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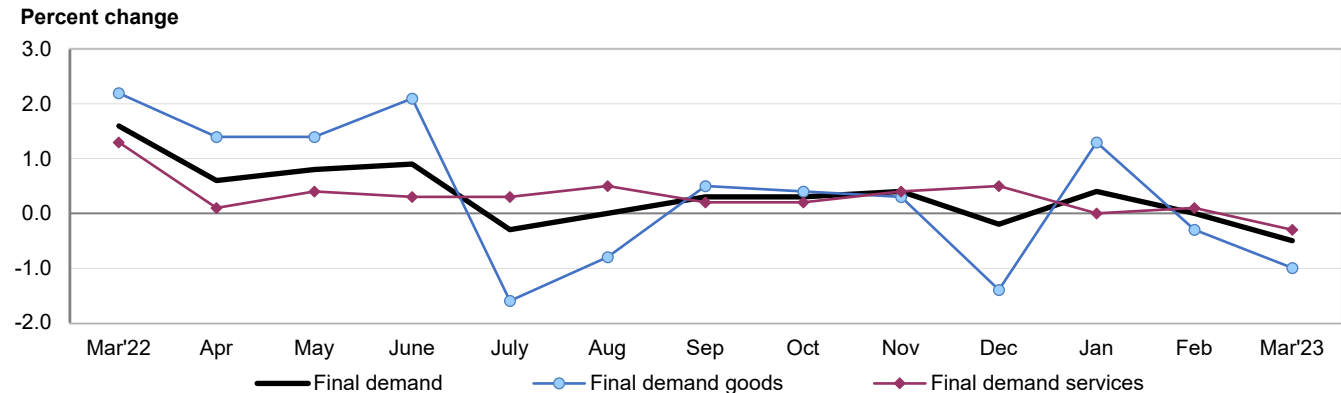
### PRODUCER PRICE INDEXES – MARCH 2023

The Producer Price Index for final demand declined 0.5 percent in March, seasonally adjusted, the U.S. Bureau of Labor Statistics reported today. Final demand prices were unchanged in February and increased 0.4 percent in January. (See table A.) On an unadjusted basis, the index for final demand advanced 2.7 percent for the 12 months ended in March.

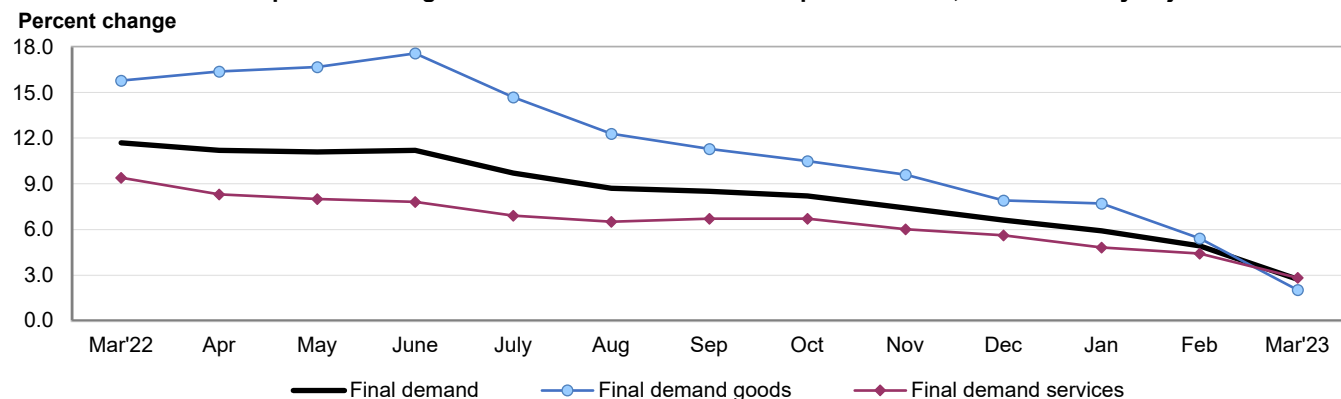
In March, two-thirds of the decline in the index for final demand can be attributed to a 1.0-percent decrease in prices for final demand goods. The index for final demand services moved down 0.3 percent.

Prices for final demand less foods, energy, and trade services edged up 0.1 percent in March after rising 0.2 percent in February. For the 12 months ended in March, the index for final demand less foods, energy, and trade services increased 3.6 percent.

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



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



## Final Demand

**Final demand goods:** Prices for final demand goods decreased 1.0 percent in March after falling 0.3 percent in February. The March decline is attributable to the index for final demand energy, which dropped 6.4 percent. In contrast, prices for final demand goods less foods and energy and for final demand foods advanced 0.3 percent and 0.6 percent, respectively.

*Product detail:* Eighty percent of the March decline in the index for final demand goods can be traced to an 11.7-percent drop in prices for gasoline. The indexes for diesel fuel, residential natural gas, jet fuel, electric power, and fresh and dry vegetables also fell. Conversely, prices for light motor trucks increased 0.7 percent. The indexes for chicken eggs and for meats also moved higher. (See table 2.)

**Final demand services:** Prices for final demand services moved down 0.3 percent in March, the largest decline since falling 0.5 percent in April 2020. Leading the March decrease, margins for final demand trade services dropped 0.9 percent. (Trade indexes measure changes in margins received by wholesalers and retailers.) The index for final demand transportation and warehousing services fell 1.3 percent. In contrast, prices for final demand services less trade, transportation, and warehousing edged up 0.1 percent.

*Product detail:* A 7.3-percent drop in margins for machinery and vehicle wholesaling was a major factor in the March decrease in prices for final demand services. The indexes for truck transportation of freight, portfolio management, fuels and lubricants retailing, loan services (partial), and automobiles and automobile parts retailing also moved down. Conversely, prices for guestroom rental rose 4.6 percent. The indexes for food retailing and for transportation of passengers (partial) also advanced.

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

Month	Total final demand	Final demand less foods, energy, and trade	Final demand goods				Final demand services				Change in final demand from 12 months ago (unadj.)	Change in final demand less foods, energy, and trade from 12 mo. ago (unadj.)
			Total	Foods	Energy	Less foods and energy	Total	Trade	Transportation and warehousing	Other		
<b>2022</b>												
Mar....	1.6	0.9	2.2	2.3	5.7	1.0	1.3	2.3	5.7	0.3	11.7	7.1
Apr....	0.6	0.5	1.4	1.6	1.9	1.2	0.1	0.2	2.0	-0.2	11.2	6.8
May. . .	0.8	0.5	1.4	0.7	4.0	0.7	0.4	0.6	2.5	0.1	11.1	6.8
June...	0.9	0.3	2.1	-0.1	8.4	0.5	0.3	0.5	0.8	0.1	11.2	6.4
July....	-0.3	0.2	-1.6	1.3	-8.3	0.2	0.3	0.8	-0.3	0.1	9.7	5.8
Aug....	0.0	0.2	-0.8	-0.2	-4.4	0.2	0.5	1.0	-1.1	0.4	8.7	5.6
Sept...	0.3	0.3	0.5	1.5	1.0	0.0	0.2	-0.3	-0.2	0.5	8.5	5.6
Oct....	0.3	0.2	0.4	0.7	1.5	0.0	0.2	0.2	0.0	0.2	8.2	5.5
Nov. <sup>1</sup> ..	0.4	0.4	0.3	3.3	-2.3	0.3	0.4	0.5	-0.4	0.5	7.4	4.9
Dec. <sup>1</sup> ..	-0.2	0.2	-1.4	-0.9	-6.3	0.1	0.5	1.0	0.0	0.3	6.6	4.7
<b>2023</b>												
Jan. <sup>1</sup> ..	0.4	0.6	1.3	-1.3	5.5	0.6	0.0	-1.1	-0.5	0.6	5.9	4.5
Feb. <sup>1</sup> ..	0.0	0.2	-0.3	-2.2	-0.3	0.3	0.1	0.0	-0.9	0.3	4.9	4.5
Mar....	-0.5	0.1	-1.0	0.6	-6.4	0.3	-0.3	-0.9	-1.3	0.1	2.7	3.6

<sup>1</sup> Some of the figures shown above and elsewhere in this release may differ from those previously reported because data for November 2022 through February 2023 have been revised to reflect the availability of late reports and corrections by respondents.

## Intermediate Demand by Commodity Type

Within intermediate demand in March, prices for processed goods declined 1.0 percent, the index for unprocessed goods fell 5.0 percent, and prices for services decreased 0.5 percent. (See tables B and C.)

**Processed goods for intermediate demand:** The index for processed goods for intermediate demand declined 1.0 percent in March after moving down 0.4 percent in February. A major factor in the March decrease was a 5.1-percent drop in prices for processed energy goods. The index for processed foods and feeds edged down 0.1 percent. In contrast, prices for processed materials less foods and energy advanced 0.1 percent. For the 12 months ended in March, the index for processed goods for intermediate demand moved down 1.0 percent, the largest 12-month decrease since a 1.6-percent decline in September 2020.

*Product detail:* One-third of the March decrease in prices for processed goods for intermediate demand can be traced to a 6.5-percent decline in the index for diesel fuel. Prices for gasoline, utility natural gas, electric power, ethanol, and formula feeds also moved lower. Conversely, the index for primary basic organic chemicals rose 5.6 percent. Prices for structural, architectural, and pre-engineered metal products and for meats also increased.

**Unprocessed goods for intermediate demand:** The index for unprocessed goods for intermediate demand moved down 5.0 percent in March, the largest decline since falling 9.7 percent in October 2022. The broad-based decrease in March was led by prices for unprocessed energy goods, which dropped 11.9 percent. The indexes for unprocessed foodstuffs and feedstuffs and for unprocessed nonfood materials less energy also moved lower, 1.3 percent and 0.3 percent, respectively. For the 12 months ended in March, prices for unprocessed goods for intermediate demand declined 17.0 percent, the largest 12-month decrease since a 20.1-percent drop in May 2020.

*Product detail:* Half of the March decline in the index for unprocessed goods for intermediate demand is due to a 10.2-percent decrease in prices for crude petroleum. The indexes for natural gas; corn; raw milk; hay, hayseeds, and oilseeds; and raw cotton also fell. In contrast, prices for ungraded chicken eggs jumped 44.1 percent. The indexes for nonferrous metal ores and for coal also moved higher.

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

Month	Processed goods for intermediate demand					Unprocessed goods for intermediate demand				
	Total	Foods and feeds	Energy goods	Less foods and energy	Total, change from 12 months ago (unadj.)	Total	Food-stuffs and feed-stuffs	Energy materials	Nonfood materials less energy	Total, change from 12 months ago (unadj.)
<b>2022</b>										
Mar.....	2.1	2.0	6.6	0.9	22.1	2.4	7.3	-4.3	8.4	43.3
Apr.....	2.0	3.2	4.2	1.2	22.0	5.8	3.8	9.3	2.8	50.1
May.....	2.2	1.2	4.4	1.7	21.6	5.4	0.3	14.6	-4.2	46.4
June.....	1.9	0.1	8.4	0.1	21.9	4.8	-0.7	11.1	-1.8	50.3
July.....	-2.1	0.5	-8.0	-0.4	17.2	-8.8	-1.1	-14.2	-5.9	32.5
Aug.....	-1.2	-0.2	-3.7	-0.6	14.3	4.8	-0.9	10.9	0.5	36.9
Sept.....	-0.1	-0.1	2.0	-0.8	12.9	-3.1	1.3	-6.6	-0.6	29.2
Oct.....	-0.2	-0.2	1.5	-0.8	10.1	-9.7	-0.7	-18.1	-4.1	9.3
Nov. <sup>1</sup> .....	-0.5	0.8	-1.9	-0.2	7.6	-3.1	0.0	-6.7	-0.7	3.5
Dec. <sup>1</sup> .....	-2.5	-0.6	-9.8	-0.4	4.9	1.5	-0.2	5.0	-1.7	10.6
<b>2023</b>										
Jan. <sup>1</sup> .....	1.1	0.2	5.3	0.1	3.9	-4.7	-5.6	-7.4	1.5	2.7
Feb. <sup>1</sup> .....	-0.4	-2.0	-1.4	0.1	2.1	-4.8	-1.0	-11.0	0.5	-10.4
Mar.....	-1.0	-0.1	-5.1	0.1	-1.0	-5.0	-1.3	-11.9	-0.3	-17.0

<sup>1</sup> Some of the figures shown above and elsewhere in this release may differ from those previously reported because data for November 2022 through February 2023 have been revised to reflect the availability of late reports and corrections by respondents.

**Services for intermediate demand:** The index for services for intermediate demand moved down 0.5 percent in March following a 0.3-percent increase in February. Over half of the broad-based decline can be attributed to a 0.5-percent decrease in prices for services less trade, transportation, and warehousing for intermediate demand. The index for transportation and warehousing services for intermediate demand fell 0.9 percent. Margins for trade services for intermediate demand declined 0.5 percent. For the 12 months ended in March, the index for services for intermediate demand increased 4.2 percent.

*Product detail:* Nearly 60 percent of the March decline in the index for services for intermediate demand can be attributed to a 5.4-percent decrease in prices for loan services (partial). The indexes for portfolio management, truck transportation of freight, gross rents for retail properties, arrangement of freight and cargo transportation, and fuels and lubricants retailing also moved lower. Conversely, margins for food wholesaling increased 1.8 percent. The indexes for deposit services (partial) and for transportation of passengers (partial) also advanced.

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

Month	Services for intermediate demand				Total, change from 12 months ago (unadj.)
	Total	Trade	Transportation and warehousing	Other	
<b>2022</b>					
Mar.....	1.2	4.2	2.0	0.0	8.4
Apr.....	0.8	1.0	1.7	0.6	8.0
May.....	0.6	0.8	0.5	0.5	7.9
June.....	-0.3	-0.5	0.1	-0.3	6.3
July.....	0.3	0.2	1.1	0.1	5.9
Aug.....	0.6	-0.9	-0.3	1.3	6.0
Sept.....	0.5	0.1	-0.4	0.8	6.2
Oct.....	0.4	0.0	0.6	0.5	6.7
Nov. <sup>1</sup> .....	0.8	0.9	-1.3	1.2	6.9
Dec. <sup>1</sup> .....	0.0	-1.2	0.0	0.4	6.0
<b>2023</b>					
Jan. <sup>1</sup> .....	0.9	0.6	0.3	1.1	6.3
Feb. <sup>1</sup> .....	0.3	-0.4	-0.2	0.6	6.1
Mar.....	-0.5	-0.5	-0.9	-0.5	4.2

<sup>1</sup> Some of the figures shown above and elsewhere in this release may differ from those previously reported because data for November 2022 through February 2023 have been revised to reflect the availability of late reports and corrections by respondents.

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

**Stage 4 intermediate demand:** The index for stage 4 intermediate demand moved down 0.5 percent in March following no change in February. In March, prices for both total services inputs and for total goods inputs to stage 4 intermediate demand declined 0.5 percent. (See table D.) Decreases in the indexes for loan services (partial), portfolio management, electric power, gross rents for retail properties, corn, and diesel fuel outweighed increases in the indexes for food wholesaling, motor vehicles and equipment, and investment banking. For the 12 months ended in March, prices for stage 4 intermediate demand moved up 3.2 percent.

**Stage 3 intermediate demand:** The index for stage 3 intermediate demand decreased 1.0 percent in March after declining 0.2 percent in February. In March, prices for total goods inputs to stage 3 intermediate demand fell 1.3 percent, and the index for total services inputs moved down 0.7 percent. Lower prices for raw milk, diesel fuel, loan services (partial), corn, jet fuel, and arrangement of freight and cargo transportation outweighed increases in the indexes for ungraded chicken eggs, slaughter cattle, and temporary help services. For the 12 months ended in March, prices for stage 3 intermediate demand decreased 1.7 percent, the largest 12-month decline since falling 2.4 percent in September 2020.

**Stage 2 intermediate demand:** Prices for stage 2 intermediate demand fell 2.7 percent in March, the largest decline since moving down 4.7 percent in October 2022. In March, the index for total goods inputs to stage 2 intermediate demand dropped 5.2 percent, and prices for total services inputs declined 0.8 percent. Decreases in the indexes for crude petroleum; gas fuels; loan services (partial); fuels and lubricants retailing; hay, hayseeds, and oilseeds; and ethanol outweighed advances in the indexes for carbon steel scrap, deposit services (partial), and food wholesaling. For the 12 months ended in March, prices for stage 2 intermediate demand moved down 4.0 percent, the largest 12-month decline since a 5.3-percent drop in July 2020.

**Stage 1 intermediate demand:** Prices for stage 1 intermediate demand decreased 0.7 percent in March after falling 0.4 percent in February. In March, the index for total goods inputs to stage 1 intermediate demand moved down 1.2 percent, and prices for total services inputs fell 0.2 percent. Declining prices for diesel fuel, corn, utility natural gas, ethanol, portfolio management, and truck transportation of freight outweighed increases in the indexes for guestroom rental, primary basic organic chemicals, and investment banking. For the 12 months ended in March, prices for stage 1 intermediate demand advanced 0.4 percent.

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

Month	Stage 4 intermediate demand			Stage 3 intermediate demand			Stage 2 intermediate demand			Stage 1 intermediate demand		
	Total	Goods inputs	Ser-vices inputs	Total	Goods inputs	Ser-vices inputs	Total	Goods inputs	Ser-vices inputs	Total	Goods inputs	Ser-vices inputs
<b>2022</b>												
Mar.....	1.1	1.4	0.8	3.0	4.4	1.5	0.6	0.0	1.3	2.6	3.1	2.0
Apr.....	1.0	1.2	0.7	2.3	3.3	1.3	2.9	5.1	0.7	1.6	2.4	0.8
May.....	0.9	1.4	0.5	1.7	2.5	0.7	3.6	6.6	0.3	1.5	2.1	0.8
June.....	0.3	1.0	-0.3	0.5	1.4	-0.5	2.9	5.3	0.1	1.0	2.4	-0.6
July.....	-0.4	-0.8	0.0	-1.2	-2.6	0.4	-4.1	-8.2	0.9	-1.6	-2.8	-0.3
Aug.....	0.3	0.0	0.6	-1.3	-2.6	0.1	3.0	4.8	1.2	-0.4	-1.2	0.5
Sept.....	0.4	0.1	0.7	0.0	-0.1	0.1	-1.9	-4.0	0.3	0.3	0.3	0.2
Oct.....	0.1	-0.1	0.2	-0.1	-0.6	0.5	-4.7	-9.8	0.8	0.1	-0.2	0.4
Nov. <sup>1</sup> .....	0.4	-0.2	1.0	-0.4	-1.1	0.3	-1.0	-2.9	0.8	0.1	-0.6	0.9
Dec. <sup>1</sup> .....	-0.4	-0.7	0.0	-2.0	-3.8	0.0	1.0	1.6	0.6	-1.8	-3.0	-0.4
<b>2023</b>												
Jan. <sup>1</sup> .....	1.0	0.8	1.2	0.2	-0.4	0.8	-1.1	-3.2	0.8	0.8	0.9	0.7
Feb. <sup>1</sup> .....	0.0	-0.1	0.1	-0.2	-0.6	0.1	-1.4	-4.7	1.3	-0.4	-0.6	-0.2
Mar.....	-0.5	-0.5	-0.5	-1.0	-1.3	-0.7	-2.7	-5.2	-0.8	-0.7	-1.2	-0.2

<sup>1</sup> Some of the figures shown above and elsewhere in this release may differ from those previously reported because data for November 2022 through February 2023 have been revised to reflect the availability of late reports and corrections by respondents.

**The Producer Price Index for April 2023 is scheduled to be released on Thursday, May 11, 2023, at 8:30 a.m. (ET).**

# Technical Note

## Brief Explanation of Producer Price Indexes

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

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

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

### Final Demand–Intermediate Demand Indexes

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

## Comparing the PPI with CPI

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

## Commodity Indexes

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

## Industry Net-Output Price Indexes

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

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

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

## Data Collection

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

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

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

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

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

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



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

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

## Weights

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

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

## Price Index Reference Base

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

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

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

## Calculating Index Changes

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

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

### *Index point change*

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

### *Index percent change*

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

## Seasonally Adjusted and Unadjusted Data

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

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

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

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

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

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

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

## Producer Price Index Data on the Internet

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

## Retrieving PPI data from the PPI Web site

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

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

### EXAMPLES

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

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

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

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

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

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

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

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

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

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

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

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

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

### Additional information

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

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

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

Grouping	Commodity code		Relative Importance Dec. 2022 <sup>1</sup>	Unadjusted 12-month percent change <sup>2</sup> Mar. 2022 to Mar. 2023 <sup>P</sup>	Seasonally adjusted 1-month percent change <sup>2</sup>				
	Group code	Item code			Oct. to Nov.	Nov. to Dec. <sup>P</sup>	Dec. to Jan. <sup>P</sup>	Jan. to Feb. <sup>P</sup>	Feb. to Mar. <sup>P</sup>
<b>Final Demand</b>									
Final demand.....	FD	4	100.000	2.7	0.4	-0.2	0.4	0.0	-0.5
Final demand goods.....	FD	41	30.721	2.0	0.3	-1.4	1.3	-0.3	-1.0
Final demand foods.....	FD	411	5.953	5.1	3.3	-0.9	-1.3	-2.2	0.6
Finished consumer foods <sup>3</sup> .....	FD	4111	4.521	6.7	3.7	-0.8	-1.2	-2.6	1.1
Finished consumer foods, crude.....	FD	41113	0.606	9.7	21.7	-0.9	-16.6	-18.7	6.4
Finished consumer foods, processed.....	FD	41112	3.915	5.8	1.1	-0.8	1.1	-0.5	0.6
Government purchased foods.....	FD	4112	0.408	3.4	1.1	-0.2	0.0	-1.4	0.4
Foods for export.....	FD	4113	1.024	-2.0	2.2	-1.4	-1.9	-1.2	-1.6
Final demand energy.....	FD	412	5.845	-7.2	-2.3	-6.3	5.5	-0.3	-6.4
Finished consumer energy goods <sup>3</sup> .....	FD	4121	4.458	-6.4	-2.5	-4.5	5.5	0.3	-6.6
Government purchased energy.....	FD	4122	0.933	-8.1	-2.0	-12.7	7.3	-2.3	-6.2
Energy for export.....	FD	4123	0.454	-12.1	-1.4	-11.9	1.8	-3.2	-5.3
Final demand goods less foods and energy.....	FD	413	18.922	4.3	0.3	0.1	0.6	0.3	0.3
Finished goods less foods and energy <sup>3</sup> .....	FD	4131	10.796	6.4	0.5	0.2	0.7	0.3	0.4
Finished consumer goods less foods and energy.....	FD	41311	5.749	6.1	0.6	0.1	0.7	0.4	0.3
Nondurable consumer goods less foods and energy.....	FD	413111	3.454	7.1	0.7	0.1	0.8	0.7	0.3
Durable consumer goods.....	FD	413112	2.295	4.6	0.4	0.3	0.5	0.1	0.2
Private capital equipment.....	FD	41312	5.047	6.8	0.4	0.3	0.7	0.2	0.5
Private capital equipment for manufacturing industries.....	FD	413121	1.225	7.9	0.5	0.3	0.9	0.3	0.5
Private capital equipment for nonmanufacturing industries.....	FD	413122	3.822	6.4	0.3	0.3	0.7	0.2	0.5
Government purchased goods, excluding foods and energy.....	FD	4132	1.972	3.7	0.1	0.2	0.3	0.0	0.2
Government purchased goods excluding foods, energy, and capital equipment.....	FD	41321	1.163	4.4	0.0	0.1	0.4	-0.1	0.2
Government purchased capital equipment.....	FD	41322	0.809	2.8	0.2	0.2	0.1	0.2	0.2
Goods for export, excluding foods and energy.....	FD	4133	6.154	0.8	0.0	-0.2	0.5	0.3	0.2
Final demand services.....	FD	42	66.603	2.8	0.4	0.5	0.0	0.1	-0.3
Final demand trade services <sup>4</sup> .....	FD	423	19.642	2.4	0.5	1.0	-1.1	0.0	-0.9
Trade of finished goods <sup>3</sup> .....	FD	4231	16.988	2.5	0.3	1.0	-1.2	0.1	-0.7
Trade of personal consumption goods.....	FD	42311	13.855	3.1	-0.2	0.6	-1.0	0.4	-0.4
Trade of private capital equipment.....	FD	42312	3.133	-0.5	2.6	3.0	-2.2	-1.3	-2.4
Trade of government purchased goods.....	FD	4232	0.746	2.5	2.1	1.4	-1.4	-0.3	-2.0
Trade of government purchased goods, excluding capital equipment.....	FD	42321	0.463	3.9	1.1	-0.9	-0.8	0.3	-0.3
Trade of government purchased capital equipment.....	FD	42322	0.283	0.0	3.7	5.2	-2.4	-1.4	-4.8
Trade of exports.....	FD	4233	1.908	2.2	1.8	0.8	-0.1	-0.8	-1.5
Final demand transportation and warehousing services.....	FD	422	5.218	0.5	-0.4	0.0	-0.5	-0.9	-1.3
Transportation of passengers for final demand.....	FD	4221	1.282	11.7	-3.6	3.2	2.4	-1.5	1.3
Transportation of private passengers.....	FD	42211	0.865	11.7	-3.6	3.2	2.4	-1.5	1.3
Transportation of government passengers.....	FD	42212	0.103	11.6	-3.5	3.2	2.4	-1.5	1.3
Transportation of passengers for export.....	FD	42213	0.314	11.8	-3.6	3.2	2.5	-1.5	1.3
Transportation and warehousing of goods for final demand.....	FD	4222	3.936	-3.1	0.7	-1.1	-1.4	-0.7	-2.2
Transportation and warehousing of finished goods <sup>3</sup> .....	FD	42221	2.565	-3.8	0.7	-1.2	-1.6	-0.8	-2.4
Transportation and warehousing of personal consumption goods.....	FD	422211	2.062	-3.6	0.7	-1.2	-1.5	-0.8	-2.3
Transportation and warehousing of private capital equipment.....	FD	422212	0.503	-4.7	0.8	-1.2	-1.9	-0.9	-2.6
Transportation and warehousing of government purchased goods.....	FD	42222	0.233	-0.8	0.6	-0.9	-0.9	-0.5	-1.9
Transportation and warehousing of exports.....	FD	42223	1.138	-1.9	0.7	-1.1	-1.1	-0.6	-2.0
Final demand services less trade, transportation, and warehousing.....	FD	421	41.742	3.1	0.5	0.3	0.6	0.3	0.1
Finished services less trade, transportation, and warehousing <sup>3</sup> .....	FD	4211	36.483	3.0	0.5	0.3	0.6	0.3	0.2
Finished consumer services less trade, transportation, and warehousing.....	FD	42111	32.129	3.0	0.5	0.3	0.6	0.3	0.2
Private capital investment services less trade, transportation, and warehousing.....	FD	42112	4.354	3.0	-0.1	0.2	0.3	-0.1	-0.1
Government purchased services less trade, transportation, and warehousing.....	FD	4212	2.674	2.2	0.3	0.2	0.8	0.2	-0.1
Gov. purchased services less trade, transportation, and warehousing, excl. capital investment.....	FD	42121	2.515	2.3	0.4	0.2	0.8	0.1	-0.1
Government purchased capital investment services less trade, transportation, and warehousing.....	FD	42122	0.159	1.4	-1.0	0.3	1.3	0.5	0.0
Services for export less trade, transportation, and warehousing.....	FD	4213	2.585	6.3	1.4	0.5	1.7	1.4	-0.6
Final demand construction.....	FD	43	2.676	15.6	0.1	0.0	1.8	0.0	0.2
Construction for private capital investment.....	FD	431	1.861	16.5	0.1	0.1	1.9	0.0	0.2
Construction for government.....	FD	432	0.815	14.0	0.0	0.0	1.8	0.1	0.3
<b>Special Groupings of Final Demand</b>									
Final demand less exports.....	FD	49101	86.423	3.0	0.3	-0.1	0.4	0.0	-0.5
Final demand less government.....	FD	49102	92.116	2.8	0.4	0.0	0.4	0.0	-0.5

See footnotes at end of table.

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

Grouping	Commodity code		Relative Importance Dec. 2022 <sup>1</sup>	Unadjusted 12-month percent change <sup>2</sup> Mar. 2022 to Mar. 2023 <sup>P</sup>	Seasonally adjusted 1-month percent change <sup>2</sup>				
	Group code	Item code			Oct. to Nov.	Nov. to Dec. <sup>P</sup>	Dec. to Jan. <sup>P</sup>	Jan. to Feb. <sup>P</sup>	Feb. to Mar. <sup>P</sup>
Final demand less foods, food and nonalcoholic beverages for immediate consumption, and energy <sup>5</sup> .....	FD	49103	87.788	3.4	0.4	0.4	0.2	0.2	-0.1
Final demand less foods and energy <sup>5</sup> .....	FD	49104	88.202	3.4	0.4	0.4	0.2	0.2	-0.1
Final demand less foods and food and nonalcoholic beverages for immediate consumption <sup>5</sup> .....	FD	49105	93.633	2.6	0.2	-0.1	0.5	0.1	-0.6
Final demand less foods <sup>5</sup> .....	FD	49106	94.047	2.6	0.2	-0.1	0.5	0.1	-0.6
Final demand less energy.....	FD	49107	94.155	3.5	0.6	0.3	0.1	0.0	-0.1
Final demand less trade services.....	FD	49108	80.358	2.8	0.3	-0.5	0.8	0.0	-0.4
Final demand less distributive services <sup>6</sup> .....	FD	49109	76.422	3.1	0.3	-0.4	0.9	0.0	-0.3
Final demand goods less energy.....	FD	49111	24.875	4.4	1.0	-0.1	0.2	-0.3	0.4
Final demand goods less foods.....	FD	49112	24.767	1.5	-0.4	-1.5	1.9	0.1	-1.4
Final demand services less trade services.....	FD	49113	46.960	2.8	0.4	0.2	0.5	0.2	0.0
Final demand distributive services <sup>6</sup> .....	FD	49114	23.578	1.6	0.5	0.7	-1.2	-0.1	-1.1
Final demand goods plus final demand distributive services <sup>6</sup> .....	FD	49115	54.298	1.8	0.4	-0.5	0.2	-0.2	-1.1
Final demand less foods, energy, and trade services <sup>5</sup> .....	FD	49116	68.560	3.6	0.4	0.2	0.6	0.2	0.1
Private and government purchased capital equipment.....	FD	49117	5.856	6.2	0.4	0.3	0.7	0.2	0.4
Private and government purchased capital investment services.....	FD	49118	8.432	1.4	1.2	1.5	-0.8	-0.6	-1.2
Total private and government purchased capital investment.....	FD	49119	14.288	4.8	0.7	0.9	0.1	-0.2	-0.4
Total finished <sup>3</sup> .....	FD	49201	78.537	3.0	0.4	0.0	0.3	0.0	-0.4
Total finished less foods, food and nonalcoholic beverages for immediate consumption, and energy <sup>3, 5</sup> .....	FD	49202	69.149	3.6	0.4	0.5	0.1	0.2	-0.1
Total finished less foods and energy <sup>3, 5</sup> .....	FD	49203	69.558	3.6	0.4	0.4	0.1	0.2	-0.1
Total finished less foods and food and nonalcoholic beverages for immediate consumption <sup>3, 5</sup> .....	FD	49204	73.607	2.8	0.2	0.1	0.4	0.2	-0.5
Total finished less foods <sup>3, 5</sup> .....	FD	49205	74.016	2.8	0.2	0.1	0.4	0.2	-0.5
Total finished less energy <sup>3</sup> .....	FD	49206	74.079	3.8	0.6	0.4	0.0	0.0	0.0
Finished goods <sup>3</sup> .....	FD	49207	19.775	3.2	0.4	-1.1	1.5	-0.3	-1.2
Finished goods less energy <sup>3</sup> .....	FD	49208	15.317	6.4	1.4	-0.1	0.1	-0.5	0.6
Finished goods, excluding foods <sup>3, 5</sup> .....	FD	49209	15.254	2.4	-0.4	-1.2	2.3	0.3	-1.8
Finished services <sup>3</sup> .....	FD	49210	56.901	2.7	0.4	0.5	0.0	0.1	-0.2
Private capital investment services.....	FD	49211	7.990	1.3	1.1	1.4	-0.8	-0.6	-1.1
Finished distributive services <sup>3, 6</sup> .....	FD	49212	19.553	1.7	0.3	0.8	-1.3	0.0	-1.0
Finished services less trade services <sup>3</sup> .....	FD	49213	39.913	2.7	0.4	0.3	0.5	0.2	0.1
Finished services less distributive services <sup>3, 6</sup> .....	FD	49214	37.348	3.2	0.4	0.3	0.6	0.2	0.2
Total private capital investment (goods, services, and construction).....	FD	49215	14.898	4.7	0.7	0.8	0.0	-0.2	-0.4
Finished goods plus finished distributive services <sup>3, 6</sup> .....	FD	49216	39.328	2.4	0.4	-0.2	0.1	-0.2	-1.1
Total exports.....	FD	49301	13.577	1.3	0.6	-0.4	0.4	0.0	-0.7
Goods for export.....	FD	49302	7.632	-0.3	0.2	-1.0	0.3	-0.1	-0.4
Services for export.....	FD	49303	5.945	3.8	1.2	0.5	0.6	0.2	-1.0
Total government purchases.....	FD	49401	7.884	2.4	0.1	-1.5	1.3	-0.4	-0.9
Government purchased goods.....	FD	49402	3.313	0.3	-0.4	-3.6	2.3	-0.9	-1.7
Government purchased services.....	FD	49403	3.756	2.5	0.6	0.5	0.3	0.0	-0.5
Total government purchased capital investment (goods, services, construction).....	FD	49404	2.066	6.2	0.6	0.9	0.5	-0.1	-0.4
Government purchases, defense.....	FD	49405	2.342	0.7	0.1	-1.7	1.3	-0.3	-1.0
Government purchases, non-defense.....	FD	49406	5.542	3.1	0.0	-1.5	1.2	-0.4	-0.9
Personal consumption.....	FD	49501	63.639	2.7	0.3	-0.1	0.4	0.1	-0.4
Personal consumption goods (finished consumer goods).....	FD	49502	14.728	2.0	0.5	-1.6	1.7	-0.5	-1.8
Personal consumption goods less energy.....	FD	49503	10.270	6.3	1.9	-0.3	-0.2	-0.9	0.6
Personal consumption goods less foods.....	FD	49504	10.207	0.3	-0.8	-2.0	3.0	0.4	-2.9
Personal consumption nondurable goods less foods.....	FD	49508	7.912	-0.7	-1.1	-2.5	3.7	0.5	-3.8
Personal consumption services.....	FD	49505	48.911	2.9	0.2	0.4	0.1	0.3	0.0
Personal consumption less trade services.....	FD	49506	49.784	2.5	0.4	-0.4	0.8	0.0	-0.4
Personal consumption less distributive services <sup>6</sup> .....	FD	49507	47.722	2.8	0.4	-0.3	0.9	0.0	-0.4
Personal consumption less foods and energy.....	FD	49510	54.660	3.3	0.3	0.3	0.2	0.3	0.0
Personal consumption less foods, energy, and trade services <sup>4</sup> .....	FD	49511	40.805	3.3	0.5	0.3	0.5	0.2	0.1
Personal consumption less foods, energy, and distributive services <sup>6</sup> .....	FD	49512	38.743	3.7	0.4	0.3	0.6	0.3	0.3
Personal consumption goods plus personal consumption distributive services <sup>6</sup> .....	FD	49509	30.645	2.1	0.2	-0.6	0.2	-0.1	-1.2
<b>Intermediate Demand by Commodity Type</b>									
<b>Processed goods</b>									
Processed goods for intermediate demand.....	ID6	1	100.000	-1.0	-0.5	-2.5	1.1	-0.4	-1.0
Materials and components for manufacturing.....	ID6	11	42.988	-2.4	-0.3	-0.6	-0.1	-0.2	0.0
Materials for manufacturing.....	ID6	111	27.087	-6.1	-0.5	-1.0	-0.4	-0.5	-0.1
Materials for food manufacturing.....	ID6	1111	4.441	2.2	0.9	-0.6	0.1	-2.3	0.1
Materials for nondurable manufacturing.....	ID6	1112	12.298	-5.3	-0.8	-0.9	-0.3	-1.3	-0.2
Materials for durable manufacturing.....	ID6	1113	10.348	-9.7	-0.7	-1.4	-0.8	1.3	0.0
Components for manufacturing.....	ID6	112	15.901	4.6	0.2	0.1	0.5	0.3	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**  
[March 2023]

Grouping	Commodity code		Relative Importance Dec. 2022 <sup>1</sup>	Unadjusted 12-month percent change <sup>2</sup> Mar. 2022 to Mar. 2023 <sup>P</sup>	Seasonally adjusted 1-month percent change <sup>2</sup>				
	Group code	Item code			Oct. to Nov.	Nov. to Dec. <sup>P</sup>	Dec. to Jan. <sup>P</sup>	Jan. to Feb. <sup>P</sup>	Feb. to Mar. <sup>P</sup>
Components for nondurable manufacturing.....	ID6	1121	0.796	2.7	0.2	-0.2	-0.3	0.0	-0.4
Components for durable manufacturing.....	ID6	1122	15.105	4.7	0.2	0.1	0.6	0.3	0.3
Materials and components for construction.....	ID6	12	10.365	1.4	-0.3	-0.3	0.0	0.1	0.5
Materials for construction.....	ID6	121	4.589	-3.3	-0.1	-0.7	-0.5	0.2	0.2
Components for construction.....	ID6	122	5.776	5.1	-0.4	0.0	0.4	-0.1	0.7
Processed fuels and lubricants for intermediate demand.....	ID6	13	19.623	-5.7	-1.9	-9.8	5.3	-1.4	-5.1
Processed fuels and lubricants to manufacturing industries.....	ID6	131	4.883	-2.0	-1.7	-5.6	2.9	-4.3	-2.8
Processed fuels and lubricants to nonmanufacturing industries.....	ID6	132	14.740	-7.0	-1.9	-11.2	6.2	-0.5	-5.8
Containers for intermediate demand.....	ID6	14	3.112	6.3	0.2	0.0	-0.2	-0.1	-0.6
Supplies for intermediate demand.....	ID6	15	23.911	4.2	0.2	-0.1	0.4	-0.3	0.1
Supplies to manufacturing industries.....	ID6	151	3.184	2.7	-0.2	0.0	-0.2	-0.1	-0.1
Supplies to nonmanufacturing industries.....	ID6	152	20.727	4.5	0.3	-0.1	0.5	-0.3	0.1
Supplies to nonmanufacturing industries, feeds.....	ID6	1521	2.361	2.2	0.3	-0.5	-0.5	-2.2	-1.3
Supplies to nonmanufacturing industries, other than feeds.....	ID6	1522	18.366	4.7	0.3	0.0	0.6	0.0	0.3
<b>Unprocessed goods</b>									
Unprocessed goods for intermediate demand.....	ID6	2	100.000	-17.0	-3.1	1.5	-4.7	-4.8	-5.0
Unprocessed foodstuffs and feedstuffs.....	ID6	21	35.620	-6.2	0.0	-0.2	-5.6	-1.0	-1.3
Unprocessed nonfood materials.....	ID6	22	64.381	-22.5	-4.6	2.4	-4.2	-6.8	-7.1
Unprocessed nonfood materials except fuel.....	ID6	221	45.037	-22.1	-1.6	-7.2	0.3	2.2	-5.0
Unprocessed nonfood materials except fuel to manufacturing industries.....	ID6	2211	43.152	-23.3	-1.6	-7.6	0.1	2.3	-5.2
Unprocessed nonfood materials except fuel to nonmanufacturing industries.....	ID6	2212	1.885	11.7	0.2	0.6	3.4	0.5	0.0
Unprocessed fuel.....	ID6	222	19.344	-37.7	-10.5	22.5	-14.8	-31.6	-15.9
Unprocessed fuel to manufacturing industries.....	ID6	2221	1.007	0.5	-4.5	0.2	-3.8	-10.9	-3.1
Unprocessed fuel to nonmanufacturing industries.....	ID6	2222	18.337	-39.9	-10.9	24.2	-15.4	-32.9	-17.0
<b>Services</b>									
Services for intermediate demand.....	ID6	3	100.000	4.2	0.8	0.0	0.9	0.3	-0.5
Trade services for intermediate demand <sup>4</sup> .....	ID6	33	18.467	-0.2	0.9	-1.2	0.6	-0.4	-0.5
Trade services for manufacturing industries.....	ID6	331	9.100	2.3	0.8	-1.3	1.9	-0.5	-0.2
Trade services for nonmanufacturing industries.....	ID6	332	9.367	-2.7	1.0	-1.1	-0.7	-0.3	-0.9
Transportation and warehousing services for intermediate demand.....	ID6	32	14.424	1.2	-1.3	0.0	0.3	-0.2	-0.9
Transportation of passengers for intermediate demand.....	ID6	321	1.070	11.6	-3.5	3.2	2.4	-1.5	1.3
Transportation of passengers for manufacturing industries.....	ID6	3211	0.127	11.8	-3.6	3.2	2.5	-1.5	1.3
Transportation of passengers for nonmanufacturing industries.....	ID6	3212	0.943	11.5	-3.5	3.2	2.4	-1.5	1.3
Transportation and warehousing of goods for intermediate demand.....	ID6	322	13.354	0.4	-1.1	-0.2	0.1	-0.1	-1.1
Transportation and warehousing of goods for manufacturing industries.....	ID6	3221	2.932	0.7	0.5	-0.9	-1.0	-0.4	-1.5
Transportation and warehousing of goods for nonmanufacturing industries.....	ID6	3222	10.422	0.3	-1.5	-0.1	0.4	0.0	-1.0
Services less trade, transportation, and warehousing for intermediate demand.....	ID6	31	67.109	6.4	1.2	0.4	1.1	0.6	-0.5
Services less trade, transportation, and warehousing for manufacturing industries.....	ID6	311	2.057	4.7	0.2	0.2	1.2	0.3	0.2
Services less trade, transportation, and warehousing for nonmanufacturing industries.....	ID6	312	65.052	6.5	1.2	0.4	1.1	0.6	-0.5
<b>Construction</b>									
Construction for intermediate demand.....	ID6	4	100.000	4.9	0.1	0.1	0.8	0.2	0.7
<b>Special Groupings of Intermediate Demand by Commodity Type</b>									
Processed materials less foods and feeds.....	ID6	9111	90.955	-1.3	-0.6	-2.6	1.2	-0.3	-1.1
Processed foods and feeds.....	ID6	9112	9.045	2.7	0.8	-0.6	0.2	-2.0	-0.1
Processed energy goods.....	ID6	9113	19.623	-5.7	-1.9	-9.8	5.3	-1.4	-5.1
Processed materials less energy.....	ID6	9118	80.377	0.3	-0.1	-0.4	0.1	-0.2	0.1
Processed materials less foods and energy.....	ID6	9115	71.332	0.0	-0.2	-0.4	0.1	0.1	0.1
Intermediate distributive services <sup>7</sup> .....	ID6	9116	31.821	0.0	0.2	-0.9	0.4	-0.3	-0.8
Processed goods plus intermediate distributive services.....	ID6	9117	-	-0.7	-0.3	-2.0	0.9	-0.4	-0.9
Unprocessed materials less agricultural products.....	ID6	9211	58.886	-23.4	-4.9	3.4	-4.9	-7.7	-7.6
Unprocessed energy materials <sup>8</sup> .....	ID6	9212	44.011	-27.9	-6.7	5.0	-7.4	-11.0	-11.9
Unprocessed materials less energy.....	ID6	9213	55.989	-9.3	-0.3	-0.8	-3.1	-0.4	-0.9
Unprocessed nonfood materials less energy <sup>9</sup> .....	ID6	9216	20.369	-13.8	-0.7	-1.7	1.5	0.5	-0.3
<b>Intermediate Demand by Production Flow</b>									
<b>Stage 4 Intermediate Demand</b>									
Stage 4 intermediate demand.....	ID5	4	100.000	3.2	0.4	-0.4	1.0	0.0	-0.5
Inputs to stage 4 goods producers.....	ID5	41	30.323	2.2	0.3	-0.5	0.4	-0.1	-0.2
Goods.....	ID5	411	22.393	2.2	0.0	-0.3	0.1	0.1	-0.3

See footnotes at end of table.



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

Grouping	Commodity code		Relative Importance Dec. 2022 <sup>1</sup>	Unadjusted 12-month percent change <sup>2</sup> Mar. 2022 to Mar. 2023 <sup>P</sup>	Seasonally adjusted 1-month percent change <sup>2</sup>				
	Group code	Item code			Oct. to Nov.	Nov. to Dec. <sup>P</sup>	Dec. to Jan. <sup>P</sup>	Jan. to Feb. <sup>P</sup>	Feb. to Mar. <sup>P</sup>
Foods.....	ID5	4111	3.288	-0.1	0.3	-1.7	0.2	-1.2	-1.5
Energy.....	ID5	4112	0.202	0.0	2.4	-0.3	-3.6	-0.4	-4.7
Goods excluding foods and energy.....	ID5	4113	18.903	2.6	-0.1	-0.1	0.1	0.3	0.0
Services.....	ID5	412	7.930	2.5	1.0	-0.9	1.4	-0.5	0.0
Trade services.....	ID5	4123	5.937	2.2	1.2	-1.1	1.5	-0.6	0.1
Transportation and warehousing services.....	ID5	4122	0.515	1.8	0.0	-0.1	0.0	-0.9	-0.9
Transportation of passengers.....	ID5	41221	0.078	11.8	-3.6	3.2	2.5	-1.5	1.3
Transportation and warehousing of goods.....	ID5	41222	0.437	0.2	0.6	-0.6	-0.4	-0.8	-1.3
Services less trade, transportation, and warehousing.....	ID5	4121	1.478	4.3	0.2	0.2	0.9	0.4	0.1
Inputs to stage 4 services producers.....	ID5	42	54.857	5.0	0.7	0.0	1.3	0.1	-0.6
Goods.....	ID5	421	13.958	3.6	-0.2	-0.8	1.7	-0.5	-0.8
Foods.....	ID5	4211	2.359	-1.0	1.0	-1.2	0.0	-1.6	0.4
Energy.....	ID5	4212	4.105	4.6	-1.5	-2.1	4.4	-0.8	-3.1
Goods excluding foods and energy.....	ID5	4213	7.494	4.6	0.2	0.0	0.6	0.1	0.2
Services.....	ID5	422	40.847	5.5	1.0	0.3	1.2	0.3	-0.5
Trade services.....	ID5	4223	4.133	3.9	0.9	-0.8	0.4	-0.5	-0.1
Transportation and warehousing services.....	ID5	4222	3.688	5.9	-1.1	0.7	1.5	0.1	-0.4
Transportation of passengers.....	ID5	42221	0.491	11.7	-3.6	3.2	2.5	-1.5	1.3
Transportation and warehousing of goods.....	ID5	42222	3.197	5.0	-0.7	0.3	1.4	0.4	-0.7
Services less trade, transportation, and warehousing.....	ID5	4221	33.026	5.6	1.3	0.5	1.3	0.4	-0.6
Construction.....	ID5	423	0.052	4.9	0.1	0.1	0.8	0.2	0.7
Inputs to stage 4 construction producers.....	ID5	43	14.819	-0.8	-0.3	-1.4	0.7	0.1	-0.6
Goods.....	ID5	431	10.791	-0.1	-0.5	-1.5	0.8	0.2	-0.4
Energy.....	ID5	4312	0.840	-16.6	-3.7	-13.8	6.6	1.0	-9.1
Goods excluding foods and energy.....	ID5	4313	9.951	1.7	-0.1	-0.3	0.3	0.1	0.5
Services.....	ID5	432	4.028	-2.7	0.3	-1.2	0.4	-0.3	-1.0
Trade services.....	ID5	4323	1.737	-6.7	0.3	-2.1	1.4	-0.6	-1.4
Transportation and warehousing services.....	ID5	4322	0.722	-4.1	0.7	-1.1	-1.6	-0.9	-2.3
Transportation of passengers.....	ID5	43221	0.015	11.8	-3.6	3.2	2.5	-1.5	1.3
Transportation and warehousing of goods.....	ID5	43222	0.707	-4.4	0.8	-1.2	-1.6	-0.9	-2.4
Services less trade, transportation, and warehousing.....	ID5	4321	1.569	3.9	0.3	0.0	0.3	0.3	0.1
<b>Stage 3 Intermediate Demand</b>									
Stage 3 intermediate demand.....	ID5	3	100.000	-1.7	-0.4	-2.0	0.2	-0.2	-1.0
Inputs to stage 3 goods producers.....	ID5	31	45.396	-4.5	-0.8	-1.3	-1.3	-0.4	-0.6
Goods.....	ID5	311	35.711	-5.9	-1.0	-1.4	-2.0	-0.3	-0.5
Foods.....	ID5	3111	11.819	-7.7	-0.7	-0.5	-5.4	-1.7	-1.5
Energy.....	ID5	3112	1.238	-10.6	-2.0	-16.6	1.2	-2.4	-3.0
Goods excluding foods and energy.....	ID5	3113	22.654	-4.6	-1.1	-0.7	-0.4	0.5	0.2
Services.....	ID5	312	9.685	1.1	0.2	-1.0	1.4	-0.4	-1.0
Trade services.....	ID5	3123	5.316	1.3	0.0	-1.4	3.0	-0.3	-0.8
Transportation and warehousing services.....	ID5	3122	3.003	-0.7	0.5	-0.7	-1.3	-0.8	-1.9
Transportation of passengers.....	ID5	31221	0.144	11.8	-3.6	3.2	2.5	-1.5	1.3
Transportation and warehousing of goods.....	ID5	31222	2.859	-1.3	0.7	-0.9	-1.4	-0.7	-2.0
Services less trade, transportation, and warehousing.....	ID5	3121	1.366	5.3	0.2	-0.1	1.0	0.4	0.2
Inputs to stage 3 services producers.....	ID5	32	53.446	1.4	-0.1	-2.6	1.5	-0.1	-1.3
Goods.....	ID5	321	10.524	-6.5	-1.4	-11.4	5.2	-1.5	-4.1
Foods.....	ID5	3211	0.090	5.8	0.9	-0.4	2.3	-1.7	-1.0
Energy.....	ID5	3212	6.519	-11.9	-2.2	-17.0	8.1	-2.4	-6.6
Goods excluding foods and energy.....	ID5	3213	3.915	3.8	0.4	0.0	0.3	0.0	0.3
Services.....	ID5	322	42.349	4.0	0.3	0.4	0.7	0.2	-0.6
Trade services.....	ID5	3223	2.635	4.9	1.0	-0.5	-1.4	1.0	-1.1
Transportation and warehousing services.....	ID5	3222	10.001	-0.6	-2.3	0.2	0.8	0.1	-0.9
Transportation of passengers.....	ID5	32221	0.021	2.5	-0.1	0.2	0.0	0.0	0.2
Transportation and warehousing of goods.....	ID5	32222	9.980	-0.6	-2.3	0.2	0.8	0.1	-0.9
Services less trade, transportation, and warehousing.....	ID5	3221	29.713	5.4	1.1	0.6	0.8	0.2	-0.5
Construction.....	ID5	323	0.573	4.9	0.1	0.1	0.8	0.2	0.7
Inputs to stage 3 construction producers.....	ID5	33	1.157	-11.8	0.0	-2.5	-0.4	-1.1	-0.7
Goods.....	ID5	331	0.569	-5.0	-0.8	-0.7	-0.5	-0.1	-0.3
Goods excluding foods and energy.....	ID5	3313	0.569	-5.0	-0.8	-0.7	-0.5	-0.1	-0.3
Services.....	ID5	332	0.588	-16.2	0.5	-3.8	-0.2	-2.1	-1.2
Trade services.....	ID5	3323	0.543	-17.3	0.6	-4.0	-0.3	-2.3	-1.2
Transportation and warehousing services.....	ID5	3322	0.016	8.6	0.3	-0.2	0.4	-0.4	-0.3
Transportation and warehousing of goods.....	ID5	33222	0.016	8.6	0.3	-0.2	0.4	-0.4	-0.3
Services less trade, transportation, and warehousing.....	ID5	3321	0.029	6.4	0.0	-0.3	2.0	0.0	0.0
<b>Stage 2 Intermediate Demand</b>									

See footnotes at end of table.



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

Grouping	Commodity code		Relative Importance Dec. 2022 <sup>1</sup>	Unadjusted 12-month percent change <sup>2</sup> Mar. 2022 to Mar. 2023 <sup>P</sup>	Seasonally adjusted 1-month percent change <sup>2</sup>				
	Group code	Item code			Oct. to Nov.	Nov. to Dec. <sup>P</sup>	Dec. to Jan. <sup>P</sup>	Jan. to Feb. <sup>P</sup>	Feb. to Mar. <sup>P</sup>
Stage 2 intermediate demand.....	ID5	2	100.000	-4.0	-1.0	1.0	-1.1	-1.4	-2.7
Inputs to stage 2 goods producers.....	ID5	21	54.614	-12.0	-2.4	1.4	-2.6	-3.8	-4.3
Goods.....	ID5	211	41.174	-17.0	-3.2	1.9	-3.7	-5.2	-5.8
Foods.....	ID5	2111	4.315	-3.0	0.8	-0.6	-2.5	-0.9	-3.0
Energy.....	ID5	2112	21.420	-28.7	-6.4	4.3	-6.9	-10.3	-11.8
Goods excluding foods and energy.....	ID5	2113	15.439	-4.9	0.0	-0.5	0.4	0.1	0.4
Services.....	ID5	212	13.177	6.8	0.5	-0.2	0.6	0.5	-0.1
Trade services.....	ID5	2123	5.199	3.3	0.5	-0.8	0.0	-0.4	0.3
Transportation and warehousing services.....	ID5	2122	4.453	7.2	-0.3	-0.4	0.3	0.5	-0.1
Transportation of passengers.....	ID5	21221	0.167	11.3	-3.4	3.1	2.4	-1.5	1.3
Transportation and warehousing of goods.....	ID5	21222	4.286	7.0	0.0	-0.6	0.3	0.6	-0.1
Services less trade, transportation, and warehousing.....	ID5	2121	3.525	12.4	1.3	1.0	1.8	1.9	-0.8
Construction.....	ID5	213	0.263	4.9	0.1	0.1	0.8	0.2	0.7
Inputs to stage 2 services producers.....	ID5	22	45.386	6.4	0.7	0.6	0.8	1.3	-0.9
Goods.....	ID5	221	5.020	2.1	-0.2	-0.8	0.6	-0.3	-0.6
Foods.....	ID5	2211	0.055	-7.8	-0.8	-1.2	-1.4	-2.3	-3.0
Energy.....	ID5	2212	0.350	-4.9	-3.0	-10.7	8.0	-1.4	-7.4
Goods excluding foods and energy.....	ID5	2213	4.615	2.8	0.0	0.0	0.1	-0.2	0.0
Services.....	ID5	222	39.489	7.1	0.8	0.8	0.9	1.5	-1.0
Trade services.....	ID5	2223	2.263	-3.5	2.2	4.7	-4.7	-0.1	-4.2
Transportation and warehousing services.....	ID5	2222	2.842	-12.7	-7.0	1.1	-1.6	-1.1	-1.6
Transportation of passengers.....	ID5	22221	0.388	11.7	-3.6	3.2	2.5	-1.5	1.3
Transportation and warehousing of goods.....	ID5	22222	2.454	-16.0	-7.5	0.7	-2.2	-1.0	-2.1
Services less trade, transportation, and warehousing.....	ID5	2221	34.384	9.8	1.5	0.5	1.4	1.8	-0.8
Construction.....	ID5	223	0.877	4.9	0.1	0.1	0.8	0.2	0.7
<b>Stage 1 Intermediate Demand</b>									
Stage 1 intermediate demand.....	ID5	1	100.000	0.4	0.1	-1.8	0.8	-0.4	-0.7
Inputs to stage 1 goods producers.....	ID5	11	33.622	-3.3	-0.5	-1.5	0.6	-0.4	-1.1
Goods.....	ID5	111	24.730	-5.1	-0.8	-1.7	0.0	-0.4	-1.3
Foods.....	ID5	1111	3.334	-7.8	-1.1	-2.2	-0.4	-0.9	-4.4
Energy.....	ID5	1112	3.858	1.5	-0.9	-4.4	2.6	-1.6	-4.7
Goods excluding foods and energy.....	ID5	1113	17.538	-5.9	-0.7	-1.0	-0.4	0.0	0.0
Services.....	ID5	112	8.891	1.9	0.2	-1.0	2.1	-0.4	-0.6
Trade services.....	ID5	1123	5.434	0.7	0.2	-1.5	3.2	-0.9	-0.7
Transportation and warehousing services.....	ID5	1122	0.606	13.2	-0.9	-0.2	-0.1	0.5	0.0
Transportation of passengers.....	ID5	11221	0.103	11.8	-3.6	3.2	2.5	-1.5	1.3
Transportation and warehousing of goods.....	ID5	11222	0.503	13.4	-0.5	-0.7	-0.6	0.9	-0.3
Services less trade, transportation, and warehousing.....	ID5	1121	2.851	2.2	0.5	-0.1	0.6	0.4	-0.4
Construction.....	ID5	113	0.001	4.9	0.1	0.1	0.8	0.2	0.7
Inputs to stage 1 services producers.....	ID5	12	53.476	3.9	0.6	-1.6	1.0	-0.3	-0.5
Goods.....	ID5	121	16.341	1.6	-0.5	-4.7	2.2	-0.9	-1.5
Foods.....	ID5	1211	0.115	76.9	-1.1	8.3	-2.4	-16.2	6.1
Energy.....	ID5	1212	5.454	-7.8	-1.7	-12.9	5.1	-2.4	-4.8
Goods excluding foods and energy.....	ID5	1213	10.772	6.9	0.2	0.4	0.7	0.1	0.2
Services.....	ID5	122	37.132	5.1	1.2	0.1	0.6	-0.1	0.0
Trade services.....	ID5	1223	3.680	3.0	1.7	-0.8	-0.6	0.7	-0.8
Transportation and warehousing services.....	ID5	1222	4.369	6.0	-1.1	0.7	1.4	-0.6	-0.3
Transportation of passengers.....	ID5	12221	1.346	11.8	-3.6	3.2	2.5	-1.5	1.3
Transportation and warehousing of goods.....	ID5	12222	3.023	3.4	0.2	-0.5	0.9	-0.1	-1.0
Services less trade, transportation, and warehousing.....	ID5	1221	29.083	5.2	1.4	0.2	0.6	-0.1	0.1
Construction.....	ID5	123	0.003	4.9	0.1	0.1	0.8	0.2	0.7
Inputs to stage 1 construction producers.....	ID5	13	12.902	-3.8	0.0	-3.1	0.3	-0.7	-0.6
Goods.....	ID5	131	9.191	1.9	-0.3	-3.0	0.8	-0.4	-0.3
Energy.....	ID5	1312	0.911	-15.7	-1.7	-22.1	6.3	-4.4	-5.8
Goods excluding foods and energy.....	ID5	1313	8.280	4.2	-0.1	0.0	0.2	0.0	0.4
Services.....	ID5	132	3.711	-14.0	0.6	-3.3	-0.7	-1.4	-1.5
Trade services.....	ID5	1323	2.767	-15.0	0.6	-3.6	-0.1	-1.7	-1.2
Transportation and warehousing services.....	ID5	1322	0.852	-5.7	0.7	-1.4	-2.2	-0.9	-2.8
Transportation and warehousing of goods.....	ID5	13222	0.852	-5.7	0.7	-1.4	-2.2	-0.9	-2.8
Services less trade, transportation, and warehousing.....	ID5	1321	0.092	8.1	0.3	0.2	0.6	-0.2	0.6
<b>Special Groupings of Intermediate Demand by Production Flow</b>									
Total goods inputs to stage 4 intermediate demand.....	ID5	9411	47.142	2.1	-0.2	-0.7	0.8	-0.1	-0.5
Total services inputs to stage 4 intermediate demand.....	ID5	9412	52.805	4.2	1.0	0.0	1.2	0.1	-0.5
Total construction inputs to stage 4 intermediate demand.....	ID5	9413	0.052	4.9	0.1	0.1	0.8	0.2	0.7
Total foods inputs to stage 4 intermediate demand.....	ID5	9414	5.647	-0.5	0.6	-1.5	0.1	-1.3	-0.7

See footnotes at end of table.

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

Grouping	Commodity code		Relative Importance Dec. 2022 <sup>1</sup>	Unadjusted 12-month percent change <sup>2</sup> Mar. 2022 to Mar. 2023 <sup>p</sup>	Seasonally adjusted 1-month percent change <sup>2</sup>				
	Group code	Item code			Oct. to Nov.	Nov. to Dec. <sup>p</sup>	Dec. to Jan. <sup>p</sup>	Jan. to Feb. <sup>p</sup>	Feb. to Mar. <sup>p</sup>
Total energy goods inputs to stage 4 intermediate demand.....	ID5	9415	5.147	-0.1	-1.8	-4.3	4.5	-0.5	-4.3
Total goods less foods and energy inputs to stage 4 intermediate demand. ....	ID5	9416	36.348	2.8	0.0	-0.1	0.3	0.2	0.2
Total goods inputs to stage 3 intermediate demand.....	ID5	9311	46.804	-6.0	-1.1	-3.8	-0.4	-0.6	-1.3
Total services inputs to stage 3 intermediate demand.....	ID5	9312	52.622	3.0	0.3	0.0	0.8	0.1	-0.7
Total construction inputs to stage 3 intermediate demand.....	ID5	9313	0.573	4.9	0.1	0.1	0.8	0.2	0.7
Total foods inputs to stage 3 intermediate demand.....	ID5	9314	11.909	-7.6	-0.7	-0.5	-5.4	-1.7	-1.5
Total energy goods inputs to stage 3 intermediate demand.....	ID5	9315	7.757	-11.7	-2.2	-16.9	6.9	-2.4	-6.0
Total goods less foods and energy inputs to stage 3 intermediate demand. ....	ID5	9316	27.138	-3.5	-0.9	-0.6	-0.3	0.4	0.2
Total goods inputs to stage 2 intermediate demand.....	ID5	9211	46.194	-15.1	-2.9	1.6	-3.2	-4.7	-5.2
Total services inputs to stage 2 intermediate demand.....	ID5	9212	52.666	7.0	0.8	0.6	0.8	1.3	-0.8
Total construction inputs to stage 2 intermediate demand.....	ID5	9213	1.140	4.9	0.1	0.1	0.8	0.2	0.7
Total foods inputs to stage 2 intermediate demand.....	ID5	9214	4.370	-3.0	0.7	-0.6	-2.5	-0.9	-3.0
Total energy goods inputs to stage 2 intermediate demand.....	ID5	9215	21.770	-28.3	-6.3	4.0	-6.7	-10.1	-11.7
Total goods less foods and energy inputs to stage 2 intermediate demand. ....	ID5	9216	20.054	-3.3	0.0	-0.4	0.3	0.0	0.3
Total goods inputs to stage 1 intermediate demand.....	ID5	9111	50.262	-1.7	-0.6	-3.0	0.9	-0.6	-1.2
Total services inputs to stage 1 intermediate demand.....	ID5	9112	49.734	2.5	0.9	-0.4	0.7	-0.2	-0.2
Total construction inputs to stage 1 intermediate demand.....	ID5	9117	0.004	4.9	0.1	0.1	0.8	0.2	0.7
Total foods inputs to stage 1 intermediate demand.....	ID5	9114	3.449	-6.6	-1.1	-1.9	-0.5	-1.4	-4.1
Total energy goods inputs to stage 1 intermediate demand.....	ID5	9115	10.223	-5.7	-1.4	-11.1	4.2	-2.2	-4.8
Total goods less foods and energy inputs to stage 1 intermediate demand. ....	ID5	9116	36.590	0.0	-0.3	-0.3	0.0	0.0	0.1

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

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

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

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

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

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

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

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

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

<sup>p</sup> Preliminary

"/" Data not available.

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

Grouping	Commodity code		Unadjusted 12-month percent change <sup>1</sup>	Seasonally adjusted 1-month percent change <sup>1</sup>				
	Group code	Item code		Mar. 2022 to Mar. 2023 <sup>P</sup>	Oct. to Nov.	Nov. to Dec. <sup>P</sup>	Dec. to Jan. <sup>P</sup>	Jan. to Feb. <sup>P</sup>
<b>Final Demand</b>								
Final demand.....	FD	4	2.7	0.4	-0.2	0.4	0.0	-0.5
Final demand goods.....	FD	41	2.0	0.3	-1.4	1.3	-0.3	-1.0
Final demand foods.....	FD	411	5.1	3.3	-0.9	-1.3	-2.2	0.6
Fresh fruits and melons <sup>2</sup> .....	01	11	9.2	3.2	-7.8	6.5	-6.4	-3.2
Fresh and dry vegetables <sup>2</sup> .....	01	13	-18.0	38.2	-9.4	-33.5	-13.6	-7.5
Grains.....	01	2	-14.9	-3.2	-4.0	-1.6	0.8	-7.5
Eggs for fresh use <sup>2</sup> .....	01	7107	116.1	26.0	24.5	-12.7	-41.3	33.9
Oilseeds.....	01	8301	-8.9	3.2	0.0	-4.9	0.6	-4.3
Bakery products <sup>2</sup> .....	02	11	10.0	1.4	0.1	0.3	0.5	0.6
Milled rice <sup>2</sup> .....	02	13	21.5	0.7	2.0	3.3	0.4	0.6
Pasta products <sup>2</sup> .....	02	1402	26.2	0.0	0.0	8.9	1.3	0.0
Beef and veal.....	02	2101	4.6	2.9	4.4	7.5	-1.3	1.5
Pork.....	02	2104	-2.2	1.2	-1.9	-2.1	-2.3	3.4
Processed young chickens.....	02	2203	-9.6	-0.4	-4.3	-3.7	0.1	6.3
Processed turkeys <sup>2</sup> .....	02	2206	5.0	0.0	-0.3	0.0	-2.2	-11.6
Finfish and shellfish.....	02	23	-4.0	-1.9	-1.9	0.7	-1.3	1.1
Dairy products.....	02	3	-3.9	-0.2	-0.3	-1.6	-2.1	-2.0
Processed fruits and vegetables <sup>2</sup> .....	02	4	18.3	1.7	0.2	1.4	1.1	0.5
Confectionery end products <sup>2</sup> .....	02	55	5.7	0.5	-0.3	-0.7	1.7	0.2
Soft drinks <sup>2</sup> .....	02	62	14.2	0.3	-1.2	6.4	-0.8	0.0
Roasted coffee <sup>2</sup> .....	02	6301	8.2	0.7	0.4	-0.2	0.0	0.0
Shortening and cooking oils <sup>2</sup> .....	02	78	-10.1	2.8	-4.1	-2.2	-2.0	-1.4
Frozen specialty food <sup>2</sup> .....	02	85	12.2	0.5	0.5	0.8	0.0	2.0
Final demand energy.....	FD	412	-7.2	-2.3	-6.3	5.5	-0.3	-6.4
Liquefied petroleum gas <sup>2</sup> .....	05	32	-48.9	1.0	-14.6	0.6	1.6	-9.3
Residential electric power.....	05	41	9.4	-0.2	1.0	1.2	0.8	-0.9
Residential natural gas.....	05	51	7.3	-2.1	2.1	12.2	-9.5	-7.1
Gasoline.....	05	71	-19.2	-5.1	-8.6	7.5	3.8	-11.7
Home heating oil and distillates.....	05	7302	-21.4	-6.3	-5.3	1.3	-16.3	-4.6
No. 2 diesel fuel.....	05	7303	-19.4	-1.8	-27.5	11.0	-4.6	-6.5
Final demand goods less foods and energy.....	FD	413	4.3	0.3	0.1	0.6	0.3	0.3
Alcoholic beverages.....	02	61	4.3	1.0	0.4	0.1	-0.1	-0.2
Pet food <sup>2</sup> .....	02	9402	18.1	1.3	0.1	0.2	0.1	5.6
Women's, girls', and infants' apparel <sup>2</sup> .....	03	8106	0.5	0.0	0.0	0.0	0.1	0.0
Men's and boys' apparel <sup>2</sup> .....	03	8107	4.4	0.5	0.0	0.1	0.2	0.2
Textile housefurnishings <sup>2</sup> .....	03	82	4.9	0.0	0.0	0.1	0.0	0.2
Footwear.....	04	3	10.3	0.1	0.2	0.3	1.0	-0.7
Industrial chemicals.....	06	1	-7.6	-1.3	-0.6	0.1	-1.8	0.0
Pharmaceutical preparations.....	06	38	2.6	0.1	-0.3	0.7	0.5	0.0
Soaps and detergents <sup>2</sup> .....	06	71	16.0	1.3	3.2	1.2	0.2	0.0
Cleaning and polishing products <sup>2</sup> .....	06	72	4.2	0.3	0.0	0.2	0.4	0.1
Cosmetics and other toiletries <sup>2</sup> .....	06	75	6.7	0.1	0.0	1.1	1.9	0.5
Tires <sup>2</sup> .....	07	1201	13.2	0.6	0.6	3.0	0.0	0.0
Consumer, institutional, and commercial products, n.e.c. <sup>2</sup> .....	07	2B	7.1	0.2	-0.1	0.3	0.2	-0.2
Sanitary paper products <sup>2</sup> .....	09	1501	12.5	2.8	-0.4	0.9	0.0	0.2
Iron and steel scrap.....	10	12	-21.8	-1.8	-6.8	1.3	11.2	4.1
Agricultural machinery and equipment.....	11	1	9.3	-0.2	0.1	0.3	-0.3	0.3
Construction machinery and equipment <sup>2</sup> .....	11	2	11.8	0.2	0.0	3.4	0.3	0.2
Metal cutting machine tools <sup>2</sup> .....	11	37	4.5	0.6	0.0	0.3	1.1	0.6
Metal forming machine tools.....	11	38	6.6	-0.1	0.1	-0.2	-0.1	0.1
Tools, dies, jigs, fixtures, and industrial molds <sup>2</sup> .....	11	39	6.2	0.2	0.2	0.8	0.2	0.5
Pumps, compressors, and equipment.....	11	41	12.5	0.8	0.6	1.4	-0.1	0.5
Industrial material handling equipment <sup>2</sup> .....	11	44	9.9	1.6	0.1	1.6	0.6	-0.1
Electronic computers and computer equipment <sup>2</sup> .....	11	5	2.4	0.0	1.0	1.4	0.2	-0.1
Textile machinery and equipment <sup>2</sup> .....	11	62	0.2	-0.1	0.0	0.0	0.0	0.0
Paper industries machinery <sup>2</sup> .....	11	64	10.0	1.9	0.1	0.8	0.0	0.4
Printing trades machinery and equipment <sup>2</sup> .....	11	65	2.8	-0.2	0.0	0.5	-0.1	0.7
Transformers and power regulators <sup>2</sup> .....	11	74	12.7	0.6	0.4	1.6	0.4	1.7
Communication and related equipment.....	11	76	3.0	0.2	0.3	0.0	-0.1	0.3
Electronic components and accessories.....	11	78	1.6	0.5	0.2	-0.6	-0.1	0.0
X-ray and electromedical equipment <sup>2</sup> .....	11	7905	4.5	0.0	0.1	1.2	0.0	0.0
Oil field and gas field machinery <sup>2</sup> .....	11	91	7.9	0.1	0.0	0.8	0.0	0.0
Mining machinery and equipment <sup>2</sup> .....	11	92	11.1	1.0	0.3	0.5	0.0	0.0
Office and store machines and equipment <sup>2</sup> .....	11	93	0.8	0.0	0.0	0.0	0.0	0.0

See footnotes at end of table.

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

Grouping	Commodity code		Unadjusted 12-month percent change <sup>1</sup>	Seasonally adjusted 1-month percent change <sup>1</sup>				
	Group code	Item code		Mar. 2022 to Mar. 2023 <sup>P</sup>	Oct. to Nov.	Nov. to Dec. <sup>P</sup>	Dec. to Jan. <sup>P</sup>	Jan. to Feb. <sup>P</sup>
Household furniture <sup>2</sup> .....	12	1	6.3	-0.2	0.4	0.6	0.5	0.3
Commercial furniture <sup>2</sup> .....	12	2	8.0	1.3	0.9	-0.7	0.6	0.7
Floor coverings <sup>2</sup> .....	12	3	1.9	0.8	-1.6	0.7	0.1	0.0
Household appliances <sup>2</sup> .....	12	4	5.1	-0.1	0.7	0.0	0.1	-1.4
Home electronic equipment <sup>2</sup> .....	12	5	4.4	0.0	0.0	0.4	0.8	0.0
Lawn and garden equipment excl. garden tractors <sup>2</sup> .....	12	66	10.6	0.0	1.4	1.8	-0.1	0.0
Passenger cars.....	14	1101	1.6	0.2	0.0	0.7	0.2	-0.3
Light motor trucks.....	14	1105	6.2	0.4	0.5	0.6	-0.1	0.7
Heavy motor trucks <sup>2</sup> .....	14	1106	2.3	0.1	0.0	0.1	0.1	0.0
Motor vehicles parts <sup>2</sup> .....	14	12	2.8	-0.1	0.1	0.4	-0.2	0.3
Truck trailers <sup>2</sup> .....	14	14	2.0	-0.1	0.1	-1.3	-0.6	0.0
Travel trailers and campers <sup>2</sup> .....	14	16	4.6	0.1	0.0	0.0	0.0	0.1
Aircraft.....	14	21	4.2	0.3	0.4	0.3	0.4	0.6
Ships <sup>2</sup> .....	14	31	0.9	0.0	0.3	0.3	-0.5	0.2
Railroad equipment <sup>2</sup> .....	14	4	1.4	0.1	0.0	0.1	0.2	0.2
Toys, games, and children's vehicles <sup>2</sup> .....	15	11	2.2	0.0	0.0	1.1	0.0	0.0
Sporting and athletic goods <sup>2</sup> .....	15	12	14.7	2.4	2.0	0.7	1.2	0.0
Cigarettes <sup>2</sup> .....	15	21	13.3	1.9	0.0	1.7	2.1	0.0
Mobile homes <sup>2</sup> .....	15	5	-2.9	-0.3	0.0	-1.3	-0.6	0.1
Medical, surgical & personal aid devices.....	15	6	3.8	0.0	0.4	0.9	0.0	0.7
Jewelry, platinum and karat gold <sup>2</sup> .....	15	9402	3.5	3.6	0.7	1.7	-2.1	0.9
Costume jewelry and novelties <sup>2</sup> .....	15	9404	4.6	0.0	0.0	4.1	0.9	0.0
Final demand services.....	FD	42	2.8	0.4	0.5	0.0	0.1	-0.3
Final demand trade services <sup>3</sup> .....	FD	423	2.4	0.5	1.0	-1.1	0.0	-0.9
Machinery and equipment parts and supplies wholesaling <sup>2</sup> .....	57	1102	1.5	2.1	-0.9	1.2	-1.1	0.2
Machinery and vehicle wholesaling <sup>2</sup> .....	57	1103	-1.4	4.2	6.6	-3.4	-2.0	-7.3
Professional and commercial equipment wholesaling <sup>2</sup> .....	57	1104	7.9	2.6	1.5	1.4	1.3	6.2
Furnishings wholesaling <sup>2</sup> .....	57	2	6.1	-1.3	0.9	0.1	-0.5	0.0
Chemicals and allied products wholesaling <sup>2</sup> .....	57	5	10.0	-0.4	-1.3	4.0	-3.3	0.7
Paper and plastics products wholesaling <sup>2</sup> .....	57	6	8.2	0.4	1.6	-1.8	0.5	-1.5
Apparel wholesaling <sup>2</sup> .....	57	7	8.4	-2.1	-7.4	3.6	6.3	-0.6
Food and alcohol wholesaling <sup>2</sup> .....	57	8	5.0	-0.2	-1.8	-0.4	-0.3	1.4
Food and alcohol retailing.....	58	1	18.4	-0.4	-0.3	-1.1	3.0	1.9
Health, beauty, and optical goods retailing <sup>2</sup> .....	58	2	8.4	-4.1	3.0	4.0	0.5	1.5
Apparel, jewelry, footwear, and accessories retailing.....	58	3	2.8	-0.1	3.2	2.0	0.3	-0.6
Computer hardware, software, and supplies retailing <sup>2</sup> .....	58	4	-21.4	-6.2	0.6	-1.4	-14.6	2.2
TV, video, and photographic equipment and supplies retailing.....	58	5	-23.5	12.8	-8.8	-4.2	-1.3	1.4
Automobiles retailing (partial).....	58	6101	-19.3	-2.2	-4.9	-6.9	-0.6	-1.6
Automotive parts, including tires, retailing <sup>2</sup> .....	58	6102	12.9	2.2	0.2	1.4	-1.0	-1.3
RVs, trailers, and campers retailing <sup>2</sup> .....	58	8	-46.9	-15.5	-9.2	16.0	-6.1	0.6
Sporting goods, including boats, retailing.....	58	9	-1.4	0.2	-1.4	-2.8	-0.8	2.2
Lawn, garden, and farm equipment and supplies retailing <sup>2</sup> .....	58	A	29.2	0.6	-4.2	0.6	0.6	12.9
Furniture retailing <sup>2</sup> .....	58	B	-10.5	-1.1	1.1	1.7	1.8	0.8
Flooring and floor coverings retailing <sup>2</sup> .....	58	C	2.5	-0.2	-3.7	6.4	0.4	1.1
Hardware, building materials, and supplies retailing.....	58	D	-29.2	0.4	-6.8	-0.5	-5.8	-0.9
Major household appliances retailing.....	58	E	0.3	-1.7	0.6	0.9	12.2	-9.4
Fuels and lubricants retailing.....	58	F	-16.2	3.5	14.6	-12.0	-0.9	-12.1
Cleaning supplies and paper products retailing <sup>2</sup> .....	58	G	21.3	-1.3	-2.0	2.3	7.9	0.4
Book retailing <sup>2</sup> .....	58	H	-2.6	0.3	-5.9	5.2	-4.3	-1.9
Final demand transportation and warehousing services.....	FD	422	0.5	-0.4	0.0	-0.5	-0.9	-1.3
Rail transportation of freight and mail <sup>2</sup> .....	30	11	6.2	0.8	-0.1	1.0	-1.0	-0.2
Truck transportation of freight <sup>2</sup> .....	30	12	-6.7	0.8	-1.4	-2.2	-0.9	-2.9
Air transportation of freight <sup>2</sup> .....	30	14	-4.3	-1.9	-1.7	1.1	0.2	-0.9
Courier, messenger, and U.S. postal services.....	30	16	7.8	0.5	-0.4	2.2	0.1	-0.3
Rail transportation of passengers.....	30	21	2.1	0.1	0.0	-0.2	0.1	0.1
Airline passenger services.....	30	22	11.8	-3.6	3.2	2.5	-1.5	1.3
Final demand services less trade, transportation, and warehousing.....	FD	421	3.1	0.5	0.3	0.6	0.3	0.1
Sales of books.....	33	11	7.2	-0.1	0.5	1.5	0.2	0.5
Sales and subscriptions of periodicals and newspapers.....	33	12	1.6	-3.8	0.4	-0.7	0.5	-0.5
Application software publishing <sup>2</sup> .....	34	2	-0.3	-2.9	0.5	0.9	-0.4	0.6
Advertising space sales in periodicals, newspapers, directories, and mailing lists <sup>2</sup> .....	36	1	3.2	-0.3	1.0	1.1	0.6	0.9
Residential wired telecommunication services <sup>2</sup> .....	37	11	4.4	0.0	0.0	0.0	0.2	0.4
Wireless telecommunication services.....	37	2	1.8	-0.1	0.1	0.0	0.3	0.1
Cable and satellite subscriber services.....	37	3	11.7	0.7	2.6	0.7	-0.3	1.9
Internet access services <sup>2</sup> .....	37	4	0.6	-0.5	0.0	0.9	0.3	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**  
[March 2023]

Grouping	Commodity code		Unadjusted 12-month percent change <sup>1</sup>	Seasonally adjusted 1-month percent change <sup>1</sup>				
	Group code	Item code		Mar. 2022 to Mar. 2023 <sup>P</sup>	Oct. to Nov.	Nov. to Dec. <sup>P</sup>	Dec. to Jan. <sup>P</sup>	Jan. to Feb. <sup>P</sup>
Bundled wired telecommunications access services <sup>2</sup> .....	37	5	10.2	-0.3	-0.2	4.2	-0.4	1.4
Consumer loans (partial).....	39	12	2.5	3.4	-6.6	1.8	3.0	-4.6
Deposit services (partial) <sup>2</sup> .....	39	2	16.0	-0.9	15.2	-1.9	-2.6	3.0
Other credit intermediation, incl. trust services (partial) <sup>2</sup> .....	39	3	-5.2	-2.5	0.0	0.1	1.7	0.1
Securities brokerage, dealing, investment advice, and related services <sup>2</sup> ...	40	1	31.5	11.7	0.4	0.4	4.4	-0.2
Portfolio management <sup>2</sup> .....	40	2	-12.2	1.3	-0.9	4.2	-0.5	-4.5
Life insurance <sup>2</sup> .....	41	1101	0.1	0.1	-0.1	-0.4	0.0	0.0
Disability insurance, including accidental death <sup>2</sup> .....	41	1102	-0.3	0.0	0.0	0.0	0.0	0.0
Health and medical insurance.....	41	1103	1.1	0.1	0.2	-0.8	0.3	0.2
Property and casualty insurance <sup>2</sup> .....	41	1104	4.8	0.1	1.2	0.9	0.1	0.2
Annuities <sup>2</sup> .....	41	2	-1.5	-0.9	0.0	-0.1	0.0	0.0
Residential property sales and leases, brokerage fees and commissions..	43	21	0.8	-0.2	0.0	-0.3	-0.8	-0.2
Passenger car rental.....	44	1	-4.4	-1.8	0.6	-2.5	-1.4	-1.1
Legal services.....	45	1	6.5	0.4	0.3	1.6	1.1	0.3
Tax preparation and planning.....	45	2102	8.6	0.3	2.5	-0.1	0.6	0.2
Architectural and engineering services.....	45	3	3.3	0.4	0.1	0.0	0.4	-0.1
Management, scientific, and technical consulting services.....	45	4	0.0	0.0	1.2	1.1	-1.3	0.1
Arrangement of flights (partial).....	47	1	13.5	0.5	-1.1	-0.5	1.0	-0.3
Arrangement of vehicle rentals and lodging <sup>2</sup> .....	47	2	5.1	0.7	0.5	0.1	1.3	0.7
Arrangement of cruises and tours <sup>2</sup> .....	47	3	7.4	0.5	6.5	0.1	-6.6	-1.6
Physician care.....	51	1101	1.2	0.0	0.2	-0.3	0.5	0.2
Medical laboratory and diagnostic imaging care <sup>2</sup> .....	51	1102	-0.2	-0.2	0.0	0.6	-0.2	0.0
Home health and hospice care.....	51	1103	2.7	0.2	0.3	0.3	0.1	0.1
Hospital outpatient care <sup>2</sup> .....	51	1104	2.0	0.4	-0.1	1.0	0.1	0.5
Dental care.....	51	1105	4.7	0.2	0.1	0.4	2.7	0.1
Hospital inpatient care.....	51	2101	3.9	0.4	0.4	0.2	0.2	0.7
Nursing home care.....	51	2102	7.2	0.5	0.2	0.9	0.7	0.7
Traveler accommodation services.....	53	11	2.4	2.4	1.9	-2.3	-3.4	4.1
Food and beverages for immediate consumption services (partial) <sup>2</sup> .....	54	1	2.6	0.7	-0.4	0.9	0.6	0.2
Motor vehicle repair and maintenance (partial).....	55	2	4.9	0.3	0.3	1.1	0.0	0.1
Membership dues and admissions and recreation facility use fees (partial) <sup>2</sup> .....	56	1	7.0	1.3	1.1	2.6	0.9	0.4
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	0.2	-4.3	0.3	1.7	0.6	0.4
Mining services <sup>2</sup> .....	60	1	8.0	0.4	0.3	0.5	0.6	0.1
Final demand construction.....	FD	43	15.6	0.1	0.0	1.8	0.0	0.2
New warehouse building construction <sup>2</sup> .....	80	1101	12.3	0.3	-0.2	0.0	-0.3	-0.2
New school building construction <sup>2</sup> .....	80	1102	16.0	0.0	-0.1	1.5	0.0	0.2
New office building construction <sup>2</sup> .....	80	1103	18.2	0.1	0.3	3.9	0.2	0.3
New industrial building construction <sup>2</sup> .....	80	1104	17.2	-0.1	-0.1	1.0	0.1	0.4
New health care building construction <sup>2</sup> .....	80	1105	17.3	0.1	0.1	1.8	0.1	0.3
<b>Intermediate Demand by Commodity Type</b>								
Processed goods for intermediate demand.....	ID6	1	-1.0	-0.5	-2.5	1.1	-0.4	-1.0
Processed foods and feeds.....	ID6	9112	2.7	0.8	-0.6	0.2	-2.0	-0.1
Meats.....	02	21	2.0	1.9	1.4	2.0	-0.9	2.0
Processed poultry.....	02	22	-12.4	3.1	-9.9	1.2	-2.4	3.1
Dairy products.....	02	3	-3.9	-0.2	-0.3	-1.6	-2.1	-2.0
Processed fruits and vegetables <sup>2</sup> .....	02	4	18.3	1.7	0.2	1.4	1.1	0.5
Refined sugar and byproducts <sup>2</sup> .....	02	53	11.3	-0.3	0.8	0.5	2.4	0.6
Fats and oils <sup>2</sup> .....	02	7	-12.3	2.5	-3.4	0.2	-5.9	-4.0
Prepared animal feeds.....	02	9	5.3	0.6	0.0	-0.8	-1.8	0.0
Processed materials less foods and feeds.....	ID6	9111	-1.3	-0.6	-2.6	1.2	-0.3	-1.1
Synthetic fibers <sup>2</sup> .....	03	1	8.2	-0.2	-1.2	2.0	0.1	-0.1
Processed yarns and threads <sup>2</sup> .....	03	2	-4.9	-1.5	-2.9	-3.1	-0.2	-0.2
Finished fabrics <sup>2</sup> .....	03	4	5.4	0.4	-0.5	0.1	0.5	0.4
Liquefied petroleum gas <sup>2</sup> .....	05	32	-48.9	1.0	-14.6	0.6	1.6	-9.3
Commercial electric power.....	05	42	9.6	-0.8	1.8	2.0	1.7	-2.7
Industrial electric power.....	05	43	9.7	-1.8	2.8	6.9	-4.3	-0.1
Commercial natural gas.....	05	52	7.3	-4.4	3.3	12.3	-11.4	-9.7
Industrial natural gas.....	05	53	12.5	-1.7	4.5	7.2	-9.8	-6.1
Natural gas to electric utilities.....	05	54	22.0	-3.6	1.4	7.4	1.8	-5.1
Gasoline.....	05	71	-19.2	-5.1	-8.6	7.5	3.8	-11.7
Jet fuel <sup>2</sup> .....	05	7203	-8.5	-2.2	-15.8	14.0	-0.6	-7.7
No. 2 diesel fuel.....	05	7303	-19.4	-1.8	-27.5	11.0	-4.6	-6.5
Residual fuels <sup>2</sup> .....	05	74	-38.3	6.8	-3.3	-14.7	-5.4	-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**  
 [March 2023]

Grouping	Commodity code		Unadjusted 12-month percent change <sup>1</sup>	Seasonally adjusted 1-month percent change <sup>1</sup>				
	Group code	Item code		Mar. 2022 to Mar. 2023 <sup>P</sup>	Oct. to Nov.	Nov. to Dec. <sup>P</sup>	Dec. to Jan. <sup>P</sup>	Jan. to Feb. <sup>P</sup>
Finished lubricants <sup>2</sup> .....	05	76	20.1	0.3	0.0	-0.5	0.2	0.1
Lubricating oil base stocks <sup>2</sup> .....	05	78	-7.3	-4.1	6.8	-20.5	-5.0	-7.1
Asphalt.....	05	8102	-23.4	-6.3	-31.5	2.9	-2.9	3.4
Basic inorganic chemicals <sup>2</sup> .....	06	13	17.6	-1.3	0.1	2.0	0.0	-0.1
Basic organic chemicals.....	06	14	-11.5	-1.3	-0.7	-0.4	-2.3	0.1
Prepared paint <sup>2</sup> .....	06	21	10.1	-1.0	0.3	0.0	-0.1	-0.1
Paint materials <sup>2</sup> .....	06	22	18.0	2.7	0.4	1.4	0.3	0.3
Medicinal and botanical chemicals <sup>2</sup> .....	06	31	0.4	0.4	-0.2	0.4	-0.4	0.3
Biological products, including diagnostics.....	06	37	4.5	0.2	-0.1	1.1	0.8	0.2
Fats and oils, inedible <sup>2</sup> .....	06	4	-14.7	5.9	-7.1	-2.1	-5.6	-2.9
Nitrogenates.....	06	5201	-28.1	1.9	-2.4	-10.4	-12.1	-5.8
Phosphates.....	06	5202	-22.1	-0.3	-10.1	-0.3	-2.6	-5.1
Other agricultural chemicals <sup>2</sup> .....	06	53	19.6	2.4	0.8	1.5	0.0	-0.1
Plastic resins and materials.....	06	6	-6.2	-4.1	0.4	-0.8	1.4	0.5
Industrial gases <sup>2</sup> .....	06	7903	4.3	-4.1	-0.6	3.9	-0.1	-0.1
Adhesives and sealants <sup>2</sup> .....	06	7904	11.2	-0.1	0.3	0.0	0.8	0.2
Synthetic rubber <sup>2</sup> .....	07	1102	-4.4	-3.6	-4.5	-2.5	-0.2	-1.3
Tires <sup>2</sup> .....	07	1201	13.2	0.6	0.6	3.0	0.0	0.0
Plastic construction products <sup>2</sup> .....	07	21	3.0	-1.1	-0.3	-0.2	-0.5	-0.1
Unsupported plastic film, sheet, other shapes <sup>2</sup> .....	07	22	0.8	0.6	-0.7	-1.2	-0.1	-1.5
Parts for manufacturing from plastics <sup>2</sup> .....	07	26	3.2	-0.1	0.5	-0.1	-1.3	-0.2
Plastic packaging products <sup>2</sup> .....	07	2A	1.8	-0.5	-0.4	-2.0	-0.7	-0.2
Softwood lumber.....	08	11	-49.3	-1.6	-8.0	-9.8	-1.0	-4.0
Hardwood lumber <sup>2</sup> .....	08	12	-14.3	-4.5	-1.8	7.8	-1.6	-1.6
Millwork.....	08	2	-0.7	-0.9	-0.5	-0.3	-0.1	-0.7
Plywood <sup>2</sup> .....	08	3	-28.7	-4.0	-1.7	-1.4	-1.6	-0.6
Paper <sup>2</sup> .....	09	13	6.6	-0.4	0.2	-0.3	0.7	-0.7
Paperboard <sup>2</sup> .....	09	14	4.2	0.3	-0.5	-0.5	-1.0	-0.9
Paper boxes and containers <sup>2</sup> .....	09	1503	9.7	0.6	0.1	-0.1	0.2	-0.4
Building paper and board <sup>2</sup> .....	09	2	-51.3	-0.3	-8.4	-6.6	-1.1	0.5
Commercial printing <sup>2</sup> .....	09	47	12.5	1.2	0.4	1.4	0.1	1.2
Foundry and forge shop products <sup>2</sup> .....	10	15	5.7	-0.1	0.2	1.5	0.6	0.0
Steel mill products <sup>2</sup> .....	10	17	-15.1	-3.1	-3.4	-2.3	2.5	1.2
Primary nonferrous metals <sup>2</sup> .....	10	22	-20.3	5.9	1.6	3.1	0.8	-5.2
Secondary nonferrous metals <sup>2</sup> .....	10	24	-5.6	5.4	0.8	0.7	0.5	-0.2
Aluminum mill shapes <sup>2</sup> .....	10	2501	-13.0	-1.5	0.8	3.7	2.0	-0.6
Copper and brass mill shapes <sup>2</sup> .....	10	2502	-4.6	7.5	0.9	2.2	2.0	0.1
Nonferrous wire and cable <sup>2</sup> .....	10	26	4.2	4.1	0.6	2.7	2.0	-0.8
Nonferrous foundry shop products.....	10	28	8.0	1.3	0.4	-0.3	0.8	-0.3
Metal containers <sup>2</sup> .....	10	3	3.7	-0.4	0.0	-1.8	-0.4	0.0
Hardware <sup>2</sup> .....	10	4	4.1	0.0	0.7	0.9	-0.2	0.2
Plumbing fixtures and brass fittings.....	10	5	4.6	0.3	-0.2	0.2	-0.9	0.4
Heating equipment <sup>2</sup> .....	10	6	8.2	2.4	0.2	0.2	-0.1	0.8
Fabricated structural metal products.....	10	7	2.0	-0.8	0.0	0.3	-0.2	0.8
Bolts, nuts, screws, rivets, and washers <sup>2</sup> .....	10	81	12.5	-0.6	0.1	1.0	0.6	0.4
Lighting fixtures <sup>2</sup> .....	10	83	5.5	0.0	0.2	0.3	0.1	1.5
Fabricated ferrous wire products <sup>2</sup> .....	10	88	0.1	-1.0	-1.1	-0.3	-0.4	-0.6
Other miscellaneous metal products <sup>2</sup> .....	10	89	4.9	1.3	0.0	-0.1	1.1	-0.7
Fluid power equipment.....	11	43	8.9	0.5	0.3	1.1	0.6	0.4
Mechanical power transmission equipment <sup>2</sup> .....	11	45	11.1	1.6	0.8	0.9	-0.1	0.0
Air conditioning and refrigeration equipment.....	11	48	10.3	-0.2	0.7	-0.5	-0.2	1.2
Metal valves, except fluid power.....	11	4902	10.9	1.4	0.1	0.7	-0.1	0.3
Ball and roller bearings <sup>2</sup> .....	11	4905	6.6	0.5	0.0	0.1	-0.1	2.0
Wiring devices <sup>2</sup> .....	11	71	17.3	1.1	0.1	8.3	0.3	0.5
Motors, generators, motor generator sets <sup>2</sup> .....	11	73	8.6	0.0	0.2	0.6	1.4	0.0
Switchgear, switchboard, and industrial controls equip. <sup>2</sup> .....	11	75	11.5	0.4	2.5	0.3	0.0	0.2
Electronic components and accessories.....	11	78	1.6	0.5	0.2	-0.6	-0.1	0.0
Internal combustion engines <sup>2</sup> .....	11	94	8.3	0.0	0.1	4.0	-0.1	-0.1
Machine shop products <sup>2</sup> .....	11	95	7.2	0.3	-0.2	0.1	0.5	0.1
Flat glass <sup>2</sup> .....	13	11	10.6	0.9	-0.2	-0.6	3.4	-0.1
Cement.....	13	22	17.0	1.1	0.7	3.5	2.6	0.9
Concrete products.....	13	3	14.5	1.0	1.0	1.2	0.5	0.7
Asphalt felts and coatings <sup>2</sup> .....	13	6	3.6	0.6	0.3	-2.4	-0.2	0.2
Paving mixtures and blocks.....	13	94	14.1	0.3	-0.7	-0.8	2.0	1.2
Motor vehicle parts <sup>2</sup> .....	14	12	2.8	-0.1	0.1	0.4	-0.2	0.3
Aircraft engines and engine parts.....	14	23	3.9	0.2	0.4	0.3	0.1	0.1

See footnotes at end of table.



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

Grouping	Commodity code		Unadjusted 12-month percent change <sup>1</sup>	Seasonally adjusted 1-month percent change <sup>1</sup>				
	Group code	Item code		Mar. 2022 to Mar. 2023 <sup>P</sup>	Oct. to Nov.	Nov. to Dec. <sup>P</sup>	Dec. to Jan. <sup>P</sup>	Jan. to Feb. <sup>P</sup>
Aircraft parts and auxiliary equipment, n.e.c.....	14	25	4.9	0.0	0.0	0.8	1.9	0.4
Medical, surgical, and personal aid devices.....	15	6	3.8	0.0	0.4	0.9	0.0	0.7
Unprocessed goods for intermediate demand.....	ID6	2	-17.0	-3.1	1.5	-4.7	-4.8	-5.0
Unprocessed foodstuffs and feedstuffs.....	ID6	21	-6.2	0.0	-0.2	-5.6	-1.0	-1.3
Wheat <sup>2</sup> .....	01	21	-28.4	-3.3	-7.2	-3.6	5.9	-9.4
Corn.....	01	2202	-12.0	-3.7	-3.6	-1.2	-0.2	-7.5
Slaughter cattle.....	01	31	16.3	1.4	1.2	1.2	-0.6	4.1
Slaughter hogs.....	01	32	-19.2	3.8	-0.1	-14.0	-0.1	-3.3
Slaughter chickens.....	01	4102	-14.0	-0.5	-6.3	-9.4	5.6	1.8
Slaughter turkeys.....	01	42	29.1	-1.3	6.1	2.3	-2.7	-0.9
Raw milk.....	01	6	-23.8	-3.7	-2.6	-2.9	-5.3	-9.6
Hay and hayseeds <sup>2</sup> .....	01	81	-2.4	-15.0	21.4	-11.0	10.5	-5.0
Oilseeds.....	01	8301	-8.9	3.2	0.0	-4.9	0.6	-4.3
Raw cane sugar and byproducts <sup>2</sup> .....	02	5201	17.0	0.3	1.1	3.2	1.3	2.3
Unprocessed nonfood materials.....	ID6	22	-22.5	-4.6	2.4	-4.2	-6.8	-7.1
Raw cotton <sup>2</sup> .....	01	51	-31.7	-4.5	-5.1	2.9	-2.4	-5.1
Hides and skins.....	04	1	-11.6	-7.0	-2.6	-4.7	0.3	4.5
Coal.....	05	1	22.7	-1.6	-7.5	2.8	-0.6	1.3
Natural gas <sup>2</sup> .....	05	31	-48.0	-12.5	30.7	-17.6	-37.8	-21.4
Crude petroleum <sup>2</sup> .....	05	61	-31.2	-2.4	-13.2	-1.2	4.2	-10.2
Logs, bolts, timber, pulpwood, and woodchips <sup>2</sup> .....	08	5	-0.7	0.0	0.8	-0.5	-0.9	-1.1
Recyclable paper <sup>2</sup> .....	09	12	-59.8	-23.9	10.1	-3.7	10.1	0.2
Iron ores <sup>2</sup> .....	10	11	12.6	1.5	-0.1	0.9	0.0	0.0
Iron and steel scrap.....	10	12	-21.8	-1.8	-6.8	1.3	11.2	4.1
Nonferrous metal ores <sup>2</sup> .....	10	21	-9.0	5.2	-0.6	5.8	-4.2	5.1
Copper base scrap <sup>2</sup> .....	10	2301	-8.9	9.1	2.1	2.8	1.1	0.3
Aluminum base scrap.....	10	2302	-27.2	0.7	5.9	0.0	-1.6	-0.3
Construction sand, gravel, and crushed stone.....	13	21	11.3	0.2	0.7	3.4	0.5	-0.1
Services for intermediate demand.....	ID6	3	4.2	0.8	0.0	0.9	0.3	-0.5
Trade services for intermediate demand <sup>3</sup> .....	ID6	33	-0.2	0.9	-1.2	0.6	-0.4	-0.5
Machinery and equipment parts and supplies wholesaling <sup>2</sup> .....	57	1102	1.5	2.1	-0.9	1.2	-1.1	0.2
Building materials, paint, and hardware wholesaling.....	57	3	-6.7	-1.2	1.2	-1.2	-2.9	-3.0
Metals, minerals, and ores wholesaling <sup>2</sup> .....	57	4	-5.3	-0.2	-6.2	15.2	1.7	-1.0
Chemicals and allied products wholesaling <sup>2</sup> .....	57	5	10.0	-0.4	-1.3	4.0	-3.3	0.7
Paper and plastics products wholesaling <sup>2</sup> .....	57	6	8.2	0.4	1.6	-1.8	0.5	-1.5
Food wholesaling <sup>2</sup> .....	57	8101	3.7	-0.4	-2.1	-0.6	-0.4	1.8
Automotive parts, including tires, retailing <sup>2</sup> .....	58	6102	12.9	2.2	0.2	1.4	-1.0	-1.3
Hardware, building material, and supplies retailing.....	58	D	-29.2	0.4	-6.8	-0.5	-5.8	-0.9
Transportation and warehousing services for intermediate demand.....	ID6	32	1.2	-1.3	0.0	0.3	-0.2	-0.9
Rail transportation of freight and mail <sup>2</sup> .....	30	11	6.2	0.8	-0.1	1.0	-1.0	-0.2
Truck transportation of freight <sup>2</sup> .....	30	12	-6.7	0.8	-1.4	-2.2	-0.9	-2.9
Water transportation of freight <sup>2</sup> .....	30	13	22.7	-0.2	-0.3	-2.3	1.3	-0.2
Air transportation of freight <sup>2</sup> .....	30	14	-4.3	-1.9	-1.7	1.1	0.2	-0.9
U.S. Postal Service <sup>2</sup> .....	30	1601	10.0	0.0	0.0	4.0	0.0	0.0
Courier and messenger services, except air mail.....	30	1602	5.3	0.8	0.5	-0.3	0.3	-0.2
Air mail and package delivery services, excluding by USPS.....	30	1603	6.7	1.1	-3.1	3.3	-0.1	-0.8
Pipeline transportation <sup>2</sup> .....	30	17	-	0.0	-1.3	0.3	1.2	0.0
Transportation of passengers (partial).....	30	2	11.7	-3.6	3.2	2.4	-1.5	1.3
Services related to water transportation.....	31	1	3.7	0.6	0.0	0.9	1.1	-0.9
Arrangement of freight and cargo <sup>2</sup> .....	31	31	-33.8	-14.4	2.0	-6.0	-2.7	-4.4
Warehousing, storage, and related services <sup>2</sup> .....	32	1	15.2	-0.3	1.7	2.3	2.1	-0.4
Services less trade, transportation, and warehousing for intermediate demand.....	ID6	31	6.4	1.2	0.4	1.1	0.6	-0.5
Network compensation from broadcast TV, cable TV, radio <sup>2</sup> .....	35	-	1.6	0.0	0.0	0.2	0.0	0.0
Advertising space sales in periodicals and newspapers <sup>2</sup> .....	36	11	2.0	-0.4	1.2	0.4	0.7	1.1
Advertising space sales in directories and mail lists <sup>2</sup> .....	36	12	9.8	0.0	0.0	5.3	0.0	0.0
Television advertising time sales.....	36	2	-16.6	6.6	-9.0	-1.5	-6.4	-3.6
Radio advertising time sales.....	36	3	-6.5	2.0	-2.5	-9.8	11.0	-1.7
Internet advertising sales <sup>2</sup> .....	36	6	-	-	-	-0.2	0.0	0.0
Business wired telecommunication services <sup>2</sup> .....	37	12	2.8	0.0	0.2	-0.1	1.2	0.1
Wireless telecommunication services.....	37	2	1.8	-0.1	0.1	0.0	0.3	0.1
Cable and satellite subscriber services.....	37	3	11.7	0.7	2.6	0.7	-0.3	1.9
Bundled wired telecommunication access services <sup>2</sup> .....	37	5	10.2	-0.3	-0.2	4.2	-0.4	1.4
Data processing and related services <sup>2</sup> .....	38	1	0.1	0.0	0.0	0.0	0.1	0.2
Business loans (partial).....	39	11	85.7	8.6	1.4	8.7	10.9	-5.9

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**  
 [March 2023]

Grouping	Commodity code		Unadjusted 12-month percent change <sup>1</sup>	Seasonally adjusted 1-month percent change <sup>1</sup>				
	Group code	Item code		Mar. 2022 to Mar. 2023 <sup>P</sup>	Oct. to Nov.	Nov. to Dec. <sup>P</sup>	Dec. to Jan. <sup>P</sup>	Jan. to Feb. <sup>P</sup>
Deposit services (partial) <sup>2</sup> .....	39	2	16.0	-0.9	15.2	-1.9	-2.6	3.0
Other credit intermediation, incl. trust services (partial) <sup>2</sup> .....	39	3	-5.2	-2.5	0.0	0.1	1.7	0.1
Securities brokerage, dealing, investment advice, and related services <sup>2</sup> .....	40	1	31.5	11.7	0.4	0.4	4.4	-0.2
Portfolio management <sup>2</sup> .....	40	2	-12.2	1.3	-0.9	4.2	-0.5	-4.5
Investment banking <sup>2</sup> .....	40	3	-3.5	-1.4	-1.4	0.3	2.1	3.0
Life insurance <sup>2</sup> .....	41	1101	0.1	0.1	-0.1	-0.4	0.0	0.0
Health and medical insurance.....	41	1103	1.1	0.1	0.2	-0.8	0.3	0.2
Property and casualty insurance <sup>2</sup> .....	41	1104	4.8	0.1	1.2	0.9	0.1	0.2
Annuities <sup>2</sup> .....	41	2	-1.5	-0.9	0.0	-0.1	0.0	0.0
Commissions from sales of insurance <sup>2</sup> .....	42	1	0.1	0.0	0.1	0.0	0.0	0.0
Nonresidential real estate rents <sup>2</sup> .....	43	11	2.5	-0.8	1.0	1.8	-4.2	-1.0
Nonresidential property sales and leases <sup>2</sup> .....	43	12	0.6	0.2	0.6	-0.6	-1.2	-0.6
Residential property management fees <sup>2</sup> .....	43	22	-0.2	0.6	-1.0	0.7	-0.5	-0.1
Passenger car rental.....	44	1	-4.4	-1.8	0.6	-2.5	-1.4	-1.1
Truck, utility trailer, and RV rental and leasing <sup>2</sup> .....	44	2	2.0	0.1	0.3	-0.7	-0.6	-0.2
Construction, mining, and forestry machinery and equipment rental and leasing <sup>2</sup> .....	44	3	7.8	0.1	0.1	1.4	0.0	0.0
Legal services.....	45	1	6.5	0.4	0.3	1.6	1.1	0.3
Accounting services (partial).....	45	2	5.9	-0.2	0.4	1.3	1.6	0.0
Architectural and engineering services.....	45	3	3.3	0.4	0.1	0.0	0.4	-0.1
Management, scientific, and technical consulting services.....	45	4	0.0	0.0	1.2	1.1	-1.3	0.1
Advertising and related services (partial) <sup>2</sup> .....	45	5	1.4	0.1	0.0	0.1	0.2	0.3
Permanent placement services <sup>2</sup> .....	46	1	1.5	-0.7	0.3	-0.1	-2.6	-0.1
Executive search services <sup>2</sup> .....	46	2	8.6	-0.6	-0.3	1.6	0.7	0.7
Staffing services.....	46	3	0.7	0.1	0.1	-0.1	-0.3	0.4
Security guard services <sup>2</sup> .....	48	1	7.9	0.0	0.0	1.1	0.1	0.1
Janitorial services <sup>2</sup> .....	49	1	3.0	-0.2	1.1	0.4	-0.1	0.3
Waste collection.....	50	1	12.5	0.6	0.7	1.3	1.6	1.1
Traveler accommodation services.....	53	11	2.4	2.4	1.9	-2.3	-3.4	4.1
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	8.6	0.7	0.5	-0.6	-0.4	1.2
Aircraft repair and maintenance.....	55	4	4.0	0.2	0.6	-0.5	1.8	0.4
Metal treatment services <sup>2</sup> .....	59	1	6.0	-0.1	-0.6	2.5	-0.1	0.1
Construction for intermediate demand.....	ID6	4	4.9	0.1	0.1	0.8	0.2	0.7
Maintenance and repair of non-residential buildings (partial) <sup>2</sup> .....	80	2	4.9	0.1	0.1	0.8	0.2	0.7
<b>Intermediate Demand by Production Flow</b>								
Stage 4 intermediate demand.....	ID5	4	3.2	0.4	-0.4	1.0	0.0	-0.5
Stage 4 intermediate demand goods.....	ID5	9411	2.1	-0.2	-0.7	0.8	-0.1	-0.5
Grains.....	01	2	-14.9	-3.2	-4.0	-1.6	0.8	-7.5
Meats.....	02	21	2.0	1.9	1.4	2.0	-0.9	2.0
Unprocessed and packaged fish.....	02	23	-4.0	-1.9	-1.9	0.7	-1.3	1.1
Dairy products.....	02	3	-3.9	-0.2	-0.3	-1.6	-2.1	-2.0
Commercial electric power.....	05	42	9.6	-0.8	1.8	2.0	1.7	-2.7
Industrial electric power.....	05	43	9.7	-1.8	2.8	6.9	-4.3	-0.1
Gasoline.....	05	71	-19.2	-5.1	-8.6	7.5	3.8	-11.7
No. 2 diesel fuel.....	05	7303	-19.4	-1.8	-27.5	11.0	-4.6	-6.5
Basic organic chemicals.....	06	14	-11.5	-1.3	-0.7	-0.4	-2.3	0.1
Prepared paint <sup>2</sup> .....	06	21	10.1	-1.0	0.3	0.0	-0.1	-0.1
Medicinal and botanical chemicals <sup>2</sup> .....	06	31	0.4	0.4	-0.2	0.4	-0.4	0.3
Biological products, including diagnostics.....	06	37	4.5	0.2	-0.1	1.1	0.8	0.2
Pharmaceutical preparations.....	06	38	2.6	0.1	-0.3	0.7	0.5	0.0
Plastic construction products <sup>2</sup> .....	07	21	3.0	-1.1	-0.3	-0.2	-0.5	-0.1
Unsupported plastic film, sheet, and other shapes <sup>2</sup> .....	07	22	0.8	0.6	-0.7	-1.2	-0.1	-1.5
Parts for manufacturing from plastics <sup>2</sup> .....	07	26	3.2	-0.1	0.5	-0.1	-1.3	-0.2
Plastic packaging products <sup>2</sup> .....	07	2A	1.8	-0.5	-0.4	-2.0	-0.7	-0.2
Lumber.....	08	1	-40.8	-2.5	-6.1	-3.6	-1.2	-3.0
Millwork.....	08	2	-0.7	-0.9	-0.5	-0.3	-0.1	-0.7
Paper boxes and containers <sup>2</sup> .....	09	1503	9.7	0.6	0.1	-0.1	0.2	-0.4
Commercial printing <sup>2</sup> .....	09	47	12.5	1.2	0.4	1.4	0.1	1.2
Steel mill products <sup>2</sup> .....	10	17	-15.1	-3.1	-3.4	-2.3	2.5	1.2
Nonferrous wire and cable <sup>2</sup> .....	10	26	4.2	4.1	0.6	2.7	2.0	-0.8
Fabricated structural metal products.....	10	7	2.0	-0.8	0.0	0.3	-0.2	0.8
Other miscellaneous metal products <sup>2</sup> .....	10	89	4.9	1.3	0.0	-0.1	1.1	-0.7
Air conditioning and refrigeration equipment.....	11	48	10.3	-0.2	0.7	-0.5	-0.2	1.2
Wiring devices <sup>2</sup> .....	11	71	17.3	1.1	0.1	8.3	0.3	0.5

See footnotes at end of table.



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

Grouping	Commodity code		Unadjusted 12-month percent change <sup>1</sup>	Seasonally adjusted 1-month percent change <sup>1</sup>				
	Group code	Item code		Mar. 2022 to Mar. 2023 <sup>P</sup>	Oct. to Nov.	Nov. to Dec. <sup>P</sup>	Dec. to Jan. <sup>P</sup>	Jan. to Feb. <sup>P</sup>
Electronic components and accessories.....	11	78	1.6	0.5	0.2	-0.6	-0.1	0.0
Miscellaneous electrical machinery and equipment <sup>2</sup> .....	11	79	5.1	0.3	0.1	0.7	-0.3	0.1
Internal combustion engines <sup>2</sup> .....	11	94	8.3	0.0	0.1	4.0	-0.1	-0.1
Machine shop products <sup>2</sup> .....	11	95	7.2	0.3	-0.2	0.1	0.5	0.1
Concrete ingredients and related products.....	13	2	12.8	0.5	0.7	3.4	1.1	0.2
Concrete products.....	13	3	14.5	1.0	1.0	1.2	0.5	0.7
Prepared asphalt, tar roofing and siding products <sup>2</sup> .....	13	61	3.1	0.7	0.4	-3.1	-0.3	0.1
Paving mixtures and blocks.....	13	94	14.1	0.3	-0.7	-0.8	2.0	1.2
Motor vehicle parts <sup>2</sup> .....	14	12	2.8	-0.1	0.1	0.4	-0.2	0.3
Aircraft engines and engine parts.....	14	23	3.9	0.2	0.4	0.3	0.1	0.1
Aircraft parts and auxiliary equipment, n.e.c.....	14	25	4.9	0.0	0.0	0.8	1.9	0.4
Medical, surgical and personal aid devices.....	15	6	3.8	0.0	0.4	0.9	0.0	0.7
Stage 4 intermediate demand services.....	ID5	9412	4.2	1.0	0.0	1.2	0.1	-0.5
Truck transportation of freight <sup>2</sup> .....	30	12	-6.7	0.8	-1.4	-2.2	-0.9	-2.9
Courier, messenger, and U.S. postal services.....	30	16	7.8	0.5	-0.4	2.2	0.1	-0.3
Airline passenger services.....	30	22	11.8	-3.6	3.2	2.5	-1.5	1.3
Warehousing, storage, and related services <sup>2</sup> .....	32	1	15.2	-0.3	1.7	2.3	2.1	-0.4
Advertising space sales in periodicals and newspapers <sup>2</sup> .....	36	11	2.0	-0.4	1.2	0.4	0.7	1.1
Data processing and related services <sup>2</sup> .....	38	1	0.1	0.0	0.0	0.0	0.1	0.2
Business loans (partial).....	39	11	85.7	8.6	1.4	8.7	10.9	-5.9
Deposit services (partial) <sup>2</sup> .....	39	2	16.0	-0.9	15.2	-1.9	-2.6	3.0
Securities brokerage, dealing, investment advice, and related services <sup>2</sup> .....	40	1	31.5	11.7	0.4	0.4	4.4	-0.2
Portfolio management <sup>2</sup> .....	40	2	-12.2	1.3	-0.9	4.2	-0.5	-4.5
Investment banking <sup>2</sup> .....	40	3	-3.5	-1.4	-1.4	0.3	2.1	3.0
Insurance.....	41	11	2.8	0.1	0.6	0.2	0.2	0.2
Annuities <sup>2</sup> .....	41	2	-1.5	-0.9	0.0	-0.1	0.0	0.0
Nonresidential real estate rents <sup>2</sup> .....	43	11	2.5	-0.8	1.0	1.8	-4.2	-1.0
Nonresidential property sales and leases <sup>2</sup> .....	43	12	0.6	0.2	0.6	-0.6	-1.2	-0.6
Nonresidential property management fees <sup>2</sup> .....	43	13	5.5	0.0	0.4	0.6	0.1	0.2
Residential property management fees <sup>2</sup> .....	43	22	-0.2	0.6	-1.0	0.7	-0.5	-0.1
Construction, mining, and forestry machinery and equipment rental and leasing <sup>2</sup> .....	44	3	7.8	0.1	0.1	1.4	0.0	0.0
Legal services.....	45	1	6.5	0.4	0.3	1.6	1.1	0.3
Advertising agency services <sup>2</sup> .....	45	51	1.4	0.1	0.0	0.1	0.2	0.3
Accounting services (partial).....	45	2	5.9	-0.2	0.4	1.3	1.6	0.0
Architectural and engineering services.....	45	3	3.3	0.4	0.1	0.0	0.4	-0.1
Management, scientific, and technical consulting services.....	45	4	0.0	0.0	1.2	1.1	-1.3	0.1
Staffing services.....	46	3	0.7	0.1	0.1	-0.1	-0.3	0.4
Janitorial services <sup>2</sup> .....	49	1	3.0	-0.2	1.1	0.4	-0.1	0.3
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	8.6	0.7	0.5	-0.6	-0.4	1.2
Machinery and equipment parts and supplies wholesaling <sup>2</sup> .....	57	1102	1.5	2.1	-0.9	1.2	-1.1	0.2
Building materials, paint, and hardware wholesaling.....	57	3	-6.7	-1.2	1.2	-1.2	-2.9	-3.0
Metals, minerals, and ores wholesaling <sup>2</sup> .....	57	4	-5.3	-0.2	-6.2	15.2	1.7	-1.0
Chemicals and allied products wholesaling <sup>2</sup> .....	57	5	10.0	-0.4	-1.3	4.0	-3.3	0.7
Paper and plastics products wholesaling <sup>2</sup> .....	57	6	8.2	0.4	1.6	-1.8	0.5	-1.5
Food and alcohol wholesaling <sup>2</sup> .....	57	8	5.0	-0.2	-1.8	-0.4	-0.3	1.4
Hardware and building materials and supplies retailing.....	58	D	-29.2	0.4	-6.8	-0.5	-5.8	-0.9
Metal treatment services <sup>2</sup> .....	59	1	6.0	-0.1	-0.6	2.5	-0.1	0.1
Stage 3 intermediate demand.....	ID5	3	-1.7	-0.4	-2.0	0.2	-0.2	-1.0
Stage 3 intermediate demand goods.....	ID5	9311	-6.0	-1.1	-3.8	-0.4	-0.6	-1.3
Slaughter cattle.....	01	31	16.3	1.4	1.2	1.2	-0.6	4.1
Slaughter hogs.....	01	32	-19.2	3.8	-0.1	-14.0	-0.1	-3.3
Slaughter poultry.....	01	4	-7.7	-0.6	-4.0	-7.1	4.0	1.3
Raw milk.....	01	6	-23.8	-3.7	-2.6	-2.9	-5.3	-9.6
Commercial electric power.....	05	42	9.6	-0.8	1.8	2.0	1.7	-2.7
Industrial electric power.....	05	43	9.7	-1.8	2.8	6.9	-4.3	-0.1
Gasoline.....	05	71	-19.2	-5.1	-8.6	7.5	3.8	-11.7
Jet fuel <sup>2</sup> .....	05	7203	-8.5	-2.2	-15.8	14.0	-0.6	-7.7
No. 2 diesel fuel.....	05	7303	-19.4	-1.8	-27.5	11.0	-4.6	-6.5
Finished lubricants <sup>2</sup> .....	05	76	20.1	0.3	0.0	-0.5	0.2	0.1
Lubricating oil base stocks <sup>2</sup> .....	05	78	-7.3	-4.1	6.8	-20.5	-5.0	-7.1
Asphalt.....	05	8102	-23.4	-6.3	-31.5	2.9	-2.9	3.4
Basic inorganic chemicals <sup>2</sup> .....	06	13	17.6	-1.3	0.1	2.0	0.0	-0.1
Basic organic chemicals.....	06	14	-11.5	-1.3	-0.7	-0.4	-2.3	0.1
Paints and allied products <sup>2</sup> .....	06	2	11.6	-0.1	0.3	0.3	0.0	0.0

See footnotes at end of table.

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

Grouping	Commodity code		Unadjusted 12-month percent change <sup>1</sup>	Seasonally adjusted 1-month percent change <sup>1</sup>				
	Group code	Item code		Mar. 2022 to Mar. 2023 <sup>P</sup>	Oct. to Nov.	Nov. to Dec. <sup>P</sup>	Dec. to Jan. <sup>P</sup>	Jan. to Feb. <sup>P</sup>
Agricultural chemicals and chemical products.....	06	5	-6.9	0.9	-3.4	-1.5	-3.4	-3.1
Plastic resins and materials.....	06	6	-6.2	-4.1	0.4	-0.8	1.4	0.5
Synthetic rubber <sup>2</sup> .....	07	1102	-4.4	-3.6	-4.5	-2.5	-0.2	-1.3
Unsupported plastic film, sheet, and other shapes <sup>2</sup> .....	07	22	0.8	0.6	-0.7	-1.2	-0.1	-1.5
Paper <sup>2</sup> .....	09	13	6.6	-0.4	0.2	-0.3	0.7	-0.7
Paperboard <sup>2</sup> .....	09	14	4.2	0.3	-0.5	-0.5	-1.0	-0.9
Converted paper and paperboard products <sup>2</sup> .....	09	15	9.6	0.7	0.3	0.2	0.1	-0.3
Commercial printing <sup>2</sup> .....	09	47	12.5	1.2	0.4	1.4	0.1	1.2
Foundry and forge shop products <sup>2</sup> .....	10	15	5.7	-0.1	0.2	1.5	0.6	0.0
Steel mill products <sup>2</sup> .....	10	17	-15.1	-3.1	-3.4	-2.3	2.5	1.2
Nonferrous mill shapes <sup>2</sup> .....	10	25	-7.5	1.2	0.8	3.1	1.9	-0.2
Nonferrous foundry shop products.....	10	28	8.0	1.3	0.4	-0.3	0.8	-0.3
Metal containers <sup>2</sup> .....	10	3	3.7	-0.4	0.0	-1.8	-0.4	0.0
Structural, architectural, and pre-engineered metal products.....	10	74	-0.4	-1.3	-0.1	0.8	0.0	1.3
Bolts, nuts, screws, rivets, and washers <sup>2</sup> .....	10	81	12.5	-0.6	0.1	1.0	0.6	0.4
Other miscellaneous metal products <sup>2</sup> .....	10	89	4.9	1.3	0.0	-0.1	1.1	-0.7
General purpose machinery and equipment.....	11	4	10.0	0.7	0.4	0.7	0.2	0.6
Electrical machinery and equipment.....	11	7	5.0	0.4	0.4	0.6	-0.1	0.2
Construction sand, gravel, and crushed stone.....	13	21	11.3	0.2	0.7	3.4	0.5	-0.1
Cement.....	13	22	17.0	1.1	0.7	3.5	2.6	0.9
Motor vehicle parts <sup>2</sup> .....	14	12	2.8	-0.1	0.1	0.4	-0.2	0.3
Aircraft and aircraft equipment.....	14	2	4.3	0.2	0.3	0.4	0.6	0.4
Stage 3 intermediate demand services.....	ID5	9312	3.0	0.3	0.0	0.8	0.1	-0.7
Rail transportation of freight and mail <sup>2</sup> .....	30	11	6.2	0.8	-0.1	1.0	-1.0	-0.2
Courier, messenger, and U.S. postal services.....	30	16	7.8	0.5	-0.4	2.2	0.1	-0.3
Arrangement of freight and cargo <sup>2</sup> .....	31	31	-33.8	-14.4	2.0	-6.0	-2.7	-4.4
Freight forwarding <sup>2</sup> .....	31	3201	-0.8	-3.4	0.0	0.0	-0.1	-0.4
Warehousing, storage, and related services <sup>2</sup> .....	32	1	15.2	-0.3	1.7	2.3	2.1	-0.4
Advertising space sales in periodicals, newspapers, directories, and mailing lists <sup>2</sup> .....	36	1	3.2	-0.3	1.0	1.1	0.6	0.9
Wired telephone services <sup>2</sup> .....	37	1	2.9	0.0	0.1	0.0	0.7	0.2
Bundled wired telecommunications access services <sup>2</sup> .....	37	5	10.2	-0.3	-0.2	4.2	-0.4	1.4
Data processing and related services <sup>2</sup> .....	38	1	0.1	0.0	0.0	0.0	0.1	0.2
Business loans (partial).....	39	11	85.7	8.6	1.4	8.7	10.9	-5.9
Deposit services (partial) <sup>2</sup> .....	39	2	16.0	-0.9	15.2	-1.9	-2.6	3.0
Securities brokerage, dealing, investment advice, and related services <sup>2</sup> .....	40	1	31.5	11.7	0.4	0.4	4.4	-0.2
Insurance.....	41	11	2.8	0.1	0.6	0.2	0.2	0.2
Nonresidential real estate rents <sup>2</sup> .....	43	11	2.5	-0.8	1.0	1.8	-4.2	-1.0
Legal services.....	45	1	6.5	0.4	0.3	1.6	1.1	0.3
Accounting services (partial).....	45	2	5.9	-0.2	0.4	1.3	1.6	0.0
Architectural and engineering services.....	45	3	3.3	0.4	0.1	0.0	0.4	-0.1
Management, scientific, and technical consulting services.....	45	4	0.0	0.0	1.2	1.1	-1.3	0.1
Advertising agency services <sup>2</sup> .....	45	51	1.4	0.1	0.0	0.1	0.2	0.3
Staffing services.....	46	3	0.7	0.1	0.1	-0.1	-0.3	0.4
Aircraft repair maintenance.....	55	4	4.0	0.2	0.6	-0.5	1.8	0.4
Machinery and equipment parts and supplies wholesaling <sup>2</sup> .....	57	1102	1.5	2.1	-0.9	1.2	-1.1	0.2
Building materials, paint, and hardware wholesaling.....	57	3	-6.7	-1.2	1.2	-1.2	-2.9	-3.0
Metals, minerals, and ores wholesaling <sup>2</sup> .....	57	4	-5.3	-0.2	-6.2	15.2	1.7	-1.0
Chemicals and allied products wholesaling <sup>2</sup> .....	57	5	10.0	-0.4	-1.3	4.0	-3.3	0.7
Paper and plastics products wholesaling <sup>2</sup> .....	57	6	8.2	0.4	1.6	-1.8	0.5	-1.5
Food wholesaling <sup>2</sup> .....	57	8101	3.7	-0.4	-2.1	-0.6	-0.4	1.8
Metal treatment services <sup>2</sup> .....	59	1	6.0	-0.1	-0.6	2.5	-0.1	0.1
Stage 2 intermediate demand.....	ID5	2	-4.0	-1.0	1.0	-1.1	-1.4	-2.7
Stage 2 intermediate demand goods.....	ID5	9211	-15.1	-2.9	1.6	-3.2	-4.7	-5.2
Corn.....	01	2202	-12.0	-3.7	-3.6	-1.2	-0.2	-7.5
Oilseeds.....	01	83	-8.9	3.2	0.0	-4.9	0.6	-4.3
Prepared animal feeds.....	02	9	5.3	0.6	0.0	-0.8	-1.8	0.0
Coal.....	05	1	22.7	-1.6	-7.5	2.8	-0.6	1.3
Natural gas <sup>2</sup> .....	05	31	-48.0	-12.5	30.7	-17.6	-37.8	-21.4
Liquefied petroleum gas <sup>2</sup> .....	05	32	-48.9	1.0	-14.6	0.6	1.6	-9.3
Crude petroleum <sup>2</sup> .....	05	61	-31.2	-2.4	-13.2	-1.2	4.2	-10.2
No. 2 diesel fuel.....	05	7303	-19.4	-1.8	-27.5	11.0	-4.6	-6.5
Industrial chemicals.....	06	1	-7.6	-1.3	-0.6	0.1	-1.8	0.0
Plastic resins and materials.....	06	6	-6.2	-4.1	0.4	-0.8	1.4	0.5
Plastic products <sup>2</sup> .....	07	2	3.0	-0.2	-0.2	-0.6	-0.4	-0.3
Logs, bolts, timber, pulpwood, and wood chips <sup>2</sup> .....	08	5	-0.7	0.0	0.8	-0.5	-0.9	-1.1

See footnotes at end of table.

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

Grouping	Commodity code		Unadjusted 12-month percent change <sup>1</sup>	Seasonally adjusted 1-month percent change <sup>1</sup>				
	Group code	Item code		Mar. 2022 to Mar. 2023 <sup>P</sup>	Oct. to Nov.	Nov. to Dec. <sup>P</sup>	Dec. to Jan. <sup>P</sup>	Jan. to Feb. <sup>P</sup>
Paper <sup>2</sup> .....	09	13	6.6	-0.4	0.2	-0.3	0.7	-0.7
Paperboard, excluding corrugated paperboard <sup>2</sup> .....	09	1411	5.1	0.3	-0.4	-0.4	-1.0	-0.1
Commercial printing <sup>2</sup> .....	09	47	12.5	1.2	0.4	1.4	0.1	1.2
Iron and steel scrap.....	10	12	-21.8	-1.8	-6.8	1.3	11.2	4.1
Steel mill products <sup>2</sup> .....	10	17	-15.1	-3.1	-3.4	-2.3	2.5	1.2
Nonferrous mill shapes <sup>2</sup> .....	10	25	-7.5	1.2	0.8	3.1	1.9	-0.2
Electrical machinery and equipment.....	11	7	5.0	0.4	0.4	0.6	-0.1	0.2
Electronic components and accessories.....	11	78	1.6	0.5	0.2	-0.6	-0.1	0.0
Stage 2 intermediate demand services.....	ID5	9212	7.0	0.8	0.6	0.8	1.3	-0.8
Rail transportation of freight and mail <sup>2</sup> .....	30	11	6.2	0.8	-0.1	1.0	-1.0	-0.2
Truck transportation of freight <sup>2</sup> .....	30	12	-6.7	0.8	-1.4	-2.2	-0.9	-2.9
U.S. Postal Service <sup>2</sup> .....	30	1601	10.0	0.0	0.0	4.0	0.0	0.0
Courier and messenger services, except air.....	30	1602	5.3	0.8	0.5	-0.3	0.3	-0.2
Air mail and package delivery services, excluding by USPS.....	30	1603	6.7	1.1	-3.1	3.3	-0.1	-0.8
Pipeline transportation <sup>2</sup> .....	30	17	-	0.0	-1.3	0.3	1.2	0.0
Airline passenger services.....	30	22	11.8	-3.6	3.2	2.5	-1.5	1.3
Arrangement of freight and cargo <sup>2</sup> .....	31	31	-33.8	-14.4	2.0	-6.0	-2.7	-4.4
Television advertising time sales.....	36	21	-16.6	6.6	-9.0	-1.5	-6.4	-3.6
Wireless telecommunication services.....	37	2	1.8	-0.1	0.1	0.0	0.3	0.1
Data processing and related services <sup>2</sup> .....	38	1	0.1	0.0	0.0	0.0	0.1	0.2
Securities brokerage, dealing, investment advice, and related services <sup>2</sup> .....	40	1	31.5	11.7	0.4	0.4	4.4	-0.2
Portfolio management <sup>2</sup> .....	40	2	-12.2	1.3	-0.9	4.2	-0.5	-4.5
Investment banking <sup>2</sup> .....	40	31	-3.5	-1.4	-1.4	0.3	2.1	3.0
Insurance.....	41	11	2.8	0.1	0.6	0.2	0.2	0.2
Commissions from sales of insurance <sup>2</sup> .....	42	11	0.1	0.0	0.1	0.0	0.0	0.0
Legal services.....	45	1	6.5	0.4	0.3	1.6	1.1	0.3
Accounting services (partial).....	45	2	5.9	-0.2	0.4	1.3	1.6	0.0
Management, scientific, and technical consulting services.....	45	4	0.0	0.0	1.2	1.1	-1.3	0.1
Advertising agency services <sup>2</sup> .....	45	51	1.4	0.1	0.0	0.1	0.2	0.3
Staffing services.....	46	3	0.7	0.1	0.1	-0.1	-0.3	0.4
Security guard services <sup>2</sup> .....	48	1	7.9	0.0	0.0	1.1	0.1	0.1
Janitorial services <sup>2</sup> .....	49	1	3.0	-0.2	1.1	0.4	-0.1	0.3
Traveler accommodation services.....	53	1	2.4	2.4	1.9	-2.3	-3.4	4.1
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	8.6	0.7	0.5	-0.6	-0.4	1.2
Hardware and building materials and supplies retailing.....	58	D	-29.2	0.4	-6.8	-0.5	-5.8	-0.9
Stage 1 intermediate demand.....	ID5	1	0.4	0.1	-1.8	0.8	-0.4	-0.7
Stage 1 intermediate demand goods.....	ID5	9111	-1.7	-0.6	-3.0	0.9	-0.6	-1.2
Prepared animal feeds.....	02	9	5.3	0.6	0.0	-0.8	-1.8	0.0
Commercial electric power.....	05	42	9.6	-0.8	1.8	2.0	1.7	-2.7
Industrial electric power.....	05	43	9.7	-1.8	2.8	6.9	-4.3	-0.1
Commercial natural gas.....	05	52	7.3	-4.4	3.3	12.3	-11.4	-9.7
Industrial natural gas.....	05	53	12.5	-1.7	4.5	7.2	-9.8	-6.1
Gasoline.....	05	71	-19.2	-5.1	-8.6	7.5	3.8	-11.7
No. 2 diesel fuel.....	05	7303	-19.4	-1.8	-27.5	11.0	-4.6	-6.5
Industrial chemicals.....	06	1	-7.6	-1.3	-0.6	0.1	-1.8	0.0
Prepared paint <sup>2</sup> .....	06	21	10.1	-1.0	0.3	0.0	-0.1	-0.1
Plastic construction products <sup>2</sup> .....	07	21	3.0	-1.1	-0.3	-0.2	-0.5	-0.1
Recyclable paper <sup>2</sup> .....	09	12	-59.8	-23.9	10.1	-3.7	10.1	0.2
Paper <sup>2</sup> .....	09	13	6.6	-0.4	0.2	-0.3	0.7	-0.7
Converted paper and paperboard products <sup>2</sup> .....	09	15	9.6	0.7	0.3	0.2	0.1	-0.3
Iron and steel scrap.....	10	12	-21.8	-1.8	-6.8	1.3	11.2	4.1
Steel mill products <sup>2</sup> .....	10	17	-15.1	-3.1	-3.4	-2.3	2.5	1.2
Primary nonferrous metals <sup>2</sup> .....	10	22	-20.3	5.9	1.6	3.1	0.8	-5.2
Nonferrous scrap.....	10	23	-23.5	1.8	1.3	-0.2	-3.2	-1.2
Nonferrous wire and cable <sup>2</sup> .....	10	26	4.2	4.1	0.6	2.7	2.0	-0.8
Fabricated structural metal products.....	10	7	2.0	-0.8	0.0	0.3	-0.2	0.8
General purpose machinery and equipment.....	11	4	10.0	0.7	0.4	0.7	0.2	0.6
Construction sand, gravel, and crushed stone.....	13	21	11.3	0.2	0.7	3.4	0.5	-0.1
Stage 1 intermediate demand services.....	ID5	9112	2.5	0.9	-0.4	0.7	-0.2	-0.2
Truck transportation of freight <sup>2</sup> .....	30	12	-6.7	0.8	-1.4	-2.2	-0.9	-2.9
Airline passenger services.....	30	22	11.8	-3.6	3.2	2.5	-1.5	1.3
Advertising space sales in periodicals, newspapers, directories, and mailing lists <sup>2</sup> .....	36	1	3.2	-0.3	1.0	1.1	0.6	0.9
Business wired telecommunication services <sup>2</sup> .....	37	12	2.8	0.0	0.2	-0.1	1.2	0.1
Wireless telecommunication services.....	37	2	1.8	-0.1	0.1	0.0	0.3	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**  
 [March 2023]

Grouping	Commodity code		Unadjusted 12-month percent change <sup>1</sup>	Seasonally adjusted 1-month percent change <sup>1</sup>				
	Group code	Item code		Mar. 2022 to Mar. 2023 <sup>p</sup>	Oct. to Nov.	Nov. to Dec. <sup>p</sup>	Dec. to Jan. <sup>p</sup>	Jan. to Feb. <sup>p</sup>
Bundled wired telecommunications access services <sup>2</sup> .....	37	5	10.2	-0.3	-0.2	4.2	-0.4	1.4
Business loans (partial).....	39	11	85.7	8.6	1.4	8.7	10.9	-5.9
Deposit services (partial) <sup>2</sup> .....	39	2	16.0	-0.9	15.2	-1.9	-2.6	3.0
Securities brokerage, dealing, investment advice, and related services <sup>2</sup> .....	40	1	31.5	11.7	0.4	0.4	4.4	-0.2
Portfolio management <sup>2</sup> .....	40	2	-12.2	1.3	-0.9	4.2	-0.5	-4.5
Investment banking <sup>2</sup> .....	40	3	-3.5	-1.4	-1.4	0.3	2.1	3.0
Insurance.....	41	11	2.8	0.1	0.6	0.2	0.2	0.2
Nonresidential real estate rents <sup>2</sup> .....	43	11	2.5	-0.8	1.0	1.8	-4.2	-1.0
Architectural and engineering services.....	45	3	3.3	0.4	0.1	0.0	0.4	-0.1
Management consulting services.....	45	41	0.0	0.0	1.2	1.1	-1.3	0.1
Waste collection.....	50	1	12.5	0.6	0.7	1.3	1.6	1.1
Traveler accommodation services.....	53	11	2.4	2.4	1.9	-2.3	-3.4	4.1
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	8.6	0.7	0.5	-0.6	-0.4	1.2
Machinery and equipment parts and supplies wholesaling <sup>2</sup> .....	57	1102	1.5	2.1	-0.9	1.2	-1.1	0.2
Building materials, paint, and hardware wholesaling.....	57	3	-6.7	-1.2	1.2	-1.2	-2.9	-3.0
Metals, minerals, and ores wholesaling <sup>2</sup> .....	57	4	-5.3	-0.2	-6.2	15.2	1.7	-1.0
Chemicals and allied products wholesaling <sup>2</sup> .....	57	5	10.0	-0.4	-1.3	4.0	-3.3	0.7
Paper and plastics products wholesaling <sup>2</sup> .....	57	6	8.2	0.4	1.6	-1.8	0.5	-1.5
Hardware and building materials and supplies retailing.....	58	D	-29.2	0.4	-6.8	-0.5	-5.8	-0.9
Mining services <sup>2</sup> .....	60	1	8.0	0.4	0.3	0.5	0.6	0.1

<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**  
 [March 2023, Index base Nov. 2009=100, unless otherwise indicated]

Grouping	Other index base	Commodity code		Seasonally adjusted index <sup>1</sup>				
		Group code	Item code	Nov. 2022	Dec. 2022 <sup>p</sup>	Jan. 2023 <sup>p</sup>	Feb. 2023 <sup>p</sup>	Mar. 2023 <sup>p</sup>
<b>Final Demand</b>								
Final demand.....		FD	4	141.175	140.963	141.573	141.568	140.865
Final demand goods.....		FD	41	145.193	143.193	144.990	144.542	143.031
Final demand foods.....		FD	411	158.287	156.907	154.929	151.459	152.386
Finished consumer foods <sup>2</sup> .....	00/82	FD	4111	278.243	275.965	272.550	265.597	268.641
Finished consumer foods, crude.....	00/82	FD	411113	426.706	422.926	352.874	286.819	305.093
Finished consumer foods, processed.....	00/82	FD	411112	262.901	260.778	263.697	262.396	263.978
Government purchased foods.....		FD	4112	154.652	154.292	154.217	152.025	152.615
Foods for export.....		FD	4113	165.588	163.254	160.076	158.158	155.604
Final demand energy.....		FD	412	155.464	145.642	153.597	153.109	143.236
Finished consumer energy goods <sup>2</sup> .....	00/82	FD	4121	235.023	224.487	236.921	237.734	222.061
Government purchased energy.....		FD	4122	185.758	162.157	174.015	170.080	159.490
Energy for export.....		FD	4123	168.117	148.104	150.769	145.993	138.205
Final demand goods less foods and energy.....		FD	413	138.709	138.822	139.652	140.062	140.469
Finished goods less foods and energy <sup>2</sup> .....	00/82	FD	4131	242.156	242.679	244.385	245.195	246.060
Finished consumer goods less foods and energy.....	00/82	FD	41311	269.652	270.021	271.820	273.037	273.752
Nondurable consumer goods less foods and energy.....	00/82	FD	413111	347.817	348.019	350.789	353.073	354.143
Durable consumer goods.....	00/82	FD	413112	188.973	189.491	190.450	190.715	191.095
Private capital equipment.....	00/82	FD	41312	207.428	208.063	209.611	210.029	210.988
Private capital equipment for manufacturing industries.....	00/82	FD	413121	221.084	221.799	223.824	224.581	225.635
Private capital equipment for nonmanufacturing industries.....	00/82	FD	413122	203.341	203.954	205.356	205.673	206.604
Government purchased goods, excluding foods and energy.....		FD	4132	135.663	135.886	136.281	136.257	136.571
Government purchased goods excluding foods, energy, and capital equipment.....		FD	41321	145.659	145.838	146.406	146.201	146.519
Government purchased capital equipment.....		FD	41322	121.171	121.446	121.628	121.822	122.125
Goods for export, excluding foods and energy.....		FD	4133	136.556	136.303	137.000	137.448	137.722
Final demand services.....		FD	42	138.079	138.769	138.819	139.011	138.640
Final demand trade services <sup>3</sup> .....		FD	423	152.166	153.720	152.036	151.999	150.687
Trade of finished goods <sup>2</sup> .....		FD	4231	150.799	152.358	150.531	150.647	149.531
Trade of personal consumption goods.....		FD	42311	150.008	150.882	149.418	150.001	149.430
Trade of private capital equipment.....		FD	42312	152.592	157.141	153.619	151.576	147.951
Trade of government purchased goods.....		FD	4232	161.204	163.500	161.261	160.717	157.583
Trade of government purchased goods, excluding capital equipment.....		FD	42321	164.996	163.513	162.272	162.716	162.266
Trade of government purchased capital equipment.....		FD	42322	153.954	161.968	158.128	155.990	148.538
Trade of exports.....		FD	4233	161.520	162.764	162.601	161.291	158.830
Final demand transportation and warehousing services.....		FD	422	156.445	156.428	155.682	154.259	152.194
Transportation of passengers for final demand.....		FD	4221	132.390	136.639	139.985	137.847	139.685
Transportation of private passengers.....		FD	42211	132.400	136.638	139.977	137.844	139.678
Transportation of government passengers.....		FD	42212	132.214	136.405	139.715	137.602	139.421
Transportation of passengers for export.....		FD	42213	132.358	136.654	140.027	137.870	139.723
Transportation and warehousing of goods for final demand.....		FD	4222	165.131	163.250	160.941	159.807	156.222
Transportation and warehousing of finished goods <sup>2</sup> .....		FD	42221	164.061	162.121	159.547	158.296	154.513
Transportation and warehousing of personal consumption goods.....		FD	422211	164.226	162.309	159.860	158.643	154.920
Transportation and warehousing of private capital equipment.....		FD	422212	163.401	161.371	158.283	156.896	152.865
Transportation and warehousing of government purchased goods.....		FD	42222	161.357	159.940	158.469	157.742	154.698
Transportation and warehousing of exports.....		FD	42223	169.637	167.777	165.873	164.916	161.649
Final demand services less trade, transportation, and warehousing.....		FD	421	129.880	130.243	131.073	131.524	131.705
Finished services less trade, transportation, and warehousing <sup>2</sup> .....		FD	4211	130.359	130.718	131.439	131.808	132.081
Finished consumer services less trade, transportation, and warehousing.....		FD	42111	129.650	130.017	130.783	131.210	131.535
Private capital investment services less trade, transportation, and warehousing.....		FD	42112	136.966	137.252	137.647	137.574	137.440
Government purchased services less trade, transportation, and warehousing.....		FD	4212	121.047	121.244	122.232	122.424	122.288
Gov. purchased services less trade, transportation, and warehousing, excl. capital investment.....		FD	42121	121.628	121.819	122.778	122.945	122.802
Government purchased capital investment services less trade, transportation, and warehousing.....		FD	42122	106.756	107.085	108.520	109.052	109.017
Services for export less trade, transportation, and warehousing.....		FD	4213	133.835	134.439	136.675	138.618	137.839
Final demand construction.....		FD	43	173.226	173.302	176.489	176.543	176.911
Construction for private capital investment.....		FD	431	177.358	177.488	180.802	180.832	181.172
Construction for government.....		FD	432	165.506	165.487	168.421	168.527	168.955
<b>Final Demand Special Groupings</b>								
Final demand less exports.....	04/10	FD	49101	138.658	138.511	139.107	139.094	138.439
Final demand less government.....	04/10	FD	49102	139.036	138.990	139.491	139.529	138.889
Final demand less foods, food and nonalcoholic beverages for immediate consumption, and energy <sup>1</sup> .....	04/10	FD	49103	137.760	138.314	138.594	138.845	138.655
Final demand less foods and energy <sup>4</sup> .....	04/10	FD	49104	137.429	137.963	138.258	138.491	138.307
Final demand less foods and food and nonalcoholic beverages for immediate consumption <sup>4</sup> .....	04/10	FD	49105	138.545	138.387	139.148	139.350	138.525

See footnotes at end of table.

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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index <sup>1</sup>				
		Group code	Item code	Nov. 2022	Dec. 2022 <sup>P</sup>	Jan. 2023 <sup>P</sup>	Feb. 2023 <sup>P</sup>	Mar. 2023 <sup>P</sup>
Final demand less foods <sup>4</sup> .....	04/10	FD	49106	138.128	137.988	138.732	138.920	138.137
Final demand less energy.....	04/10	FD	49107	138.360	138.782	138.948	138.972	138.851
Final demand less trade services.....	01/10	FD	49108	137.038	136.407	137.496	137.498	136.935
Final demand less distributive services <sup>5</sup> .....	01/10	FD	49109	136.001	135.416	136.656	136.706	136.272
Final demand goods less energy.....	01/10	FD	49111	141.455	141.265	141.488	141.052	141.568
Final demand goods less foods.....	04/10	FD	49112	139.291	137.217	139.775	139.968	137.981
Final demand services less trade services.....	04/10	FD	49113	131.227	131.552	132.228	132.499	132.468
Final demand distributive services <sup>5</sup> .....	04/10	FD	49114	151.038	152.125	150.367	150.160	148.522
Final demand goods plus final demand distributive services <sup>5</sup> .....	04/10	FD	49115	145.574	144.829	145.118	144.776	143.235
Final demand less foods, energy, and trade services <sup>4</sup> .....	08/13	FD	49116	125.941	126.180	126.929	127.213	127.305
Private and government purchased capital equipment.....	08/13	FD	49117	125.174	125.544	126.376	126.621	127.162
Private and government purchased capital investment services.....	08/13	FD	49118	133.374	135.392	134.246	133.438	131.799
Total private and government purchased capital investment.....	08/13	FD	49119	132.918	134.048	134.179	133.878	133.315
Total finished <sup>2</sup> .....	01/10	FD	49201	139.398	139.448	139.931	139.969	139.374
Total finished less foods, food and nonalcoholic beverages for immediate consumption, and energy <sup>2, 4</sup> .....	12/10	FD	49202	137.074	137.697	137.863	138.095	137.984
Total finished less foods and energy <sup>2, 4</sup> .....	01/10	FD	49203	137.898	138.514	138.689	138.926	138.816
Total finished less foods and food and nonalcoholic beverages for immediate consumption <sup>2, 4</sup> .....	12/10	FD	49204	137.118	137.248	137.847	138.095	137.376
Total finished less foods <sup>2, 4</sup> .....	01/10	FD	49205	138.482	138.609	139.222	139.476	138.755
Total finished less energy <sup>2</sup> .....	01/10	FD	49206	138.917	139.422	139.480	139.489	139.480
Finished goods <sup>2</sup> .....	00/82	FD	49207	256.935	254.038	257.733	256.954	253.876
Finished goods less energy <sup>2</sup> .....	00/82	FD	49208	250.986	250.792	251.125	249.837	251.287
Finished goods, excluding foods <sup>2, 4</sup> .....	00/82	FD	49209	250.600	247.561	253.167	254.015	249.333
Finished services <sup>2</sup> .....	01/10	FD	49210	136.582	137.274	137.212	137.412	137.178
Private capital investment services.....	04/10	FD	49211	143.553	145.532	144.315	143.452	141.831
Finished distributive services <sup>2, 5</sup> .....	04/10	FD	49212	149.250	150.429	148.533	148.482	147.065
Finished services less trade services <sup>2</sup> .....	04/10	FD	49213	131.095	131.424	132.020	132.250	132.342
Finished services less distributive services <sup>2, 5</sup> .....	04/10	FD	49214	129.551	129.995	130.769	131.080	131.385
Total private capital investment (goods, services, and construction).....	04/10	FD	49215	140.904	142.088	142.143	141.790	141.196
Finished goods plus finished distributive services <sup>2</sup> .....	04/10	FD	49216	146.187	145.870	146.011	145.760	144.187
Total exports.....	04/10	FD	49301	140.496	139.913	140.513	140.553	139.630
Goods for export.....	00/82	FD	49302	237.365	234.927	235.593	235.388	234.530
Services for export.....	04/10	FD	49303	147.872	148.545	149.473	149.736	148.195
Total government purchases.....	04/10	FD	49401	138.295	136.196	137.933	137.423	136.144
Government purchased goods.....	00/82	FD	49402	243.792	234.966	240.374	238.313	234.365
Government purchased services.....	04/10	FD	49403	130.234	130.851	131.278	131.246	130.538
Total government purchased capital investment (goods, services, construction).....	08/13	FD	49404	130.314	131.521	132.209	132.137	131.567
Government purchases, defense.....	05/15	FD	49405	125.371	123.202	124.856	124.453	123.171
Government purchases, non-defense.....	05/15	FD	49406	132.629	130.621	132.229	131.681	130.524
Personal consumption.....	01/10	FD	49501	138.962	138.760	139.343	139.470	138.876
Personal consumption goods (finished consumer goods).....	00/82	FD	49502	278.187	273.673	278.222	276.919	272.072
Personal consumption goods less energy.....	00/82	FD	49503	273.950	273.204	272.741	270.384	272.120
Personal consumption goods less foods.....	00/82	FD	49504	276.065	270.676	278.678	279.789	271.617
Personal consumption nondurable goods less foods.....	00/82	FD	49508	313.824	305.955	317.321	318.810	306.815
Personal consumption services.....	04/10	FD	49505	134.991	135.490	135.606	135.966	135.944
Personal consumption less trade services.....	04/10	FD	49506	135.646	135.159	136.240	136.253	135.656
Personal consumption less distributive services <sup>5</sup> .....	04/10	FD	49507	134.853	134.409	135.624	135.681	135.194
Personal consumption less foods and energy.....	04/14	FD	49510	126.460	126.892	127.084	127.446	127.463
Personal consumption less foods, energy, and trade services <sup>3</sup> .....	04/14	FD	49511	122.842	123.153	123.817	124.125	124.306
Personal consumption less foods, energy, and distributive services <sup>5</sup> .....	04/14	FD	49512	122.151	122.543	123.338	123.710	124.049
Personal consumption goods plus personal consumption distributive services <sup>5</sup> .....	08/13	FD	49509	135.087	134.245	134.573	134.428	132.843
<b>Intermediate Demand by Commodity Type</b>								
<b>Processed goods</b>								
Processed goods for intermediate demand.....	00/82	ID6	1	268.344	261.702	264.630	263.480	260.870
Materials and components for manufacturing.....	00/82	ID6	11	238.512	237.019	236.827	236.378	236.452
Materials for manufacturing.....		ID6	111	151.365	149.785	149.121	148.412	148.290
Materials for food manufacturing.....	00/82	ID6	1111	261.957	260.260	260.604	254.564	254.909
Materials for nondurable manufacturing.....	00/82	ID6	1112	282.537	280.098	279.137	275.592	274.965
Materials for durable manufacturing.....	00/82	ID6	1113	285.176	281.169	278.887	282.436	282.426
Components for manufacturing.....	00/82	ID6	112	185.149	185.376	186.395	186.945	187.359
Components for nondurable manufacturing.....		ID6	1121	148.164	147.876	147.401	147.405	146.788
Components for durable manufacturing.....		ID6	1122	130.477	130.659	131.437	131.845	132.181
Materials and components for construction.....	00/82	ID6	12	350.202	349.274	349.354	349.548	351.154
Materials for construction.....		ID6	121	167.529	166.378	165.490	165.877	166.222
Components for construction.....		ID6	122	177.272	177.351	178.148	177.995	179.168
Processed fuels and lubricants for intermediate demand.....	00/82	ID6	13	290.026	261.463	275.450	271.544	257.675
Processed fuels and lubricants to manufacturing industries.....	00/82	ID6	131	290.536	274.271	282.163	269.956	262.522

See footnotes at end of table.



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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index <sup>1</sup>				
		Group code	Item code	Nov. 2022	Dec. 2022 <sup>P</sup>	Jan. 2023 <sup>P</sup>	Feb. 2023 <sup>P</sup>	Mar. 2023 <sup>P</sup>
Processed fuels and lubricants to nonmanufacturing industries.....	00/82	ID6	132	290.371	257.727	273.596	272.259	256.385
Containers for intermediate demand.....	00/82	ID6	14	315.066	315.057	314.485	314.322	312.531
Supplies for intermediate demand.....	00/82	ID6	15	252.943	252.765	253.779	253.100	253.309
Supplies to manufacturing industries.....	00/82	ID6	151	247.898	247.908	247.511	247.336	247.204
Supplies to nonmanufacturing industries.....	00/82	ID6	152	251.720	251.514	252.738	251.986	252.247
Supplies to nonmanufacturing industries, feeds.....	00/82	ID6	1521	256.902	255.506	254.102	248.394	245.051
Supplies to nonmanufacturing industries, other than feeds.....	00/82	ID6	1522	253.203	253.116	254.589	254.472	255.201
<b>Unprocessed goods</b>								
Unprocessed goods for intermediate demand.....	00/82	ID6	2	291.398	295.703	281.757	268.365	255.012
Unprocessed foodstuffs and feedstuffs.....	00/82	ID6	21	256.510	255.975	241.535	239.108	235.948
Unprocessed nonfood materials.....	00/82	ID6	22	304.723	312.008	298.798	278.382	258.535
Unprocessed nonfood materials except fuel.....	00/82	ID6	221	354.324	328.754	329.608	336.812	320.019
Unprocessed nonfood materials except fuel to manufacturing industries.....	00/82	ID6	2211	329.943	304.879	305.278	312.185	295.928
Unprocessed nonfood materials except fuel to nonmanufacturing industries.....	00/82	ID6	2212	329.266	331.391	342.515	344.195	344.104
Unprocessed fuel.....	00/82	ID6	222	216.947	265.784	226.489	154.933	130.264
Unprocessed fuel to manufacturing industries.....	00/82	ID6	2221	272.520	273.124	262.647	233.901	226.646
Unprocessed fuel to nonmanufacturing industries.....	00/82	ID6	2222	219.824	272.952	230.956	155.013	128.686
<b>Services</b>								
Services for intermediate demand.....		ID6	3	142.922	142.904	144.183	144.611	143.834
Trade services for intermediate demand <sup>5</sup> .....		ID6	33	170.856	168.830	169.861	169.186	168.284
Trade services for manufacturing industries.....	12/12	ID6	331	155.237	153.290	156.231	155.453	155.123
Trade services for nonmanufacturing industries.....	12/12	ID6	332	152.873	151.167	150.161	149.714	148.439
Transportation and warehousing services for intermediate demand.....		ID6	32	157.147	157.205	157.662	157.399	155.946
Transportation of passengers for intermediate demand.....		ID6	321	132.279	136.468	139.777	137.665	139.483
Transportation of passengers for manufacturing industries.....		ID6	3211	132.338	136.630	140.001	137.846	139.697
Transportation of passengers for nonmanufacturing industries.....		ID6	3212	132.333	136.509	139.812	137.705	139.519
Transportation and warehousing of goods for intermediate demand.....		ID6	322	159.849	159.461	159.660	159.571	157.807
Transportation and warehousing of goods for manufacturing industries.....	12/12	ID6	3221	136.729	135.479	134.144	133.612	131.552
Transportation and warehousing of goods for nonmanufacturing industries.....	12/12	ID6	3222	141.663	141.572	142.199	142.253	140.851
Services less trade, transportation, and warehousing for intermediate demand.....		ID6	31	132.819	133.344	134.817	135.607	134.989
Services less trade, transportation, and warehousing for manufacturing industries.....		ID6	311	124.769	125.028	126.466	126.895	127.138
Services less trade, transportation, and warehousing for nonmanufacturing industries.....		ID6	312	133.075	133.609	135.083	135.886	135.238
<b>Construction</b>								
Construction for intermediate demand.....		ID6	4	141.280	141.372	142.459	142.761	143.746
<b>Intermediate Demand by Commodity Type Special Groupings</b>								
Processed materials less foods and feeds.....	00/82	ID6	9111	269.541	262.422	265.609	264.872	262.021
Processed foods and feeds.....	00/82	ID6	9112	256.470	254.928	255.322	250.134	249.881
Processed energy goods.....	00/82	ID6	9113	291.372	262.676	276.728	272.805	258.871
Processed materials less energy.....	00/82	ID6	9118	259.330	258.309	258.496	258.041	258.244
Processed materials less foods and energy.....	00/82	ID6	9115	259.214	258.258	258.404	258.560	258.822
Intermediate distributive services <sup>6</sup> .....	04/10	ID6	9116	163.757	162.342	163.018	162.604	161.346
Processed goods plus intermediate distributive services.....	04/10	ID6	9117	150.719	147.681	149.016	148.448	147.073
Unprocessed materials less agricultural products.....	00/82	ID6	9211	304.901	315.205	299.890	276.931	255.971
Unprocessed energy materials <sup>7</sup> .....	00/82	ID6	9212	245.714	258.118	239.120	212.936	187.614
Unprocessed materials less energy.....	00/82	ID6	9213	307.423	305.056	295.677	294.435	291.664
Unprocessed nonfood materials less energy <sup>8</sup> .....	00/82	ID6	9216	457.406	449.695	456.285	458.702	457.181
<b>Intermediate Demand by Production Flow</b>								
<b>Stage 4 Intermediate Demand</b>								
Stage 4 intermediate demand.....		ID5	4	146.865	146.342	147.760	147.818	147.135
Inputs to stage 4 goods producers.....		ID5	41	146.523	145.823	146.462	146.355	146.056
Goods.....		ID5	411	141.060	140.618	140.768	140.867	140.472
Foods.....		ID5	4111	160.794	157.985	158.312	156.406	153.991
Energy.....		ID5	4112	180.465	179.883	173.418	172.809	164.754
Goods excluding foods and energy.....		ID5	4113	137.795	137.710	137.887	138.298	138.277
Services.....		ID5	412	164.580	163.150	165.361	164.578	164.590
Trade services.....		ID5	4123	175.809	173.850	176.536	175.397	175.491
Transportation and warehousing services.....		ID5	4122	139.944	139.856	139.925	138.678	137.454
Transportation of passengers.....		ID5	41221	132.357	136.653	140.026	137.869	139.722
Transportation and warehousing of goods.....		ID5	41222	150.696	149.745	149.167	148.016	146.106
Services less trade, transportation, and warehousing.....		ID5	4121	126.267	126.479	127.657	128.119	128.277
Inputs to stage 4 services producers.....		ID5	42	142.391	142.438	144.320	144.455	143.627

See footnotes at end of table.

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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index <sup>1</sup>				
		Group code	Item code	Nov. 2022	Dec. 2022 <sup>P</sup>	Jan. 2023 <sup>P</sup>	Feb. 2023 <sup>P</sup>	Mar. 2023 <sup>P</sup>
Goods.....		ID5	421	147.228	146.068	148.541	147.841	146.707
Foods.....		ID5	4211	152.439	150.648	150.714	148.373	148.964
Energy.....		ID5	4212	145.258	142.152	148.413	147.178	142.576
Goods excluding foods and energy.....		ID5	4213	146.195	146.249	147.088	147.211	147.567
Services.....		ID5	422	140.503	140.985	142.699	143.112	142.384
Trade services.....		ID5	4223	160.073	158.736	159.355	158.553	158.401
Transportation and warehousing services.....		ID5	4222	148.472	149.493	151.771	151.980	151.319
Transportation of passengers.....		ID5	42221	131.874	136.121	139.462	137.327	139.162
Transportation and warehousing of goods.....		ID5	42222	151.952	152.382	154.493	155.108	154.013
Services less trade, transportation, and warehousing.....		ID5	4221	136.528	137.195	138.951	139.514	138.722
Construction.....		ID5	423	141.280	141.372	142.459	142.761	143.746
Inputs to stage 4 construction producers.....		ID5	43	163.713	161.342	162.479	162.590	161.663
Goods.....		ID5	431	168.135	165.532	166.873	167.226	166.532
Energy.....		ID5	4312	185.399	159.881	170.425	172.130	156.425
Goods excluding foods and energy.....		ID5	4313	170.362	169.935	170.378	170.606	171.380
Services.....		ID5	432	152.408	150.601	151.205	150.722	149.226
Trade services.....		ID5	4323	170.622	167.033	169.365	168.305	165.941
Transportation and warehousing services.....		ID5	4322	158.378	156.692	154.256	152.826	149.273
Transportation of passengers.....		ID5	43221	137.976	142.444	145.954	143.710	145.637
Transportation and warehousing of goods.....		ID5	43222	159.722	157.863	155.274	153.856	150.152
Services less trade, transportation, and warehousing.....		ID5	4321	128.716	128.749	129.094	129.479	129.555
<b>Stage 3 Intermediate Demand</b>								
Stage 3 intermediate demand.....		ID5	3	151.963	148.983	149.306	148.951	147.474
Inputs to stage 3 goods producers.....		ID5	31	164.746	162.576	160.467	159.897	158.954
Goods.....		ID5	311	161.959	159.718	156.512	155.966	155.203
Foods.....		ID5	3111	189.978	189.098	178.873	175.801	173.118
Energy.....		ID5	3112	184.301	153.778	155.660	151.860	147.343
Goods excluding foods and energy.....		ID5	3113	153.040	151.976	151.394	152.086	152.326
Services.....		ID5	312	164.327	162.612	164.866	164.244	162.683
Trade services.....		ID5	3123	168.426	166.043	170.980	170.383	169.096
Transportation and warehousing services.....		ID5	3122	158.652	157.533	155.562	154.336	151.471
Transportation of passengers.....		ID5	31221	140.925	145.496	149.085	146.790	148.762
Transportation and warehousing of goods.....		ID5	31222	159.418	157.971	155.699	154.534	151.404
Services less trade, transportation, and warehousing.....		ID5	3121	130.145	130.024	131.364	131.878	132.138
Inputs to stage 3 services producers.....		ID5	32	141.528	137.896	140.016	139.845	137.987
Goods.....		ID5	321	150.700	133.514	140.422	138.247	132.605
Foods.....		ID5	3211	162.452	161.751	165.497	162.666	161.063
Energy.....		ID5	3212	166.353	138.040	149.210	145.630	136.077
Goods excluding foods and energy.....		ID5	3213	136.189	136.131	136.554	136.565	136.925
Services.....		ID5	322	138.339	138.883	139.803	140.148	139.240
Trade services.....		ID5	3223	192.526	191.608	188.964	190.932	188.896
Transportation and warehousing services.....		ID5	3222	160.897	161.204	162.495	162.655	161.272
Transportation of passengers.....		ID5	32221	104.310	104.488	104.468	104.441	104.623
Transportation and warehousing of goods.....		ID5	32222	161.391	161.700	162.997	163.158	161.767
Services less trade, transportation, and warehousing.....		ID5	3221	129.376	130.091	131.116	131.415	130.700
Construction.....		ID5	323	141.280	141.372	142.459	142.761	143.746
Inputs to stage 3 construction producers.....		ID5	33	144.022	140.369	139.793	138.196	137.180
Goods.....		ID5	331	136.664	135.695	135.070	134.942	134.527
Goods excluding foods and energy.....		ID5	3313	174.142	172.908	172.112	171.948	171.420
Services.....		ID5	332	170.731	164.224	163.906	160.400	158.552
Trade services.....		ID5	3323	176.013	168.966	168.486	164.605	162.561
Transportation and warehousing services.....		ID5	3322	115.601	115.318	115.731	115.277	114.965
Transportation and warehousing of goods.....		ID5	33222	122.021	121.723	122.159	121.679	121.350
Services less trade, transportation, and warehousing.....		ID5	3321	121.903	121.488	123.915	123.913	123.936
<b>Stage 2 Intermediate Demand</b>								
Stage 2 intermediate demand.....		ID5	2	139.438	140.866	139.374	137.378	133.696
Inputs to stage 2 goods producers.....		ID5	21	134.349	136.242	132.673	127.692	122.236
Goods.....		ID5	211	134.651	137.153	132.129	125.242	118.018
Foods.....		ID5	2111	176.518	175.423	171.108	169.629	164.527
Energy.....		ID5	2112	109.177	113.876	105.998	95.115	83.922
Goods excluding foods and energy.....		ID5	2113	147.254	146.565	147.098	147.192	147.741
Services.....		ID5	212	147.203	146.867	147.763	148.564	148.351
Trade services.....		ID5	2123	166.205	164.846	164.902	164.264	164.745
Transportation and warehousing services.....		ID5	2122	167.742	167.087	167.644	168.483	168.358
Transportation of passengers.....		ID5	21221	132.933	136.996	140.234	138.172	139.953
Transportation and warehousing of goods.....		ID5	21222	169.858	168.819	169.292	170.274	170.056
Services less trade, transportation, and warehousing.....		ID5	2121	129.463	130.720	133.091	135.667	134.524
Construction.....		ID5	213	141.280	141.372	142.459	142.761	143.746

See footnotes at end of table.



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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index <sup>1</sup>				
		Group code	Item code	Nov. 2022	Dec. 2022 <sup>P</sup>	Jan. 2023 <sup>P</sup>	Feb. 2023 <sup>P</sup>	Mar. 2023 <sup>P</sup>
Inputs to stage 2 services producers.....		ID5	22	140.923	141.712	142.877	144.690	143.358
Goods.....		ID5	221	147.602	146.375	147.292	146.851	145.932
Foods.....		ID5	2211	132.309	130.683	128.836	125.856	122.042
Energy.....		ID5	2212	190.629	170.170	183.803	181.260	167.784
Goods excluding foods and energy.....		ID5	2213	145.376	145.341	145.461	145.190	145.125
Services.....		ID5	222	139.620	140.728	141.925	144.043	142.613
Trade services.....		ID5	2223	183.676	192.314	183.306	183.208	175.532
Transportation and warehousing services.....		ID5	2222	152.611	154.252	151.791	150.112	147.739
Transportation of passengers.....		ID5	22221	132.802	137.070	140.430	138.283	140.129
Transportation and warehousing of goods.....		ID5	22222	156.861	158.014	154.476	152.876	149.717
Services less trade, transportation, and warehousing.....		ID5	2221	137.523	138.150	140.105	142.622	141.548
Construction.....		ID5	223	141.280	141.372	142.459	142.761	143.746
<b>Stage 1 Intermediate Demand</b>								
Stage 1 intermediate demand.....		ID5	1	148.393	145.788	146.944	146.357	145.310
Inputs to stage 1 goods producers.....		ID5	11	150.890	148.621	149.507	148.950	147.263
Goods.....		ID5	111	151.669	149.091	149.160	148.609	146.627
Foods.....		ID5	1111	174.876	171.018	170.329	168.797	161.341
Energy.....		ID5	1112	148.137	141.611	145.277	143.020	136.368
Goods excluding foods and energy.....		ID5	1113	152.480	150.987	150.344	150.344	150.326
Services.....		ID5	112	152.578	151.079	154.275	153.684	152.788
Trade services.....		ID5	1123	167.730	165.230	170.458	168.945	167.719
Transportation and warehousing services.....		ID5	1122	158.210	157.910	157.819	158.571	158.530
Transportation of passengers.....		ID5	11221	132.332	136.627	139.999	137.843	139.695
Transportation and warehousing of goods.....		ID5	11222	162.616	161.473	160.450	161.909	161.403
Services less trade, transportation, and warehousing.....		ID5	1121	107.763	107.677	108.297	108.754	108.292
Construction.....		ID5	113	141.280	141.372	142.459	142.761	143.746
Inputs to stage 1 services producers.....		ID5	12	145.258	142.969	144.448	143.963	143.278
Goods.....		ID5	121	155.037	147.797	150.984	149.662	147.474
Foods.....		ID5	1211	211.574	229.161	223.728	187.453	198.857
Energy.....		ID5	1212	188.076	163.775	172.199	168.123	160.111
Goods excluding foods and energy.....		ID5	1213	147.228	147.768	148.791	148.923	149.242
Services.....		ID5	122	140.058	140.249	141.034	140.902	140.851
Trade services.....		ID5	1223	171.142	169.763	168.679	169.852	168.559
Transportation and warehousing services.....		ID5	1222	142.220	143.210	145.233	144.406	143.988
Transportation of passengers.....		ID5	12221	132.253	136.545	139.915	137.761	139.611
Transportation and warehousing of goods.....		ID5	12222	162.806	162.019	163.557	163.345	161.681
Services less trade, transportation, and warehousing.....		ID5	1221	135.038	135.308	136.080	135.917	136.044
Construction.....		ID5	123	141.280	141.372	142.459	142.761	143.746
Inputs to stage 1 construction producers.....		ID5	13	167.709	162.527	163.028	161.830	160.821
Goods.....		ID5	131	169.162	164.079	165.346	164.602	164.179
Energy.....		ID5	1312	200.765	156.309	166.099	158.869	149.584
Goods excluding foods and energy.....		ID5	1313	167.730	167.695	167.975	167.982	168.596
Services.....		ID5	132	164.877	159.498	158.397	156.111	153.700
Trade services.....		ID5	1323	171.040	164.842	164.751	162.019	160.003
Transportation and warehousing services.....		ID5	1322	133.260	131.419	128.560	127.455	123.903
Transportation and warehousing of goods.....		ID5	13222	137.841	135.936	132.978	131.836	128.162
Services less trade, transportation, and warehousing.....		ID5	1321	133.855	134.179	134.963	134.748	135.493
<b>Intermediate Demand by Production Flow Special Groupings</b>								
Total goods inputs to stage 4 intermediate demand.....	04/10	ID5	9411	145.219	144.165	145.255	145.167	144.502
Total services inputs to stage 4 intermediate demand.....	04/10	ID5	9412	144.702	144.691	146.391	146.576	145.891
Total construction inputs to stage 4 intermediate demand.....	04/10	ID5	9413	140.109	140.201	141.279	141.578	142.555
Total foods inputs to stage 4 intermediate demand.....	04/10	ID5	9414	153.758	151.433	151.648	149.601	148.504
Total energy goods inputs to stage 4 intermediate demand.....	04/10	ID5	9415	140.266	134.212	140.199	139.509	133.573
Total goods less foods and energy inputs to stage 4 intermediate demand.....	04/10	ID5	9416	145.854	145.721	146.101	146.406	146.649
Total goods inputs to stage 3 intermediate demand.....	04/10	ID5	9311	151.072	145.267	144.696	143.788	141.885
Total services inputs to stage 3 intermediate demand.....	04/10	ID5	9312	141.933	141.966	143.080	143.226	142.208
Total construction inputs to stage 3 intermediate demand.....	04/10	ID5	9313	140.109	140.201	141.279	141.578	142.555
Total foods inputs to stage 3 intermediate demand.....	04/10	ID5	9314	168.881	168.099	159.105	156.373	153.993
Total energy goods inputs to stage 3 intermediate demand.....	04/10	ID5	9315	165.866	137.773	147.337	143.792	135.150
Total goods less foods and energy inputs to stage 3 intermediate demand.....	04/10	ID5	9316	144.373	143.501	143.091	143.636	143.870
Total goods inputs to stage 2 intermediate demand.....	04/10	ID5	9211	129.424	131.445	127.244	121.318	115.058
Total services inputs to stage 2 intermediate demand.....	04/10	ID5	9212	141.848	142.648	143.776	145.587	144.442
Total construction inputs to stage 2 intermediate demand.....	04/10	ID5	9213	140.109	140.201	141.279	141.578	142.555
Total foods inputs to stage 2 intermediate demand.....	04/10	ID5	9214	176.998	175.890	171.577	170.063	164.947
Total energy goods inputs to stage 2 intermediate demand.....	04/10	ID5	9215	107.816	112.127	104.639	94.071	83.085
Total goods less foods and energy inputs to stage 2 intermediate demand.....	04/10	ID5	9216	138.442	137.933	138.345	138.354	138.738
Total goods inputs to stage 1 intermediate demand.....	04/10	ID5	9111	138.421	134.337	135.498	134.751	133.162

See footnotes at end of table.

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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index <sup>1</sup>				
		Group code	Item code	Nov. 2022	Dec. 2022 <sup>p</sup>	Jan. 2023 <sup>p</sup>	Feb. 2023 <sup>p</sup>	Mar. 2023 <sup>p</sup>
Total services inputs to stage 1 intermediate demand.....	04/10	ID5	9112	143.225	142.652	143.707	143.353	142.998
Total construction inputs to stage 1 intermediate demand.....	04/10	ID5	9117	140.109	140.201	141.279	141.578	142.555
Total foods inputs to stage 1 intermediate demand.....	04/10	ID5	9114	165.403	162.189	161.421	159.170	152.599
Total energy goods inputs to stage 1 intermediate demand.....	04/10	ID5	9115	167.453	148.845	155.128	151.643	144.336
Total goods less foods and energy inputs to stage 1 intermediate demand.....	04/10	ID5	9116	127.632	127.188	127.250	127.285	127.463

<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.