12.9	0.8	-0.7	-3.3	-0.8	0.5
Total energy goods inputs to stage 2 intermediate demand.....	ID5	9215	14.922	65.8	0.3	8.2	17.9	1.5	-13.2
Total goods less foods and energy inputs to stage 2 intermediate demand.....	ID5	9216	24.111	25.5	1.4	0.4	1.4	1.8	0.3
Total goods inputs to stage 1 intermediate demand.....	ID5	9111	47.695	27.9	1.1	0.6	2.5	2.1	-0.3
Total services inputs to stage 1 intermediate demand.....	ID5	9112	52.300	8.4	0.5	-0.4	-0.3	0.2	0.6
Total construction inputs to stage 1 intermediate demand.....	ID5	9117	0.006	10.1	1.9	1.4	0.5	0.6	0.3
Total foods inputs to stage 1 intermediate demand.....	ID5	9114	3.015	25.7	3.8	-3.7	-3.0	2.6	1.2
Total energy goods inputs to stage 1 intermediate demand.....	ID5	9115	8.906	36.8	-1.1	1.8	8.2	3.5	-3.6
Total goods less foods and energy inputs to stage 1 intermediate demand.....	ID5	9116	35.774	25.5	1.4	0.7	1.6	1.7	0.6

<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.

p Preliminary

"-" Data not available.

**Table 2. Producer price index percentage changes for selected commodity groupings by Final Demand-Intermediate Demand category, seasonally adjusted**  
[December 2021]

Grouping	Commodity code		Unadjusted 12-month percent change <sup>1</sup> Dec. 2020 to Dec. 2021 <sup>P</sup>	Seasonally adjusted 1-month percent change <sup>1</sup>				
	Group code	Item code		July to Aug.	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>	Oct. to Nov. <sup>P</sup>	Nov. to Dec. <sup>P</sup>
<b>Final Demand</b>								
Final demand.....	FD	4	9.7	0.9	0.4	0.6	1.0	0.2
Final demand goods.....	FD	41	13.4	0.9	1.1	1.3	1.1	-0.4
Final demand foods.....	FD	411	12.9	2.3	2.1	-0.3	1.3	-0.6
Fresh fruits and melons <sup>2</sup> .....	01	11	16.8	-0.3	-0.3	0.1	20.1	-5.5
Fresh and dry vegetables <sup>2</sup> .....	01	13	20.4	13.2	19.8	17.2	11.5	-14.7
Grains.....	01	2	43.6	6.5	-9.7	-4.7	6.1	4.1
Eggs for fresh use <sup>2</sup> .....	01	7107	81.9	-0.5	21.2	-12.1	-5.5	46.9
Oilseeds.....	01	8301	8.0	2.7	-3.1	-6.5	-1.8	1.4
Bakery products <sup>2</sup> .....	02	11	4.9	0.3	1.1	0.2	1.2	0.5
Milled rice <sup>2</sup> .....	02	13	6.9	1.4	1.3	0.9	0.7	0.3
Pasta products <sup>2</sup> .....	02	1402	10.5	1.6	0.5	0.5	1.9	4.5
Beef and veal.....	02	2101	28.9	9.5	8.4	-12.4	1.6	-8.6
Pork.....	02	2104	12.3	3.1	-0.2	-1.6	-1.8	-2.1
Processed young chickens.....	02	2203	29.3	3.0	6.7	-1.5	-0.6	0.9
Processed turkeys.....	02	2206	44.6	4.5	1.1	-0.6	1.8	1.7
Finfish and shellfish.....	02	23	30.0	8.6	-0.4	5.4	1.5	0.7
Dairy products.....	02	3	7.0	-1.4	0.1	1.1	0.9	2.7
Processed fruits and vegetables <sup>2</sup> .....	02	4	4.7	0.7	1.1	0.9	-0.1	0.7
Confectionery end products <sup>2</sup> .....	02	55	5.4	0.9	0.8	0.6	1.1	0.1
Soft drinks <sup>2</sup> .....	02	62	7.6	0.6	3.1	1.1	0.3	0.2
Roasted coffee <sup>2</sup> .....	02	6301	2.6	-0.3	0.4	0.2	0.4	0.2
Shortening and cooking oils <sup>2</sup> .....	02	78	34.4	0.6	-0.7	4.2	0.9	-4.2
Frozen specialty food <sup>2</sup> .....	02	85	3.2	2.3	-0.5	0.3	0.3	0.5
Final demand energy.....	FD	412	31.4	0.6	2.1	5.5	2.0	-3.3
Liquefied petroleum gas <sup>2</sup> .....	05	32	89.0	2.3	15.0	14.6	-5.8	-19.4
Residential electric power.....	05	41	6.3	1.1	0.0	0.6	0.0	1.2
Residential natural gas.....	05	51	25.3	5.0	2.1	3.6	1.7	-1.4
Gasoline.....	05	71	65.8	0.1	3.1	7.7	6.0	-6.1
Home heating oil and distillates.....	05	7302	52.2	-4.2	4.0	13.1	-3.9	-2.7
No. 2 diesel fuel.....	05	7303	54.9	-1.0	1.8	14.2	-1.5	-5.9
Final demand goods less foods and energy.....	FD	413	9.4	0.6	0.5	0.6	0.8	0.5
Alcoholic beverages.....	02	61	2.3	0.4	-0.2	0.9	0.0	0.6
Pet food <sup>2</sup> .....	02	9402	7.6	1.4	0.2	0.1	0.2	0.5
Women's, girls', and infants' apparel <sup>2</sup> .....	03	8106	2.0	0.1	0.0	0.5	0.7	0.0
Men's and boys' apparel <sup>2</sup> .....	03	8107	2.4	0.5	0.4	0.0	0.2	0.2
Textile housefurnishings <sup>2</sup> .....	03	82	3.9	2.9	-0.1	1.1	0.5	0.0
Footwear.....	04	3	6.0	0.2	0.1	0.3	2.6	0.5
Industrial chemicals.....	06	1	41.7	3.6	-1.1	1.6	2.1	0.3
Pharmaceutical preparations.....	06	38	1.3	0.3	0.3	0.3	0.2	0.3
Soaps and detergents <sup>2</sup> .....	06	71	6.1	1.4	0.3	0.4	0.7	0.2
Cleaning and polishing products <sup>2</sup> .....	06	72	4.3	0.3	0.5	0.1	1.4	0.3
Cosmetics and other toiletries <sup>2</sup> .....	06	75	1.8	0.1	0.2	0.2	0.0	0.5
Tires <sup>2</sup> .....	07	1201	8.1	0.4	0.3	0.1	0.9	0.4
Consumer, institutional, and commercial products, n.e.c. <sup>2</sup> .....	07	2B	25.3	1.2	2.7	0.9	3.4	3.3
Sanitary paper products <sup>2</sup> .....	09	1501	3.4	0.5	1.4	-0.2	0.8	-0.4
Iron and steel scrap <sup>2</sup> .....	10	12	37.6	-1.7	-4.5	-0.4	9.6	-2.7
Agricultural machinery and equipment.....	11	1	14.5	1.7	1.6	1.6	0.9	2.5
Construction machinery and equipment <sup>2</sup> .....	11	2	10.1	0.5	0.4	3.0	0.4	0.9
Metal cutting machine tools <sup>2</sup> .....	11	37	4.9	0.3	0.1	0.7	0.0	1.3
Metal forming machine tools.....	11	38	3.0	0.1	0.4	-0.1	0.4	0.6
Tools, dies, jigs, fixtures, and industrial molds <sup>2</sup> .....	11	39	6.1	0.5	0.1	1.3	0.5	0.3
Pumps, compressors, and equipment.....	11	41	7.7	0.3	1.1	0.3	0.4	0.5
Industrial material handling equipment <sup>2</sup> .....	11	44	14.7	1.2	1.6	1.4	1.8	1.5
Electronic computers and computer equipment <sup>2</sup> .....	11	5	3.9	0.5	-0.2	0.6	0.4	0.8
Textile machinery and equipment <sup>2</sup> .....	11	62	1.0	0.4	0.0	0.0	0.0	0.2
Paper industries machinery <sup>2</sup> .....	11	64	5.6	0.7	0.7	0.1	0.8	1.0
Printing trades machinery and equipment <sup>2</sup> .....	11	65	6.8	1.7	-0.1	0.1	0.8	3.0
Transformers and power regulators <sup>2</sup> .....	11	74	36.4	0.1	3.1	3.0	5.5	2.5
Communication and related equipment.....	11	76	3.6	0.2	1.9	0.8	0.1	0.2
Electronic components and accessories.....	11	78	1.9	0.4	0.1	0.0	0.4	0.3
X-ray and electromedical equipment <sup>2</sup> .....	11	7905	0.1	0.0	0.0	0.0	0.0	0.0
Oil field and gas field machinery <sup>2</sup> .....	11	91	3.0	0.2	0.0	0.6	0.3	0.0
Mining machinery and equipment <sup>2</sup> .....	11	92	14.3	0.8	0.2	0.2	5.8	0.1
Office and store machines and equipment <sup>2</sup> .....	11	93	2.5	0.0	0.0	0.0	0.0	1.5

See footnotes at end of table.

**Table 2. Producer price index percentage changes for selected commodity groupings by Final Demand-Intermediate Demand category, seasonally adjusted — Continued**  
 [December 2021]

Grouping	Commodity code		Unadjusted 12-month percent change <sup>1</sup>	Seasonally adjusted 1-month percent change <sup>1</sup>				
	Group code	Item code		Dec. 2020 to Dec. 2021 <sup>P</sup>	July to Aug.	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>	Oct. to Nov. <sup>P</sup>
Household furniture <sup>2</sup> .....	12	1	13.6	0.6	1.8	0.5	1.2	1.0
Commercial furniture <sup>2</sup> .....	12	2	12.5	-0.4	1.7	0.4	0.7	0.7
Floor coverings <sup>2</sup> .....	12	3	7.4	1.7	0.7	1.5	1.2	0.0
Household appliances <sup>2</sup> .....	12	4	7.1	0.7	1.3	0.6	0.3	2.1
Home electronic equipment <sup>2</sup> .....	12	5	8.8	2.9	0.0	1.0	1.1	0.1
Lawn and garden equipment excl. garden tractors <sup>2</sup> .....	12	66	5.0	0.2	0.2	0.4	1.2	0.0
Passenger cars.....	14	1101	2.2	0.6	-0.2	-0.9	0.3	-0.1
Light motor trucks.....	14	1105	3.7	0.2	0.4	-1.7	-0.2	0.5
Heavy motor trucks.....	14	1106	1.5	0.2	0.1	0.3	0.6	0.1
Motor vehicles parts <sup>2</sup> .....	14	12	5.0	0.5	0.2	0.4	0.6	0.2
Truck trailers <sup>2</sup> .....	14	14	27.1	0.6	0.9	6.9	1.7	4.2
Travel trailers and campers <sup>2</sup> .....	14	16	21.8	1.9	2.7	3.5	2.7	0.6
Aircraft.....	14	21	1.5	0.2	0.1	0.2	0.2	0.3
Ships <sup>2</sup> .....	14	31	4.2	1.1	1.1	0.3	0.1	1.2
Railroad equipment <sup>2</sup> .....	14	4	5.1	0.0	0.1	0.3	3.7	0.0
Toys, games, and children's vehicles <sup>2</sup> .....	15	11	6.0	1.0	0.0	0.1	0.3	0.0
Sporting and athletic goods.....	15	12	13.4	1.8	0.4	0.3	1.4	1.1
Cigarettes <sup>2</sup> .....	15	21	8.4	0.0	1.6	1.2	0.5	0.0
Mobile homes <sup>2</sup> .....	15	5	30.1	0.1	0.0	1.5	0.1	4.5
Medical, surgical & personal aid devices.....	15	6	1.3	0.0	-0.5	0.2	0.1	0.1
Jewelry, platinum and karat gold <sup>2</sup> .....	15	9402	0.8	-1.6	0.4	0.0	1.3	-0.6
Costume jewelry and novelties <sup>2</sup> .....	15	9404	3.1	0.0	0.0	0.0	0.8	0.0
Final demand services.....	FD	42	7.9	0.9	0.1	0.2	0.9	0.5
Final demand trade services <sup>3</sup> .....	FD	423	13.3	2.2	0.1	0.7	1.2	0.8
Machinery and equipment parts and supplies wholesaling <sup>2</sup> .....	57	1102	12.5	-0.1	-1.5	2.0	1.8	2.6
Machinery and vehicle wholesaling <sup>2</sup> .....	57	1103	15.9	2.9	0.1	4.1	2.0	1.4
Professional and commercial equipment wholesaling <sup>2</sup> .....	57	1104	6.5	-1.9	1.9	1.0	1.3	-1.6
Furnishings wholesaling <sup>2</sup> .....	57	2	28.1	5.3	2.3	3.3	-5.8	9.6
Chemicals and allied products wholesaling <sup>2</sup> .....	57	5	6.5	7.9	-3.1	0.6	-2.5	2.1
Paper and plastics products wholesaling <sup>2</sup> .....	57	6	20.2	-0.9	3.4	1.6	3.2	-0.8
Apparel wholesaling <sup>2</sup> .....	57	7	-1.3	3.0	2.7	-2.1	4.7	-1.4
Food and alcohol wholesaling <sup>2</sup> .....	57	8	4.1	1.8	1.7	3.1	-2.8	1.2
Food and alcohol retailing.....	58	1	8.9	1.3	1.1	1.3	1.6	1.7
Health, beauty, and optical goods retailing <sup>2</sup> .....	58	2	2.0	-5.0	-0.1	-0.2	-0.2	-1.8
Apparel, jewelry, footwear, and accessories retailing.....	58	3	16.1	2.3	2.2	-2.8	3.2	0.3
Computer hardware, software, and supplies retailing <sup>2</sup> .....	58	4	-0.3	-2.0	0.9	2.5	-0.9	0.6
TV, video, and photographic equipment and supplies retailing <sup>2</sup> .....	58	5	35.8	9.2	-6.2	-8.5	-8.8	2.4
Automobiles retailing (partial).....	58	6101	127.6	4.8	7.8	7.8	7.9	-3.6
Automotive parts, including tires, retailing <sup>2</sup> .....	58	6102	9.0	-0.2	2.2	1.7	0.6	-0.6
RVs, trailers, and campers retailing <sup>2</sup> .....	58	8	49.5	10.2	-7.5	16.0	-5.0	-0.1
Sporting goods, including boats, retailing <sup>2</sup> .....	58	9	16.8	8.0	-4.6	1.6	1.0	1.0
Lawn, garden, and farm equipment and supplies retailing <sup>2</sup> .....	58	A	15.9	0.9	1.4	3.3	3.8	-0.9
Furniture retailing <sup>2</sup> .....	58	B	15.6	1.6	0.6	0.1	1.9	1.7
Flooring and floor coverings retailing <sup>2</sup> .....	58	C	9.2	0.0	0.9	1.7	1.2	-0.1
Hardware, building materials, and supplies retailing.....	58	D	7.3	-8.6	-3.4	0.0	-6.4	0.4
Major household appliances retailing.....	58	E	-1.6	0.9	1.1	-4.8	1.4	-1.1
Fuels and lubricants retailing.....	58	F	29.7	4.4	4.7	-6.6	7.6	13.0
Cleaning supplies and paper products retailing <sup>2</sup> .....	58	G	30.4	5.1	4.6	-5.2	5.8	-1.7
Book retailing <sup>2</sup> .....	58	H	1.5	0.1	1.1	0.1	0.2	0.3
Final demand transportation and warehousing services.....	FD	422	16.6	0.9	-1.2	0.9	2.7	1.7
Rail transportation of freight and mail <sup>2</sup> .....	30	11	8.1	0.5	0.5	0.8	0.7	0.4
Truck transportation of freight <sup>2</sup> .....	30	12	17.7	0.8	1.3	2.1	2.7	0.4
Air transportation of freight <sup>2</sup> .....	30	14	6.3	0.8	1.7	3.0	1.4	1.6
Courier, messenger, and U.S. postal services.....	30	16	8.4	0.2	2.6	1.2	0.7	0.1
Rail transportation of passengers.....	30	21	2.5	0.2	1.0	-0.9	-0.2	0.0
Airline passenger services.....	30	22	20.9	1.4	-8.5	-2.1	4.5	5.3
Final demand services less trade, transportation, and warehousing.....	FD	421	4.5	0.2	0.3	-0.2	0.6	0.2
Sales of books <sup>2</sup> .....	33	11	6.4	-0.4	0.6	-0.3	0.5	1.2
Sales and subscriptions of periodicals and newspapers.....	33	12	3.0	0.4	0.8	0.0	0.6	0.9
Application software publishing <sup>2</sup> .....	34	2	0.4	-0.5	-0.7	1.4	-0.4	-0.3
Advertising space sales in periodicals, newspapers, directories, and mailing lists <sup>2</sup> .....	36	1	-1.0	0.5	-0.2	0.4	0.7	0.1
Residential wired telecommunication services.....	37	11	1.2	0.4	0.0	-0.3	0.3	-0.1
Wireless telecommunication services.....	37	2	0.3	-0.6	0.0	0.1	0.5	-0.2
Cable and satellite subscriber services.....	37	3	3.4	-2.3	0.5	0.3	0.3	0.2
Internet access services <sup>2</sup> .....	37	4	0.4	0.0	0.0	-0.1	0.0	0.1

See footnotes at end of table.

**Table 2. Producer price index percentage changes for selected commodity groupings by Final Demand-Intermediate Demand category, seasonally adjusted — Continued**  
[December 2021]

Grouping	Commodity code		Unadjusted 12-month percent change <sup>1</sup>	Seasonally adjusted 1-month percent change <sup>1</sup>				
	Group code	Item code		July to Aug.	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>	Oct. to Nov. <sup>P</sup>	Nov. to Dec. <sup>P</sup>
Bundled wired telecommunications access services <sup>2</sup> .....	37	5	3.6	4.0	-0.9	1.2	-1.5	0.8
Consumer loans (partial).....	39	12	2.3	-0.7	0.0	-1.2	1.8	1.4
Deposit services (partial) <sup>2</sup> .....	39	2	-3.3	1.3	-0.4	0.7	0.1	-4.3
Other credit intermediation, incl. trust services (partial) <sup>2</sup> .....	39	3	-3.0	-0.6	-0.1	-0.2	-1.7	-0.1
Securities brokerage, dealing, investment advice, and related services <sup>2</sup> ...	40	1	7.5	-3.4	-0.2	-6.4	6.1	-0.5
Portfolio management <sup>2</sup> .....	40	2	15.9	0.8	1.2	-1.7	2.8	-0.2
Life insurance <sup>2</sup> .....	41	1101	0.7	0.1	-0.1	0.0	0.0	0.0
Disability insurance, including accidental death <sup>2</sup> .....	41	1102	0.1	0.0	0.0	0.0	0.0	0.0
Health and medical insurance.....	41	1103	1.3	0.2	0.3	0.1	0.3	0.2
Property and casualty insurance <sup>2</sup> .....	41	1104	-0.9	0.0	0.1	-0.1	0.0	0.2
Annuities <sup>2</sup> .....	41	2	-1.3	-0.3	0.0	0.1	0.1	0.0
Residential property sales and leases, brokerage fees and commissions..	43	21	11.6	1.3	0.9	0.1	0.1	0.2
Passenger car rental.....	44	1	33.7	-3.7	-4.7	4.8	0.7	-2.3
Legal services.....	45	1	3.9	-0.1	0.4	0.5	0.3	0.5
Tax preparation and planning.....	45	2102	-2.0	1.1	0.9	0.2	-0.7	0.1
Architectural and engineering services <sup>2</sup> .....	45	3	2.2	0.0	0.0	0.5	0.1	-0.1
Management, scientific, and technical consulting services.....	45	4	16.2	0.0	-0.1	1.1	-0.2	0.1
Arrangement of flights (partial).....	47	1	-9.1	0.2	1.3	-0.7	0.1	0.1
Arrangement of vehicle rentals and lodging <sup>2</sup> .....	47	2	19.0	-0.1	-1.4	-5.0	0.7	1.0
Arrangement of cruises and tours <sup>2</sup> .....	47	3	6.2	-0.7	3.7	-3.5	-3.6	-6.7
Physician care.....	51	1101	4.5	0.0	0.4	0.1	0.4	0.4
Medical laboratory and diagnostic imaging care <sup>2</sup> .....	51	1102	-0.3	0.0	0.1	-0.1	0.0	0.0
Home health and hospice care <sup>2</sup> .....	51	1103	1.7	0.0	0.0	0.6	0.0	0.0
Hospital outpatient care <sup>2</sup> .....	51	1104	3.3	0.1	0.0	0.3	0.0	0.0
Dental care.....	51	1105	1.6	0.3	0.2	0.0	0.0	0.1
Hospital inpatient care.....	51	2101	2.9	0.5	0.9	-0.5	0.1	0.4
Nursing home care.....	51	2102	0.8	0.3	0.1	-0.1	0.3	0.2
Traveler accommodation services.....	53	11	19.3	1.1	-1.5	-0.8	4.5	2.3
Food and beverages for immediate consumption services (partial) <sup>2</sup> .....	54	1	7.6	1.0	0.1	-0.1	0.2	0.7
Motor vehicle repair and maintenance (partial).....	55	2	2.6	0.4	0.5	0.2	0.5	0.1
Membership dues and admissions and recreation facility use fees (partial) <sup>2</sup> .....	56	1	4.4	0.2	-0.4	1.4	0.9	1.2
Recreational activity instruction fees (partial) <sup>2</sup> .....	56	2	-1.6	0.0	0.0	0.0	0.0	0.0
Gaming receipts (partial) <sup>2</sup> .....	56	3	1.3	-1.9	0.4	1.3	3.5	-5.1
Mining services <sup>2</sup> .....	60	1	7.3	0.9	0.4	1.0	-0.1	0.5
Final demand construction.....	FD	43	12.4	0.4	0.2	6.0	0.3	0.3
New warehouse building construction <sup>2</sup> .....	80	1101	20.5	0.1	0.0	13.0	-0.3	0.2
New school building construction <sup>2</sup> .....	80	1102	9.6	0.1	0.1	5.7	0.1	0.0
New office building construction <sup>2</sup> .....	80	1103	13.1	0.3	0.1	5.6	0.3	0.7
New industrial building construction <sup>2</sup> .....	80	1104	13.7	0.4	0.2	7.7	0.5	0.5
New health care building construction <sup>2</sup> .....	80	1105	10.9	0.2	0.3	4.9	0.5	0.1
<b>Intermediate Demand by Commodity Type</b>								
Processed goods for intermediate demand.....	ID6	1	24.4	0.9	1.1	2.4	1.6	-0.3
Processed foods and feeds.....	ID6	9112	13.4	1.5	1.6	-1.0	0.0	-0.5
Meats.....	02	21	20.6	6.4	4.6	-6.4	0.0	-5.1
Processed poultry.....	02	22	26.2	2.2	4.5	-0.4	-1.7	2.3
Dairy products.....	02	3	7.0	-1.4	0.1	1.1	0.9	2.7
Processed fruits and vegetables <sup>2</sup> .....	02	4	4.7	0.7	1.1	0.9	-0.1	0.7
Refined sugar and byproducts <sup>2</sup> .....	02	53	5.6	1.0	0.3	0.3	0.3	2.0
Fats and oils <sup>2</sup> .....	02	7	41.4	0.4	0.3	2.3	1.9	-2.4
Prepared animal feeds.....	02	9	9.2	0.1	1.3	-2.1	-0.2	-0.7
Processed materials less foods and feeds.....	ID6	9111	25.4	0.8	1.1	2.8	1.7	-0.3
Synthetic fibers <sup>2</sup> .....	03	1	23.2	0.8	1.1	1.7	0.3	-0.3
Processed yarns and threads <sup>2</sup> .....	03	2	28.8	1.8	1.7	3.7	3.4	0.4
Finished fabrics <sup>2</sup> .....	03	4	14.2	0.7	1.4	1.5	0.6	0.8
Liquefied petroleum gas <sup>2</sup> .....	05	32	89.0	2.3	15.0	14.6	-5.8	-19.4
Commercial electric power.....	05	42	7.3	0.1	1.2	-0.7	2.7	-0.2
Industrial electric power.....	05	43	8.4	0.7	-0.4	2.4	1.1	-0.6
Commercial natural gas.....	05	52	31.6	2.2	3.6	6.9	1.3	-2.6
Industrial natural gas.....	05	53	49.0	7.0	1.5	11.3	1.9	-3.5
Natural gas to electric utilities.....	05	54	58.5	-2.2	4.0	18.9	26.1	-10.4
Gasoline.....	05	71	65.8	0.1	3.1	7.7	6.0	-6.1
Jet fuel <sup>2</sup> .....	05	7203	52.0	-1.3	3.4	12.4	3.8	-11.1
No. 2 diesel fuel.....	05	7303	54.9	-1.0	1.8	14.2	-1.5	-5.9
Residual fuels <sup>2</sup> .....	05	74	77.0	-8.9	-1.5	9.4	4.3	-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**  
 [December 2021]

Grouping	Commodity code		Unadjusted 12-month percent change <sup>1</sup>	Seasonally adjusted 1-month percent change <sup>1</sup>				
	Group code	Item code		Dec. 2020 to Dec. 2021 <sup>P</sup>	July to Aug.	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>	Oct. to Nov. <sup>P</sup>
Finished lubricants <sup>2</sup> .....	05	76	14.6	1.4	0.2	3.4	0.0	0.2
Lubricating oil base stocks <sup>2</sup> .....	05	78	69.1	-3.4	6.8	0.6	-5.3	-3.9
Asphalt.....	05	8102	69.5	0.4	3.4	0.6	15.9	-0.8
Basic inorganic chemicals <sup>2</sup> .....	06	13	12.6	1.5	0.6	0.5	1.1	0.9
Basic organic chemicals.....	06	14	47.0	3.9	-1.4	1.8	2.2	0.2
Prepared paint <sup>2</sup> .....	06	21	15.6	1.3	1.7	1.1	0.8	0.9
Paint materials <sup>2</sup> .....	06	22	8.6	0.1	-2.7	1.0	4.1	0.0
Medicinal and botanical chemicals <sup>2</sup> .....	06	31	0.3	0.0	0.1	0.0	-0.1	0.4
Biological products, including diagnostics.....	06	37	10.2	0.0	0.2	0.7	0.0	4.3
Fats and oils, inedible <sup>2</sup> .....	06	4	49.4	0.4	-6.1	-0.4	0.3	-6.7
Nitrogenates.....	06	5201	107.1	0.6	2.7	12.3	9.4	12.8
Phosphates.....	06	5202	91.7	2.2	2.6	2.4	4.9	3.8
Other agricultural chemicals <sup>2</sup> .....	06	53	6.0	1.7	0.9	0.6	0.1	0.1
Plastic resins and materials.....	06	6	36.7	1.8	-0.5	-0.5	-0.3	-1.1
Industrial gases <sup>2</sup> .....	06	7903	15.8	2.0	-0.5	-2.0	12.3	2.1
Adhesives and sealants <sup>2</sup> .....	06	7904	11.4	0.4	2.1	0.6	0.6	1.9
Synthetic rubber <sup>2</sup> .....	07	1102	19.7	6.0	2.5	0.3	-1.5	-3.2
Tires <sup>2</sup> .....	07	1201	8.1	0.4	0.3	0.1	0.9	0.4
Plastic construction products <sup>2</sup> .....	07	21	34.0	2.7	1.2	2.9	1.4	1.3
Unsupported plastic film, sheet, other shapes <sup>2</sup> .....	07	22	26.3	1.3	2.1	2.8	1.7	1.5
Parts for manufacturing from plastics <sup>2</sup> .....	07	26	16.0	0.5	1.8	1.2	0.7	2.7
Plastic packaging products <sup>2</sup> .....	07	2A	25.7	2.0	1.0	2.1	1.6	-0.1
Softwood lumber.....	08	11	12.6	-22.9	-3.9	8.6	6.9	24.4
Hardwood lumber <sup>2</sup> .....	08	12	35.0	0.3	0.4	1.8	-0.4	0.5
Millwork.....	08	2	17.1	0.0	0.5	0.0	0.6	1.7
Plywood <sup>2</sup> .....	08	3	13.3	-23.4	-20.2	4.4	4.1	1.7
Paper <sup>2</sup> .....	09	13	17.6	1.6	0.9	0.8	1.9	0.6
Paperboard <sup>2</sup> .....	09	14	23.8	1.9	1.2	3.9	0.3	0.9
Paper boxes and containers <sup>2</sup> .....	09	1503	15.3	0.8	1.4	3.2	1.1	0.3
Building paper and board <sup>2</sup> .....	09	2	16.4	-30.5	-5.8	2.8	2.3	0.4
Commercial printing <sup>2</sup> .....	09	47	10.0	0.3	0.6	0.6	3.9	0.8
Foundry and forge shop products <sup>2</sup> .....	10	15	12.5	1.3	0.2	1.3	0.5	1.2
Steel mill products <sup>2</sup> .....	10	17	127.2	5.0	4.9	4.0	2.7	0.2
Primary nonferrous metals <sup>2</sup> .....	10	22	28.0	1.7	2.7	5.4	-3.9	2.1
Secondary nonferrous metals <sup>2</sup> .....	10	24	10.8	0.5	-1.2	0.2	1.0	-0.6
Aluminum mill shapes <sup>2</sup> .....	10	2501	29.8	3.9	2.6	4.1	2.2	-4.9
Copper and brass mill shapes <sup>2</sup> .....	10	2502	23.4	1.1	-0.7	0.1	1.5	-3.3
Nonferrous wire and cable <sup>2</sup> .....	10	26	29.2	1.7	0.4	3.1	1.6	-0.8
Nonferrous foundry shop products.....	10	28	13.1	1.7	0.5	0.5	1.3	0.8
Metal containers <sup>2</sup> .....	10	3	21.6	1.4	0.3	2.7	1.1	2.8
Hardware <sup>2</sup> .....	10	4	17.4	0.7	1.0	5.0	1.7	0.4
Plumbing fixtures and brass fittings.....	10	5	5.4	0.7	-0.4	0.7	0.3	2.1
Heating equipment <sup>2</sup> .....	10	6	21.6	3.8	0.3	1.0	0.5	4.9
Fabricated structural metal products.....	10	7	42.4	3.5	2.6	2.4	2.7	0.8
Bolts, nuts, screws, rivets, and washers <sup>2</sup> .....	10	81	16.6	3.3	0.5	1.3	0.1	1.1
Lighting fixtures <sup>2</sup> .....	10	83	7.9	0.6	0.9	0.5	0.2	0.8
Fabricated ferrous wire products <sup>2</sup> .....	10	88	29.7	2.9	4.5	1.4	1.1	1.2
Other miscellaneous metal products <sup>2</sup> .....	10	89	13.0	1.4	0.8	1.6	0.8	1.3
Fluid power equipment.....	11	43	8.5	1.0	0.3	1.7	0.3	1.0
Mechanical power transmission equipment <sup>2</sup> .....	11	45	8.1	1.1	0.7	0.5	0.6	0.3
Air conditioning and refrigeration equipment.....	11	48	14.8	1.3	2.0	2.2	0.9	1.1
Metal valves, except fluid power.....	11	4902	5.4	0.8	0.2	0.8	0.6	0.2
Ball and roller bearings <sup>2</sup> .....	11	4905	6.4	0.6	0.4	0.0	1.0	-0.9
Wiring devices <sup>2</sup> .....	11	71	27.1	1.9	2.1	1.6	1.9	2.1
Motors, generators, motor generator sets <sup>2</sup> .....	11	73	12.0	-0.1	2.5	2.8	3.1	0.3
Switchgear, switchboard, and industrial controls equip. <sup>2</sup> .....	11	75	9.6	0.6	2.5	0.1	0.3	2.0
Electronic components and accessories.....	11	78	1.9	0.4	0.1	0.0	0.4	0.3
Internal combustion engines <sup>2</sup> .....	11	94	2.0	0.3	0.1	0.9	0.0	0.0
Machine shop products <sup>2</sup> .....	11	95	4.9	1.5	0.3	0.9	0.0	1.1
Flat glass <sup>2</sup> .....	13	11	7.3	0.2	0.5	1.4	0.4	1.1
Cement.....	13	22	4.2	1.0	0.3	0.3	-0.3	0.3
Concrete products.....	13	3	8.5	1.4	0.4	0.5	1.0	0.7
Asphalt felts and coatings <sup>2</sup> .....	13	6	11.8	3.3	0.6	-0.1	2.9	-4.2
Paving mixtures and blocks.....	13	94	8.3	-0.2	0.2	0.9	0.6	1.7
Motor vehicle parts <sup>2</sup> .....	14	12	5.0	0.5	0.2	0.4	0.6	0.2
Aircraft engines and engine parts.....	14	23	1.8	-0.2	0.0	0.0	0.0	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**  
 [December 2021]

Grouping	Commodity code		Unadjusted 12-month percent change <sup>1</sup>	Seasonally adjusted 1-month percent change <sup>1</sup>				
	Group code	Item code		Dec. 2020 to Dec. 2021 <sup>P</sup>	July to Aug.	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>	Oct. to Nov. <sup>P</sup>
Aircraft parts and auxiliary equipment, n.e.c.....	14	25	1.6	0.1	0.2	0.8	0.0	0.0
Medical, surgical, and personal aid devices.....	15	6	1.3	0.0	-0.5	0.2	0.1	0.1
Unprocessed goods for intermediate demand.....	ID6	2	38.0	1.9	2.7	5.8	2.1	-5.6
Unprocessed foodstuffs and feedstuffs.....	ID6	21	25.9	4.4	0.9	-3.1	1.4	2.8
Wheat <sup>2</sup> .....	01	21	58.6	14.3	-0.7	2.9	6.6	3.1
Corn.....	01	2202	41.3	4.9	-12.8	-7.6	6.1	4.5
Slaughter cattle.....	01	31	24.8	2.2	0.7	-1.7	1.5	2.4
Slaughter hogs.....	01	32	15.1	1.3	7.2	-14.9	-3.7	-1.5
Slaughter chickens.....	01	4102	63.2	13.0	8.0	-5.1	-6.2	21.1
Slaughter turkeys.....	01	42	17.6	3.8	5.7	-3.7	-6.7	3.3
Raw milk.....	01	6	3.6	-1.6	1.1	5.2	3.8	-6.4
Alfalfa hay <sup>2</sup> .....	01	81	32.8	13.3	6.5	-4.2	1.4	-0.4
Oilseeds.....	01	8301	8.0	2.7	-3.1	-6.5	-1.8	1.4
Raw cane sugar and byproducts <sup>2</sup> .....	02	5201	7.9	1.1	-0.1	5.0	0.7	1.5
Unprocessed nonfood materials.....	ID6	22	45.7	0.6	3.7	10.4	2.4	-9.2
Raw cotton <sup>2</sup> .....	01	51	48.6	4.8	2.6	13.8	12.9	-9.3
Hides and skins.....	04	1	-12.3	8.0	-3.9	-14.6	-18.1	-9.2
Coal.....	05	1	1.5	-0.2	1.4	0.3	-0.6	-0.9
Natural gas <sup>2</sup> .....	05	31	97.6	9.8	13.1	25.7	1.8	-12.0
Crude petroleum <sup>2</sup> .....	05	61	53.7	-7.2	4.5	13.9	1.9	-16.4
Logs, bolts, timber, pulpwood, and woodchips <sup>2</sup> .....	08	5	7.1	0.6	-0.7	-0.4	-0.5	0.6
Recyclable paper <sup>2</sup> .....	09	12	85.1	14.2	4.8	6.3	-2.0	-7.2
Iron ores.....	10	11	23.4	2.2	2.9	0.5	0.1	0.0
Iron and steel scrap <sup>2</sup> .....	10	12	37.6	-1.7	-4.5	-0.4	9.6	-2.7
Nonferrous metal ores <sup>2</sup> .....	10	21	8.4	0.5	6.5	-6.5	3.6	-4.3
Copper base scrap <sup>2</sup> .....	10	2301	24.5	-0.3	-0.2	2.9	0.2	-0.6
Aluminum base scrap.....	10	2302	52.1	6.0	-0.6	0.8	1.1	-1.1
Construction sand, gravel, and crushed stone.....	13	21	4.0	0.6	0.4	0.0	0.9	-0.1
Services for intermediate demand.....	ID6	3	8.0	0.4	0.4	0.0	0.3	0.8
Trade services for intermediate demand <sup>3</sup> .....	ID6	33	13.4	2.0	-1.2	0.5	-1.0	1.4
Machinery and equipment parts and supplies wholesaling <sup>2</sup> .....	57	1102	12.5	-0.1	-1.5	2.0	1.8	2.6
Building materials, paint, and hardware wholesaling.....	57	3	24.0	6.7	1.4	5.0	-2.7	-1.3
Metals, minerals, and ores wholesaling <sup>2</sup> .....	57	4	34.2	1.5	-0.6	-4.5	-7.0	0.7
Chemicals and allied products wholesaling <sup>2</sup> .....	57	5	6.5	7.9	-3.1	0.6	-2.5	2.1
Paper and plastics products wholesaling <sup>2</sup> .....	57	6	20.2	-0.9	3.4	1.6	3.2	-0.8
Food wholesaling <sup>2</sup> .....	57	8101	3.5	2.1	1.8	3.9	-3.9	1.2
Automotive parts, including tires, retailing <sup>2</sup> .....	58	6102	9.0	-0.2	2.2	1.7	0.6	-0.6
Hardware, building material, and supplies retailing.....	58	D	7.3	-8.6	-3.4	0.0	-6.4	0.4
Transportation and warehousing services for intermediate demand.....	ID6	32	16.0	0.8	2.5	0.5	0.9	1.6
Rail transportation of freight and mail <sup>2</sup> .....	30	11	8.1	0.5	0.5	0.8	0.7	0.4
Truck transportation of freight <sup>2</sup> .....	30	12	17.7	0.8	1.3	2.1	2.7	0.4
Water transportation of freight <sup>2</sup> .....	30	13	17.9	-0.5	1.7	2.9	-0.9	3.5
Air transportation of freight <sup>2</sup> .....	30	14	6.3	0.8	1.7	3.0	1.4	1.6
Pipeline transportation of petroleum products.....	30	1501	1.9	0.1	0.0	0.3	0.3	0.3
U.S. Postal Service.....	30	1601	8.3	0.1	5.6	1.3	0.1	0.3
Courier and messenger services, except air mail.....	30	1602	7.7	0.2	0.5	1.0	1.0	0.3
Air mail and package delivery services, excluding by USPS.....	30	1603	10.3	0.4	0.2	1.6	1.7	-0.7
Transportation of passengers (partial).....	30	2	20.5	1.4	-8.4	-2.1	4.4	5.2
Services related to water transportation.....	31	1	4.6	0.8	-0.4	0.5	-0.1	0.8
Arrangement of freight and cargo <sup>2</sup> .....	31	31	88.7	3.0	21.8	-2.3	-1.4	6.4
Warehousing, storage, and related services <sup>2</sup> .....	32	1	11.2	2.4	1.3	2.0	-1.6	3.8
Services less trade, transportation, and warehousing for intermediate demand.....	ID6	31	4.8	-0.2	0.5	-0.3	0.7	0.4
Network compensation from broadcast TV, cable TV, radio <sup>2</sup> .....	35	-	3.5	-0.2	-0.4	0.0	0.0	0.0
Advertising space sales in periodicals and newspapers <sup>2</sup> .....	36	11	-1.2	0.6	-0.3	0.5	0.9	0.1
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	-6.0	-8.0	3.0	-2.0	5.1	4.6
Radio advertising time sales.....	36	3	18.6	2.4	2.3	-3.8	9.5	-2.9
Internet advertising space sales, excluding Internet ads sold by print publishers <sup>2</sup> .....	36	5	5.6	-1.2	-0.2	-1.0	-1.0	0.9
Business wired telecommunication services <sup>2</sup> .....	37	12	-2.0	-0.1	0.1	0.0	0.1	0.0
Wireless telecommunication services.....	37	2	0.3	-0.6	0.0	0.1	0.5	-0.2
Cable and satellite subscriber services.....	37	3	3.4	-2.3	0.5	0.3	0.3	0.2
Bundled wired telecommunication access services <sup>2</sup> .....	37	5	3.6	4.0	-0.9	1.2	-1.5	0.8
Data processing and related services <sup>2</sup> .....	38	1	0.8	0.0	-0.2	0.2	0.0	0.0
Business loans (partial).....	39	11	14.2	-2.7	4.8	0.9	0.4	3.4

See footnotes at end of table.



**Table 2. Producer price index percentage changes for selected commodity groupings by Final Demand-Intermediate Demand category, seasonally adjusted — Continued**  
 [December 2021]

Grouping	Commodity code		Unadjusted 12-month percent change <sup>1</sup>	Seasonally adjusted 1-month percent change <sup>1</sup>				
	Group code	Item code		Dec. 2020 to Dec. 2021 <sup>P</sup>	July to Aug.	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>	Oct. to Nov. <sup>P</sup>
Deposit services (partial) <sup>2</sup> .....	39	2	-3.3	1.3	-0.4	0.7	0.1	-4.3
Other credit intermediation, incl. trust services (partial) <sup>2</sup> .....	39	3	-3.0	-0.6	-0.1	-0.2	-1.7	-0.1
Securities brokerage, dealing, investment advice, and related services <sup>2</sup> .....	40	1	7.5	-3.4	-0.2	-6.4	6.1	-0.5
Portfolio management <sup>2</sup> .....	40	2	15.9	0.8	1.2	-1.7	2.8	-0.2
Investment banking <sup>2</sup> .....	40	3	18.2	1.3	2.5	0.0	0.0	1.0
Life insurance <sup>2</sup> .....	41	1101	0.7	0.1	-0.1	0.0	0.0	0.0
Health and medical insurance.....	41	1103	1.3	0.2	0.3	0.1	0.3	0.2
Property and casualty insurance <sup>2</sup> .....	41	1104	-0.9	0.0	0.1	-0.1	0.0	0.2
Annuities <sup>2</sup> .....	41	2	-1.3	-0.3	0.0	0.1	0.1	0.0
Commissions from sales of insurance <sup>2</sup> .....	42	1	0.6	0.1	0.3	0.1	0.0	0.0
Nonresidential real estate rents <sup>2</sup> .....	43	11	1.9	0.7	0.6	-1.2	0.3	0.9
Nonresidential property sales and leases <sup>2</sup> .....	43	12	8.2	0.4	0.5	1.2	0.1	0.8
Residential property management fees <sup>2</sup> .....	43	22	6.0	0.3	0.2	-0.1	0.2	1.3
Passenger car rental.....	44	1	33.7	-3.7	-4.7	4.8	0.7	-2.3
Truck, utility trailer, and RV rental and leasing <sup>2</sup> .....	44	2	1.4	0.9	0.2	0.5	0.3	-2.3
Construction, mining, and forestry machinery and equipment rental and leasing <sup>2</sup> .....	44	3	1.5	0.0	0.2	0.2	0.0	0.0
Legal services.....	45	1	3.9	-0.1	0.4	0.5	0.3	0.5
Accounting services (partial).....	45	2	2.0	1.0	0.5	-0.5	-0.1	0.0
Architectural and engineering services <sup>2</sup> .....	45	3	2.2	0.0	0.0	0.5	0.1	-0.1
Management, scientific, and technical consulting services.....	45	4	16.2	0.0	-0.1	1.1	-0.2	0.1
Advertising and related services (partial) <sup>2</sup> .....	45	5	-0.7	-0.1	0.0	-0.1	-0.7	0.0
Permanent placement services <sup>2</sup> .....	46	1	3.2	1.8	0.7	-2.0	0.2	1.3
Executive search services <sup>2</sup> .....	46	2	0.6	1.0	-2.5	-0.6	1.4	-0.1
Staffing services.....	46	3	5.2	-0.5	0.2	0.2	0.9	0.8
Security guard services <sup>2</sup> .....	48	1	5.8	1.1	1.0	0.6	0.0	0.5
Janitorial services <sup>2</sup> .....	49	1	5.4	0.0	0.4	0.2	0.3	2.5
Waste collection.....	50	1	4.0	0.0	0.4	0.9	0.3	0.5
Traveler accommodation services.....	53	11	19.3	1.1	-1.5	-0.8	4.5	2.3
Commercial and industrial machinery and equipment repair and maintenance <sup>2</sup> .....	55	1	4.5	0.0	0.0	1.2	0.3	0.0
Aircraft repair and maintenance.....	55	4	4.6	0.1	0.7	0.2	0.2	0.2
Metal treatment services <sup>2</sup> .....	59	1	10.6	0.6	0.5	2.6	0.8	1.2
Construction for intermediate demand.....	ID6	4	10.1	1.9	1.4	0.5	0.6	0.3
Maintenance and repair of non-residential buildings (partial) <sup>2</sup> .....	80	2	10.1	1.9	1.4	0.5	0.6	0.3
<b>Intermediate Demand by Production Flow</b>								
Stage 4 intermediate demand.....	ID5	4	12.4	0.7	0.4	0.6	1.0	0.6
Stage 4 intermediate demand goods.....	ID5	9411	17.5	0.9	0.7	1.3	1.5	0.4
Grains.....	01	2	43.6	6.5	-9.7	-4.7	6.1	4.1
Meats.....	02	21	20.6	6.4	4.6	-6.4	0.0	-5.1
Unprocessed and packaged fish.....	02	23	30.0	8.6	-0.4	5.4	1.5	0.7
Dairy products.....	02	3	7.0	-1.4	0.1	1.1	0.9	2.7
Commercial electric power.....	05	42	7.3	0.1	1.2	-0.7	2.7	-0.2
Industrial electric power.....	05	43	8.4	0.7	-0.4	2.4	1.1	-0.6
Gasoline.....	05	71	65.8	0.1	3.1	7.7	6.0	-6.1
No. 2 diesel fuel.....	05	7303	54.9	-1.0	1.8	14.2	-1.5	-5.9
Basic organic chemicals.....	06	14	47.0	3.9	-1.4	1.8	2.2	0.2
Prepared paint <sup>2</sup> .....	06	21	15.6	1.3	1.7	1.1	0.8	0.9
Medicinal and botanical chemicals <sup>2</sup> .....	06	31	0.3	0.0	0.1	0.0	-0.1	0.4
Biological products, including diagnostics.....	06	37	10.2	0.0	0.2	0.7	0.0	4.3
Pharmaceutical preparations.....	06	38	1.3	0.3	0.3	0.3	0.2	0.3
Plastic construction products <sup>2</sup> .....	07	21	34.0	2.7	1.2	2.9	1.4	1.3
Unsupported plastic film, sheet, and other shapes <sup>2</sup> .....	07	22	26.3	1.3	2.1	2.8	1.7	1.5
Parts for manufacturing from plastics <sup>2</sup> .....	07	26	16.0	0.5	1.8	1.2	0.7	2.7
Plastic packaging products <sup>2</sup> .....	07	2A	25.7	2.0	1.0	2.1	1.6	-0.1
Lumber.....	08	1	18.6	-15.7	-2.3	6.0	4.3	16.1
Millwork.....	08	2	17.1	0.0	0.5	0.0	0.6	1.7
Paper boxes and containers <sup>2</sup> .....	09	1503	15.3	0.8	1.4	3.2	1.1	0.3
Commercial printing <sup>2</sup> .....	09	47	10.0	0.3	0.6	0.6	3.9	0.8
Steel mill products <sup>2</sup> .....	10	17	127.2	5.0	4.9	4.0	2.7	0.2
Nonferrous wire and cable <sup>2</sup> .....	10	26	29.2	1.7	0.4	3.1	1.6	-0.8
Fabricated structural metal products.....	10	7	42.4	3.5	2.6	2.4	2.7	0.8
Other miscellaneous metal products <sup>2</sup> .....	10	89	13.0	1.4	0.8	1.6	0.8	1.3
Air conditioning and refrigeration equipment.....	11	48	14.8	1.3	2.0	2.2	0.9	1.1
Wiring devices <sup>2</sup> .....	11	71	27.1	1.9	2.1	1.6	1.9	2.1

See footnotes at end of table.

**Table 2. Producer price index percentage changes for selected commodity groupings by Final Demand-Intermediate Demand category, seasonally adjusted — Continued**  
 [December 2021]

Grouping	Commodity code		Unadjusted 12-month percent change <sup>1</sup> Dec. 2020 to Dec. 2021 <sup>P</sup>	Seasonally adjusted 1-month percent change <sup>1</sup>				
	Group code	Item code		July to Aug.	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>	Oct. to Nov. <sup>P</sup>	Nov. to Dec. <sup>P</sup>
Electronic components and accessories.....	11	78	1.9	0.4	0.1	0.0	0.4	0.3
Miscellaneous electrical machinery and equipment <sup>2</sup> .....	11	79	2.3	0.5	0.5	0.7	0.2	0.1
Internal combustion engines <sup>2</sup> .....	11	94	2.0	0.3	0.1	0.9	0.0	0.0
Machine shop products <sup>2</sup> .....	11	95	4.9	1.5	0.3	0.9	0.0	1.1
Concrete ingredients and related products.....	13	2	4.1	0.7	0.4	0.1	0.6	0.0
Concrete products.....	13	3	8.5	1.4	0.4	0.5	1.0	0.7
Prepared asphalt, tar roofing and siding products <sup>2</sup> .....	13	61	12.5	3.3	0.7	-0.1	3.2	-4.7
Paving mixtures and blocks.....	13	94	8.3	-0.2	0.2	0.9	0.6	1.7
Motor vehicle parts <sup>2</sup> .....	14	12	5.0	0.5	0.2	0.4	0.6	0.2
Aircraft engines and engine parts.....	14	23	1.8	-0.2	0.0	0.0	0.0	0.7
Aircraft parts and auxiliary equipment, n.e.c.....	14	25	1.6	0.1	0.2	0.8	0.0	0.0
Medical, surgical and personal aid devices.....	15	6	1.3	0.0	-0.5	0.2	0.1	0.1
Stage 4 intermediate demand services.....	ID5	9412	8.3	0.5	0.1	0.1	0.5	0.7
Truck transportation of freight <sup>2</sup> .....	30	12	17.7	0.8	1.3	2.1	2.7	0.4
Courier, messenger, and U.S. postal services.....	30	16	8.4	0.2	2.6	1.2	0.7	0.1
Airline passenger services.....	30	22	20.9	1.4	-8.5	-2.1	4.5	5.3
Warehousing, storage, and related services <sup>2</sup> .....	32	1	11.2	2.4	1.3	2.0	-1.6	3.8
Advertising space sales in periodicals and newspapers <sup>2</sup> .....	36	11	-1.2	0.6	-0.3	0.5	0.9	0.1
Data processing and related services <sup>2</sup> .....	38	1	0.8	0.0	-0.2	0.2	0.0	0.0
Business loans (partial).....	39	11	14.2	-2.7	4.8	0.9	0.4	3.4
Deposit services (partial) <sup>2</sup> .....	39	2	-3.3	1.3	-0.4	0.7	0.1	-4.3
Securities brokerage, dealing, investment advice, and related services <sup>2</sup> .....	40	1	7.5	-3.4	-0.2	-6.4	6.1	-0.5
Portfolio management <sup>2</sup> .....	40	2	15.9	0.8	1.2	-1.7	2.8	-0.2
Investment banking <sup>2</sup> .....	40	3	18.2	1.3	2.5	0.0	0.0	1.0
Insurance.....	41	11	0.0	0.1	0.2	-0.1	0.1	0.2
Annuities <sup>2</sup> .....	41	2	-1.3	-0.3	0.0	0.1	0.1	0.0
Nonresidential real estate rents <sup>2</sup> .....	43	11	1.9	0.7	0.6	-1.2	0.3	0.9
Nonresidential property sales and leases <sup>2</sup> .....	43	12	8.2	0.4	0.5	1.2	0.1	0.8
Nonresidential property management fees <sup>2</sup> .....	43	13	-1.0	3.1	0.7	0.4	0.3	-0.3
Residential property management fees <sup>2</sup> .....	43	22	6.0	0.3	0.2	-0.1	0.2	1.3
Construction, mining, and forestry machinery and equipment rental and leasing <sup>2</sup> .....	44	3	1.5	0.0	0.2	0.2	0.0	0.0
Legal services.....	45	1	3.9	-0.1	0.4	0.5	0.3	0.5
Advertising agency services <sup>2</sup> .....	45	51	-0.7	-0.1	0.0	-0.1	-0.7	0.0
Accounting services (partial).....	45	2	2.0	1.0	0.5	-0.5	-0.1	0.0
Architectural and engineering services <sup>2</sup> .....	45	3	2.2	0.0	0.0	0.5	0.1	-0.1
Management, scientific, and technical consulting services.....	45	4	16.2	0.0	-0.1	1.1	-0.2	0.1
Staffing services.....	46	3	5.2	-0.5	0.2	0.2	0.9	0.8
Janitorial services <sup>2</sup> .....	49	1	5.4	0.0	0.4	0.2	0.3	2.5
Commercial and industrial machinery and equipment repair and maintenance <sup>2</sup> .....	55	1	4.5	0.0	0.0	1.2	0.3	0.0
Machinery and equipment parts and supplies wholesaling <sup>2</sup> .....	57	1102	12.5	-0.1	-1.5	2.0	1.8	2.6
Building materials, paint, and hardware wholesaling.....	57	3	24.0	6.7	1.4	5.0	-2.7	-1.3
Metals, minerals, and ores wholesaling <sup>2</sup> .....	57	4	34.2	1.5	-0.6	-4.5	-7.0	0.7
Chemicals and allied products wholesaling <sup>2</sup> .....	57	5	6.5	7.9	-3.1	0.6	-2.5	2.1
Paper and plastics products wholesaling <sup>2</sup> .....	57	6	20.2	-0.9	3.4	1.6	3.2	-0.8
Food and alcohol wholesaling <sup>2</sup> .....	57	8	4.1	1.8	1.7	3.1	-2.8	1.2
Hardware and building materials and supplies retailing.....	58	D	7.3	-8.6	-3.4	0.0	-6.4	0.4
Metal treatment services <sup>2</sup> .....	59	1	10.6	0.6	0.5	2.6	0.8	1.2
Stage 3 intermediate demand.....	ID5	3	20.2	1.1	1.1	1.0	0.8	0.4
Stage 3 intermediate demand goods.....	ID5	9311	32.5	1.9	1.2	1.8	1.3	0.0
Slaughter cattle.....	01	31	24.8	2.2	0.7	-1.7	1.5	2.4
Slaughter hogs.....	01	32	15.1	1.3	7.2	-14.9	-3.7	-1.5
Slaughter poultry.....	01	4	52.4	11.0	7.6	-4.8	-6.2	17.7
Raw milk.....	01	6	3.6	-1.6	1.1	5.2	3.8	-6.4
Commercial electric power.....	05	42	7.3	0.1	1.2	-0.7	2.7	-0.2
Industrial electric power.....	05	43	8.4	0.7	-0.4	2.4	1.1	-0.6
Gasoline.....	05	71	65.8	0.1	3.1	7.7	6.0	-6.1
Jet fuel <sup>2</sup> .....	05	7203	52.0	-1.3	3.4	12.4	3.8	-11.1
No. 2 diesel fuel.....	05	7303	54.9	-1.0	1.8	14.2	-1.5	-5.9
Finished lubricants <sup>2</sup> .....	05	76	14.6	1.4	0.2	3.4	0.0	0.2
Lubricating oil base stocks <sup>2</sup> .....	05	78	69.1	-3.4	6.8	0.6	-5.3	-3.9
Asphalt.....	05	8102	69.5	0.4	3.4	0.6	15.9	-0.8
Basic inorganic chemicals <sup>2</sup> .....	06	13	12.6	1.5	0.6	0.5	1.1	0.9
Basic organic chemicals.....	06	14	47.0	3.9	-1.4	1.8	2.2	0.2
Paints and allied products <sup>2</sup> .....	06	2	14.0	1.1	0.6	1.1	1.5	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**  
 [December 2021]

Grouping	Commodity code		Unadjusted 12-month percent change <sup>1</sup>	Seasonally adjusted 1-month percent change <sup>1</sup>				
	Group code	Item code		Dec. 2020 to Dec. 2021 <sup>P</sup>	July to Aug.	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>	Oct. to Nov. <sup>P</sup>
Agricultural chemicals and chemical products.....	06	5	48.6	2.2	3.0	3.1	3.4	4.8
Plastic resins and materials.....	06	6	36.7	1.8	-0.5	-0.5	-0.3	-1.1
Synthetic rubber <sup>2</sup> .....	07	1102	19.7	6.0	2.5	0.3	-1.5	-3.2
Unsupported plastic film, sheet, and other shapes <sup>2</sup> .....	07	22	26.3	1.3	2.1	2.8	1.7	1.5
Paper <sup>2</sup> .....	09	13	17.6	1.6	0.9	0.8	1.9	0.6
Paperboard <sup>2</sup> .....	09	14	23.8	1.9	1.2	3.9	0.3	0.9
Converted paper and paperboard products <sup>2</sup> .....	09	15	11.6	1.1	1.4	1.7	0.9	0.2
Commercial printing <sup>2</sup> .....	09	47	10.0	0.3	0.6	0.6	3.9	0.8
Foundry and forge shop products <sup>2</sup> .....	10	15	12.5	1.3	0.2	1.3	0.5	1.2
Steel mill products <sup>2</sup> .....	10	17	127.2	5.0	4.9	4.0	2.7	0.2
Nonferrous mill shapes <sup>2</sup> .....	10	25	24.8	2.4	1.3	2.5	1.8	-3.7
Nonferrous foundry shop products.....	10	28	13.1	1.7	0.5	0.5	1.3	0.8
Metal containers <sup>2</sup> .....	10	3	21.6	1.4	0.3	2.7	1.1	2.8
Structural, architectural, and pre-engineered metal products.....	10	74	51.5	4.7	3.8	3.7	2.3	0.3
Bolts, nuts, screws, rivets, and washers <sup>2</sup> .....	10	81	16.6	3.3	0.5	1.3	0.1	1.1
Other miscellaneous metal products <sup>2</sup> .....	10	89	13.0	1.4	0.8	1.6	0.8	1.3
General purpose machinery and equipment.....	11	4	10.2	0.9	1.1	1.0	0.8	0.9
Electrical machinery and equipment.....	11	7	5.2	0.4	1.2	0.7	0.6	0.5
Construction sand, gravel, and crushed stone.....	13	21	4.0	0.6	0.4	0.0	0.9	-0.1
Cement.....	13	22	4.2	1.0	0.3	0.3	-0.3	0.3
Motor vehicle parts <sup>2</sup> .....	14	12	5.0	0.5	0.2	0.4	0.6	0.2
Aircraft and aircraft equipment.....	14	2	1.6	0.1	0.1	0.3	0.1	0.3
Stage 3 intermediate demand services.....	ID5	9312	9.3	0.3	1.0	0.2	0.1	0.8
Rail transportation of freight and mail <sup>2</sup> .....	30	11	8.1	0.5	0.5	0.8	0.7	0.4
Courier, messenger, and U.S. postal services.....	30	16	8.4	0.2	2.6	1.2	0.7	0.1
Arrangement of freight and cargo <sup>2</sup> .....	31	31	88.7	3.0	21.8	-2.3	-1.4	6.4
Freight forwarding <sup>2</sup> .....	31	3201	14.7	1.0	1.7	-0.3	1.2	1.4
Warehousing, storage, and related services <sup>2</sup> .....	32	1	11.2	2.4	1.3	2.0	-1.6	3.8
Advertising space sales in periodicals, newspapers, directories, and mailing lists <sup>2</sup> .....	36	1	-1.0	0.5	-0.2	0.4	0.7	0.1
Wired telephone services <sup>2</sup> .....	37	1	-0.8	0.0	0.0	0.0	0.0	0.0
Bundled wired telecommunications access services <sup>2</sup> .....	37	5	3.6	4.0	-0.9	1.2	-1.5	0.8
Data processing and related services <sup>2</sup> .....	38	1	0.8	0.0	-0.2	0.2	0.0	0.0
Business loans (partial).....	39	11	14.2	-2.7	4.8	0.9	0.4	3.4
Deposit services (partial) <sup>2</sup> .....	39	2	-3.3	1.3	-0.4	0.7	0.1	-4.3
Securities brokerage, dealing, investment advice, and related services <sup>2</sup> .....	40	1	7.5	-3.4	-0.2	-6.4	6.1	-0.5
Insurance.....	41	11	0.0	0.1	0.2	-0.1	0.1	0.2
Nonresidential real estate rents <sup>2</sup> .....	43	11	1.9	0.7	0.6	-1.2	0.3	0.9
Legal services.....	45	1	3.9	-0.1	0.4	0.5	0.3	0.5
Accounting services (partial).....	45	2	2.0	1.0	0.5	-0.5	-0.1	0.0
Architectural and engineering services <sup>2</sup> .....	45	3	2.2	0.0	0.0	0.5	0.1	-0.1
Management, scientific, and technical consulting services.....	45	4	16.2	0.0	-0.1	1.1	-0.2	0.1
Advertising agency services <sup>2</sup> .....	45	51	-0.7	-0.1	0.0	-0.1	-0.7	0.0
Staffing services.....	46	3	5.2	-0.5	0.2	0.2	0.9	0.8
Aircraft repair maintenance.....	55	4	4.6	0.1	0.7	0.2	0.2	0.2
Machinery and equipment parts and supplies wholesaling <sup>2</sup> .....	57	1102	12.5	-0.1	-1.5	2.0	1.8	2.6
Building materials, paint, and hardware wholesaling.....	57	3	24.0	6.7	1.4	5.0	-2.7	-1.3
Metals, minerals, and ores wholesaling <sup>2</sup> .....	57	4	34.2	1.5	-0.6	-4.5	-7.0	0.7
Chemicals and allied products wholesaling <sup>2</sup> .....	57	5	6.5	7.9	-3.1	0.6	-2.5	2.1
Paper and plastics products wholesaling <sup>2</sup> .....	57	6	20.2	-0.9	3.4	1.6	3.2	-0.8
Food wholesaling <sup>2</sup> .....	57	8101	3.5	2.1	1.8	3.9	-3.9	1.2
Metal treatment services <sup>2</sup> .....	59	1	10.6	0.6	0.5	2.6	0.8	1.2
Stage 2 intermediate demand.....	ID5	2	21.2	0.7	2.1	3.7	1.0	-2.3
Stage 2 intermediate demand goods.....	ID5	9211	38.8	0.9	3.5	7.9	1.5	-5.8
Corn.....	01	2202	41.3	4.9	-12.8	-7.6	6.1	4.5
Oilseeds.....	01	83	8.0	2.7	-3.1	-6.5	-1.8	1.4
Prepared animal feeds.....	02	9	9.2	0.1	1.3	-2.1	-0.2	-0.7
Coal.....	05	1	1.5	-0.2	1.4	0.3	-0.6	-0.9
Natural gas <sup>2</sup> .....	05	31	97.6	9.8	13.1	25.7	1.8	-12.0
Liquefied petroleum gas <sup>2</sup> .....	05	32	89.0	2.3	15.0	14.6	-5.8	-19.4
Crude petroleum <sup>2</sup> .....	05	61	53.7	-7.2	4.5	13.9	1.9	-16.4
No. 2 diesel fuel.....	05	7303	54.9	-1.0	1.8	14.2	-1.5	-5.9
Industrial chemicals.....	06	1	41.7	3.6	-1.1	1.6	2.1	0.3
Plastic resins and materials.....	06	6	36.7	1.8	-0.5	-0.5	-0.3	-1.1
Plastic products <sup>2</sup> .....	07	2	24.3	1.4	1.6	2.1	1.5	1.6
Logs, bolts, timber, pulpwood, and wood chips <sup>2</sup> .....	08	5	7.1	0.6	-0.7	-0.4	-0.5	0.6

See footnotes at end of table.

**Table 2. Producer price index percentage changes for selected commodity groupings by Final Demand-Intermediate Demand category, seasonally adjusted — Continued**  
 [December 2021]

Grouping	Commodity code		Unadjusted 12-month percent change <sup>1</sup>	Seasonally adjusted 1-month percent change <sup>1</sup>				
	Group code	Item code		July to Aug.	Aug. to Sept. <sup>P</sup>	Sept. to Oct. <sup>P</sup>	Oct. to Nov. <sup>P</sup>	Nov. to Dec. <sup>P</sup>
Paper <sup>2</sup> .....	09	13	17.6	1.6	0.9	0.8	1.9	0.6
Paperboard, excluding corrugated paperboard <sup>2</sup> .....	09	1411	24.0	2.2	1.3	4.0	0.1	0.8
Commercial printing <sup>2</sup> .....	09	47	10.0	0.3	0.6	0.6	3.9	0.8
Iron and steel scrap <sup>2</sup> .....	10	12	37.6	-1.7	-4.5	-0.4	9.6	-2.7
Steel mill products <sup>2</sup> .....	10	17	127.2	5.0	4.9	4.0	2.7	0.2
Nonferrous mill shapes <sup>2</sup> .....	10	25	24.8	2.4	1.3	2.5	1.8	-3.7
Electrical machinery and equipment.....	11	7	5.2	0.4	1.2	0.7	0.6	0.5
Electronic components and accessories.....	11	78	1.9	0.4	0.1	0.0	0.4	0.3
Stage 2 intermediate demand services.....	ID5	9212	8.2	0.5	0.9	-0.1	0.5	1.3
Rail transportation of freight and mail <sup>2</sup> .....	30	11	8.1	0.5	0.5	0.8	0.7	0.4
Truck transportation of freight <sup>2</sup> .....	30	12	17.7	0.8	1.3	2.1	2.7	0.4
Pipeline transportation of petroleum products.....	30	1501	1.9	0.1	0.0	0.3	0.3	0.3
U.S. Postal Service.....	30	1601	8.3	0.1	5.6	1.3	0.1	0.3
Courier and messenger services, except air.....	30	1602	7.7	0.2	0.5	1.0	1.0	0.3
Air mail and package delivery services, excluding by USPS.....	30	1603	10.3	0.4	0.2	1.6	1.7	-0.7
Airline passenger services.....	30	22	20.9	1.4	-8.5	-2.1	4.5	5.3
Arrangement of freight and cargo <sup>2</sup> .....	31	31	88.7	3.0	21.8	-2.3	-1.4	6.4
Television advertising time sales.....	36	21	-6.0	-8.0	3.0	-2.0	5.1	4.6
Wireless telecommunication services.....	37	2	0.3	-0.6	0.0	0.1	0.5	-0.2
Data processing and related services <sup>2</sup> .....	38	1	0.8	0.0	-0.2	0.2	0.0	0.0
Securities brokerage, dealing, investment advice, and related services <sup>2</sup> .....	40	1	7.5	-3.4	-0.2	-6.4	6.1	-0.5
Portfolio management <sup>2</sup> .....	40	2	15.9	0.8	1.2	-1.7	2.8	-0.2
Investment banking <sup>2</sup> .....	40	31	18.2	1.3	2.5	0.0	0.0	1.0
Insurance.....	41	11	0.0	0.1	0.2	-0.1	0.1	0.2
Commissions from sales of insurance <sup>2</sup> .....	42	11	0.6	0.1	0.3	0.1	0.0	0.0
Legal services.....	45	1	3.9	-0.1	0.4	0.5	0.3	0.5
Accounting services (partial).....	45	2	2.0	1.0	0.5	-0.5	-0.1	0.0
Management, scientific, and technical consulting services.....	45	4	16.2	0.0	-0.1	1.1	-0.2	0.1
Advertising agency services <sup>2</sup> .....	45	51	-0.7	-0.1	0.0	-0.1	-0.7	0.0
Staffing services.....	46	3	5.2	-0.5	0.2	0.2	0.9	0.8
Security guard services <sup>2</sup> .....	48	1	5.8	1.1	1.0	0.6	0.0	0.5
Janitorial services <sup>2</sup> .....	49	1	5.4	0.0	0.4	0.2	0.3	2.5
Traveler accommodation services.....	53	1	19.3	1.1	-1.5	-0.8	4.5	2.3
Commercial and industrial machinery and equipment repair and maintenance <sup>2</sup> .....	55	1	4.5	0.0	0.0	1.2	0.3	0.0
Hardware and building materials and supplies retailing.....	58	D	7.3	-8.6	-3.4	0.0	-6.4	0.4
Stage 1 intermediate demand.....	ID5	1	17.5	0.8	0.1	1.1	1.2	0.1
Stage 1 intermediate demand goods.....	ID5	9111	27.9	1.1	0.6	2.5	2.1	-0.3
Prepared animal feeds.....	02	9	9.2	0.1	1.3	-2.1	-0.2	-0.7
Commercial electric power.....	05	42	7.3	0.1	1.2	-0.7	2.7	-0.2
Industrial electric power.....	05	43	8.4	0.7	-0.4	2.4	1.1	-0.6
Commercial natural gas.....	05	52	31.6	2.2	3.6	6.9	1.3	-2.6
Industrial natural gas.....	05	53	49.0	7.0	1.5	11.3	1.9	-3.5
Gasoline.....	05	71	65.8	0.1	3.1	7.7	6.0	-6.1
No. 2 diesel fuel.....	05	7303	54.9	-1.0	1.8	14.2	-1.5	-5.9
Industrial chemicals.....	06	1	41.7	3.6	-1.1	1.6	2.1	0.3
Prepared paint <sup>2</sup> .....	06	21	15.6	1.3	1.7	1.1	0.8	0.9
Plastic construction products <sup>2</sup> .....	07	21	34.0	2.7	1.2	2.9	1.4	1.3
Recyclable paper <sup>2</sup> .....	09	12	85.1	14.2	4.8	6.3	-2.0	-7.2
Paper <sup>2</sup> .....	09	13	17.6	1.6	0.9	0.8	1.9	0.6
Converted paper and paperboard products <sup>2</sup> .....	09	15	11.6	1.1	1.4	1.7	0.9	0.2
Iron and steel scrap <sup>2</sup> .....	10	12	37.6	-1.7	-4.5	-0.4	9.6	-2.7
Steel mill products <sup>2</sup> .....	10	17	127.2	5.0	4.9	4.0	2.7	0.2
Primary nonferrous metals <sup>2</sup> .....	10	22	28.0	1.7	2.7	5.4	-3.9	2.1
Nonferrous scrap.....	10	23	13.2	-0.7	-6.6	0.7	0.3	-5.1
Nonferrous wire and cable <sup>2</sup> .....	10	26	29.2	1.7	0.4	3.1	1.6	-0.8
Fabricated structural metal products.....	10	7	42.4	3.5	2.6	2.4	2.7	0.8
General purpose machinery and equipment.....	11	4	10.2	0.9	1.1	1.0	0.8	0.9
Construction sand, gravel, and crushed stone.....	13	21	4.0	0.6	0.4	0.0	0.9	-0.1
Stage 1 intermediate demand services.....	ID5	9112	8.4	0.5	-0.4	-0.3	0.2	0.6
Truck transportation of freight <sup>2</sup> .....	30	12	17.7	0.8	1.3	2.1	2.7	0.4
Airline passenger services.....	30	22	20.9	1.4	-8.5	-2.1	4.5	5.3
Advertising space sales in periodicals, newspapers, directories, and mailing lists <sup>2</sup> .....	36	1	-1.0	0.5	-0.2	0.4	0.7	0.1
Business wired telecommunication services <sup>2</sup> .....	37	12	-2.0	-0.1	0.1	0.0	0.1	0.0
Wireless telecommunication services.....	37	2	0.3	-0.6	0.0	0.1	0.5	-0.2

See footnotes at end of table.

**Table 2. Producer price index percentage changes for selected commodity groupings by Final Demand-Intermediate Demand category, seasonally adjusted — Continued**  
 [December 2021]

Grouping	Commodity code		Unadjusted 12-month percent change <sup>1</sup>	Seasonally adjusted 1-month percent change <sup>1</sup>				
	Group code	Item code		July to Aug.	Aug. to Sept. <sup>p</sup>	Sept. to Oct. <sup>p</sup>	Oct. to Nov. <sup>p</sup>	Nov. to Dec. <sup>p</sup>
Bundled wired telecommunications access services <sup>2</sup> .....	37	5	3.6	4.0	-0.9	1.2	-1.5	0.8
Business loans (partial).....	39	11	14.2	-2.7	4.8	0.9	0.4	3.4
Deposit services (partial) <sup>2</sup> .....	39	2	-3.3	1.3	-0.4	0.7	0.1	-4.3
Securities brokerage, dealing, investment advice, and related services <sup>2</sup> .....	40	1	7.5	-3.4	-0.2	-6.4	6.1	-0.5
Portfolio management <sup>2</sup> .....	40	2	15.9	0.8	1.2	-1.7	2.8	-0.2
Investment banking <sup>2</sup> .....	40	3	18.2	1.3	2.5	0.0	0.0	1.0
Insurance.....	41	11	0.0	0.1	0.2	-0.1	0.1	0.2
Nonresidential real estate rents <sup>2</sup> .....	43	11	1.9	0.7	0.6	-1.2	0.3	0.9
Architectural and engineering services <sup>2</sup> .....	45	3	2.2	0.0	0.0	0.5	0.1	-0.1
Management consulting services.....	45	41	16.2	0.0	-0.1	1.1	-0.2	0.1
Waste collection.....	50	1	4.0	0.0	0.4	0.9	0.3	0.5
Traveler accommodation services.....	53	11	19.3	1.1	-1.5	-0.8	4.5	2.3
Commercial and industrial machinery and equipment repair and maintenance <sup>2</sup> .....	55	1	4.5	0.0	0.0	1.2	0.3	0.0
Machinery and equipment parts and supplies wholesaling <sup>2</sup> .....	57	1102	12.5	-0.1	-1.5	2.0	1.8	2.6
Building materials, paint, and hardware wholesaling.....	57	3	24.0	6.7	1.4	5.0	-2.7	-1.3
Metals, minerals, and ores wholesaling <sup>2</sup> .....	57	4	34.2	1.5	-0.6	-4.5	-7.0	0.7
Chemicals and allied products wholesaling <sup>2</sup> .....	57	5	6.5	7.9	-3.1	0.6	-2.5	2.1
Paper and plastics products wholesaling <sup>2</sup> .....	57	6	20.2	-0.9	3.4	1.6	3.2	-0.8
Hardware and building materials and supplies retailing.....	58	D	7.3	-8.6	-3.4	0.0	-6.4	0.4
Mining services <sup>2</sup> .....	60	1	7.3	0.9	0.4	1.0	-0.1	0.5

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

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

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

p Preliminary

"-" Data not available.

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

**Table 3. Producer price indexes for Final Demand-Intermediate Demand groupings, seasonally adjusted**  
 [December 2021, Index base Nov. 2009=100, unless otherwise indicated]

Grouping	Other index base	Commodity code		Seasonally adjusted index <sup>1</sup>				
		Group code	Item code	Aug. 2021	Sept. 2021 <sup>P</sup>	Oct. 2021 <sup>P</sup>	Nov. 2021 <sup>P</sup>	Dec. 2021 <sup>P</sup>
<b>Final Demand</b>								
Final demand.....		FD	4	128.602	129.173	130.010	131.260	131.483
Final demand goods.....		FD	41	127.760	129.150	130.850	132.315	131.746
Final demand foods.....		FD	411	133.228	136.042	135.596	137.334	136.529
Finished consumer foods <sup>2</sup> .....	00/82	FD	4111	230.684	236.617	237.021	240.178	238.683
Finished consumer foods, crude.....	00/82	FD	411113	202.631	222.072	239.035	263.891	253.978
Finished consumer foods, processed.....	00/82	FD	411112	234.208	238.701	237.324	238.153	237.560
Government purchased foods.....		FD	4112	139.062	142.191	139.858	140.646	139.602
Foods for export.....		FD	4113	145.567	145.444	142.367	144.309	143.817
Final demand energy.....		FD	412	121.629	124.171	130.945	133.601	129.174
Finished consumer energy goods <sup>2</sup> .....	00/82	FD	4121	192.215	196.105	205.556	209.891	203.631
Government purchased energy.....		FD	4122	124.756	127.498	137.258	139.788	133.568
Energy for export.....		FD	4123	108.561	111.539	121.661	123.360	117.074
Final demand goods less foods and energy.....		FD	413	128.019	128.706	129.482	130.530	131.143
Finished goods less foods and energy <sup>2</sup> .....	00/82	FD	4131	220.274	221.693	222.633	223.939	225.323
Finished consumer goods less foods and energy.....	00/82	FD	41311	246.305	247.878	248.807	250.305	251.804
Nondurable consumer goods less foods and energy.....	00/82	FD	413111	315.461	317.519	319.254	321.397	323.291
Durable consumer goods.....	00/82	FD	413112	174.717	175.793	175.940	176.792	177.879
Private capital equipment.....	00/82	FD	41312	187.793	189.014	189.923	191.004	192.226
Private capital equipment for manufacturing industries.....	00/82	FD	413121	195.368	197.338	198.475	199.764	201.059
Private capital equipment for nonmanufacturing industries.....	00/82	FD	413122	185.388	186.405	187.250	188.272	189.473
Government purchased goods, excluding foods and energy.....		FD	4132	123.979	124.795	125.636	126.766	127.638
Government purchased goods excluding foods, energy, and capital equipment.....		FD	41321	130.262	130.943	132.127	133.845	134.967
Government purchased capital equipment.....		FD	41322	114.327	115.300	115.696	116.063	116.606
Goods for export, excluding foods and energy.....		FD	4133	129.680	130.089	131.242	132.767	132.964
Final demand services.....		FD	42	128.567	128.726	128.944	130.101	130.721
Final demand trade services <sup>3</sup> .....		FD	423	134.729	134.873	135.785	137.350	138.459
Trade of finished goods <sup>2</sup> .....		FD	4231	133.727	134.163	134.856	136.583	137.564
Trade of personal consumption goods.....		FD	42311	134.834	135.167	135.140	136.723	137.814
Trade of private capital equipment.....		FD	42312	127.388	128.276	132.078	134.407	134.903
Trade of government purchased goods.....		FD	4232	138.802	136.955	139.329	140.321	141.906
Trade of government purchased goods, excluding capital equipment.....		FD	42321	147.685	144.321	145.656	145.889	147.776
Trade of government purchased capital equipment.....		FD	42322	124.031	124.503	128.414	130.535	131.652
Trade of exports.....		FD	4233	142.624	140.923	143.211	143.589	145.644
Final demand transportation and warehousing services.....		FD	422	135.049	133.377	134.550	138.161	140.459
Transportation of passengers for final demand.....		FD	4221	117.061	107.239	104.969	109.610	115.368
Transportation of private passengers.....		FD	42211	117.101	107.309	105.041	109.670	115.412
Transportation of government passengers.....		FD	42212	117.056	107.386	105.132	109.706	115.384
Transportation of passengers for export.....		FD	42213	116.892	106.946	104.664	109.360	115.182
Transportation and warehousing of goods for final demand.....		FD	4222	141.329	143.250	145.916	149.039	149.806
Transportation and warehousing of finished goods <sup>2</sup> .....		FD	42221	140.249	142.262	144.978	148.199	148.962
Transportation and warehousing of personal consumption goods.....		FD	422211	140.489	142.572	145.274	148.456	149.205
Transportation and warehousing of private capital equipment.....		FD	422212	139.286	141.019	143.792	147.168	147.989
Transportation and warehousing of government purchased goods.....		FD	42222	138.553	140.870	143.433	145.851	146.943
Transportation and warehousing of exports.....		FD	42223	145.494	147.117	149.707	152.772	153.483
Final demand services less trade, transportation, and warehousing.....		FD	421	125.174	125.520	125.327	126.058	126.291
Finished services less trade, transportation, and warehousing <sup>2</sup> .....		FD	4211	125.590	125.931	125.759	126.470	126.707
Finished consumer services less trade, transportation, and warehousing.....		FD	42111	125.429	125.767	125.495	126.297	126.525
Private capital investment services less trade, transportation, and warehousing.....		FD	42112	127.349	127.725	128.438	128.346	128.655
Government purchased services less trade, transportation, and warehousing.....		FD	4212	117.696	117.977	117.804	118.440	118.746
Gov. purchased services less trade, transportation, and warehousing, excl. capital investment.....		FD	42121	118.089	118.389	118.166	118.844	119.154
Government purchased capital investment services less trade, transportation, and warehousing.....		FD	42122	107.312	107.206	108.047	107.817	108.038
Services for export less trade, transportation, and warehousing.....		FD	4213	128.524	129.003	128.484	129.625	129.722
Final demand construction.....		FD	43	137.013	137.349	145.638	146.060	146.528
Construction for private capital investment.....		FD	431	137.556	137.770	147.234	147.668	148.279
Construction for government.....		FD	432	135.809	136.362	142.521	142.919	143.130
<b>Final Demand Special Groupings</b>								
Final demand less exports.....	04/10	FD	49101	126.152	126.801	127.597	128.792	128.990
Final demand less government.....	04/10	FD	49102	126.998	127.558	128.303	129.547	129.793
Final demand less foods, food and nonalcoholic beverages for immediate consumption, and energy <sup>1</sup> .....	04/10	FD	49103	127.438	127.723	128.211	129.380	130.004
Final demand less foods and energy <sup>4</sup> .....	04/10	FD	49104	127.263	127.551	128.042	129.148	129.758
Final demand less foods and food and nonalcoholic beverages for immediate consumption <sup>4</sup> .....	04/10	FD	49105	126.641	127.081	128.001	129.269	129.543

See footnotes at end of table.

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

[December 2021, Index base Nov. 2009=100, unless otherwise indicated]

Grouping	Other index base	Commodity code		Seasonally adjusted index <sup>1</sup>				
		Group code	Item code	Aug. 2021	Sept. 2021 <sup>P</sup>	Oct. 2021 <sup>P</sup>	Nov. 2021 <sup>P</sup>	Dec. 2021 <sup>P</sup>
Final demand less foods <sup>4</sup> .....	04/10	FD	49106	126.459	126.892	127.791	128.995	129.273
Final demand less energy.....	04/10	FD	49107	127.352	127.785	128.221	129.362	129.888
Final demand less trade services.....	01/10	FD	49108	125.732	126.399	127.212	128.376	128.387
Final demand less distributive services <sup>5</sup> .....	01/10	FD	49109	125.156	125.778	126.524	127.615	127.598
Final demand goods less energy.....	01/10	FD	49111	127.950	129.061	129.583	130.761	131.083
Final demand goods less foods.....	04/10	FD	49112	123.750	124.830	126.907	128.285	127.777
Final demand services less trade services.....	04/10	FD	49113	125.068	125.231	125.162	126.145	126.559
Final demand distributive services <sup>5</sup> .....	04/10	FD	49114	133.111	133.479	134.598	136.333	137.378
Final demand goods plus final demand distributive services <sup>5</sup> .....	04/10	FD	49115	128.178	129.142	130.589	132.143	132.221
Final demand less foods, energy, and trade services <sup>4</sup> .....	08/13	FD	49116	118.235	118.544	118.899	119.825	120.271
Private and government purchased capital equipment.....	08/13	FD	49117	113.976	114.749	115.279	115.893	116.607
Private and government purchased capital investment services.....	08/13	FD	49118	117.474	118.071	120.091	121.146	121.550
Total private and government purchased capital investment.....	08/13	FD	49119	117.257	117.903	119.844	120.649	121.190
Total finished <sup>2</sup> .....	01/10	FD	49201	127.213	127.873	128.576	129.791	130.022
Total finished less foods, food and nonalcoholic beverages for immediate consumption, and energy <sup>2, 4</sup> .....	12/10	FD	49202	126.753	127.119	127.481	128.555	129.152
Total finished less foods and energy <sup>2, 4</sup> .....	01/10	FD	49203	127.669	128.035	128.389	129.460	130.059
Total finished less foods and food and nonalcoholic beverages for immediate consumption <sup>4</sup> .....	12/10	FD	49204	125.712	126.217	126.958	128.138	128.424
Total finished less foods <sup>2, 4</sup> .....	01/10	FD	49205	127.132	127.639	128.369	129.552	129.845
Total finished less energy <sup>2</sup> .....	01/10	FD	49206	127.729	128.268	128.615	129.727	130.242
Finished goods <sup>2</sup> .....	00/82	FD	49207	223.624	226.642	229.731	232.246	231.118
Finished goods less energy <sup>2</sup> .....	00/82	FD	49208	222.573	225.144	225.946	227.723	228.368
Finished goods, excluding foods <sup>2, 4</sup> .....	00/82	FD	49209	220.961	223.244	226.986	229.332	228.299
Finished services <sup>2</sup> .....	01/10	FD	49210	127.413	127.684	127.834	128.984	129.539
Private capital investment services.....	04/10	FD	49211	126.647	127.307	129.435	130.555	130.967
Finished distributive services <sup>2, 5</sup> .....	04/10	FD	49212	131.829	132.415	133.297	135.141	136.082
Finished services less trade services <sup>2</sup> .....	04/10	FD	49213	125.220	125.421	125.344	126.255	126.633
Finished services less distributive services <sup>2, 5</sup> .....	04/10	FD	49214	124.575	124.685	124.467	125.262	125.621
Total private capital investment (goods, services, and construction).....	04/10	FD	49215	124.272	124.950	126.936	127.825	128.404
Finished goods plus finished distributive services <sup>2</sup> .....	04/10	FD	49216	128.131	129.305	130.638	132.248	132.348
Total exports.....	04/10	FD	49301	128.978	128.991	129.988	131.437	131.783
Goods for export.....	00/82	FD	49302	219.139	219.953	221.926	224.577	224.250
Services for export.....	04/10	FD	49303	134.660	133.974	134.767	136.116	137.290
Total government purchases.....	04/10	FD	49401	121.992	122.563	124.308	125.378	125.295
Government purchased goods.....	00/82	FD	49402	205.229	207.703	211.915	214.231	212.621
Government purchased services.....	04/10	FD	49403	122.099	121.806	122.182	123.074	123.802
Total government purchased capital investment (goods, services, construction).....	08/13	FD	49404	115.166	115.848	118.241	118.793	119.277
Personal consumption.....	01/10	FD	49501	127.772	128.428	128.845	130.130	130.283
Personal consumption goods (finished consumer goods).....	00/82	FD	49502	238.749	242.581	246.660	249.824	247.613
Personal consumption goods less energy.....	00/82	FD	49503	240.344	243.757	244.468	246.668	246.910
Personal consumption goods less foods.....	00/82	FD	49504	240.231	243.180	248.722	251.865	249.379
Personal consumption nondurable goods less foods.....	00/82	FD	49508	268.832	272.574	280.384	284.495	280.517
Personal consumption services.....	04/10	FD	49505	127.004	127.215	127.071	128.219	128.794
Personal consumption less trade services.....	04/10	FD	49506	125.545	126.286	126.819	128.022	127.925
Personal consumption less distributive services <sup>5</sup> .....	04/10	FD	49507	125.165	125.864	126.331	127.474	127.351
Personal consumption less foods and energy.....	04/14	FD	49510	118.563	118.826	118.759	119.790	120.348
Personal consumption less foods, energy, and trade services <sup>3</sup> .....	04/14	FD	49511	116.928	117.176	117.095	117.988	118.401
Personal consumption less foods, energy, and distributive services <sup>5</sup> .....	04/14	FD	49512	116.829	117.014	116.834	117.652	118.055
Personal consumption goods plus personal consumption distributive services <sup>5</sup> .....	08/13	FD	49509	118.343	119.505	120.612	122.158	122.085
<b>Intermediate Demand by Commodity Type</b>								
<b>Processed goods</b>								
Processed goods for intermediate demand.....	00/82	ID6	1	236.618	239.236	245.071	248.980	248.199
Materials and components for manufacturing.....	00/82	ID6	11	228.232	230.552	234.287	236.903	237.894
Materials for manufacturing.....		ID6	111	149.138	150.742	153.532	155.503	155.897
Materials for food manufacturing.....	00/82	ID6	1111	230.209	234.358	233.023	233.482	232.587
Materials for nondurable manufacturing.....	00/82	ID6	1112	272.141	270.868	274.913	278.317	278.707
Materials for durable manufacturing.....	00/82	ID6	1113	300.069	307.420	316.683	321.984	323.810
Components for manufacturing.....	00/82	ID6	112	167.774	169.285	171.262	172.609	173.896
Components for nondurable manufacturing.....		ID6	1121	129.924	131.796	135.031	137.120	139.296
Components for durable manufacturing.....		ID6	1122	118.441	119.474	120.788	121.688	122.540
Materials and components for construction.....	00/82	ID6	12	306.385	307.649	312.206	317.378	322.253
Materials for construction.....		ID6	121	149.931	148.611	150.309	152.505	155.341
Components for construction.....		ID6	122	152.480	154.615	157.295	160.129	162.206
Processed fuels and lubricants for intermediate demand.....	00/82	ID6	13	212.369	216.778	232.416	240.493	230.545
Processed fuels and lubricants to manufacturing industries.....	00/82	ID6	131	222.703	226.047	237.381	238.689	234.105
Processed fuels and lubricants to nonmanufacturing industries.....	00/82	ID6	132	209.357	214.124	231.195	241.499	229.780
Containers for intermediate demand.....	00/82	ID6	14	263.058	265.857	272.600	275.016	277.264

See footnotes at end of table.

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

[December 2021, Index base Nov. 2009=100, unless otherwise indicated]

Grouping	Other index base	Commodity code		Seasonally adjusted index <sup>1</sup>				
		Group code	Item code	Aug. 2021	Sept. 2021 <sup>P</sup>	Oct. 2021 <sup>P</sup>	Nov. 2021 <sup>P</sup>	Dec. 2021 <sup>P</sup>
Supplies for intermediate demand.....	00/82	ID6	15	226.177	227.991	229.540	231.944	233.409
Supplies to manufacturing industries.....	00/82	ID6	151	223.792	226.008	229.487	232.275	232.859
Supplies to nonmanufacturing industries.....	00/82	ID6	152	224.747	226.482	227.713	230.038	231.631
Supplies to nonmanufacturing industries, feeds.....	00/82	ID6	1521	223.543	225.194	220.055	218.948	216.657
Supplies to nonmanufacturing industries, other than feeds.....	00/82	ID6	1522	226.658	228.416	230.296	232.983	234.978
<b>Unprocessed goods</b>								
Unprocessed goods for intermediate demand.....	00/82	ID6	2	251.233	257.918	272.929	278.705	263.004
Unprocessed foodstuffs and feedstuffs.....	00/82	ID6	21	210.437	212.277	205.651	208.451	214.357
Unprocessed nonfood materials.....	00/82	ID6	22	268.816	278.703	307.684	315.194	286.070
Unprocessed nonfood materials except fuel.....	00/82	ID6	221	325.268	326.795	343.565	353.273	323.385
Unprocessed nonfood materials except fuel to manufacturing industries.....	00/82	ID6	2211	303.402	304.842	321.219	330.587	301.393
Unprocessed nonfood materials except fuel to nonmanufacturing industries.....	00/82	ID6	2212	291.608	292.652	292.859	295.241	295.043
Unprocessed fuel.....	00/82	ID6	222	175.102	194.926	237.029	241.140	215.364
Unprocessed fuel to manufacturing industries.....	00/82	ID6	2221	183.007	192.704	204.954	207.484	197.241
Unprocessed fuel to nonmanufacturing industries.....	00/82	ID6	2222	179.639	200.639	245.753	250.078	222.624
<b>Services</b>								
Services for intermediate demand.....		ID6	3	132.538	133.002	133.027	133.491	134.550
Trade services for intermediate demand <sup>5</sup> .....		ID6	33	157.521	155.658	156.428	154.851	156.951
Trade services for manufacturing industries.....	12/12	ID6	331	144.570	143.324	144.354	142.903	144.873
Trade services for nonmanufacturing industries.....	12/12	ID6	332	139.490	137.376	137.734	136.341	138.158
Transportation and warehousing services for intermediate demand.....		ID6	32	141.559	145.028	145.814	147.057	149.451
Transportation of passengers for intermediate demand.....		ID6	321	117.127	107.463	105.210	109.781	115.456
Transportation of passengers for manufacturing industries.....		ID6	3211	116.883	106.946	104.665	109.357	115.174
Transportation of passengers for nonmanufacturing industries.....		ID6	3212	117.214	107.583	105.332	109.889	115.547
Transportation and warehousing of goods for intermediate demand.....		ID6	322	144.207	149.063	150.170	151.062	153.111
Transportation and warehousing of goods for manufacturing industries.....	12/12	ID6	3221	117.809	118.980	120.941	122.828	123.686
Transportation and warehousing of goods for nonmanufacturing industries.....	12/12	ID6	3222	129.362	134.508	135.203	135.676	137.745
Services less trade, transportation, and warehousing for intermediate demand.....		ID6	31	124.164	124.753	124.439	125.335	125.873
Services less trade, transportation, and warehousing for manufacturing industries.....		ID6	311	116.172	116.494	117.749	118.174	118.665
Services less trade, transportation, and warehousing for nonmanufacturing industries.....		ID6	312	124.419	125.017	124.648	125.561	126.100
<b>Construction</b>								
Construction for intermediate demand.....		ID6	4	128.407	130.179	130.819	131.552	131.923
<b>Intermediate Demand by Commodity Type Special Groupings</b>								
Processed materials less foods and feeds.....	00/82	ID6	9111	237.664	240.177	246.783	251.059	250.311
Processed foods and feeds.....	00/82	ID6	9112	226.241	229.957	227.553	227.554	226.427
Processed energy goods.....	00/82	ID6	9113	213.354	217.785	233.492	241.602	231.611
Processed materials less energy.....	00/82	ID6	9118	239.609	241.739	245.033	247.847	249.375
Processed materials less foods and energy.....	00/82	ID6	9115	240.766	242.701	246.662	249.803	251.642
Intermediate distributive services <sup>6</sup> .....	04/10	ID6	9116	149.855	150.412	151.287	150.616	152.659
Processed goods plus intermediate distributive services.....	04/10	ID6	9117	134.347	135.543	138.113	139.504	139.727
Unprocessed materials less agricultural products.....	00/82	ID6	9211	267.212	280.735	313.512	320.052	288.022
Unprocessed energy materials <sup>7</sup> .....	00/82	ID6	9212	193.303	208.619	246.250	250.332	217.648
Unprocessed materials less energy.....	00/82	ID6	9213	279.180	278.095	271.702	278.559	280.765
Unprocessed nonfood materials less energy <sup>8</sup> .....	00/82	ID6	9216	488.700	477.738	470.143	488.604	478.872
<b>Intermediate Demand by Production Flow</b>								
<b>Stage 4 Intermediate Demand</b>								
Stage 4 intermediate demand.....		ID5	4	134.145	134.695	135.565	136.893	137.689
Inputs to stage 4 goods producers.....		ID5	41	133.363	133.707	135.333	136.571	137.576
Goods.....		ID5	411	128.294	129.105	130.613	132.263	132.805
Foods.....		ID5	4111	140.407	138.274	137.027	140.579	140.337
Energy.....		ID5	4112	128.080	130.858	137.085	143.195	147.473
Goods excluding foods and energy.....		ID5	4113	126.515	127.752	129.633	130.959	131.586
Services.....		ID5	412	150.064	149.120	151.105	151.226	153.532
Trade services.....		ID5	4123	159.764	158.511	160.778	160.686	163.576
Transportation and warehousing services.....		ID5	4122	124.421	123.735	124.833	127.036	128.461
Transportation of passengers.....		ID5	41221	116.891	106.946	104.663	109.360	115.182
Transportation and warehousing of goods.....		ID5	41222	134.135	135.216	137.047	138.914	139.582
Services less trade, transportation, and warehousing.....		ID5	4121	118.141	118.318	119.454	119.765	120.062
Inputs to stage 4 services producers.....		ID5	42	131.515	132.221	132.309	133.603	134.232
Goods.....		ID5	421	130.280	131.459	132.895	134.978	135.130
Foods.....		ID5	4211	142.303	145.354	142.955	142.946	142.244

See footnotes at end of table.



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

[December 2021, Index base Nov. 2009=100, unless otherwise indicated]

Grouping	Other index base	Commodity code		Seasonally adjusted index <sup>1</sup>				
		Group code	Item code	Aug. 2021	Sept. 2021 <sup>P</sup>	Oct. 2021 <sup>P</sup>	Nov. 2021 <sup>P</sup>	Dec. 2021 <sup>P</sup>
Energy.....		ID5	4212	119.791	121.015	125.103	129.392	126.899
Goods excluding foods and energy.....		ID5	4213	131.835	132.443	133.576	135.086	136.878
Services.....		ID5	422	131.834	132.366	131.966	132.975	133.776
Trade services.....		ID5	4223	142.595	140.931	142.751	142.672	144.981
Transportation and warehousing services.....		ID5	4222	132.780	135.212	136.237	137.034	139.759
Transportation of passengers.....		ID5	42221	116.560	106.738	104.473	109.113	114.869
Transportation and warehousing of goods.....		ID5	42222	136.144	140.838	142.471	142.561	144.734
Services less trade, transportation, and warehousing.....		ID5	4221	129.771	130.402	129.569	130.739	131.147
Construction.....		ID5	423	128.407	130.179	130.819	131.552	131.923
Inputs to stage 4 construction producers.....		ID5	43	144.834	145.251	147.394	149.067	150.005
Goods.....		ID5	431	144.924	145.801	148.540	151.582	152.790
Energy.....		ID5	4312	132.826	136.704	147.634	154.393	147.077
Goods excluding foods and energy.....		ID5	4313	149.476	150.081	152.084	154.834	156.903
Services.....		ID5	432	143.925	143.248	143.956	142.352	142.640
Trade services.....		ID5	4323	166.593	164.535	164.745	159.785	160.230
Transportation and warehousing services.....		ID5	4322	136.513	137.790	140.200	143.433	144.258
Transportation of passengers.....		ID5	43221	121.886	111.547	109.170	114.053	120.107
Transportation and warehousing of goods.....		ID5	43222	137.592	139.187	141.738	144.943	145.633
Services less trade, transportation, and warehousing.....		ID5	4321	120.392	120.487	121.109	121.336	121.271
<b>Stage 3 Intermediate Demand</b>								
Stage 3 intermediate demand.....		ID5	3	136.325	137.815	139.190	140.234	140.756
Inputs to stage 3 goods producers.....		ID5	31	151.522	152.922	153.817	155.190	156.558
Goods.....		ID5	311	148.591	150.241	151.147	153.171	154.578
Foods.....		ID5	3111	154.327	155.784	150.702	151.611	157.265
Energy.....		ID5	3112	123.089	126.511	134.595	145.965	143.771
Goods excluding foods and energy.....		ID5	3113	151.247	152.916	156.186	158.120	158.082
Services.....		ID5	312	152.649	152.865	153.702	152.248	153.356
Trade services.....		ID5	3123	162.510	162.411	162.312	158.330	159.473
Transportation and warehousing services.....		ID5	3122	136.237	137.052	139.204	141.822	143.104
Transportation of passengers.....		ID5	31221	124.467	113.886	111.457	116.453	122.648
Transportation and warehousing of goods.....		ID5	31222	136.695	138.169	140.583	143.060	144.057
Services less trade, transportation, and warehousing.....		ID5	3121	118.913	119.164	120.788	121.296	121.792
Inputs to stage 3 services producers.....		ID5	32	123.711	125.364	127.167	128.026	127.825
Goods.....		ID5	321	107.854	109.517	116.564	118.053	113.888
Foods.....		ID5	3211	139.982	142.291	142.429	143.588	144.017
Energy.....		ID5	3212	104.333	106.842	117.658	118.977	111.740
Goods excluding foods and energy.....		ID5	3213	121.916	122.270	123.688	125.589	126.148
Services.....		ID5	322	128.321	129.965	130.132	130.793	131.834
Trade services.....		ID5	3223	171.755	167.801	167.236	167.667	168.681
Transportation and warehousing services.....		ID5	3222	151.227	158.278	158.072	158.122	160.781
Transportation of passengers.....		ID5	32221	101.458	102.082	101.124	101.075	101.256
Transportation and warehousing of goods.....		ID5	32222	151.678	158.766	158.563	158.613	161.286
Services less trade, transportation, and warehousing.....		ID5	3221	119.980	120.629	120.947	121.784	122.416
Construction.....		ID5	323	128.407	130.179	130.819	131.552	131.923
Inputs to stage 3 construction producers.....		ID5	33	134.412	132.844	133.941	131.766	133.060
Goods.....		ID5	331	122.428	122.171	124.548	126.590	129.068
Energy.....				-	-	-	-	-
Goods excluding foods and energy.....		ID5	3313	156.002	155.675	158.704	161.306	164.463
Services.....		ID5	332	163.801	160.869	161.014	154.887	155.341
Trade services.....		ID5	3323	169.551	166.315	166.325	159.619	160.032
Transportation and warehousing services.....		ID5	3322	100.146	100.965	102.381	102.821	103.994
Transportation and warehousing of goods.....		ID5	33222	105.708	106.572	108.067	108.532	109.770
Services less trade, transportation, and warehousing.....		ID5	3321	109.886	110.325	112.454	113.127	114.039
<b>Stage 2 Intermediate Demand</b>								
Stage 2 intermediate demand.....		ID5	2	124.734	127.386	132.152	133.473	130.406
Inputs to stage 2 goods producers.....		ID5	21	118.716	122.199	130.644	132.054	125.515
Goods.....		ID5	211	118.184	122.640	133.250	135.204	126.290
Foods.....		ID5	2111	154.762	153.588	148.441	147.302	148.018
Energy.....		ID5	2112	87.042	94.233	111.161	112.685	97.633
Goods excluding foods and energy.....		ID5	2113	142.857	143.328	145.375	148.200	148.320
Services.....		ID5	212	131.923	132.019	133.198	132.662	134.420
Trade services.....		ID5	2123	150.169	149.134	150.670	148.608	151.123
Transportation and warehousing services.....		ID5	2122	149.660	150.782	152.118	152.680	154.821
Transportation of passengers.....		ID5	21221	118.131	108.804	106.578	111.001	116.503
Transportation and warehousing of goods.....		ID5	21222	151.511	153.320	154.889	155.197	157.116
Services less trade, transportation, and warehousing.....		ID5	2121	115.108	115.923	116.683	117.240	117.932
Construction.....		ID5	213	128.407	130.179	130.819	131.552	131.923
Inputs to stage 2 services producers.....		ID5	22	128.084	129.581	129.501	130.663	132.121

See footnotes at end of table.

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

[December 2021, Index base Nov. 2009=100, unless otherwise indicated]

Grouping	Other index base	Commodity code		Seasonally adjusted index <sup>1</sup>				
		Group code	Item code	Aug. 2021	Sept. 2021 <sup>P</sup>	Oct. 2021 <sup>P</sup>	Nov. 2021 <sup>P</sup>	Dec. 2021 <sup>P</sup>
Goods.....		ID5	221	130.444	131.652	134.006	136.453	137.268
Foods.....		ID5	2211	118.955	119.193	118.732	119.508	120.176
Energy.....		ID5	2212	133.869	138.020	155.569	170.692	158.660
Goods excluding foods and energy.....		ID5	2213	130.608	131.644	133.081	134.762	136.374
Services.....		ID5	222	127.442	128.966	128.501	129.490	131.084
Trade services.....		ID5	2223	156.252	155.953	152.969	157.727	166.081
Transportation and warehousing services.....		ID5	2222	152.506	164.581	162.026	162.306	168.470
Transportation of passengers.....		ID5	22221	117.406	107.537	105.258	109.921	115.705
Transportation and warehousing of goods.....		ID5	22222	159.664	176.043	173.415	172.816	179.056
Services less trade, transportation, and warehousing.....		ID5	2221	125.180	126.040	125.875	126.697	127.567
Construction.....		ID5	223	128.407	130.179	130.819	131.552	131.923
<b>Stage 1 Intermediate Demand</b>								
Stage 1 intermediate demand.....		ID5	1	133.900	134.063	135.573	137.148	137.339
Inputs to stage 1 goods producers.....		ID5	11	142.198	142.191	144.529	147.087	147.221
Goods.....		ID5	111	141.730	142.072	145.238	149.577	149.314
Foods.....		ID5	1111	159.060	153.085	148.379	152.186	153.990
Energy.....		ID5	1112	110.297	112.691	122.662	132.452	127.691
Goods excluding foods and energy.....		ID5	1113	149.891	150.829	153.802	157.051	157.496
Services.....		ID5	112	147.154	146.195	146.340	144.123	145.341
Trade services.....		ID5	1123	164.886	163.064	163.009	158.715	160.338
Transportation and warehousing services.....		ID5	1122	130.054	129.589	131.972	132.798	136.821
Transportation of passengers.....		ID5	11221	116.869	106.925	104.644	109.339	115.160
Transportation and warehousing of goods.....		ID5	11222	131.896	133.853	137.398	137.228	140.745
Services less trade, transportation, and warehousing.....		ID5	1121	102.881	103.205	103.314	103.931	104.027
Construction.....		ID5	113	128.407	130.179	130.819	131.552	131.923
Inputs to stage 1 services producers.....		ID5	12	128.509	128.824	129.719	131.184	131.375
Goods.....		ID5	121	124.659	125.991	129.973	131.739	130.891
Foods.....		ID5	1211	99.758	101.675	102.636	104.570	105.019
Energy.....		ID5	1212	131.459	133.520	143.347	145.604	140.486
Goods excluding foods and energy.....		ID5	1213	128.399	129.448	130.823	132.446	133.622
Services.....		ID5	122	130.176	129.980	129.327	130.638	131.350
Trade services.....		ID5	1223	151.969	149.556	150.113	150.916	152.415
Transportation and warehousing services.....		ID5	1222	125.093	124.291	124.768	127.227	129.737
Transportation of passengers.....		ID5	12221	116.801	106.864	104.584	109.276	115.093
Transportation and warehousing of goods.....		ID5	12222	142.929	147.245	149.341	150.786	151.677
Services less trade, transportation, and warehousing.....		ID5	1221	127.284	127.430	126.491	127.699	128.076
Construction.....		ID5	123	128.407	130.179	130.819	131.552	131.923
Inputs to stage 1 construction producers.....		ID5	13	146.197	146.153	148.285	147.778	148.133
Goods.....		ID5	131	140.937	141.925	145.183	146.540	146.891
Energy.....		ID5	1312	116.554	119.064	132.639	130.850	124.633
Goods excluding foods and energy.....		ID5	1313	146.353	147.158	149.124	150.912	152.124
Services.....		ID5	132	156.606	154.527	154.437	150.253	150.613
Trade services.....		ID5	1323	165.480	162.611	161.974	156.221	156.514
Transportation and warehousing services.....		ID5	1322	112.815	114.334	116.762	119.732	120.435
Transportation and warehousing of goods.....		ID5	13222	116.692	118.263	120.775	123.847	124.574
Services less trade, transportation, and warehousing.....		ID5	1321	121.439	121.583	122.326	122.490	122.522
<b>Intermediate Demand by Production Flow Special Groupings</b>								
Total goods inputs to stage 4 intermediate demand.....	04/10	ID5	9411	129.499	130.414	132.105	134.114	134.657
Total services inputs to stage 4 intermediate demand.....	04/10	ID5	9412	135.127	135.321	135.400	136.057	137.063
Total construction inputs to stage 4 intermediate demand.....	04/10	ID5	9413	127.343	129.100	129.735	130.462	130.830
Total foods inputs to stage 4 intermediate demand.....	04/10	ID5	9414	138.068	138.129	136.433	138.432	138.005
Total energy goods inputs to stage 4 intermediate demand.....	04/10	ID5	9415	112.069	113.631	118.452	122.807	120.030
Total goods less foods and energy inputs to stage 4 intermediate demand.....	04/10	ID5	9416	131.837	132.788	134.524	136.201	137.396
Total goods inputs to stage 3 intermediate demand.....	04/10	ID5	9311	131.114	132.669	135.033	136.826	136.796
Total services inputs to stage 3 intermediate demand.....	04/10	ID5	9312	131.770	133.075	133.360	133.537	134.571
Total construction inputs to stage 3 intermediate demand.....	04/10	ID5	9313	127.343	129.100	129.735	130.462	130.830
Total foods inputs to stage 3 intermediate demand.....	04/10	ID5	9314	137.256	138.558	134.068	134.879	139.871
Total energy goods inputs to stage 3 intermediate demand.....	04/10	ID5	9315	105.254	107.861	118.008	120.944	114.681
Total goods less foods and energy inputs to stage 3 intermediate demand.....	04/10	ID5	9316	140.540	141.912	144.764	146.621	146.725
Total goods inputs to stage 2 intermediate demand.....	04/10	ID5	9211	113.682	117.610	126.904	128.811	121.276
Total services inputs to stage 2 intermediate demand.....	04/10	ID5	9212	128.916	130.123	130.027	130.676	132.312
Total construction inputs to stage 2 intermediate demand.....	04/10	ID5	9213	127.343	129.100	129.735	130.462	130.830
Total foods inputs to stage 2 intermediate demand.....	04/10	ID5	9214	155.219	154.055	148.936	147.813	148.533
Total energy goods inputs to stage 2 intermediate demand.....	04/10	ID5	9215	85.749	92.753	109.332	110.981	96.280
Total goods less foods and energy inputs to stage 2 intermediate demand.....	04/10	ID5	9216	132.060	132.626	134.424	136.841	137.276
Total goods inputs to stage 1 intermediate demand.....	04/10	ID5	9111	120.697	121.398	124.479	127.124	126.796
Total services inputs to stage 1 intermediate demand.....	04/10	ID5	9112	134.383	133.896	133.441	133.649	134.419

See footnotes at end of table.

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

[December 2021, Index base Nov. 2009=100, unless otherwise indicated]

Grouping	Other index base	Commodity code		Seasonally adjusted index <sup>1</sup>				
		Group code	Item code	Aug. 2021	Sept. 2021 <sup>p</sup>	Oct. 2021 <sup>p</sup>	Nov. 2021 <sup>p</sup>	Dec. 2021 <sup>p</sup>
Total construction inputs to stage 1 intermediate demand. ....	04/10	ID5	9117	127.343	129.100	129.735	130.462	130.830
Total foods inputs to stage 1 intermediate demand. ....	04/10	ID5	9114	148.458	143.003	138.695	142.239	143.908
Total energy goods inputs to stage 1 intermediate demand. ....	04/10	ID5	9115	117.529	119.668	129.474	134.028	129.146
Total goods less foods and energy inputs to stage 1 intermediate demand. ....	04/10	ID5	9116	117.964	118.752	120.617	122.631	123.325

<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.