



**Transmission of material in this release is embargoed until
 8:30 a.m. (ET) Wednesday, March 15, 2023**

USDL 23-0486

Technical information: (202) 691-7705 • ppi-info@bls.gov • www.bls.gov/ppi
 Media contact: (202) 691-5902 • PressOffice@bls.gov

PRODUCER PRICE INDEXES – FEBRUARY 2023

The Producer Price Index for Final Demand decreased 0.1 percent in February, seasonally adjusted, the U.S. Bureau of Labor Statistics reported today. Final demand prices advanced 0.3 percent in January and declined 0.2 percent in December 2022. (See table A.) On an unadjusted basis, the final demand index rose 4.6 percent for the 12 months ended in February.

In February, the decline in the final demand index was led by prices for final demand goods, which fell 0.2 percent. The index for final demand services edged down 0.1 percent.

The index for final demand less foods, energy, and trade services increased 0.2 percent in February after rising 0.5 percent in January. For the 12 months ended in February, prices for final demand less foods, energy, and trade services advanced 4.4 percent.

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

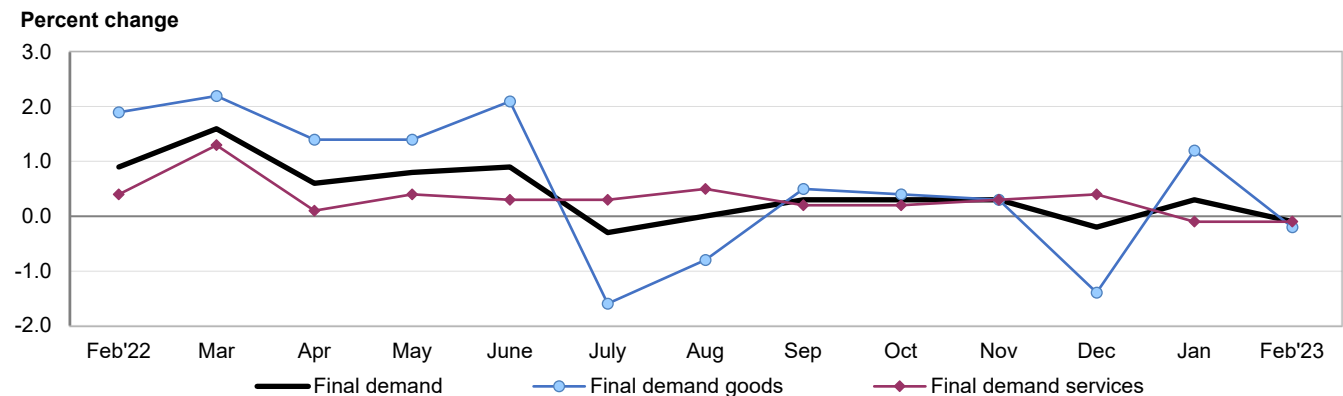
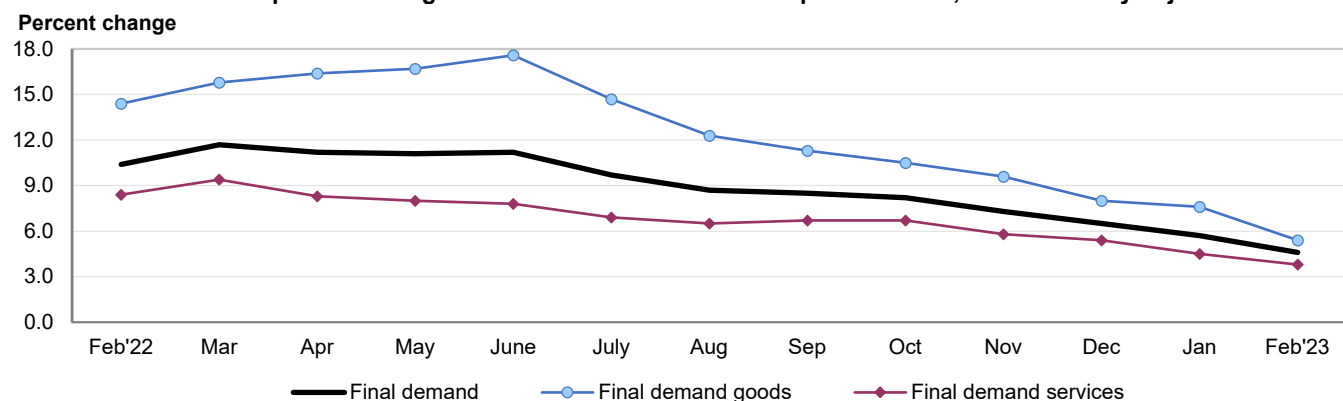


Chart 2. Twelve-month percent changes in selected PPI final demand price indexes, not seasonally adjusted



Final demand goods: The index for final demand goods fell 0.2 percent in February following a 1.2-percent advance in January. A 2.2-percent decline in prices for final demand foods was a major factor in the February decrease. The index for final demand energy moved down 0.2 percent. In contrast, prices for final demand goods less foods and energy rose 0.3 percent.

Product detail: Over 80 percent of the February decline in the index for final demand goods can be attributed to a 36.1-percent drop in prices for chicken eggs. The indexes for residential natural gas, fresh and dry vegetables, diesel fuel, home heating oil, and primary basic organic chemicals also fell. Conversely, prices for iron and steel scrap advanced 10.6 percent. The indexes for gasoline and for sugar and confectionery products also increased. (See table 2.)

Final demand services: The index for final demand services inched down 0.1 percent in February, the same as in January. Leading the February decline, margins for final demand trade services fell 0.8 percent. (Trade indexes measure changes in margins received by wholesalers and retailers.) Prices for final demand transportation and warehousing services decreased 1.1 percent. In contrast, the index for final demand services less trade, transportation, and warehousing advanced 0.3 percent.

Product detail: A major factor in the February decrease in prices for final demand services was margins for machinery and vehicle wholesaling, which fell 3.9 percent. The indexes for chemicals and allied products wholesaling, automobiles and automobile parts retailing, guestroom rental, and airline passenger services also declined. Conversely, prices for outpatient care (partial) rose 0.5 percent. The indexes for food and alcohol retailing; securities brokerage, dealing, investment advice, and related services; and loan services (partial) also increased.

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		
2022												
Feb...	0.9	0.2	1.9	1.8	5.4	0.8	0.4	1.6	1.7	-0.3	10.4	6.7
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. ¹ ...	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. ¹ ..	0.3	0.4	0.3	3.3	-2.2	0.3	0.3	0.2	-0.5	0.5	7.3	4.9
Dec. ¹ ..	-0.2	0.2	-1.4	-0.9	-6.3	0.1	0.4	0.7	0.2	0.3	6.5	4.7
2023												
Jan. ¹ ...	0.3	0.5	1.2	-1.2	5.2	0.6	-0.1	-1.1	-1.2	0.6	5.7	4.4
Feb...	-0.1	0.2	-0.2	-2.2	-0.2	0.3	-0.1	-0.8	-1.1	0.3	4.6	4.4

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

Intermediate Demand by Commodity Type

Within intermediate demand in February, prices for processed goods fell 0.4 percent, the index for unprocessed goods declined 3.8 percent, and prices for services increased 0.3 percent. (See tables B and C.)

Processed goods for intermediate demand: Prices for processed goods for intermediate demand moved down 0.4 percent in February following a 1.1-percent increase in January. Over three-quarters of the decrease can be traced to the index for processed energy goods, which fell 1.6 percent. Prices for processed foods and feeds declined 1.9 percent. In contrast, the index for processed materials less foods and energy advanced 0.1 percent. For the 12 months ended in February, prices for processed goods for intermediate demand rose 2.1 percent.

Product detail: Over half of the February decline in the index for processed goods for intermediate demand can be attributed to prices for diesel fuel, which fell 4.7 percent. The indexes for industrial electric power, primary basic organic chemicals, agricultural chemicals and chemical products, commercial natural gas, and steel pipe and tube also moved lower. Conversely, prices for thermoplastic resins and materials rose 1.8 percent. The indexes for gasoline and for sugar and confectionery products also moved higher.

Unprocessed goods for intermediate demand: The index for unprocessed goods for intermediate demand fell 3.8 percent in February following a 6.3-percent decrease in January. Leading the February decline, prices for unprocessed energy materials moved down 9.1 percent. The index for unprocessed foodstuffs and feedstuffs fell 1.1 percent. In contrast, prices for unprocessed nonfood materials less energy advanced 1.2 percent. For the 12 months ended in February, the index for unprocessed goods for intermediate demand decreased 10.9 percent, the first 12-month decline since October 2020.

Product detail: A major factor in the decrease in prices for unprocessed goods for intermediate demand was the index for natural gas, which dropped 41.4 percent. Prices for ungraded chicken eggs, raw milk, fresh fruits and melons, fresh vegetables (except potatoes), and slaughter cattle also declined. Conversely, the index for iron and steel scrap increased 10.6 percent. Prices for crude petroleum and for slaughter chickens also advanced.

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

Month	Processed goods for intermediate demand					Unprocessed goods for intermediate demand				
	Total	Foods and feeds	Energy goods	Less foods and energy	Total, change from 12 months ago (unadj.)	Total	Food-stuffs and feed-stuffs	Energy materials	Nonfood materials less energy	Total, change from 12 months ago (unadj.)
2022										
Feb.....	1.4	2.0	4.9	0.3	23.3	9.6	4.0	18.2	2.3	33.5
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. ¹	-0.2	-0.2	1.5	-0.8	10.1	-9.7	-0.7	-18.1	-4.1	9.3
Nov. ¹	-0.5	0.8	-1.8	-0.2	7.6	-3.1	0.0	-6.7	-0.7	3.5
Dec. ¹	-2.5	-0.6	-9.9	-0.3	4.9	1.6	-0.2	5.0	-1.3	10.7
2023										
Jan. ¹	1.1	0.2	5.3	0.1	4.0	-6.3	-5.6	-11.0	1.6	1.1
Feb.....	-0.4	-1.9	-1.6	0.1	2.1	-3.8	-1.1	-9.1	1.2	-10.9

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Services for intermediate demand: The index for services for intermediate demand moved up 0.3 percent in February following a 0.7-percent increase in January. The February advance can be traced to a 0.6-percent rise in prices for services less trade, transportation, and warehousing for intermediate demand. In contrast, the indexes for trade services for intermediate demand and for transportation and warehousing services for intermediate demand fell 0.7 percent and 0.2 percent, respectively. For the 12 months ended in February, prices for services for intermediate demand increased 6.0 percent.

Product detail: Leading the advance in the index for services for intermediate demand, prices for loan services (partial) rose 8.3 percent. The indexes for securities brokerage, dealing, investment advice, and related services; legal services; staffing services; warehousing, storage, and related services; and gross rents for office buildings also moved higher. Conversely, margins for chemicals and allied products wholesaling decreased 5.7 percent. Prices for gross rents for retail properties and for arrangement of freight and cargo transportation also declined.

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

Month	Services for intermediate demand				Total, change from 12 months ago (unadj.)
	Total	Trade	Transportation and warehousing	Other	
2022					
Feb.....	0.3	1.1	0.6	-0.1	7.8
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. ¹	0.4	0.0	0.6	0.5	6.7
Nov. ¹	0.8	0.9	-1.3	1.2	6.9
Dec. ¹	0.0	-1.2	0.3	0.4	6.0
2023					
Jan. ¹	0.7	0.1	0.0	1.1	6.1
Feb.....	0.3	-0.7	-0.2	0.6	6.0

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Intermediate Demand by Production Flow

Stage 4 intermediate demand: The index for stage 4 intermediate demand was unchanged in February after increasing 0.9 percent in January. In February, prices for total services inputs to stage 4 intermediate demand edged up 0.1 percent, while the index for total goods inputs was unchanged. (See table D.) Advances in prices for loan services (partial); securities brokerage, dealing, investment advice, and related services; gasoline; warehousing, storage, and related services; and gross rents for office buildings offset decreases in the indexes for gross rents for retail properties, chemicals and allied products wholesaling, industrial electric power, machinery and equipment parts and supplies wholesaling, and diesel fuel. For the 12 months ended in February, prices for stage 4 intermediate demand moved up 4.8 percent.

Stage 3 intermediate demand: The index for stage 3 intermediate demand decreased 0.2 percent in February after inching up 0.1 percent in January. In February, prices for total goods inputs to stage 3 intermediate demand declined 0.7 percent. In contrast, the index for total services inputs rose 0.2 percent. Falling prices for raw milk, television advertising time sales, diesel fuel, ungraded chicken eggs, gross rents for retail properties, and primary basic organic chemicals outweighed increases in the indexes for loan services (partial), slaughter chickens, and staffing services. For the 12 months ended in February, prices for stage 3 intermediate demand advanced 2.3 percent.

Stage 2 intermediate demand: Prices for stage 2 intermediate demand fell 1.0 percent in February following a 1.9-percent decline in January. In February, the index for total goods inputs to stage 2 intermediate demand dropped 3.7 percent. Conversely, prices for total services inputs moved up 1.2 percent. Decreases in the indexes for natural gas, chemicals and allied products wholesaling, deposit services (partial), primary basic organic chemicals, food wholesaling, and arrangement of freight and cargo transportation outweighed rising prices for loan services (partial), crude petroleum, and iron and steel scrap. For the 12 months ended in February, the index for stage 2 intermediate demand moved down 1.0 percent, the first 12-month decline since October 2020.

Stage 1 intermediate demand: Prices for stage 1 intermediate demand decreased 0.4 percent in February after rising 0.7 percent in January. In February, the index for total goods inputs to stage 1 intermediate demand moved down 0.6 percent, and prices for total services inputs fell 0.3 percent. Declines in the indexes for diesel fuel, gross rents for retail properties, chemicals and allied products wholesaling, primary basic organic chemicals, industrial electric power, and agricultural chemicals and chemical products outweighed increases in prices for securities brokerage, dealing, and investment advice; iron and steel scrap; and gasoline. For the 12 months ended in February, the index for stage 1 intermediate demand advanced 3.6 percent.

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

Month	Stage 4 intermediate demand			Stage 3 intermediate demand			Stage 2 intermediate demand			Stage 1 intermediate demand		
	Total	Goods inputs	Services inputs	Total	Goods inputs	Services inputs	Total	Goods inputs	Services inputs	Total	Goods inputs	Services inputs
2022												
Feb.....	0.6	1.2	0.1	1.2	2.1	0.2	4.4	8.4	0.5	0.8	1.5	0.1
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. ¹	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. ¹	0.4	-0.1	1.0	-0.4	-1.1	0.3	-1.0	-2.9	0.8	0.1	-0.6	0.9
Dec. ¹	-0.3	-0.7	0.0	-1.9	-3.8	0.1	1.1	1.6	0.6	-1.7	-2.9	-0.4
2023												
Jan. ¹	0.9	0.8	1.0	0.1	-0.4	0.5	-1.9	-4.9	0.8	0.7	0.9	0.5
Feb.....	0.0	0.0	0.1	-0.2	-0.7	0.2	-1.0	-3.7	1.2	-0.4	-0.6	-0.3

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The Producer Price Index for March 2023 is scheduled to be released on Thursday, April 13, 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.

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/.

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
	SIC	
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
SIC		
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
NAICS		
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
NAICS		
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.

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.

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). 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/ 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> /pub/time.series/pc
Industry Data - Discontinued (NAICS basis)	/pub/time.series/nd
(SIC basis)	/pub/time.series/pd
Commodity Data (incl. FD-ID)	/pub/time.series/wp
Commodity Data – Discontinued	/pub/time.series/wd
Special requests	/pub/special.requests/ppi

Additional information

The PPI homepage (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. 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
[February 2023]

Grouping	Commodity code		Relative Importance Dec. 2022 ¹	Unadjusted 12-month percent change ² Feb. 2022 to Feb. 2023 ^P	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			Sept. to Oct.	Oct. to Nov. ^P	Nov. to Dec. ^P	Dec. to Jan. ^P	Jan. to Feb. ^P
Final Demand									
Final demand.....	FD	4	100.000	4.6	0.3	0.3	-0.2	0.3	-0.1
Final demand goods.....	FD	41	30.721	5.4	0.4	0.3	-1.4	1.2	-0.2
Final demand foods.....	FD	411	5.953	6.9	0.7	3.3	-0.9	-1.2	-2.2
Finished consumer foods ³	FD	4111	4.521	7.7	1.2	3.7	-0.8	-1.2	-2.5
Finished consumer foods, crude.....	FD	41113	0.606	15.6	16.1	21.7	-0.9	-16.6	-18.7
Finished consumer foods, processed.....	FD	41112	3.915	6.2	-0.6	1.1	-0.8	1.2	-0.5
Government purchased foods.....	FD	4112	0.408	4.0	-0.1	1.1	-0.2	0.0	-1.2
Foods for export.....	FD	4113	1.024	4.4	-1.5	2.2	-1.4	-1.9	-1.2
Final demand energy.....	FD	412	5.845	5.1	1.5	-2.2	-6.3	5.2	-0.2
Finished consumer energy goods ³	FD	4121	4.458	4.3	1.7	-2.3	-4.5	5.2	0.4
Government purchased energy.....	FD	4122	0.933	10.2	2.2	-2.0	-12.7	7.3	-2.3
Energy for export.....	FD	4123	0.454	3.8	-1.1	-1.4	-11.9	1.0	-2.6
Final demand goods less foods and energy.....	FD	413	18.922	5.2	0.0	0.3	0.1	0.6	0.3
Finished goods less foods and energy ³	FD	4131	10.796	6.8	0.3	0.5	0.2	0.7	0.4
Finished consumer goods less foods and energy.....	FD	41311	5.749	6.5	0.2	0.6	0.1	0.6	0.5
Nondurable consumer goods less foods and energy.....	FD	413111	3.454	7.2	0.3	0.7	0.1	0.7	0.7
Durable consumer goods.....	FD	413112	2.295	5.3	0.1	0.4	0.3	0.5	0.2
Private capital equipment.....	FD	41312	5.047	7.1	0.4	0.4	0.3	0.8	0.2
Private capital equipment for manufacturing industries.....	FD	413121	1.225	8.5	0.4	0.5	0.3	0.8	0.3
Private capital equipment for nonmanufacturing industries.....	FD	413122	3.822	6.7	0.4	0.3	0.3	0.7	0.2
Government purchased goods, excluding foods and energy.....	FD	4132	1.972	5.0	0.0	0.1	0.2	0.3	0.0
Government purchased goods excluding foods, energy, and capital equipment.....	FD	41321	1.163	5.7	-0.1	0.0	0.2	0.4	-0.1
Government purchased capital equipment.....	FD	41322	0.809	3.9	0.1	0.2	0.2	0.2	0.2
Goods for export, excluding foods and energy.....	FD	4133	6.154	2.4	-0.5	0.0	-0.1	0.5	0.4
Final demand services.....	FD	42	66.603	3.8	0.2	0.3	0.4	-0.1	-0.1
Final demand trade services ⁴	FD	423	19.642	4.2	0.2	0.2	0.7	-1.1	-0.8
Trade of finished goods ³	FD	4231	16.988	4.2	0.3	0.0	0.8	-1.2	-0.6
Trade of personal consumption goods.....	FD	42311	13.855	5.0	0.5	-0.3	0.5	-1.0	-0.2
Trade of private capital equipment.....	FD	42312	3.133	0.5	-0.9	1.2	1.9	-2.2	-2.5
Trade of government purchased goods.....	FD	4232	0.746	5.2	-0.3	1.3	0.8	-1.5	-1.1
Trade of government purchased goods, excluding capital equipment.....	FD	42321	0.463	6.8	-0.1	1.1	-1.0	-0.9	0.0
Trade of government purchased capital equipment.....	FD	42322	0.283	2.7	-0.6	1.8	3.7	-2.4	-2.9
Trade of exports.....	FD	4233	1.908	3.8	-0.2	1.2	0.2	-0.3	-1.8
Final demand transportation and warehousing services.....	FD	422	5.218	6.9	0.0	-0.5	0.2	-1.2	-1.1
Transportation of passengers for final demand.....	FD	4221	1.282	22.2	1.9	-3.6	3.6	2.4	-2.6
Transportation of private passengers.....	FD	42211	0.865	22.2	1.9	-3.6	3.6	2.4	-2.5
Transportation of government passengers.....	FD	42212	0.103	21.9	1.9	-3.5	3.6	2.3	-2.5
Transportation of passengers for export.....	FD	42213	0.314	22.5	2.0	-3.6	3.7	2.4	-2.6
Transportation and warehousing of goods for final demand.....	FD	4222	3.936	2.2	-0.7	0.7	-1.0	-2.3	-0.7
Transportation and warehousing of finished goods ³	FD	42221	2.565	1.7	-0.7	0.7	-1.1	-2.5	-0.7
Transportation and warehousing of personal consumption goods.....	FD	422211	2.062	1.8	-0.7	0.7	-1.1	-2.4	-0.7
Transportation and warehousing of private capital equipment.....	FD	422212	0.503	1.1	-0.9	0.7	-1.1	-2.9	-0.8
Transportation and warehousing of government purchased goods.....	FD	42222	0.233	3.8	-0.6	0.5	-0.6	-1.7	-0.4
Transportation and warehousing of exports.....	FD	42223	1.138	2.9	-0.6	0.7	-1.0	-1.9	-0.5
Final demand services less trade, transportation, and warehousing.....	FD	421	41.742	3.3	0.2	0.5	0.3	0.6	0.3
Finished services less trade, transportation, and warehousing ³	FD	4211	36.483	3.1	0.2	0.4	0.3	0.5	0.3
Finished consumer services less trade, transportation, and warehousing.....	FD	42111	32.129	3.0	0.2	0.5	0.3	0.5	0.3
Private capital investment services less trade, transportation, and warehousing.....	FD	42112	4.354	3.9	-0.1	-0.1	0.2	0.2	-0.1
Government purchased services less trade, transportation, and warehousing.....	FD	4212	2.674	2.3	0.1	0.3	0.1	0.8	0.1
Gov. purchased services less trade, transportation, and warehousing, excl. capital investment.....	FD	42121	2.515	2.3	0.1	0.4	0.1	0.8	0.1
Government purchased capital investment services less trade, transportation, and warehousing.....	FD	42122	0.159	1.6	-0.5	-1.0	0.3	1.0	0.4
Services for export less trade, transportation, and warehousing.....	FD	4213	2.585	6.2	0.3	1.4	0.5	1.6	1.3
Final demand construction.....	FD	43	2.676	16.2	2.6	0.1	0.0	1.8	0.1
Construction for private capital investment.....	FD	431	1.861	17.1	2.6	0.1	0.1	1.9	0.1
Construction for government.....	FD	432	0.815	14.5	2.6	0.0	0.0	1.7	0.1
Special Groupings of Final Demand									
Final demand less exports.....	FD	49101	86.423	4.7	0.4	0.3	-0.2	0.3	-0.2
Final demand less government.....	FD	49102	92.116	4.5	0.3	0.3	-0.1	0.3	-0.1

See footnotes at end of table.

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

Grouping	Commodity code		Relative Importance Dec. 2022 ¹	Unadjusted 12-month percent change ² Feb. 2022 to Feb. 2023 ^P	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			Sept. to Oct.	Oct. to Nov. ^P	Nov. to Dec. ^P	Dec. to Jan. ^P	Jan. to Feb. ^P
Final demand less foods, food and nonalcoholic beverages for immediate consumption, and energy ⁵	FD	49103	87.788	4.4	0.2	0.3	0.3	0.1	0.0
Final demand less foods and energy ⁵	FD	49104	88.202	4.4	0.2	0.3	0.3	0.1	0.0
Final demand less foods and food and nonalcoholic beverages for immediate consumption ⁵	FD	49105	93.633	4.5	0.3	0.1	-0.2	0.5	0.0
Final demand less foods ⁵	FD	49106	94.047	4.4	0.3	0.1	-0.2	0.4	0.0
Final demand less energy.....	FD	49107	94.155	4.6	0.2	0.5	0.3	0.0	-0.1
Final demand less trade services.....	FD	49108	80.358	4.6	0.4	0.4	-0.4	0.7	0.0
Final demand less distributive services ⁶	FD	49109	76.422	4.8	0.4	0.3	-0.4	0.9	0.0
Final demand goods less energy.....	FD	49111	24.875	5.5	0.2	1.0	-0.1	0.2	-0.3
Final demand goods less foods.....	FD	49112	24.767	5.2	0.4	-0.3	-1.5	1.8	0.2
Final demand services less trade services.....	FD	49113	46.960	3.6	0.2	0.4	0.3	0.4	0.2
Final demand distributive services ⁶	FD	49114	23.578	3.9	0.1	0.2	0.5	-1.3	-0.8
Final demand goods plus final demand distributive services ⁶	FD	49115	54.298	4.7	0.3	0.3	-0.6	0.1	-0.5
Final demand less foods, energy, and trade services ⁵	FD	49116	68.560	4.4	0.2	0.4	0.2	0.5	0.2
Private and government purchased capital equipment.....	FD	49117	5.856	6.7	0.4	0.4	0.3	0.7	0.2
Private and government purchased capital investment services.....	FD	49118	8.432	2.5	-0.5	0.6	1.0	-1.0	-1.1
Total private and government purchased capital investment.....	FD	49119	14.288	5.7	0.2	0.4	0.6	0.0	-0.5
Total finished ³	FD	49201	78.537	4.6	0.4	0.3	0.0	0.3	-0.1
Total finished less foods, food and nonalcoholic beverages for immediate consumption, and energy ^{3, 5}	FD	49202	69.149	4.5	0.3	0.3	0.4	0.0	0.0
Total finished less foods and energy ^{3, 5}	FD	49203	69.558	4.4	0.3	0.3	0.4	0.0	0.0
Total finished less foods and food and nonalcoholic beverages for immediate consumption ^{3, 5}	FD	49204	73.607	4.4	0.4	0.1	0.0	0.3	0.0
Total finished less foods ^{3, 5}	FD	49205	74.016	4.4	0.4	0.1	0.0	0.3	0.0
Total finished less energy ³	FD	49206	74.079	4.7	0.3	0.5	0.3	0.0	-0.2
Finished goods ³	FD	49207	19.775	6.4	0.8	0.5	-1.1	1.4	-0.3
Finished goods less energy ³	FD	49208	15.317	6.9	0.6	1.4	-0.1	0.1	-0.5
Finished goods, excluding foods ^{3, 5}	FD	49209	15.254	6.1	0.7	-0.4	-1.2	2.2	0.4
Finished services ³	FD	49210	56.901	3.7	0.2	0.2	0.4	-0.1	-0.1
Private capital investment services.....	FD	49211	7.990	2.5	-0.5	0.5	0.9	-1.0	-1.1
Finished distributive services ^{3, 6}	FD	49212	19.553	3.8	0.2	0.1	0.6	-1.4	-0.7
Finished services less trade services ³	FD	49213	39.913	3.4	0.2	0.4	0.3	0.3	0.1
Finished services less distributive services ^{3, 6}	FD	49214	37.348	3.5	0.3	0.3	0.3	0.5	0.2
Total private capital investment (goods, services, and construction).....	FD	49215	14.898	5.5	0.1	0.4	0.6	0.0	-0.5
Finished goods plus finished distributive services ^{3, 6}	FD	49216	39.328	5.1	0.5	0.3	-0.3	0.0	-0.5
Total exports.....	FD	49301	13.577	3.9	-0.4	0.5	-0.4	0.3	-0.1
Goods for export.....	FD	49302	7.632	2.7	-0.7	0.2	-1.0	0.3	0.0
Services for export.....	FD	49303	5.945	5.6	0.0	1.0	0.3	0.4	-0.2
Total government purchases.....	FD	49401	7.884	5.7	0.5	0.0	-1.6	1.2	-0.5
Government purchased goods.....	FD	49402	3.313	6.3	0.6	-0.4	-3.6	2.3	-0.8
Government purchased services.....	FD	49403	3.756	3.6	0.0	0.5	0.3	0.2	-0.2
Total government purchased capital investment (goods, services, construction).....	FD	49404	2.066	7.2	0.8	0.3	0.7	0.5	-0.2
Government purchases, defense.....	FD	49405	2.342	4.7	0.3	0.0	-1.9	1.3	-0.5
Government purchases, non-defense.....	FD	49406	5.542	6.0	0.6	0.0	-1.5	1.2	-0.5
Personal consumption.....	FD	49501	63.639	4.4	0.5	0.3	-0.2	0.3	0.0
Personal consumption goods (finished consumer goods).....	FD	49502	14.728	6.1	1.0	0.5	-1.6	1.6	-0.4
Personal consumption goods less energy.....	FD	49503	10.270	6.9	0.6	1.9	-0.3	-0.2	-0.9
Personal consumption goods less foods.....	FD	49504	10.207	5.6	0.9	-0.7	-2.0	2.8	0.5
Personal consumption nondurable goods less foods.....	FD	49508	7.912	5.8	1.1	-1.0	-2.5	3.5	0.5
Personal consumption services.....	FD	49505	48.911	3.9	0.3	0.2	0.4	0.0	0.1
Personal consumption less trade services.....	FD	49506	49.784	4.2	0.5	0.5	-0.4	0.7	0.0
Personal consumption less distributive services ⁶	FD	49507	47.722	4.3	0.5	0.4	-0.3	0.8	0.0
Personal consumption less foods and energy.....	FD	49510	54.660	4.2	0.3	0.2	0.3	0.1	0.1
Personal consumption less foods, energy, and trade services ⁴	FD	49511	40.805	3.8	0.2	0.4	0.3	0.4	0.2
Personal consumption less foods, energy, and distributive services ⁶	FD	49512	38.743	4.0	0.3	0.4	0.3	0.6	0.3
Personal consumption goods plus personal consumption distributive services ⁶	FD	49509	30.645	5.3	0.7	0.2	-0.6	0.1	-0.4
Intermediate Demand by Commodity Type									
Processed goods									
Processed goods for intermediate demand.....	ID6	1	100.000	2.1	-0.2	-0.5	-2.5	1.1	-0.4
Materials and components for manufacturing.....	ID6	11	42.988	-1.6	-1.1	-0.3	-0.6	-0.1	-0.1
Materials for manufacturing.....	ID6	111	27.087	-5.3	-1.8	-0.5	-1.0	-0.5	-0.4
Materials for food manufacturing.....	ID6	1111	4.441	4.4	0.2	0.9	-0.7	0.1	-2.1
Materials for nondurable manufacturing.....	ID6	1112	12.298	-2.9	-1.4	-0.8	-0.8	-0.5	-1.3
Materials for durable manufacturing.....	ID6	1113	10.348	-10.7	-3.0	-0.7	-1.4	-0.8	1.5
Components for manufacturing.....	ID6	112	15.901	5.4	0.1	0.2	0.1	0.6	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
[February 2023]

Grouping	Commodity code		Relative Importance Dec. 2022 ¹	Unadjusted 12-month percent change ² Feb. 2022 to Feb. 2023 ^P	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			Sept. to Oct.	Oct. to Nov. ^P	Nov. to Dec. ^P	Dec. to Jan. ^P	Jan. to Feb. ^P
Components for nondurable manufacturing.....	ID6	1121	0.796	5.1	-0.3	0.2	-0.2	0.0	0.4
Components for durable manufacturing.....	ID6	1122	15.105	5.4	0.1	0.2	0.1	0.6	0.3
Materials and components for construction.....	ID6	12	10.365	2.9	-0.1	-0.2	-0.3	0.0	0.0
Materials for construction.....	ID6	121	4.589	-1.2	-0.4	-0.1	-0.7	-0.5	0.2
Components for construction.....	ID6	122	5.776	6.1	0.0	-0.3	0.0	0.5	-0.1
Processed fuels and lubricants for intermediate demand.....	ID6	13	19.623	5.7	1.5	-1.8	-9.9	5.3	-1.6
Processed fuels and lubricants to manufacturing industries.....	ID6	131	4.883	5.8	1.2	-1.7	-5.6	3.0	-4.7
Processed fuels and lubricants to nonmanufacturing industries.....	ID6	132	14.740	5.6	1.6	-1.9	-11.3	6.1	-0.6
Containers for intermediate demand.....	ID6	14	3.112	7.3	0.0	0.2	0.0	-0.1	0.1
Supplies for intermediate demand.....	ID6	15	23.911	5.4	-0.3	0.2	0.0	0.4	-0.3
Supplies to manufacturing industries.....	ID6	151	3.184	3.9	-0.5	-0.2	0.0	-0.1	0.1
Supplies to nonmanufacturing industries.....	ID6	152	20.727	5.6	-0.3	0.3	-0.1	0.5	-0.3
Supplies to nonmanufacturing industries, feeds.....	ID6	1521	2.361	6.6	-1.3	0.2	-0.5	-0.4	-2.4
Supplies to nonmanufacturing industries, other than feeds.....	ID6	1522	18.366	5.6	-0.2	0.3	0.0	0.6	0.0
Unprocessed goods									
Unprocessed goods for intermediate demand.....	ID6	2	100.000	-10.9	-9.7	-3.1	1.6	-6.3	-3.8
Unprocessed foodstuffs and feedstuffs.....	ID6	21	35.620	2.1	-0.7	0.0	-0.2	-5.6	-1.1
Unprocessed nonfood materials.....	ID6	22	64.381	-16.9	-13.7	-4.6	2.5	-6.7	-5.3
Unprocessed nonfood materials except fuel.....	ID6	221	45.037	-8.2	-1.0	-1.6	-7.0	0.1	4.1
Unprocessed nonfood materials except fuel to manufacturing industries.....	ID6	2211	43.152	-9.0	-1.1	-1.6	-7.4	0.0	4.3
Unprocessed nonfood materials except fuel to nonmanufacturing industries.....	ID6	2212	1.885	12.6	0.3	0.2	0.6	3.5	0.4
Unprocessed fuel.....	ID6	222	19.344	-46.1	-30.6	-10.5	22.5	-22.6	-33.7
Unprocessed fuel to manufacturing industries.....	ID6	2221	1.007	-4.1	-11.7	-4.5	0.2	-8.4	-9.5
Unprocessed fuel to nonmanufacturing industries.....	ID6	2222	18.337	-48.3	-31.6	-10.9	24.2	-23.4	-35.3
Services									
Services for intermediate demand.....	ID6	3	100.000	6.0	0.4	0.8	0.0	0.7	0.3
Trade services for intermediate demand ⁴	ID6	33	18.467	3.6	0.0	0.9	-1.2	0.1	-0.7
Trade services for manufacturing industries.....	ID6	331	9.100	4.2	0.0	0.8	-1.3	1.2	-1.1
Trade services for nonmanufacturing industries.....	ID6	332	9.367	3.1	0.0	0.9	-1.1	-1.0	-0.4
Transportation and warehousing services for intermediate demand.....	ID6	32	14.424	4.1	0.6	-1.3	0.3	0.0	-0.2
Transportation of passengers for intermediate demand.....	ID6	321	1.070	21.9	1.9	-3.5	3.6	2.3	-2.5
Transportation of passengers for manufacturing industries.....	ID6	3211	0.127	22.5	2.0	-3.6	3.7	2.4	-2.6
Transportation of passengers for nonmanufacturing industries.....	ID6	3212	0.943	21.8	1.9	-3.5	3.6	2.3	-2.5
Transportation and warehousing of goods for intermediate demand.....	ID6	322	13.354	2.7	0.5	-1.1	0.0	-0.2	0.0
Transportation and warehousing of goods for manufacturing industries.....	ID6	3221	2.932	4.4	-0.6	0.5	-0.8	-1.6	-0.5
Transportation and warehousing of goods for nonmanufacturing industries.....	ID6	3222	10.422	2.3	0.8	-1.5	0.2	0.2	0.1
Services less trade, transportation, and warehousing for intermediate demand.....	ID6	31	67.109	7.0	0.5	1.2	0.4	1.1	0.6
Services less trade, transportation, and warehousing for manufacturing industries.....	ID6	311	2.057	5.4	0.4	0.2	0.2	1.1	0.3
Services less trade, transportation, and warehousing for nonmanufacturing industries.....	ID6	312	65.052	7.1	0.5	1.2	0.4	1.1	0.6
Construction									
Construction for intermediate demand.....	ID6	4	100.000	5.5	0.6	0.1	0.0	0.7	0.4
Special Groupings of Intermediate Demand by Commodity Type									
Processed materials less foods and feeds.....	ID6	9111	90.955	1.9	-0.2	-0.6	-2.6	1.2	-0.3
Processed foods and feeds.....	ID6	9112	9.045	5.0	-0.2	0.8	-0.6	0.2	-1.9
Processed energy goods.....	ID6	9113	19.623	5.7	1.5	-1.8	-9.9	5.3	-1.6
Processed materials less energy.....	ID6	9118	80.377	1.3	-0.7	-0.1	-0.4	0.1	-0.1
Processed materials less foods and energy.....	ID6	9115	71.332	0.9	-0.8	-0.2	-0.3	0.1	0.1
Intermediate distributive services ⁷	ID6	9116	31.821	3.4	0.2	0.2	-0.8	0.0	-0.4
Processed goods plus intermediate distributive services.....	ID6	9117	-	2.5	-0.1	-0.3	-2.0	0.8	-0.4
Unprocessed materials less agricultural products.....	ID6	9211	58.886	-18.7	-14.7	-4.9	3.5	-7.5	-6.0
Unprocessed energy materials ⁸	ID6	9212	44.011	-23.2	-18.1	-6.7	5.0	-11.0	-9.1
Unprocessed materials less energy.....	ID6	9213	55.989	-0.6	-1.8	-0.3	-0.6	-3.0	-0.2
Unprocessed nonfood materials less energy ⁹	ID6	9216	20.369	-4.7	-4.1	-0.7	-1.3	1.6	1.2
Intermediate Demand by Production Flow									
Stage 4 Intermediate Demand									
Stage 4 intermediate demand.....	ID5	4	100.000	4.8	0.1	0.4	-0.3	0.9	0.0
Inputs to stage 4 goods producers.....	ID5	41	30.323	3.7	-0.2	0.3	-0.5	0.3	-0.1
Goods.....	ID5	411	22.393	3.7	-0.3	0.0	-0.3	0.1	0.1

See footnotes at end of table.

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

Grouping	Commodity code		Relative Importance Dec. 2022 ¹	Unadjusted 12-month percent change ² Feb. 2022 to Feb. 2023 ^P	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			Sept. to Oct.	Oct. to Nov. ^P	Nov. to Dec. ^P	Dec. to Jan. ^P	Jan. to Feb. ^P
Foods.....	ID5	4111	3.288	6.3	-0.2	0.2	-1.8	0.2	-1.2
Energy.....	ID5	4112	0.202	9.2	6.8	2.5	-0.4	-3.7	-0.3
Goods excluding foods and energy.....	ID5	4113	18.903	3.2	-0.4	-0.1	-0.1	0.1	0.4
Services.....	ID5	412	7.930	3.5	0.1	1.0	-0.9	0.9	-0.9
Trade services.....	ID5	4123	5.937	2.9	0.1	1.2	-1.2	1.0	-1.2
Transportation and warehousing services.....	ID5	4122	0.515	5.6	-0.4	-0.2	0.1	-0.5	-1.1
Transportation of passengers.....	ID5	41221	0.078	22.5	2.0	-3.6	3.7	2.4	-2.6
Transportation and warehousing of goods.....	ID5	41222	0.437	3.1	-0.8	0.5	-0.5	-1.0	-0.8
Services less trade, transportation, and warehousing.....	ID5	4121	1.478	5.0	0.3	0.2	0.2	1.0	0.4
Inputs to stage 4 services producers.....	ID5	42	54.857	6.1	0.2	0.7	0.1	1.3	0.0
Goods.....	ID5	421	13.958	5.8	0.0	-0.2	-0.8	1.8	-0.6
Foods.....	ID5	4211	2.359	0.5	-1.1	1.0	-1.2	0.0	-1.3
Energy.....	ID5	4212	4.105	9.7	0.4	-1.5	-2.1	4.7	-1.3
Goods excluding foods and energy.....	ID5	4213	7.494	5.5	0.2	0.2	0.0	0.6	0.1
Services.....	ID5	422	40.847	6.1	0.3	1.0	0.4	1.2	0.2
Trade services.....	ID5	4223	4.133	5.8	0.1	0.9	-0.9	0.2	-1.0
Transportation and warehousing services.....	ID5	4222	3.688	8.9	0.7	-1.1	1.4	1.2	0.2
Transportation of passengers.....	ID5	42221	0.491	22.3	1.9	-3.6	3.7	2.4	-2.6
Transportation and warehousing of goods.....	ID5	42222	3.197	7.0	0.5	-0.7	1.1	1.1	0.6
Services less trade, transportation, and warehousing.....	ID5	4221	33.026	5.8	0.3	1.3	0.5	1.3	0.4
Construction.....	ID5	423	0.052	5.5	0.6	0.1	0.0	0.7	0.4
Inputs to stage 4 construction producers.....	ID5	43	14.819	2.5	0.2	-0.2	-1.5	0.5	0.2
Goods.....	ID5	431	10.791	2.8	0.3	-0.4	-1.6	0.8	0.2
Energy.....	ID5	4312	0.840	-1.6	3.9	-3.5	-13.8	6.2	1.3
Goods excluding foods and energy.....	ID5	4313	9.951	3.2	-0.1	-0.1	-0.3	0.3	0.1
Services.....	ID5	432	4.028	1.7	-0.1	0.3	-1.2	-0.2	0.0
Trade services.....	ID5	4323	1.737	-0.1	-0.1	0.2	-2.2	0.3	0.0
Transportation and warehousing services.....	ID5	4322	0.722	1.4	-0.8	0.6	-0.9	-2.5	-0.9
Transportation of passengers.....	ID5	43221	0.015	22.4	2.0	-3.6	3.7	2.4	-2.6
Transportation and warehousing of goods.....	ID5	43222	0.707	1.0	-0.9	0.7	-1.1	-2.6	-0.9
Services less trade, transportation, and warehousing.....	ID5	4321	1.569	4.6	0.2	0.3	0.0	0.4	0.3
Stage 3 Intermediate Demand									
Stage 3 intermediate demand.....	ID5	3	100.000	2.3	-0.1	-0.4	-1.9	0.1	-0.2
Inputs to stage 3 goods producers.....	ID5	31	45.396	-1.3	-1.2	-0.8	-1.3	-1.5	-0.5
Goods.....	ID5	311	35.711	-2.7	-1.4	-1.0	-1.4	-2.0	-0.4
Foods.....	ID5	3111	11.819	0.9	-1.0	-0.7	-0.5	-5.4	-1.9
Energy.....	ID5	3112	1.238	-1.9	2.5	-2.0	-16.6	1.2	-2.5
Goods excluding foods and energy.....	ID5	3113	22.654	-4.3	-1.9	-1.1	-0.7	-0.4	0.5
Services.....	ID5	312	9.685	4.9	-0.1	0.2	-1.0	0.5	-0.7
Trade services.....	ID5	3123	5.316	5.3	-0.1	0.0	-1.5	1.7	-0.8
Transportation and warehousing services.....	ID5	3122	3.003	3.9	-0.6	0.4	-0.6	-2.0	-0.9
Transportation of passengers.....	ID5	31221	0.144	22.5	2.0	-3.6	3.7	2.4	-2.6
Transportation and warehousing of goods.....	ID5	31222	2.859	3.1	-0.7	0.7	-0.8	-2.2	-0.8
Services less trade, transportation, and warehousing.....	ID5	3121	1.366	6.4	0.5	0.2	-0.1	1.0	0.4
Inputs to stage 3 services producers.....	ID5	32	53.446	5.9	1.0	-0.1	-2.5	1.5	0.0
Goods.....	ID5	321	10.524	7.4	2.1	-1.3	-11.4	5.1	-1.6
Foods.....	ID5	3211	0.090	8.3	-1.1	0.9	-0.4	2.6	-2.0
Energy.....	ID5	3212	6.519	8.7	3.1	-2.2	-17.0	8.0	-2.4
Goods excluding foods and energy.....	ID5	3213	3.915	5.4	0.0	0.4	0.0	0.3	0.0
Services.....	ID5	322	42.349	5.5	0.6	0.3	0.4	0.6	0.4
Trade services.....	ID5	3223	2.635	11.4	-0.5	1.0	-0.5	-1.7	1.1
Transportation and warehousing services.....	ID5	3222	10.001	0.9	1.4	-2.3	0.4	0.7	0.2
Transportation of passengers.....	ID5	32221	0.021	2.8	-0.1	-0.1	0.2	0.0	-0.1
Transportation and warehousing of goods.....	ID5	32222	9.980	0.9	1.4	-2.3	0.4	0.7	0.2
Services less trade, transportation, and warehousing.....	ID5	3221	29.713	6.5	0.5	1.1	0.6	0.8	0.4
Construction.....	ID5	323	0.573	5.5	0.6	0.1	0.0	0.7	0.4
Inputs to stage 3 construction producers.....	ID5	33	1.157	-5.9	0.3	0.0	-2.5	-0.6	-0.7
Goods.....	ID5	331	0.569	-2.2	-0.5	-0.6	-0.7	-0.4	-0.1
Goods excluding foods and energy.....	ID5	3313	0.569	-2.2	-0.5	-0.6	-0.7	-0.4	-0.1
Services.....	ID5	332	0.588	-8.4	1.0	0.5	-3.8	-0.5	-1.2
Trade services.....	ID5	3323	0.543	-9.2	1.0	0.5	-4.0	-0.6	-1.3
Transportation and warehousing services.....	ID5	3322	0.016	9.0	-0.6	0.2	-0.1	0.3	-0.8
Transportation and warehousing of goods.....	ID5	33222	0.016	9.0	-0.6	0.2	-0.1	0.3	-0.8
Services less trade, transportation, and warehousing.....	ID5	3321	0.029	8.0	0.6	0.1	-0.3	2.1	0.0
Stage 2 Intermediate Demand									

See footnotes at end of table.

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

Grouping	Commodity code		Relative Importance Dec. 2022 ¹	Unadjusted 12-month percent change ² Feb. 2022 to Feb. 2023 ^P	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			Sept. to Oct.	Oct. to Nov. ^P	Nov. to Dec. ^P	Dec. to Jan. ^P	Jan. to Feb. ^P
Stage 2 intermediate demand.....	ID5	2	100.000	-1.0	-4.7	-1.0	1.1	-1.9	-1.0
Inputs to stage 2 goods producers.....	ID5	21	54.614	-8.5	-8.7	-2.4	1.5	-4.1	-3.1
Goods.....	ID5	211	41.174	-12.8	-10.9	-3.2	1.9	-5.5	-4.2
Foods.....	ID5	2111	4.315	4.4	-3.5	0.8	-0.6	-2.4	-1.0
Energy.....	ID5	2112	21.420	-23.6	-18.0	-6.4	4.3	-10.6	-8.6
Goods excluding foods and energy.....	ID5	2113	15.439	-1.7	-1.9	0.0	-0.3	0.4	0.3
Services.....	ID5	212	13.177	8.6	0.5	0.5	-0.2	0.5	0.1
Trade services.....	ID5	2123	5.199	5.3	0.5	0.4	-0.8	-0.2	-1.4
Transportation and warehousing services.....	ID5	2122	4.453	8.1	0.1	-0.3	-0.3	0.3	0.3
Transportation of passengers.....	ID5	21221	0.167	21.1	1.8	-3.4	3.5	2.3	-2.5
Transportation and warehousing of goods.....	ID5	21222	4.286	7.4	0.0	-0.1	-0.6	0.2	0.4
Services less trade, transportation, and warehousing.....	ID5	2121	3.525	14.4	1.0	1.2	1.0	1.7	2.2
Construction.....	ID5	213	0.263	5.5	0.6	0.1	0.0	0.7	0.4
Inputs to stage 2 services producers.....	ID5	22	45.386	8.7	0.7	0.7	0.6	0.8	1.3
Goods.....	ID5	221	5.020	4.2	-0.2	-0.2	-0.8	0.6	-0.2
Foods.....	ID5	2211	0.055	-1.9	-2.5	-0.8	-1.2	-1.4	-1.7
Energy.....	ID5	2212	0.350	3.5	-0.1	-2.9	-10.8	7.9	-1.3
Goods excluding foods and energy.....	ID5	2213	4.615	4.3	-0.1	0.0	0.0	0.1	-0.1
Services.....	ID5	222	39.489	9.5	0.9	0.8	0.8	0.9	1.5
Trade services.....	ID5	2223	2.263	11.0	-1.2	2.2	4.7	-4.6	-0.5
Transportation and warehousing services.....	ID5	2222	2.842	-10.6	3.0	-6.9	1.1	-1.7	-1.3
Transportation of passengers.....	ID5	22221	0.388	22.3	1.9	-3.6	3.7	2.4	-2.6
Transportation and warehousing of goods.....	ID5	22222	2.454	-14.5	3.2	-7.4	0.6	-2.4	-1.1
Services less trade, transportation, and warehousing.....	ID5	2221	34.384	11.2	0.9	1.5	0.4	1.4	1.9
Construction.....	ID5	223	0.877	5.5	0.6	0.1	0.0	0.7	0.4
Stage 1 Intermediate Demand									
Stage 1 intermediate demand.....	ID5	1	100.000	3.6	0.1	0.1	-1.7	0.7	-0.4
Inputs to stage 1 goods producers.....	ID5	11	33.622	0.2	-1.2	-0.5	-1.5	0.4	-0.5
Goods.....	ID5	111	24.730	-1.4	-1.6	-0.7	-1.6	0.0	-0.4
Foods.....	ID5	1111	3.334	5.3	-3.2	-1.1	-2.2	-0.4	-1.0
Energy.....	ID5	1112	3.858	6.1	-0.2	-0.8	-4.5	2.6	-1.6
Goods excluding foods and energy.....	ID5	1113	17.538	-4.1	-1.7	-0.6	-0.9	-0.5	0.0
Services.....	ID5	112	8.891	4.5	-0.2	0.1	-1.0	1.5	-0.8
Trade services.....	ID5	1123	5.434	4.0	-0.2	0.1	-1.6	2.1	-1.4
Transportation and warehousing services.....	ID5	1122	0.606	15.3	-0.2	-1.0	0.1	0.0	-0.3
Transportation of passengers.....	ID5	11221	0.103	22.5	2.0	-3.6	3.7	2.4	-2.6
Transportation and warehousing of goods.....	ID5	11222	0.503	13.8	-0.5	-0.6	-0.4	-0.5	0.1
Services less trade, transportation, and warehousing.....	ID5	1121	2.851	3.2	0.0	0.4	-0.1	0.7	0.4
Construction.....	ID5	113	0.001	5.5	0.6	0.1	0.0	0.7	0.4
Inputs to stage 1 services producers.....	ID5	12	53.476	6.6	0.8	0.6	-1.6	1.0	-0.4
Goods.....	ID5	121	16.341	7.4	1.3	-0.5	-4.7	2.2	-0.9
Foods.....	ID5	1211	0.115	69.7	20.8	-1.1	8.3	-2.4	-16.2
Energy.....	ID5	1212	5.454	6.1	2.7	-1.7	-12.9	5.3	-2.6
Goods excluding foods and energy.....	ID5	1213	10.772	7.9	0.3	0.3	0.4	0.7	0.1
Services.....	ID5	122	37.132	6.2	0.6	1.2	0.1	0.5	-0.1
Trade services.....	ID5	1223	3.680	8.0	-1.0	1.7	-0.9	-1.0	0.7
Transportation and warehousing services.....	ID5	1222	4.369	10.7	0.8	-1.1	0.9	1.1	-0.9
Transportation of passengers.....	ID5	12221	1.346	22.5	2.0	-3.6	3.7	2.4	-2.6
Transportation and warehousing of goods.....	ID5	12222	3.023	6.0	0.3	0.1	-0.3	0.6	-0.1
Services less trade, transportation, and warehousing.....	ID5	1221	29.083	5.3	0.8	1.4	0.2	0.5	-0.1
Construction.....	ID5	123	0.003	5.5	0.6	0.1	0.0	0.7	0.4
Inputs to stage 1 construction producers.....	ID5	13	12.902	1.4	0.7	0.0	-3.1	0.1	-0.6
Goods.....	ID5	131	9.191	5.7	0.7	-0.2	-3.0	0.8	-0.4
Energy.....	ID5	1312	0.911	6.1	5.8	-1.7	-22.1	6.3	-4.3
Goods excluding foods and energy.....	ID5	1313	8.280	5.6	0.0	0.0	0.0	0.2	0.0
Services.....	ID5	132	3.711	-6.7	0.5	0.5	-3.3	-1.4	-0.8
Trade services.....	ID5	1323	2.767	-7.5	0.8	0.5	-3.6	-0.7	-0.9
Transportation and warehousing services.....	ID5	1322	0.852	0.6	-0.9	0.7	-1.3	-3.3	-0.8
Transportation and warehousing of goods.....	ID5	13222	0.852	0.6	-0.9	0.7	-1.3	-3.3	-0.8
Services less trade, transportation, and warehousing.....	ID5	1321	0.092	7.8	0.4	0.3	0.2	0.6	-0.2
Special Groupings of Intermediate Demand by Production Flow									
Total goods inputs to stage 4 intermediate demand.....	ID5	9411	47.142	4.2	-0.1	-0.1	-0.7	0.8	0.0
Total services inputs to stage 4 intermediate demand.....	ID5	9412	52.805	5.3	0.2	1.0	0.0	1.0	0.1
Total construction inputs to stage 4 intermediate demand.....	ID5	9413	0.052	5.5	0.6	0.1	0.0	0.7	0.4
Total foods inputs to stage 4 intermediate demand.....	ID5	9414	5.647	3.8	-0.6	0.6	-1.5	0.1	-1.2

See footnotes at end of table.

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

Grouping	Commodity code		Relative Importance Dec. 2022 ¹	Unadjusted 12-month percent change ² Feb. 2022 to Feb. 2023 ^p	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			Sept. to Oct.	Oct. to Nov. ^p	Nov. to Dec. ^p	Dec. to Jan. ^p	Jan. to Feb. ^p
Total energy goods inputs to stage 4 intermediate demand.....	ID5	9415	5.147	7.5	1.3	-1.7	-4.3	4.6	-0.9
Total goods less foods and energy inputs to stage 4 intermediate demand.	ID5	9416	36.348	3.7	-0.2	0.0	-0.1	0.3	0.3
Total goods inputs to stage 3 intermediate demand.....	ID5	9311	46.804	-0.5	-0.6	-1.1	-3.8	-0.4	-0.7
Total services inputs to stage 3 intermediate demand.....	ID5	9312	52.622	5.2	0.5	0.3	0.1	0.5	0.2
Total construction inputs to stage 3 intermediate demand.....	ID5	9313	0.573	5.5	0.6	0.1	0.0	0.7	0.4
Total foods inputs to stage 3 intermediate demand.....	ID5	9314	11.909	0.9	-1.0	-0.7	-0.5	-5.3	-1.9
Total energy goods inputs to stage 3 intermediate demand.....	ID5	9315	7.757	6.8	3.0	-2.1	-16.9	6.9	-2.4
Total goods less foods and energy inputs to stage 3 intermediate demand.	ID5	9316	27.138	-3.0	-1.7	-0.9	-0.6	-0.3	0.4
Total goods inputs to stage 2 intermediate demand.....	ID5	9211	46.194	-11.1	-9.8	-2.9	1.6	-4.9	-3.7
Total services inputs to stage 2 intermediate demand.....	ID5	9212	52.666	9.3	0.8	0.8	0.6	0.8	1.2
Total construction inputs to stage 2 intermediate demand.....	ID5	9213	1.140	5.5	0.6	0.1	0.0	0.7	0.4
Total foods inputs to stage 2 intermediate demand.....	ID5	9214	4.370	4.3	-3.5	0.7	-0.6	-2.4	-1.0
Total energy goods inputs to stage 2 intermediate demand.....	ID5	9215	21.770	-23.2	-17.7	-6.3	4.0	-10.3	-8.4
Total goods less foods and energy inputs to stage 2 intermediate demand.	ID5	9216	20.054	-0.4	-1.5	0.0	-0.2	0.3	0.2
Total goods inputs to stage 1 intermediate demand.....	ID5	9111	50.262	2.7	-0.2	-0.6	-2.9	0.9	-0.6
Total services inputs to stage 1 intermediate demand.....	ID5	9112	49.734	4.6	0.4	0.9	-0.4	0.5	-0.3
Total construction inputs to stage 1 intermediate demand.....	ID5	9117	0.004	5.5	0.6	0.1	0.0	0.7	0.4
Total foods inputs to stage 1 intermediate demand.....	ID5	9114	3.449	6.2	-2.7	-1.1	-1.9	-0.5	-1.5
Total energy goods inputs to stage 1 intermediate demand.....	ID5	9115	10.223	6.0	2.1	-1.4	-11.1	4.3	-2.4
Total goods less foods and energy inputs to stage 1 intermediate demand.	ID5	9116	36.590	1.6	-0.7	-0.2	-0.3	0.0	0.1

¹ 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.

² 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.

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

⁴ Trade indexes measure changes in margins received by wholesalers and retailers.

⁵ 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.

⁶ Distributive services include transportation, warehousing, and trade of goods.

⁷ Includes intermediate trade, transportation, and warehousing services.

⁸ Includes crude petroleum.

⁹ Excludes crude petroleum.

^p Preliminary

"-" Data not available.

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

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Feb. 2022 to Feb. 2023 ^P	Sept. to Oct.	Oct. to Nov. ^P	Nov. to Dec. ^P	Dec. to Jan. ^P
Final Demand								
Final demand.....	FD	4	4.6	0.3	0.3	-0.2	0.3	-0.1
Final demand goods.....	FD	41	5.4	0.4	0.3	-1.4	1.2	-0.2
Final demand foods.....	FD	411	6.9	0.7	3.3	-0.9	-1.2	-2.2
Fresh fruits and melons ²	01	11	3.7	11.5	3.2	-7.8	6.5	-6.4
Fresh and dry vegetables ²	01	13	26.2	22.3	38.2	-9.4	-33.5	-13.6
Grains.....	01	2	7.6	-4.5	-3.2	-4.0	-1.6	0.8
Eggs for fresh use ²	01	7107	38.2	15.0	26.0	24.5	-12.7	-41.3
Oilseeds.....	01	8301	0.5	-7.9	3.2	0.0	-4.9	0.6
Bakery products ²	02	11	9.9	0.2	1.4	0.1	0.3	0.6
Milled rice ²	02	13	21.6	1.4	0.7	2.0	3.3	0.4
Pasta products ²	02	1402	26.7	1.7	0.0	0.0	8.9	1.3
Beef and veal.....	02	2101	-3.5	-2.5	2.9	4.4	7.5	-1.3
Pork.....	02	2104	-2.1	0.2	1.2	-1.9	-2.1	-2.5
Processed young chickens.....	02	2203	-14.1	-7.7	-0.4	-4.3	-3.7	0.1
Processed turkeys ²	02	2206	19.5	-0.7	0.0	-0.3	0.0	-2.2
Finfish and shellfish.....	02	23	-1.3	0.9	-1.9	-1.9	0.7	-1.1
Dairy products.....	02	3	2.1	0.1	-0.2	-0.2	-1.6	-1.2
Processed fruits and vegetables ²	02	4	18.8	0.7	1.7	0.2	1.5	1.0
Confectionery end products ²	02	55	5.7	0.3	0.5	-0.4	-1.1	1.8
Soft drinks ²	02	62	14.7	-0.6	0.3	-1.2	7.6	-1.5
Roasted coffee ²	02	6301	9.2	0.9	0.7	0.4	-0.2	0.0
Shortening and cooking oils ²	02	78	-2.0	-3.5	2.8	-4.2	-2.2	-1.9
Frozen specialty food ²	02	85	11.4	0.0	0.5	0.5	0.8	0.3
Final demand energy.....	FD	412	5.1	1.5	-2.2	-6.3	5.2	-0.2
Liquefied petroleum gas ²	05	32	-38.3	-13.4	1.0	-14.6	-4.1	1.6
Residential electric power.....	05	41	12.6	1.6	-0.2	1.0	1.5	0.6
Residential natural gas.....	05	51	15.5	-3.1	-2.1	2.1	12.2	-9.7
Gasoline.....	05	71	-5.0	3.2	-4.7	-8.7	6.9	4.2
Home heating oil and distillates.....	05	7302	5.7	4.1	-6.3	-5.3	1.3	-13.2
No. 2 diesel fuel.....	05	7303	4.8	6.8	-1.8	-27.5	11.0	-4.7
Final demand goods less foods and energy.....	FD	413	5.2	0.0	0.3	0.1	0.6	0.3
Alcoholic beverages.....	02	61	5.8	1.0	1.0	0.4	0.1	0.0
Pet food ²	02	9402	12.1	0.0	1.3	0.1	0.2	0.1
Women's, girls', and infants' apparel ²	03	8106	0.4	-0.1	0.0	0.0	0.0	0.1
Men's and boys' apparel ²	03	8107	7.2	0.0	0.5	0.0	0.1	0.2
Textile housefurnishings ²	03	82	4.8	2.1	0.0	0.0	0.1	0.0
Footwear.....	04	3	11.5	0.8	0.1	0.2	0.3	1.0
Industrial chemicals.....	06	1	-4.8	-2.0	-1.3	-0.4	-0.3	-2.1
Pharmaceutical preparations.....	06	38	2.5	0.2	0.1	-0.3	0.6	0.5
Soaps and detergents ²	06	71	16.8	3.3	1.3	3.2	1.2	0.2
Cleaning and polishing products ²	06	72	4.5	0.2	0.3	0.0	0.2	0.4
Cosmetics and other toiletries ²	06	75	6.3	0.5	0.1	0.0	1.2	2.0
Tires ²	07	1201	12.7	1.0	0.6	0.6	2.4	0.0
Consumer, institutional, and commercial products, n.e.c. ²	07	2B	8.6	-0.5	0.2	-0.1	0.3	0.3
Sanitary paper products ²	09	1501	13.4	1.3	2.8	-0.4	0.9	0.0
Iron and steel scrap.....	10	12	-8.9	0.5	-1.8	-4.3	2.4	10.6
Agricultural machinery and equipment.....	11	1	9.7	1.5	-0.2	0.1	0.3	-0.3
Construction machinery and equipment ²	11	2	12.0	0.0	0.2	0.0	3.4	0.4
Metal cutting machine tools ²	11	37	3.9	0.3	0.6	0.0	0.3	1.1
Metal forming machine tools.....	11	38	6.6	0.3	-0.1	0.1	-0.2	-0.1
Tools, dies, jigs, fixtures, and industrial molds ²	11	39	7.5	0.6	0.2	0.2	1.3	0.3
Pumps, compressors, and equipment.....	11	41	12.8	1.2	0.8	0.6	1.3	-0.1
Industrial material handling equipment ²	11	44	10.7	0.3	1.6	0.1	1.6	0.6
Electronic computers and computer equipment ²	11	5	3.7	-0.2	0.0	1.0	1.7	0.3
Textile machinery and equipment ²	11	62	0.2	0.0	-0.1	0.0	0.0	0.0
Paper industries machinery ²	11	64	10.3	-0.1	1.9	0.2	1.0	0.0
Printing trades machinery and equipment ²	11	65	1.9	0.6	-0.2	0.0	0.5	-0.1
Transformers and power regulators ²	11	74	19.2	-2.7	0.6	0.4	2.5	0.6
Communication and related equipment.....	11	76	3.2	0.1	0.2	0.3	0.3	-0.1
Electronic components and accessories.....	11	78	1.7	0.8	0.5	0.2	-0.7	-0.4
X-ray and electromedical equipment ²	11	7905	4.6	0.0	0.0	0.1	1.4	0.0
Oil field and gas field machinery ²	11	91	8.0	5.0	0.1	0.0	0.8	0.0
Mining machinery and equipment ²	11	92	13.7	0.0	1.0	0.3	0.5	0.0
Office and store machines and equipment ²	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
 [February 2023]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Feb. 2022 to Feb. 2023 ^P	Sept. to Oct.	Oct. to Nov. ^P	Nov. to Dec. ^P	Dec. to Jan. ^P
Household furniture ²	12	1	7.4	-0.4	-0.2	0.5	0.7	0.2
Commercial furniture ²	12	2	9.6	0.3	1.6	0.9	-0.7	0.6
Floor coverings ²	12	3	0.6	0.6	0.8	-1.6	0.5	-0.1
Household appliances ²	12	4	7.4	-0.1	-0.3	0.7	0.0	0.1
Home electronic equipment ²	12	5	6.0	0.2	0.0	0.0	0.4	0.8
Lawn and garden equipment excl. garden tractors ²	12	66	10.7	1.1	0.0	1.4	1.8	-0.1
Passenger cars.....	14	1101	2.3	-1.2	0.2	0.0	0.7	0.2
Light motor trucks.....	14	1105	6.3	0.7	0.4	0.5	0.6	0.2
Heavy motor trucks ²	14	1106	2.4	0.0	0.1	0.0	0.1	0.2
Motor vehicles parts ²	14	12	2.9	-0.1	-0.1	0.1	0.4	-0.1
Truck trailers ²	14	14	2.6	0.2	-0.1	0.1	-1.3	-0.6
Travel trailers and campers ²	14	16	5.0	0.6	0.1	0.0	0.0	0.0
Aircraft.....	14	21	5.2	0.4	0.3	0.4	0.3	0.4
Ships ²	14	31	1.3	0.0	0.0	0.3	0.3	0.0
Railroad equipment ²	14	4	1.2	0.0	0.1	0.0	0.1	0.2
Toys, games, and children's vehicles ²	15	11	1.7	0.9	0.0	0.0	1.1	0.0
Sporting and athletic goods ²	15	12	15.0	0.4	2.4	2.0	0.7	1.2
Cigarettes ²	15	21	13.3	0.0	1.9	0.0	1.7	2.1
Mobile homes ²	15	5	0.0	-0.8	-0.3	0.0	-1.3	-0.6
Medical, surgical & personal aid devices.....	15	6	3.8	0.2	0.0	0.4	0.9	0.1
Jewelry, platinum and karat gold ²	15	9402	8.4	-0.5	3.6	0.7	1.7	-2.3
Costume jewelry and novelties ²	15	9404	4.6	0.0	0.0	0.0	4.1	0.9
Final demand services.....	FD	42	3.8	0.2	0.3	0.4	-0.1	-0.1
Final demand trade services ³	FD	423	4.2	0.2	0.2	0.7	-1.1	-0.8
Machinery and equipment parts and supplies wholesaling ²	57	1102	0.8	-0.2	2.1	-1.1	1.1	-1.5
Machinery and vehicle wholesaling ²	57	1103	2.6	-0.4	1.6	4.6	-3.5	-3.9
Professional and commercial equipment wholesaling ²	57	1104	5.2	-1.5	2.6	1.5	2.3	1.2
Furnishings wholesaling ²	57	2	9.1	1.6	-1.3	0.9	0.1	0.0
Chemicals and allied products wholesaling ²	57	5	7.4	-0.2	-0.4	-1.3	4.2	-5.7
Paper and plastics products wholesaling ²	57	6	16.3	-0.3	0.4	1.6	-2.2	0.3
Apparel wholesaling ²	57	7	12.6	5.1	-1.7	-7.8	4.4	4.9
Food and alcohol wholesaling ²	57	8	5.0	2.3	-0.2	-1.6	-0.5	-1.3
Food and alcohol retailing.....	58	1	17.0	2.7	-0.4	-0.3	-1.1	3.2
Health, beauty, and optical goods retailing ²	58	2	1.7	3.0	-4.1	3.0	4.0	-0.2
Apparel, jewelry, footwear, and accessories retailing.....	58	3	2.2	-1.2	0.1	3.2	1.7	-0.7
Computer hardware, software, and supplies retailing ²	58	4	-23.4	0.8	-6.2	0.6	-1.4	-15.3
TV, video, and photographic equipment and supplies retailing.....	58	5	-26.3	-2.6	12.8	-8.8	-4.2	-1.2
Automobiles retailing (partial).....	58	6101	-21.7	-3.8	-2.2	-4.9	-6.8	-2.4
Automotive parts, including tires, retailing ²	58	6102	16.2	0.4	2.2	0.2	1.4	-1.1
RVs, trailers, and campers retailing ²	58	8	-43.0	-6.3	-15.5	-9.2	16.0	0.7
Sporting goods, including boats, retailing.....	58	9	-0.2	3.2	0.2	-1.4	-2.8	1.3
Lawn, garden, and farm equipment and supplies retailing ²	58	A	14.9	-3.7	0.6	-4.1	0.6	1.5
Furniture retailing ²	58	B	-9.1	-3.6	-1.1	1.1	1.8	0.3
Flooring and floor coverings retailing ²	58	C	1.2	3.7	-0.2	-4.1	7.2	1.0
Hardware, building materials, and supplies retailing.....	58	D	-19.5	2.1	0.3	-6.8	-0.5	-3.7
Major household appliances retailing.....	58	E	9.5	-1.1	-1.7	0.6	0.9	12.2
Fuels and lubricants retailing.....	58	F	19.8	-2.8	3.6	14.8	-11.3	-2.0
Cleaning supplies and paper products retailing ²	58	G	21.4	-1.3	-1.3	-2.0	2.3	7.8
Book retailing ²	58	H	2.9	1.8	0.3	-5.9	5.2	-2.7
Final demand transportation and warehousing services.....	FD	422	6.9	0.0	-0.5	0.2	-1.2	-1.1
Rail transportation of freight and mail ²	30	11	6.6	-0.6	0.6	-0.1	0.7	-1.1
Truck transportation of freight ²	30	12	-0.2	-0.9	0.8	-1.3	-3.4	-0.8
Air transportation of freight ²	30	14	-0.5	-2.6	-2.5	-0.3	-0.1	0.2
Courier, messenger, and U.S. postal services.....	30	16	8.8	0.5	0.5	-0.4	2.2	0.1
Rail transportation of passengers.....	30	21	2.1	-0.1	0.1	0.0	-0.2	0.1
Airline passenger services.....	30	22	22.5	2.0	-3.6	3.7	2.4	-2.6
Final demand services less trade, transportation, and warehousing.....	FD	421	3.3	0.2	0.5	0.3	0.6	0.3
Sales of books.....	33	11	4.1	1.3	-0.1	0.5	-0.6	0.2
Sales and subscriptions of periodicals and newspapers.....	33	12	2.0	-0.1	-3.8	0.4	-0.7	0.5
Application software publishing ²	34	2	2.7	-0.5	-2.9	0.5	1.0	-0.6
Advertising space sales in periodicals, newspapers, directories, and mailing lists ²	36	1	3.8	0.5	-0.3	1.0	1.1	0.6
Residential wired telecommunication services ²	37	11	4.1	0.5	0.1	0.0	0.0	0.2
Wireless telecommunication services.....	37	2	1.8	0.1	-0.1	0.1	0.0	0.3
Cable and satellite subscriber services.....	37	3	9.6	0.8	0.7	2.1	0.3	0.1
Internet access services ²	37	4	-0.2	-0.1	-0.6	-0.1	0.9	0.5

See footnotes at end of table.

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

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Feb. 2022 to Feb. 2023 ^P	Sept. to Oct.	Oct. to Nov. ^P	Nov. to Dec. ^P	Dec. to Jan. ^P
Bundled wired telecommunications access services ²	37	5	9.6	1.0	-0.3	-0.2	4.6	-0.2
Consumer loans (partial).....	39	12	8.2	-0.1	3.4	-6.7	1.7	2.6
Deposit services (partial) ²	39	2	7.3	-0.3	-0.9	16.0	-1.9	-2.8
Other credit intermediation, incl. trust services (partial) ²	39	3	-5.5	0.0	-2.5	0.0	0.1	1.7
Securities brokerage, dealing, investment advice, and related services ² ...	40	1	25.3	4.1	11.7	0.4	0.4	3.8
Portfolio management ²	40	2	-9.1	-1.8	1.3	-0.9	4.4	-0.6
Life insurance ²	41	1101	0.3	0.1	0.1	-0.1	-0.4	0.0
Disability insurance, including accidental death ²	41	1102	-0.3	0.0	0.0	0.0	0.0	0.0
Health and medical insurance.....	41	1103	0.9	0.3	0.1	0.2	-0.8	0.3
Property and casualty insurance ²	41	1104	4.6	0.0	0.1	1.1	1.0	0.1
Annuities ²	41	2	-0.2	-0.3	-0.9	0.0	-0.1	0.0
Residential property sales and leases, brokerage fees and commissions..	43	21	1.5	-0.1	-0.2	0.0	-0.4	-1.0
Passenger car rental.....	44	1	1.6	2.6	-2.9	0.1	-1.9	-1.3
Legal services.....	45	1	6.6	0.4	0.4	0.3	1.6	1.1
Tax preparation and planning.....	45	2102	8.8	-0.4	0.3	2.5	-0.1	0.6
Architectural and engineering services.....	45	3	4.2	0.2	0.4	0.1	0.1	0.5
Management, scientific, and technical consulting services.....	45	4	0.1	-0.6	0.0	1.2	1.1	-1.2
Arrangement of flights (partial).....	47	1	14.8	2.6	0.5	-1.1	-0.5	1.1
Arrangement of vehicle rentals and lodging ²	47	2	3.8	1.9	0.7	0.5	0.3	1.3
Arrangement of cruises and tours ²	47	3	7.4	4.6	0.5	6.5	-0.1	-7.8
Physician care.....	51	1101	1.0	0.4	0.1	0.2	-0.5	0.6
Medical laboratory and diagnostic imaging care ²	51	1102	0.0	0.0	-0.2	0.0	0.6	0.0
Home health and hospice care.....	51	1103	1.8	1.3	0.2	0.3	-0.6	0.0
Hospital outpatient care ²	51	1104	1.7	-0.9	0.3	-0.1	1.2	0.0
Dental care.....	51	1105	4.9	-0.1	0.2	0.1	0.5	2.9
Hospital inpatient care.....	51	2101	3.5	0.5	0.4	0.4	0.2	0.2
Nursing home care.....	51	2102	5.7	0.8	0.4	0.2	0.5	0.3
Traveler accommodation services.....	53	11	10.0	3.5	2.4	1.9	-2.5	-2.7
Food and beverages for immediate consumption services (partial) ²	54	1	3.4	-0.3	0.7	-0.4	0.9	0.2
Motor vehicle repair and maintenance (partial).....	55	2	5.2	0.5	0.3	0.3	1.1	-0.2
Membership dues and admissions and recreation facility use fees (partial) ²	56	1	7.7	1.0	1.3	1.1	2.7	0.9
Recreational activity instruction fees (partial) ²	56	2	1.6	0.0	0.0	0.0	0.0	0.0
Gaming receipts (partial) ²	56	3	1.5	-0.2	-4.3	0.3	1.7	0.4
Mining services ²	60	1	10.0	0.2	0.4	0.3	0.6	0.8
Final demand construction.....	FD	43	16.2	2.6	0.1	0.0	1.8	0.1
New warehouse building construction ²	80	1101	12.9	2.0	0.3	-0.2	0.0	-0.4
New school building construction ²	80	1102	16.2	3.3	0.0	-0.1	1.4	0.0
New office building construction ²	80	1103	19.0	2.3	0.1	0.3	3.9	0.2
New industrial building construction ²	80	1104	17.4	2.8	0.2	-0.1	1.1	0.2
New health care building construction ²	80	1105	18.0	3.3	0.1	0.1	1.8	0.3
Intermediate Demand by Commodity Type								
Processed goods for intermediate demand.....	ID6	1	2.1	-0.2	-0.5	-2.5	1.1	-0.4
Processed foods and feeds.....	ID6	9112	5.0	-0.2	0.8	-0.6	0.2	-1.9
Meats.....	02	21	-1.7	-0.8	1.9	1.4	2.0	-1.0
Processed poultry.....	02	22	-12.9	-7.9	3.1	-9.9	1.2	-2.5
Dairy products.....	02	3	2.1	0.1	-0.2	-0.2	-1.6	-1.2
Processed fruits and vegetables ²	02	4	18.8	0.7	1.7	0.2	1.5	1.0
Refined sugar and byproducts ²	02	53	11.5	0.2	-0.3	0.8	0.5	2.4
Fats and oils ²	02	7	-2.5	-2.5	2.5	-3.4	0.2	-6.0
Prepared animal feeds.....	02	9	7.7	-0.7	0.6	0.0	-0.7	-2.0
Processed materials less foods and feeds.....	ID6	9111	1.9	-0.2	-0.6	-2.6	1.2	-0.3
Synthetic fibers ²	03	1	8.5	0.1	-0.2	-1.2	2.0	-0.3
Processed yarns and threads ²	03	2	-1.1	-3.1	-1.5	-2.9	-3.1	-0.2
Finished fabrics ²	03	4	6.0	-0.3	0.4	-0.5	0.1	0.5
Liquefied petroleum gas ²	05	32	-38.3	-13.4	1.0	-14.6	-4.1	1.6
Commercial electric power.....	05	42	14.3	0.2	-0.8	1.8	2.5	0.9
Industrial electric power.....	05	43	9.0	0.2	-1.8	2.8	7.3	-5.0
Commercial natural gas.....	05	52	18.7	-3.5	-4.4	3.3	12.3	-11.5
Industrial natural gas.....	05	53	10.2	-12.8	-1.7	4.2	8.4	-11.4
Natural gas to electric utilities.....	05	54	1.5	-8.4	-3.6	1.1	7.3	2.2
Gasoline.....	05	71	-5.0	3.2	-4.7	-8.7	6.9	4.2
Jet fuel ²	05	7203	22.3	0.9	-2.2	-15.8	14.0	-0.6
No. 2 diesel fuel.....	05	7303	4.8	6.8	-1.8	-27.5	11.0	-4.7
Residual fuels ²	05	74	-31.6	-17.9	6.8	-3.3	-14.7	-5.5

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
[February 2023]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Feb. 2022 to Feb. 2023 ^P	Sept. to Oct.	Oct. to Nov. ^P	Nov. to Dec. ^P	Dec. to Jan. ^P
Finished lubricants ²	05	76	21.3	1.5	0.3	0.0	-0.5	0.2
Lubricating oil base stocks ²	05	78	2.9	-2.6	-4.1	6.8	-20.5	-5.0
Asphalt.....	05	8102	-20.4	-1.1	-6.3	-31.5	2.9	-3.3
Basic inorganic chemicals ²	06	13	20.2	1.5	-1.2	0.0	2.2	0.7
Basic organic chemicals.....	06	14	-8.9	-2.6	-1.3	-0.5	-0.8	-2.7
Prepared paint ²	06	21	12.7	0.4	0.1	0.3	0.3	-0.2
Paint materials ²	06	22	17.9	-1.8	2.7	0.4	1.4	0.3
Medicinal and botanical chemicals ²	06	31	0.1	0.1	0.4	-0.2	0.4	-0.4
Biological products, including diagnostics.....	06	37	4.3	0.3	0.2	-0.1	1.1	0.6
Fats and oils, inedible ²	06	4	-3.9	-1.1	5.9	-7.1	-2.1	-5.6
Nitrogenates.....	06	5201	-17.9	2.9	1.9	-2.4	-10.4	-10.1
Phosphates.....	06	5202	-12.9	0.5	-0.3	-10.1	-0.3	-2.6
Other agricultural chemicals ²	06	53	20.7	-6.6	2.4	1.2	1.9	0.0
Plastic resins and materials.....	06	6	-7.2	-2.9	-4.1	0.4	-0.7	1.4
Industrial gases ²	06	7903	8.7	0.5	-4.1	-0.6	4.0	0.4
Adhesives and sealants ²	06	7904	11.6	0.2	-0.1	0.2	-0.2	0.8
Synthetic rubber ²	07	1102	-2.5	-1.7	-3.6	-4.5	-2.5	-0.2
Tires ²	07	1201	12.7	1.0	0.6	0.6	2.4	0.0
Plastic construction products ²	07	21	5.1	-0.4	-0.6	-0.3	-0.3	-0.5
Unsupported plastic film, sheet, other shapes ²	07	22	6.3	-1.0	0.6	-0.7	-0.1	1.1
Parts for manufacturing from plastics ²	07	26	4.2	0.5	-0.1	0.5	-0.1	-1.4
Plastic packaging products ²	07	2A	2.5	-1.7	-0.5	-0.4	-2.0	-0.7
Softwood lumber.....	08	11	-45.1	-1.5	-1.6	-8.0	-9.8	-0.7
Hardwood lumber ²	08	12	-12.8	-5.5	-4.5	-1.8	7.8	-1.6
Millwork.....	08	2	1.0	-0.2	-0.9	-0.3	-0.3	0.0
Plywood ²	08	3	-22.8	-2.6	-4.0	-1.7	-1.4	-1.1
Paper ²	09	13	8.0	0.8	-0.4	0.2	-0.2	0.7
Paperboard ²	09	14	6.8	0.2	0.3	-0.5	-0.5	-0.8
Paper boxes and containers ²	09	1503	10.7	0.3	0.6	0.1	0.0	0.3
Building paper and board ²	09	2	-44.2	-2.7	-0.3	-8.4	-6.6	0.0
Commercial printing ²	09	47	13.5	0.3	1.0	0.4	1.3	0.1
Foundry and forge shop products ²	10	15	11.4	-0.4	-0.1	0.2	1.5	0.9
Steel mill products ²	10	17	-21.0	-5.7	-3.1	-3.4	-2.4	2.6
Primary nonferrous metals ²	10	22	-13.7	-2.7	5.4	1.3	3.0	2.6
Secondary nonferrous metals ²	10	24	-3.6	-2.3	5.2	0.7	0.7	0.9
Aluminum mill shapes ²	10	2501	-9.6	-3.0	-1.5	1.1	3.3	2.9
Copper and brass mill shapes ²	10	2502	-1.7	-4.9	7.5	0.9	2.2	2.3
Nonferrous wire and cable ²	10	26	9.5	-0.7	4.1	0.6	3.4	2.1
Nonferrous foundry shop products.....	10	28	9.1	0.0	1.3	0.4	-0.3	0.8
Metal containers ²	10	3	3.2	-0.2	-0.4	0.0	-1.8	-0.4
Hardware ²	10	4	4.4	0.2	0.4	0.7	0.8	-0.7
Plumbing fixtures and brass fittings.....	10	5	5.1	0.5	0.3	-0.2	0.2	-0.5
Heating equipment ²	10	6	8.1	0.6	2.3	0.3	0.4	-0.1
Fabricated structural metal products.....	10	7	2.3	0.1	-0.7	0.0	0.3	-0.2
Bolts, nuts, screws, rivets, and washers ²	10	81	12.9	-0.6	-0.8	0.1	1.4	0.8
Lighting fixtures ²	10	83	6.0	0.1	0.0	0.2	0.8	0.1
Fabricated ferrous wire products ²	10	88	2.4	0.8	-0.8	-1.1	-0.3	-0.4
Other miscellaneous metal products ²	10	89	7.3	0.6	1.3	0.0	-0.1	1.2
Fluid power equipment.....	11	43	9.5	0.2	0.5	0.3	1.1	0.7
Mechanical power transmission equipment ²	11	45	12.7	0.6	1.6	0.8	1.0	-0.1
Air conditioning and refrigeration equipment.....	11	48	10.7	0.5	-0.2	0.7	-0.5	-0.2
Metal valves, except fluid power.....	11	4902	11.3	0.7	1.4	0.1	0.6	-0.1
Ball and roller bearings ²	11	4905	6.3	-0.2	0.5	0.0	0.1	-0.1
Wiring devices ²	11	71	16.6	0.0	1.1	0.0	8.3	0.2
Motors, generators, motor generator sets ²	11	73	9.1	0.2	0.0	0.2	0.6	1.5
Switchgear, switchboard, and industrial controls equip. ²	11	75	14.1	0.6	0.4	2.5	0.3	0.0
Electronic components and accessories.....	11	78	1.7	0.8	0.5	0.2	-0.7	-0.4
Internal combustion engines ²	11	94	8.3	0.4	0.0	0.1	4.0	-0.1
Machine shop products ²	11	95	7.5	0.5	0.3	-0.1	0.1	0.7
Flat glass ²	13	11	11.7	1.2	0.9	-0.2	0.6	4.0
Cement.....	13	22	15.0	1.5	1.1	0.7	3.5	1.2
Concrete products.....	13	3	14.0	0.9	1.0	1.0	1.1	0.5
Asphalt felts and coatings ²	13	6	5.0	0.0	0.6	0.4	-2.3	-0.2
Paving mixtures and blocks.....	13	94	14.5	0.1	0.3	-0.7	-0.8	2.0
Motor vehicle parts ²	14	12	2.9	-0.1	-0.1	0.1	0.4	-0.1
Aircraft engines and engine parts.....	14	23	5.0	0.2	0.2	0.4	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
[February 2023]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Feb. 2022 to Feb. 2023 ^P	Sept. to Oct.	Oct. to Nov. ^P	Nov. to Dec. ^P	Dec. to Jan. ^P
Aircraft parts and auxiliary equipment, n.e.c.....	14	25	4.5	0.0	0.0	0.0	0.8	1.9
Medical, surgical, and personal aid devices.....	15	6	3.8	0.2	0.0	0.4	0.9	0.1
Unprocessed goods for intermediate demand.....	ID6	2	-10.9	-9.7	-3.1	1.6	-6.3	-3.8
Unprocessed foodstuffs and feedstuffs.....	ID6	21	2.1	-0.7	0.0	-0.2	-5.6	-1.1
Wheat ²	01	21	-1.8	3.8	-3.3	-7.2	-3.6	5.9
Corn.....	01	2202	10.0	-7.0	-3.7	-3.6	-1.2	-0.2
Slaughter cattle.....	01	31	12.2	0.3	1.4	1.2	1.2	-0.6
Slaughter hogs.....	01	32	-16.5	-10.1	3.8	-0.1	-14.0	-0.1
Slaughter chickens.....	01	4102	-2.9	-3.2	-0.5	-6.3	-9.4	5.6
Slaughter turkeys.....	01	42	31.5	4.6	-1.3	6.1	2.3	-2.7
Raw milk.....	01	6	-13.3	1.6	-3.7	-2.6	-2.9	-6.1
Hay and hayseeds ²	01	81	7.1	0.5	-15.0	21.4	-11.0	10.5
Oilseeds.....	01	8301	0.5	-7.9	3.2	0.0	-4.9	0.6
Raw cane sugar and byproducts ²	02	5201	15.3	1.5	0.3	1.1	3.2	1.3
Unprocessed nonfood materials.....	ID6	22	-16.9	-13.7	-4.6	2.5	-6.7	-5.3
Raw cotton ²	01	51	-29.2	-15.2	-4.5	-5.1	2.9	-2.4
Hides and skins.....	04	1	-19.1	2.1	-7.0	-2.6	-4.7	0.3
Coal.....	05	1	27.5	0.3	-1.6	-7.5	0.2	1.8
Natural gas ²	05	31	-55.8	-35.3	-12.5	30.7	-26.2	-41.4
Crude petroleum ²	05	61	-12.8	2.3	-2.4	-13.2	-1.3	7.3
Logs, bolts, timber, pulpwood, and woodchips ²	08	5	0.2	-0.4	0.0	0.4	-0.6	-0.9
Recyclable paper ²	09	12	-58.8	-31.9	-23.9	10.6	-5.2	10.9
Iron ores ²	10	11	13.7	0.4	1.5	-0.1	0.9	0.0
Iron and steel scrap.....	10	12	-8.9	0.5	-1.8	-4.3	2.4	10.6
Nonferrous metal ores ²	10	21	-5.0	-5.4	5.2	-0.6	5.8	-1.1
Copper base scrap ²	10	2301	-7.3	-2.8	9.1	2.1	3.3	1.0
Aluminum base scrap.....	10	2302	-14.7	-6.3	0.7	5.9	-0.1	-1.5
Construction sand, gravel, and crushed stone.....	13	21	12.2	0.4	0.2	0.7	3.5	0.4
Services for intermediate demand.....	ID6	3	6.0	0.4	0.8	0.0	0.7	0.3
Trade services for intermediate demand ³	ID6	33	3.6	0.0	0.9	-1.2	0.1	-0.7
Machinery and equipment parts and supplies wholesaling ²	57	1102	0.8	-0.2	2.1	-1.1	1.1	-1.5
Building materials, paint, and hardware wholesaling.....	57	3	1.1	-0.1	-1.3	0.8	-1.3	-0.2
Metals, minerals, and ores wholesaling ²	57	4	-1.1	-0.9	-0.2	-6.2	9.6	0.5
Chemicals and allied products wholesaling ²	57	5	7.4	-0.2	-0.4	-1.3	4.2	-5.7
Paper and plastics products wholesaling ²	57	6	16.3	-0.3	0.4	1.6	-2.2	0.3
Food wholesaling ²	57	8101	2.8	2.6	-0.4	-1.9	-0.7	-1.6
Automotive parts, including tires, retailing ²	58	6102	16.2	0.4	2.2	0.2	1.4	-1.1
Hardware, building material, and supplies retailing.....	58	D	-19.5	2.1	0.3	-6.8	-0.5	-3.7
Transportation and warehousing services for intermediate demand.....	ID6	32	4.1	0.6	-1.3	0.3	0.0	-0.2
Rail transportation of freight and mail ²	30	11	6.6	-0.6	0.6	-0.1	0.7	-1.1
Truck transportation of freight ²	30	12	-0.2	-0.9	0.8	-1.3	-3.4	-0.8
Water transportation of freight ²	30	13	21.2	0.2	-0.2	-0.3	-1.2	-0.3
Air transportation of freight ²	30	14	-0.5	-2.6	-2.5	-0.3	-0.1	0.2
U.S. Postal Service ²	30	1601	10.0	0.9	0.0	0.0	4.0	0.0
Courier and messenger services, except air mail.....	30	1602	6.4	0.1	0.8	0.5	-0.4	0.3
Air mail and package delivery services, excluding by USPS.....	30	1603	9.9	0.5	1.1	-3.1	3.3	-0.1
Pipeline transportation ²	30	17	-	-0.1	0.0	-1.3	0.3	1.2
Transportation of passengers (partial).....	30	2	22.1	1.9	-3.6	3.6	2.4	-2.5
Services related to water transportation.....	31	1	6.0	0.2	0.6	0.0	1.2	1.7
Arrangement of freight and cargo ²	31	31	-31.7	7.2	-14.4	1.9	-6.1	-2.8
Warehousing, storage, and related services ²	32	1	18.4	0.0	-0.3	4.8	1.7	2.8
Services less trade, transportation, and warehousing for intermediate demand.....	ID6	31	7.0	0.5	1.2	0.4	1.1	0.6
Network compensation from broadcast TV, cable TV, radio ²	35	-	1.6	0.0	0.0	0.0	0.2	0.0
Advertising space sales in periodicals and newspapers ²	36	11	2.8	0.7	-0.4	1.2	0.4	0.7
Advertising space sales in directories and mail lists ²	36	12	9.8	0.0	0.0	0.0	5.3	0.0
Television advertising time sales.....	36	2	-12.7	3.7	6.6	-9.0	-1.5	-6.5
Radio advertising time sales.....	36	3	-3.3	-1.4	1.5	-1.9	-10.2	11.3
Internet advertising sales ²	36	6	-	-	-	-	-0.2	0.0
Business wired telecommunication services ²	37	12	2.1	-0.1	0.1	0.2	-0.2	0.6
Wireless telecommunication services.....	37	2	1.8	0.1	-0.1	0.1	0.0	0.3
Cable and satellite subscriber services.....	37	3	9.6	0.8	0.7	2.1	0.3	0.1
Bundled wired telecommunication access services ²	37	5	9.6	1.0	-0.3	-0.2	4.6	-0.2
Data processing and related services ²	38	1	-0.9	0.1	0.0	0.0	0.0	0.1
Business loans (partial).....	39	11	101.2	5.7	8.4	1.5	8.7	10.7

See footnotes at end of table.

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

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Feb. 2022 to Feb. 2023 ^P	Sept. to Oct.	Oct. to Nov. ^P	Nov. to Dec. ^P	Dec. to Jan. ^P
Deposit services (partial) ²	39	2	7.3	-0.3	-0.9	16.0	-1.9	-2.8
Other credit intermediation, incl. trust services (partial) ²	39	3	-5.5	0.0	-2.5	0.0	0.1	1.7
Securities brokerage, dealing, investment advice, and related services ²	40	1	25.3	4.1	11.7	0.4	0.4	3.8
Portfolio management ²	40	2	-9.1	-1.8	1.3	-0.9	4.4	-0.6
Investment banking ²	40	3	-11.7	0.1	-1.4	-1.4	0.3	2.1
Life insurance ²	41	1101	0.3	0.1	0.1	-0.1	-0.4	0.0
Health and medical insurance.....	41	1103	0.9	0.3	0.1	0.2	-0.8	0.3
Property and casualty insurance ²	41	1104	4.6	0.0	0.1	1.1	1.0	0.1
Annuities ²	41	2	-0.2	-0.3	-0.9	0.0	-0.1	0.0
Commissions from sales of insurance ²	42	1	0.2	0.0	0.0	0.1	0.2	0.0
Nonresidential real estate rents ²	43	11	3.3	-1.6	-0.6	1.0	1.8	-3.9
Nonresidential property sales and leases ²	43	12	0.9	0.0	0.2	0.6	-0.7	-1.4
Residential property management fees ²	43	22	0.1	0.2	0.6	-1.0	0.7	-0.5
Passenger car rental.....	44	1	1.6	2.6	-2.9	0.1	-1.9	-1.3
Truck, utility trailer, and RV rental and leasing ²	44	2	3.6	0.2	0.1	0.3	-0.7	-1.1
Construction, mining, and forestry machinery and equipment rental and leasing ²	44	3	8.3	0.0	0.1	0.1	1.9	0.0
Legal services.....	45	1	6.6	0.4	0.4	0.3	1.6	1.1
Accounting services (partial).....	45	2	5.4	0.0	-0.2	0.4	1.3	0.2
Architectural and engineering services.....	45	3	4.2	0.2	0.4	0.1	0.1	0.5
Management, scientific, and technical consulting services.....	45	4	0.1	-0.6	0.0	1.2	1.1	-1.2
Advertising and related services (partial) ²	45	5	1.3	0.0	0.1	0.0	0.1	0.2
Permanent placement services ²	46	1	4.2	-0.1	-0.7	0.3	-0.1	-0.4
Executive search services ²	46	2	6.3	4.7	-0.6	-0.3	1.6	0.7
Staffing services.....	46	3	1.9	-0.2	0.1	0.1	-0.3	0.6
Security guard services ²	48	1	7.9	0.8	0.0	0.0	1.1	0.1
Janitorial services ²	49	1	3.0	-0.3	0.3	0.2	0.8	0.1
Waste collection.....	50	1	11.9	0.7	0.6	0.7	1.3	1.6
Traveler accommodation services.....	53	11	10.0	3.5	2.4	1.9	-2.5	-2.7
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	7.5	1.1	0.7	0.5	-1.1	-0.5
Aircraft repair and maintenance.....	55	4	3.9	0.2	0.2	0.6	-0.5	1.8
Metal treatment services ²	59	1	8.0	0.8	0.0	-0.6	2.3	-0.1
Construction for intermediate demand.....	ID6	4	5.5	0.6	0.1	0.0	0.7	0.4
Maintenance and repair of non-residential buildings (partial) ²	80	2	5.5	0.6	0.1	0.0	0.7	0.4
Intermediate Demand by Production Flow								
Stage 4 intermediate demand.....	ID5	4	4.8	0.1	0.4	-0.3	0.9	0.0
Stage 4 intermediate demand goods.....	ID5	9411	4.2	-0.1	-0.1	-0.7	0.8	0.0
Grains.....	01	2	7.6	-4.5	-3.2	-4.0	-1.6	0.8
Meats.....	02	21	-1.7	-0.8	1.9	1.4	2.0	-1.0
Unprocessed and packaged fish.....	02	23	-1.3	0.9	-1.9	-1.9	0.7	-1.1
Dairy products.....	02	3	2.1	0.1	-0.2	-0.2	-1.6	-1.2
Commercial electric power.....	05	42	14.3	0.2	-0.8	1.8	2.5	0.9
Industrial electric power.....	05	43	9.0	0.2	-1.8	2.8	7.3	-5.0
Gasoline.....	05	71	-5.0	3.2	-4.7	-8.7	6.9	4.2
No. 2 diesel fuel.....	05	7303	4.8	6.8	-1.8	-27.5	11.0	-4.7
Basic organic chemicals.....	06	14	-8.9	-2.6	-1.3	-0.5	-0.8	-2.7
Prepared paint ²	06	21	12.7	0.4	0.1	0.3	0.3	-0.2
Medicinal and botanical chemicals ²	06	31	0.1	0.1	0.4	-0.2	0.4	-0.4
Biological products, including diagnostics.....	06	37	4.3	0.3	0.2	-0.1	1.1	0.6
Pharmaceutical preparations.....	06	38	2.5	0.2	0.1	-0.3	0.6	0.5
Plastic construction products ²	07	21	5.1	-0.4	-0.6	-0.3	-0.3	-0.5
Unsupported plastic film, sheet, and other shapes ²	07	22	6.3	-1.0	0.6	-0.7	-0.1	1.1
Parts for manufacturing from plastics ²	07	26	4.2	0.5	-0.1	0.5	-0.1	-1.4
Plastic packaging products ²	07	2A	2.5	-1.7	-0.5	-0.4	-2.0	-0.7
Lumber.....	08	1	-36.7	-2.8	-2.5	-6.1	-3.6	-1.1
Millwork.....	08	2	1.0	-0.2	-0.9	-0.3	-0.3	0.0
Paper boxes and containers ²	09	1503	10.7	0.3	0.6	0.1	0.0	0.3
Commercial printing ²	09	47	13.5	0.3	1.0	0.4	1.3	0.1
Steel mill products ²	10	17	-21.0	-5.7	-3.1	-3.4	-2.4	2.6
Nonferrous wire and cable ²	10	26	9.5	-0.7	4.1	0.6	3.4	2.1
Fabricated structural metal products.....	10	7	2.3	0.1	-0.7	0.0	0.3	-0.2
Other miscellaneous metal products ²	10	89	7.3	0.6	1.3	0.0	-0.1	1.2
Air conditioning and refrigeration equipment.....	11	48	10.7	0.5	-0.2	0.7	-0.5	-0.2
Wiring devices ²	11	71	16.6	0.0	1.1	0.0	8.3	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
[February 2023]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Feb. 2022 to Feb. 2023 ^P	Sept. to Oct.	Oct. to Nov. ^P	Nov. to Dec. ^P	Dec. to Jan. ^P
Electronic components and accessories.....	11	78	1.7	0.8	0.5	0.2	-0.7	-0.4
Miscellaneous electrical machinery and equipment ²	11	79	5.5	0.1	0.2	0.1	0.7	-0.3
Internal combustion engines ²	11	94	8.3	0.4	0.0	0.1	4.0	-0.1
Machine shop products ²	11	95	7.5	0.5	0.3	-0.1	0.1	0.7
Concrete ingredients and related products.....	13	2	12.9	0.6	0.5	0.7	3.5	0.6
Concrete products.....	13	3	14.0	0.9	1.0	1.0	1.1	0.5
Prepared asphalt, tar roofing and siding products ²	13	61	4.7	0.0	0.7	0.4	-3.1	-0.2
Paving mixtures and blocks.....	13	94	14.5	0.1	0.3	-0.7	-0.8	2.0
Motor vehicle parts ²	14	12	2.9	-0.1	-0.1	0.1	0.4	-0.1
Aircraft engines and engine parts.....	14	23	5.0	0.2	0.2	0.4	0.3	0.1
Aircraft parts and auxiliary equipment, n.e.c.....	14	25	4.5	0.0	0.0	0.0	0.8	1.9
Medical, surgical and personal aid devices.....	15	6	3.8	0.2	0.0	0.4	0.9	0.1
Stage 4 intermediate demand services.....	ID5	9412	5.3	0.2	1.0	0.0	1.0	0.1
Truck transportation of freight ²	30	12	-0.2	-0.9	0.8	-1.3	-3.4	-0.8
Courier, messenger, and U.S. postal services.....	30	16	8.8	0.5	0.5	-0.4	2.2	0.1
Airline passenger services.....	30	22	22.5	2.0	-3.6	3.7	2.4	-2.6
Warehousing, storage, and related services ²	32	1	18.4	0.0	-0.3	4.8	1.7	2.8
Advertising space sales in periodicals and newspapers ²	36	11	2.8	0.7	-0.4	1.2	0.4	0.7
Data processing and related services ²	38	1	-0.9	0.1	0.0	0.0	0.0	0.1
Business loans (partial).....	39	11	101.2	5.7	8.4	1.5	8.7	10.7
Deposit services (partial) ²	39	2	7.3	-0.3	-0.9	16.0	-1.9	-2.8
Securities brokerage, dealing, investment advice, and related services ²	40	1	25.3	4.1	11.7	0.4	0.4	3.8
Portfolio management ²	40	2	-9.1	-1.8	1.3	-0.9	4.4	-0.6
Investment banking ²	40	3	-11.7	0.1	-1.4	-1.4	0.3	2.1
Insurance.....	41	11	2.6	0.2	0.1	0.6	0.2	0.2
Annuities ²	41	2	-0.2	-0.3	-0.9	0.0	-0.1	0.0
Nonresidential real estate rents ²	43	11	3.3	-1.6	-0.6	1.0	1.8	-3.9
Nonresidential property sales and leases ²	43	12	0.9	0.0	0.2	0.6	-0.7	-1.4
Nonresidential property management fees ²	43	13	5.3	3.4	0.0	0.4	0.6	0.1
Residential property management fees ²	43	22	0.1	0.2	0.6	-1.0	0.7	-0.5
Construction, mining, and forestry machinery and equipment rental and leasing ²	44	3	8.3	0.0	0.1	0.1	1.9	0.0
Legal services.....	45	1	6.6	0.4	0.4	0.3	1.6	1.1
Advertising agency services ²	45	51	1.3	0.0	0.1	0.0	0.1	0.2
Accounting services (partial).....	45	2	5.4	0.0	-0.2	0.4	1.3	0.2
Architectural and engineering services.....	45	3	4.2	0.2	0.4	0.1	0.1	0.5
Management, scientific, and technical consulting services.....	45	4	0.1	-0.6	0.0	1.2	1.1	-1.2
Staffing services.....	46	3	1.9	-0.2	0.1	0.1	-0.3	0.6
Janitorial services ²	49	1	3.0	-0.3	0.3	0.2	0.8	0.1
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	7.5	1.1	0.7	0.5	-1.1	-0.5
Machinery and equipment parts and supplies wholesaling ²	57	1102	0.8	-0.2	2.1	-1.1	1.1	-1.5
Building materials, paint, and hardware wholesaling.....	57	3	1.1	-0.1	-1.3	0.8	-1.3	-0.2
Metals, minerals, and ores wholesaling ²	57	4	-1.1	-0.9	-0.2	-6.2	9.6	0.5
Chemicals and allied products wholesaling ²	57	5	7.4	-0.2	-0.4	-1.3	4.2	-5.7
Paper and plastics products wholesaling ²	57	6	16.3	-0.3	0.4	1.6	-2.2	0.3
Food and alcohol wholesaling ²	57	8	5.0	2.3	-0.2	-1.6	-0.5	-1.3
Hardware and building materials and supplies retailing.....	58	D	-19.5	2.1	0.3	-6.8	-0.5	-3.7
Metal treatment services ²	59	1	8.0	0.8	0.0	-0.6	2.3	-0.1
Stage 3 intermediate demand.....	ID5	3	2.3	-0.1	-0.4	-1.9	0.1	-0.2
Stage 3 intermediate demand goods.....	ID5	9311	-0.5	-0.6	-1.1	-3.8	-0.4	-0.7
Slaughter cattle.....	01	31	12.2	0.3	1.4	1.2	1.2	-0.6
Slaughter hogs.....	01	32	-16.5	-10.1	3.8	-0.1	-14.0	-0.1
Slaughter poultry.....	01	4	2.7	-1.8	-0.6	-4.0	-7.1	4.0
Raw milk.....	01	6	-13.3	1.6	-3.7	-2.6	-2.9	-6.1
Commercial electric power.....	05	42	14.3	0.2	-0.8	1.8	2.5	0.9
Industrial electric power.....	05	43	9.0	0.2	-1.8	2.8	7.3	-5.0
Gasoline.....	05	71	-5.0	3.2	-4.7	-8.7	6.9	4.2
Jet fuel ²	05	7203	22.3	0.9	-2.2	-15.8	14.0	-0.6
No. 2 diesel fuel.....	05	7303	4.8	6.8	-1.8	-27.5	11.0	-4.7
Finished lubricants ²	05	76	21.3	1.5	0.3	0.0	-0.5	0.2
Lubricating oil base stocks ²	05	78	2.9	-2.6	-4.1	6.8	-20.5	-5.0
Asphalt.....	05	8102	-20.4	-1.1	-6.3	-31.5	2.9	-3.3
Basic inorganic chemicals ²	06	13	20.2	1.5	-1.2	0.0	2.2	0.7
Basic organic chemicals.....	06	14	-8.9	-2.6	-1.3	-0.5	-0.8	-2.7
Paints and allied products ²	06	2	13.6	-0.1	0.7	0.3	0.5	-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
[February 2023]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Feb. 2022 to Feb. 2023 ^P	Sept. to Oct.	Oct. to Nov. ^P	Nov. to Dec. ^P	Dec. to Jan. ^P
Agricultural chemicals and chemical products.....	06	5	-0.3	-2.1	0.9	-3.3	-1.3	-2.9
Plastic resins and materials.....	06	6	-7.2	-2.9	-4.1	0.4	-0.7	1.4
Synthetic rubber ²	07	1102	-2.5	-1.7	-3.6	-4.5	-2.5	-0.2
Unsupported plastic film, sheet, and other shapes ²	07	22	6.3	-1.0	0.6	-0.7	-0.1	1.1
Paper ²	09	13	8.0	0.8	-0.4	0.2	-0.2	0.7
Paperboard ²	09	14	6.8	0.2	0.3	-0.5	-0.5	-0.8
Converted paper and paperboard products ²	09	15	10.7	0.7	0.7	0.3	0.2	0.1
Commercial printing ²	09	47	13.5	0.3	1.0	0.4	1.3	0.1
Foundry and forge shop products ²	10	15	11.4	-0.4	-0.1	0.2	1.5	0.9
Steel mill products ²	10	17	-21.0	-5.7	-3.1	-3.4	-2.4	2.6
Nonferrous mill shapes ²	10	25	-4.6	-3.5	1.2	0.9	2.8	2.6
Nonferrous foundry shop products.....	10	28	9.1	0.0	1.3	0.4	-0.3	0.8
Metal containers ²	10	3	3.2	-0.2	-0.4	0.0	-1.8	-0.4
Structural, architectural, and pre-engineered metal products.....	10	74	0.0	-0.6	-1.0	-0.1	0.7	0.0
Bolts, nuts, screws, rivets, and washers ²	10	81	12.9	-0.6	-0.8	0.1	1.4	0.8
Other miscellaneous metal products ²	10	89	7.3	0.6	1.3	0.0	-0.1	1.2
General purpose machinery and equipment.....	11	4	10.4	0.6	0.7	0.4	0.6	0.2
Electrical machinery and equipment.....	11	7	5.5	0.3	0.3	0.4	0.7	-0.1
Construction sand, gravel, and crushed stone.....	13	21	12.2	0.4	0.2	0.7	3.5	0.4
Cement.....	13	22	15.0	1.5	1.1	0.7	3.5	1.2
Motor vehicle parts ²	14	12	2.9	-0.1	-0.1	0.1	0.4	-0.1
Aircraft and aircraft equipment.....	14	2	5.0	0.2	0.2	0.3	0.4	0.6
Stage 3 intermediate demand services.....	ID5	9312	5.2	0.5	0.3	0.1	0.5	0.2
Rail transportation of freight and mail ²	30	11	6.6	-0.6	0.6	-0.1	0.7	-1.1
Courier, messenger, and U.S. postal services.....	30	16	8.8	0.5	0.5	-0.4	2.2	0.1
Arrangement of freight and cargo ²	31	31	-31.7	7.2	-14.4	1.9	-6.1	-2.8
Freight forwarding ²	31	3201	0.5	0.0	-3.4	0.0	0.0	-0.1
Warehousing, storage, and related services ²	32	1	18.4	0.0	-0.3	4.8	1.7	2.8
Advertising space sales in periodicals, newspapers, directories, and mailing lists ²	36	1	3.8	0.5	-0.3	1.0	1.1	0.6
Wired telephone services ²	37	1	2.4	0.1	0.1	0.1	-0.1	0.4
Bundled wired telecommunications access services ²	37	5	9.6	1.0	-0.3	-0.2	4.6	-0.2
Data processing and related services ²	38	1	-0.9	0.1	0.0	0.0	0.0	0.1
Business loans (partial).....	39	11	101.2	5.7	8.4	1.5	8.7	10.7
Deposit services (partial) ²	39	2	7.3	-0.3	-0.9	16.0	-1.9	-2.8
Securities brokerage, dealing, investment advice, and related services ²	40	1	25.3	4.1	11.7	0.4	0.4	3.8
Insurance.....	41	11	2.6	0.2	0.1	0.6	0.2	0.2
Nonresidential real estate rents ²	43	11	3.3	-1.6	-0.6	1.0	1.8	-3.9
Legal services.....	45	1	6.6	0.4	0.4	0.3	1.6	1.1
Accounting services (partial).....	45	2	5.4	0.0	-0.2	0.4	1.3	0.2
Architectural and engineering services.....	45	3	4.2	0.2	0.4	0.1	0.1	0.5
Management, scientific, and technical consulting services.....	45	4	0.1	-0.6	0.0	1.2	1.1	-1.2
Advertising agency services ²	45	51	1.3	0.0	0.1	0.0	0.1	0.2
Staffing services.....	46	3	1.9	-0.2	0.1	0.1	-0.3	0.6
Aircraft repair maintenance.....	55	4	3.9	0.2	0.2	0.6	-0.5	1.8
Machinery and equipment parts and supplies wholesaling ²	57	1102	0.8	-0.2	2.1	-1.1	1.1	-1.5
Building materials, paint, and hardware wholesaling.....	57	3	1.1	-0.1	-1.3	0.8	-1.3	-0.2
Metals, minerals, and ores wholesaling ²	57	4	-1.1	-0.9	-0.2	-6.2	9.6	0.5
Chemicals and allied products wholesaling ²	57	5	7.4	-0.2	-0.4	-1.3	4.2	-5.7
Paper and plastics products wholesaling ²	57	6	16.3	-0.3	0.4	1.6	-2.2	0.3
Food wholesaling ²	57	8101	2.8	2.6	-0.4	-1.9	-0.7	-1.6
Metal treatment services ²	59	1	8.0	0.8	0.0	-0.6	2.3	-0.1
Stage 2 intermediate demand.....	ID5	2	-1.0	-4.7	-1.0	1.1	-1.9	-1.0
Stage 2 intermediate demand goods.....	ID5	9211	-11.1	-9.8	-2.9	1.6	-4.9	-3.7
Corn.....	01	2202	10.0	-7.0	-3.7	-3.6	-1.2	-0.2
Oilseeds.....	01	83	0.5	-7.9	3.2	0.0	-4.9	0.6
Prepared animal feeds.....	02	9	7.7	-0.7	0.6	0.0	-0.7	-2.0
Coal.....	05	1	27.5	0.3	-1.6	-7.5	0.2	1.8
Natural gas ²	05	31	-55.8	-35.3	-12.5	30.7	-26.2	-41.4
Liquefied petroleum gas ²	05	32	-38.3	-13.4	1.0	-14.6	-4.1	1.6
Crude petroleum ²	05	61	-12.8	2.3	-2.4	-13.2	-1.3	7.3
No. 2 diesel fuel.....	05	7303	4.8	6.8	-1.8	-27.5	11.0	-4.7
Industrial chemicals.....	06	1	-4.8	-2.0	-1.3	-0.4	-0.3	-2.1
Plastic resins and materials.....	06	6	-7.2	-2.9	-4.1	0.4	-0.7	1.4
Plastic products ²	07	2	5.2	-0.8	-0.1	-0.2	-0.4	0.2
Logs, bolts, timber, pulpwood, and wood chips ²	08	5	0.2	-0.4	0.0	0.4	-0.6	-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
 [February 2023]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Feb. 2022 to Feb. 2023 ^P	Sept. to Oct.	Oct. to Nov. ^P	Nov. to Dec. ^P	Dec. to Jan. ^P
Paper ²	09	13	8.0	0.8	-0.4	0.2	-0.2	0.7
Paperboard, excluding corrugated paperboard ²	09	1411	6.7	0.3	0.3	-0.4	-0.4	-1.0
Commercial printing ²	09	47	13.5	0.3	1.0	0.4	1.3	0.1
Iron and steel scrap.....	10	12	-8.9	0.5	-1.8	-4.3	2.4	10.6
Steel mill products ²	10	17	-21.0	-5.7	-3.1	-3.4	-2.4	2.6
Nonferrous mill shapes ²	10	25	-4.6	-3.5	1.2	0.9	2.8	2.6
Electrical machinery and equipment.....	11	7	5.5	0.3	0.3	0.4	0.7	-0.1
Electronic components and accessories.....	11	78	1.7	0.8	0.5	0.2	-0.7	-0.4
Stage 2 intermediate demand services.....	ID5	9212	9.3	0.8	0.8	0.6	0.8	1.2
Rail transportation of freight and mail ²	30	11	6.6	-0.6	0.6	-0.1	0.7	-1.1
Truck transportation of freight ²	30	12	-0.2	-0.9	0.8	-1.3	-3.4	-0.8
U.S. Postal Service ²	30	1601	10.0	0.9	0.0	0.0	4.0	0.0
Courier and messenger services, except air.....	30	1602	6.4	0.1	0.8	0.5	-0.4	0.3
Air mail and package delivery services, excluding by USPS.....	30	1603	9.9	0.5	1.1	-3.1	3.3	-0.1
Pipeline transportation ²	30	17	-	-0.1	0.0	-1.3	0.3	1.2
Airline passenger services.....	30	22	22.5	2.0	-3.6	3.7	2.4	-2.6
Arrangement of freight and cargo ²	31	31	-31.7	7.2	-14.4	1.9	-6.1	-2.8
Television advertising time sales.....	36	21	-12.7	3.7	6.6	-9.0	-1.5	-6.5
Wireless telecommunication services.....	37	2	1.8	0.1	-0.1	0.1	0.0	0.3
Data processing and related services ²	38	1	-0.9	0.1	0.0	0.0	0.0	0.1
Securities brokerage, dealing, investment advice, and related services ²	40	1	25.3	4.1	11.7	0.4	0.4	3.8
Portfolio management ²	40	2	-9.1	-1.8	1.3	-0.9	4.4	-0.6
Investment banking ²	40	31	-11.7	0.1	-1.4	-1.4	0.3	2.1
Insurance.....	41	11	2.6	0.2	0.1	0.6	0.2	0.2
Commissions from sales of insurance ²	42	11	0.2	0.0	0.0	0.1	0.2	0.0
Legal services.....	45	1	6.6	0.4	0.4	0.3	1.6	1.1
Accounting services (partial).....	45	2	5.4	0.0	-0.2	0.4	1.3	0.2
Management, scientific, and technical consulting services.....	45	4	0.1	-0.6	0.0	1.2	1.1	-1.2
Advertising agency services ²	45	51	1.3	0.0	0.1	0.0	0.1	0.2
Staffing services.....	46	3	1.9	-0.2	0.1	0.1	-0.3	0.6
Security guard services ²	48	1	7.9	0.8	0.0	0.0	1.1	0.1
Janitorial services ²	49	1	3.0	-0.3	0.3	0.2	0.8	0.1
Traveler accommodation services.....	53	1	10.0	3.5	2.4	1.9	-2.5	-2.7
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	7.5	1.1	0.7	0.5	-1.1	-0.5
Hardware and building materials and supplies retailing.....	58	D	-19.5	2.1	0.3	-6.8	-0.5	-3.7
Stage 1 intermediate demand.....	ID5	1	3.6	0.1	0.1	-1.7	0.7	-0.4
Stage 1 intermediate demand goods.....	ID5	9111	2.7	-0.2	-0.6	-2.9	0.9	-0.6
Prepared animal feeds.....	02	9	7.7	-0.7	0.6	0.0	-0.7	-2.0
Commercial electric power.....	05	42	14.3	0.2	-0.8	1.8	2.5	0.9
Industrial electric power.....	05	43	9.0	0.2	-1.8	2.8	7.3	-5.0
Commercial natural gas.....	05	52	18.7	-3.5	-4.4	3.3	12.3	-11.5
Industrial natural gas.....	05	53	10.2	-12.8	-1.7	4.2	8.4	-11.4
Gasoline.....	05	71	-5.0	3.2	-4.7	-8.7	6.9	4.2
No. 2 diesel fuel.....	05	7303	4.8	6.8	-1.8	-27.5	11.0	-4.7
Industrial chemicals.....	06	1	-4.8	-2.0	-1.3	-0.4	-0.3	-2.1
Prepared paint ²	06	21	12.7	0.4	0.1	0.3	0.3	-0.2
Plastic construction products ²	07	21	5.1	-0.4	-0.6	-0.3	-0.3	-0.5
Recyclable paper ²	09	12	-58.8	-31.9	-23.9	10.6	-5.2	10.9
Paper ²	09	13	8.0	0.8	-0.4	0.2	-0.2	0.7
Converted paper and paperboard products ²	09	15	10.7	0.7	0.7	0.3	0.2	0.1
Iron and steel scrap.....	10	12	-8.9	0.5	-1.8	-4.3	2.4	10.6
Steel mill products ²	10	17	-21.0	-5.7	-3.1	-3.4	-2.4	2.6
Primary nonferrous metals ²	10	22	-13.7	-2.7	5.4	1.3	3.0	2.6
Nonferrous scrap.....	10	23	-15.5	-4.0	1.8	1.3	0.0	-3.2
Nonferrous wire and cable ²	10	26	9.5	-0.7	4.1	0.6	3.4	2.1
Fabricated structural metal products.....	10	7	2.3	0.1	-0.7	0.0	0.3	-0.2
General purpose machinery and equipment.....	11	4	10.4	0.6	0.7	0.4	0.6	0.2
Construction sand, gravel, and crushed stone.....	13	21	12.2	0.4	0.2	0.7	3.5	0.4
Stage 1 intermediate demand services.....	ID5	9112	4.6	0.4	0.9	-0.4	0.5	-0.3
Truck transportation of freight ²	30	12	-0.2	-0.9	0.8	-1.3	-3.4	-0.8
Airline passenger services.....	30	22	22.5	2.0	-3.6	3.7	2.4	-2.6
Advertising space sales in periodicals, newspapers, directories, and mailing lists ²	36	1	3.8	0.5	-0.3	1.0	1.1	0.6
Business wired telecommunication services ²	37	12	2.1	-0.1	0.1	0.2	-0.2	0.6
Wireless telecommunication services.....	37	2	1.8	0.1	-0.1	0.1	0.0	0.3

See footnotes at end of table.

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

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Feb. 2022 to Feb. 2023 ^p	Sept. to Oct.	Oct. to Nov. ^p	Nov. to Dec. ^p	Dec. to Jan. ^p
Bundled wired telecommunications access services ²	37	5	9.6	1.0	-0.3	-0.2	4.6	-0.2
Business loans (partial).....	39	11	101.2	5.7	8.4	1.5	8.7	10.7
Deposit services (partial) ²	39	2	7.3	-0.3	-0.9	16.0	-1.9	-2.8
Securities brokerage, dealing, investment advice, and related services ²	40	1	25.3	4.1	11.7	0.4	0.4	3.8
Portfolio management ²	40	2	-9.1	-1.8	1.3	-0.9	4.4	-0.6
Investment banking ²	40	3	-11.7	0.1	-1.4	-1.4	0.3	2.1
Insurance.....	41	11	2.6	0.2	0.1	0.6	0.2	0.2
Nonresidential real estate rents ²	43	11	3.3	-1.6	-0.6	1.0	1.8	-3.9
Architectural and engineering services.....	45	3	4.2	0.2	0.4	0.1	0.1	0.5
Management consulting services.....	45	41	0.1	-0.6	0.0	1.2	1.1	-1.2
Waste collection.....	50	1	11.9	0.7	0.6	0.7	1.3	1.6
Traveler accommodation services.....	53	11	10.0	3.5	2.4	1.9	-2.5	-2.7
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	7.5	1.1	0.7	0.5	-1.1	-0.5
Machinery and equipment parts and supplies wholesaling ²	57	1102	0.8	-0.2	2.1	-1.1	1.1	-1.5
Building materials, paint, and hardware wholesaling.....	57	3	1.1	-0.1	-1.3	0.8	-1.3	-0.2
Metals, minerals, and ores wholesaling ²	57	4	-1.1	-0.9	-0.2	-6.2	9.6	0.5
Chemicals and allied products wholesaling ²	57	5	7.4	-0.2	-0.4	-1.3	4.2	-5.7
Paper and plastics products wholesaling ²	57	6	16.3	-0.3	0.4	1.6	-2.2	0.3
Hardware and building materials and supplies retailing.....	58	D	-19.5	2.1	0.3	-6.8	-0.5	-3.7
Mining services ²	60	1	10.0	0.2	0.4	0.3	0.6	0.8

¹ 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.

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

³ 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
 [February 2023, Index base Nov. 2009=100, unless otherwise indicated]

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	Oct. 2022	Nov. 2022 ^p	Dec. 2022 ^p	Jan. 2023 ^p	Feb. 2023 ^p
Final Demand								
Final demand.....		FD	4	140.640	141.082	140.800	141.284	141.078
Final demand goods.....		FD	41	144.785	145.233	143.244	144.972	144.611
Final demand foods.....		FD	411	153.199	158.280	156.901	155.010	151.577
Finished consumer foods ²	00/82	FD	4111	268.194	278.230	275.951	272.730	265.789
Finished consumer foods, crude.....	00/82	FD	411113	350.494	426.706	422.939	352.884	286.829
Finished consumer foods, processed.....	00/82	FD	41112	259.938	262.886	260.762	263.892	262.603
Government purchased foods.....		FD	4112	152.912	154.646	154.301	154.249	152.390
Foods for export.....		FD	4113	162.016	165.581	163.254	160.086	158.215
Final demand energy.....		FD	412	159.156	155.667	145.783	153.321	152.995
Finished consumer energy goods ²	00/82	FD	4121	240.952	235.401	224.747	236.519	237.562
Government purchased energy.....		FD	4122	189.602	185.822	162.205	174.087	170.014
Energy for export.....		FD	4123	170.566	168.151	148.127	149.605	145.727
Final demand goods less foods and energy.....		FD	413	138.317	138.713	138.861	139.690	140.178
Finished goods less foods and energy ²	00/82	FD	4131	240.998	242.168	242.693	244.357	245.229
Finished consumer goods less foods and energy.....	00/82	FD	41311	268.114	269.661	270.031	271.721	272.993
Nondurable consumer goods less foods and energy.....	00/82	FD	413111	345.390	347.831	348.016	350.535	352.886
Durable consumer goods.....	00/82	FD	413112	188.312	188.978	189.511	190.486	190.792
Private capital equipment.....	00/82	FD	41312	206.654	207.442	208.079	209.647	210.130
Private capital equipment for manufacturing industries.....	00/82	FD	413121	219.962	221.074	221.802	223.602	224.373
Private capital equipment for nonmanufacturing industries.....	00/82	FD	413122	202.663	203.361	203.974	205.467	205.865
Government purchased goods, excluding foods and energy.....		FD	4132	135.512	135.662	135.912	136.337	136.351
Government purchased goods excluding foods, energy, and capital equipment.....		FD	41321	145.599	145.646	145.869	146.448	146.241
Government purchased capital equipment.....		FD	41322	120.906	121.184	121.465	121.700	121.980
Goods for export, excluding foods and energy.....		FD	4133	136.570	136.558	136.399	137.125	137.734
Final demand services.....		FD	42	137.471	137.915	138.493	138.390	138.242
Final demand trade services ³		FD	423	151.384	151.642	152.762	151.024	149.862
Trade of finished goods ²		FD	4231	150.364	150.350	151.550	149.703	148.741
Trade of personal consumption goods.....		FD	42311	150.357	149.922	150.741	149.236	148.890
Trade of private capital equipment.....		FD	42312	148.726	150.555	153.412	150.025	146.288
Trade of government purchased goods.....		FD	4232	157.918	160.032	161.298	158.917	157.171
Trade of government purchased goods, excluding capital equipment.....		FD	42321	163.225	164.989	163.406	161.935	161.888
Trade of government purchased capital equipment.....		FD	42322	148.401	151.025	156.604	152.818	148.423
Trade of exports.....		FD	4233	158.602	160.578	160.943	160.428	157.603
Final demand transportation and warehousing services.....		FD	422	157.122	156.401	156.673	154.850	153.075
Transportation of passengers for final demand.....		FD	4221	137.306	132.390	137.217	140.465	136.876
Transportation of private passengers.....		FD	42211	137.303	132.400	137.214	140.456	136.875
Transportation of government passengers.....		FD	42212	137.061	132.214	136.975	140.188	136.640
Transportation of passengers for export.....		FD	42213	137.330	132.358	137.238	140.513	136.892
Transportation and warehousing of goods for final demand.....		FD	4222	163.948	165.068	163.346	159.591	158.535
Transportation and warehousing of finished goods ²		FD	42221	162.870	163.998	162.206	158.094	156.929
Transportation and warehousing of personal consumption goods.....		FD	422211	163.047	164.167	162.393	158.434	157.303
Transportation and warehousing of private capital equipment.....		FD	422212	162.166	163.328	161.460	156.725	155.419
Transportation and warehousing of government purchased goods.....		FD	42222	160.460	161.287	160.280	157.506	156.873
Transportation and warehousing of exports.....		FD	42223	168.399	169.576	167.845	164.665	163.765
Final demand services less trade, transportation, and warehousing.....		FD	421	129.225	129.870	130.229	130.967	131.396
Finished services less trade, transportation, and warehousing ²		FD	4211	129.768	130.346	130.701	131.329	131.688
Finished consumer services less trade, transportation, and warehousing.....		FD	42111	128.972	129.636	129.998	130.682	131.109
Private capital investment services less trade, transportation, and warehousing.....		FD	42112	137.145	136.965	137.251	137.471	137.305
Government purchased services less trade, transportation, and warehousing.....		FD	4212	120.663	121.069	121.245	122.188	122.322
Gov. purchased services less trade, transportation, and warehousing, excl. capital investment.....		FD	42121	121.175	121.652	121.820	122.756	122.867
Government purchased capital investment services less trade, transportation, and warehousing.....		FD	42122	107.798	106.756	107.085	108.165	108.619
Services for export less trade, transportation, and warehousing.....		FD	4213	131.945	133.826	134.449	136.564	138.359
Final demand construction.....		FD	43	173.117	173.290	173.366	176.518	176.657
Construction for private capital investment.....		FD	431	177.229	177.453	177.585	180.905	181.023
Construction for government.....		FD	432	165.435	165.514	165.490	168.304	168.489
Final Demand Special Groupings								
Final demand less exports.....	04/10	FD	49101	138.181	138.573	138.353	138.835	138.615
Final demand less government.....	04/10	FD	49102	138.475	138.944	138.830	139.202	139.035
Final demand less foods, food and nonalcoholic beverages for immediate consumption, and energy ¹	04/10	FD	49103	137.188	137.635	138.110	138.277	138.283
Final demand less foods and energy ⁴	04/10	FD	49104	136.887	137.311	137.771	137.950	137.946
Final demand less foods and food and nonalcoholic beverages for immediate consumption ⁴	04/10	FD	49105	138.267	138.444	138.208	138.834	138.818

See footnotes at end of table.

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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	Oct. 2022	Nov. 2022 ^P	Dec. 2022 ^P	Jan. 2023 ^P	Feb. 2023 ^P
Final demand less foods ⁴	04/10	FD	49106	137.864	138.032	137.818	138.427	138.402
Final demand less energy.....	04/10	FD	49107	137.557	138.249	138.601	138.663	138.466
Final demand less trade services.....	01/10	FD	49108	136.568	137.048	136.434	137.386	137.390
Final demand less distributive services ⁵	01/10	FD	49109	135.558	136.014	135.441	136.600	136.649
Final demand goods less energy.....	01/10	FD	49111	140.115	141.457	141.294	141.536	141.167
Final demand goods less foods.....	04/10	FD	49112	139.805	139.339	137.277	139.737	140.025
Final demand services less trade services.....	04/10	FD	49113	130.696	131.213	131.562	132.054	132.273
Final demand distributive services ⁵	04/10	FD	49114	150.220	150.583	151.320	149.294	148.173
Final demand goods plus final demand distributive services ⁵	04/10	FD	49115	145.008	145.416	144.538	144.672	144.002
Final demand less foods, energy, and trade services ⁴	08/13	FD	49116	125.493	125.935	126.198	126.826	127.097
Private and government purchased capital equipment.....	08/13	FD	49117	124.734	125.183	125.555	126.404	126.696
Private and government purchased capital investment services.....	08/13	FD	49118	131.776	132.507	133.816	132.518	131.044
Total private and government purchased capital investment.....	08/13	FD	49119	131.955	132.512	133.304	133.356	132.749
Total finished ²	01/10	FD	49201	138.881	139.312	139.290	139.653	139.473
Total finished less foods, food and nonalcoholic beverages for immediate consumption, and energy ^{2, 4}	12/10	FD	49202	136.574	136.959	137.505	137.560	137.539
Total finished less foods and energy ^{2, 4}	01/10	FD	49203	137.391	137.784	138.323	138.387	138.368
Total finished less foods and food and nonalcoholic beverages for immediate consumption ^{2, 4}	12/10	FD	49204	136.906	137.028	137.081	137.548	137.570
Total finished less foods ^{2, 4}	01/10	FD	49205	138.261	138.392	138.442	138.923	138.947
Total finished less energy ²	01/10	FD	49206	138.110	138.809	139.242	139.202	138.969
Finished goods ²	00/82	FD	49207	255.806	257.038	254.111	257.641	256.960
Finished goods less energy ²	00/82	FD	49208	247.555	250.991	250.798	251.154	249.913
Finished goods, excluding foods ^{2, 4}	00/82	FD	49209	251.688	250.731	247.655	253.002	253.972
Finished services ²	01/10	FD	49210	136.105	136.439	137.036	136.844	136.725
Private capital investment services.....	04/10	FD	49211	141.934	142.682	143.948	142.570	141.027
Finished distributive services ^{2, 5}	04/10	FD	49212	148.748	148.848	149.725	147.629	146.663
Finished services less trade services ²	04/10	FD	49213	130.597	131.080	131.425	131.854	132.048
Finished services less distributive services ^{2, 5}	04/10	FD	49214	129.088	129.538	129.991	130.672	130.942
Total private capital investment (goods, services, and construction).....	04/10	FD	49215	139.865	140.471	141.295	141.263	140.573
Finished goods plus finished distributive services ²	04/10	FD	49216	145.615	146.030	145.564	145.554	144.893
Total exports.....	04/10	FD	49301	139.673	140.366	139.735	140.151	140.050
Goods for export.....	00/82	FD	49302	236.984	237.370	235.066	235.661	235.772
Services for export.....	04/10	FD	49303	146.113	147.537	147.969	148.507	148.174
Total government purchases.....	04/10	FD	49401	138.183	138.205	136.033	137.703	137.076
Government purchased goods.....	00/82	FD	49402	244.788	243.814	235.014	240.467	238.450
Government purchased services.....	04/10	FD	49403	129.429	130.029	130.474	130.768	130.464
Total government purchased capital investment (goods, services, construction).....	08/13	FD	49404	129.496	129.936	130.824	131.451	131.166
Government purchases, defense.....	05/15	FD	49405	125.211	125.170	122.848	124.468	123.900
Government purchases, non-defense.....	05/15	FD	49406	132.569	132.600	130.562	132.094	131.464
Personal consumption.....	01/10	FD	49501	138.561	138.954	138.743	139.201	139.138
Personal consumption goods (finished consumer goods).....	00/82	FD	49502	276.901	278.331	273.771	278.075	276.884
Personal consumption goods less energy.....	00/82	FD	49503	268.821	273.950	273.204	272.765	270.443
Personal consumption goods less foods.....	00/82	FD	49504	278.353	276.271	270.819	278.392	279.660
Personal consumption nondurable goods less foods.....	00/82	FD	49508	317.343	314.114	306.150	316.891	318.588
Personal consumption services.....	04/10	FD	49505	134.684	134.956	135.452	135.445	135.546
Personal consumption less trade services.....	04/10	FD	49506	135.047	135.658	135.175	136.111	136.119
Personal consumption less distributive services ⁵	04/10	FD	49507	134.272	134.867	134.423	135.541	135.590
Personal consumption less foods and energy.....	04/14	FD	49510	126.120	126.431	126.861	126.944	127.092
Personal consumption less foods, energy, and trade services ³	04/14	FD	49511	122.285	122.830	123.154	123.689	123.977
Personal consumption less foods, energy, and distributive services ⁵	04/14	FD	49512	121.613	122.141	122.541	123.262	123.609
Personal consumption goods plus personal consumption distributive services ⁵	08/13	FD	49509	134.859	135.085	134.217	134.385	133.902
Intermediate Demand by Commodity Type								
Processed goods								
Processed goods for intermediate demand.....	00/82	ID6	1	269.694	268.399	261.777	264.688	263.515
Materials and components for manufacturing.....	00/82	ID6	11	239.157	238.516	237.072	236.824	236.541
Materials for manufacturing.....		ID6	111	152.138	151.369	149.833	149.106	148.518
Materials for food manufacturing.....	00/82	ID6	1111	259.616	261.940	260.233	260.498	255.096
Materials for nondurable manufacturing.....	00/82	ID6	1112	284.866	282.524	280.299	279.011	275.273
Materials for durable manufacturing.....	00/82	ID6	1113	287.182	285.215	281.178	279.015	283.093
Components for manufacturing.....	00/82	ID6	112	184.855	185.151	185.385	186.419	187.064
Components for nondurable manufacturing.....		ID6	1121	147.930	148.182	147.894	147.919	148.505
Components for durable manufacturing.....		ID6	1122	130.270	130.477	130.665	131.431	131.882
Materials and components for construction.....	00/82	ID6	12	351.288	350.621	349.688	349.776	349.938
Materials for construction.....		ID6	121	167.765	167.599	166.463	165.578	165.964
Components for construction.....		ID6	122	178.042	177.585	177.648	178.451	178.269
Processed fuels and lubricants for intermediate demand.....	00/82	ID6	13	295.513	290.150	261.508	275.434	270.949
Processed fuels and lubricants to manufacturing industries.....	00/82	ID6	131	295.567	290.546	274.255	282.550	269.193

See footnotes at end of table.

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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	Oct. 2022	Nov. 2022 ^P	Dec. 2022 ^P	Jan. 2023 ^P	Feb. 2023 ^P
Processed fuels and lubricants to nonmanufacturing industries.....	00/82	ID6	132	296.017	290.533	257.793	273.457	271.717
Containers for intermediate demand.....	00/82	ID6	14	314.516	315.075	315.091	314.691	314.882
Supplies for intermediate demand.....	00/82	ID6	15	252.384	252.936	252.812	253.886	253.241
Supplies to manufacturing industries.....	00/82	ID6	151	248.417	247.895	247.963	247.720	247.900
Supplies to nonmanufacturing industries.....	00/82	ID6	152	250.997	251.713	251.559	252.829	252.060
Supplies to nonmanufacturing industries, feeds.....	00/82	ID6	1521	256.258	256.898	255.502	254.370	248.213
Supplies to nonmanufacturing industries, other than feeds.....	00/82	ID6	1522	252.467	253.196	253.165	254.656	254.579
Unprocessed goods								
Unprocessed goods for intermediate demand.....	00/82	ID6	2	300.637	291.397	295.953	277.375	266.915
Unprocessed foodstuffs and feedstuffs.....	00/82	ID6	21	256.594	256.510	255.979	241.539	238.818
Unprocessed nonfood materials.....	00/82	ID6	22	319.566	304.721	312.410	291.558	276.172
Unprocessed nonfood materials except fuel.....	00/82	ID6	221	359.956	354.321	329.450	329.825	343.477
Unprocessed nonfood materials except fuel to manufacturing industries.....	00/82	ID6	2211	335.468	329.940	305.562	305.479	318.649
Unprocessed nonfood materials except fuel to nonmanufacturing industries.....	00/82	ID6	2212	328.684	329.266	331.307	342.849	344.119
Unprocessed fuel.....	00/82	ID6	222	242.424	216.947	265.777	205.770	136.446
Unprocessed fuel to manufacturing industries.....	00/82	ID6	2221	285.224	272.520	273.121	250.192	226.462
Unprocessed fuel to nonmanufacturing industries.....	00/82	ID6	2222	246.796	219.824	272.943	209.194	135.394
Services								
Services for intermediate demand.....		ID6	3	141.787	142.926	142.941	144.008	144.389
Trade services for intermediate demand ⁵		ID6	33	169.382	170.825	168.713	168.856	167.614
Trade services for manufacturing industries.....	12/12	ID6	331	154.045	155.220	153.158	154.961	153.257
Trade services for nonmanufacturing industries.....	12/12	ID6	332	151.406	152.833	151.087	149.603	149.040
Transportation and warehousing services for intermediate demand.....		ID6	32	159.177	157.142	157.598	157.549	157.226
Transportation of passengers for intermediate demand.....		ID6	321	137.124	132.279	137.037	140.250	136.703
Transportation of passengers for manufacturing industries.....		ID6	3211	137.305	132.338	137.213	140.486	136.868
Transportation of passengers for nonmanufacturing industries.....		ID6	3212	137.163	132.333	137.077	140.283	136.744
Transportation and warehousing of goods for intermediate demand.....		ID6	322	161.575	159.843	159.835	159.489	159.469
Transportation and warehousing of goods for manufacturing industries.....	12/12	ID6	3221	136.000	136.631	135.509	133.317	132.702
Transportation and warehousing of goods for nonmanufacturing industries.....	12/12	ID6	3222	143.799	141.683	141.983	142.244	142.401
Services less trade, transportation, and warehousing for intermediate demand.....		ID6	31	131.238	132.833	133.363	134.827	135.686
Services less trade, transportation, and warehousing for manufacturing industries.....		ID6	311	124.535	124.766	124.975	126.381	126.783
Services less trade, transportation, and warehousing for nonmanufacturing industries.....		ID6	312	131.447	133.089	133.631	135.097	135.971
Construction								
Construction for intermediate demand.....		ID6	4	141.124	141.280	141.344	142.288	142.812
Intermediate Demand by Commodity Type Special Groupings								
Processed materials less foods and feeds.....	00/82	ID6	9111	271.199	269.602	262.506	265.667	264.878
Processed foods and feeds.....	00/82	ID6	9112	254.533	256.463	254.920	255.372	250.452
Processed energy goods.....	00/82	ID6	9113	296.885	291.497	262.722	276.713	272.206
Processed materials less energy.....	00/82	ID6	9118	259.618	259.367	258.391	258.570	258.231
Processed materials less foods and energy.....	00/82	ID6	9115	259.766	259.256	258.351	258.481	258.733
Intermediate distributive services ⁶	04/10	ID6	9116	163.429	163.735	162.398	162.347	161.645
Processed goods plus intermediate distributive services.....	04/10	ID6	9117	151.175	150.735	147.726	148.856	148.201
Unprocessed materials less agricultural products.....	00/82	ID6	9211	320.594	304.899	315.631	291.957	274.429
Unprocessed energy materials ⁷	00/82	ID6	9212	263.221	245.714	258.113	229.674	208.747
Unprocessed materials less energy.....	00/82	ID6	9213	308.352	307.421	305.512	296.325	295.618
Unprocessed nonfood materials less energy ⁸	00/82	ID6	9216	460.814	457.398	451.482	458.917	464.438
Intermediate Demand by Production Flow								
Stage 4 Intermediate Demand								
Stage 4 intermediate demand.....		ID5	4	146.264	146.892	146.389	147.715	147.726
Inputs to stage 4 goods producers.....		ID5	41	146.118	146.529	145.797	146.276	146.086
Goods.....		ID5	411	141.083	141.075	140.637	140.798	140.994
Foods.....		ID5	4111	160.361	160.757	157.930	158.233	156.368
Energy.....		ID5	4112	176.164	180.648	180.011	173.300	172.854
Goods excluding foods and energy.....		ID5	4113	137.924	137.816	137.739	137.935	138.452
Services.....		ID5	412	162.977	164.559	162.997	164.486	163.029
Trade services.....		ID5	4123	173.737	175.795	173.645	175.374	173.292
Transportation and warehousing services.....		ID5	4122	140.012	139.781	139.926	139.191	137.687
Transportation of passengers.....		ID5	41221	137.329	132.357	137.237	140.512	136.891
Transportation and warehousing of goods.....		ID5	41222	149.809	150.491	149.720	148.148	146.961
Services less trade, transportation, and warehousing.....		ID5	4121	125.979	126.262	126.464	127.686	128.177
Inputs to stage 4 services producers.....		ID5	42	141.418	142.417	142.525	144.403	144.461

See footnotes at end of table.

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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	Oct. 2022	Nov. 2022 ^P	Dec. 2022 ^P	Jan. 2023 ^P	Feb. 2023 ^P
Goods.....		ID5	421	147.506	147.247	146.091	148.711	147.875
Foods.....		ID5	4211	150.936	152.451	150.674	150.727	148.719
Energy.....		ID5	4212	147.501	145.289	142.169	148.861	146.854
Goods excluding foods and energy.....		ID5	4213	145.950	146.210	146.274	147.143	147.356
Services.....		ID5	422	139.078	140.531	141.096	142.754	143.110
Trade services.....		ID5	4223	158.660	160.058	158.614	158.970	157.325
Transportation and warehousing services.....		ID5	4222	150.128	148.458	150.586	152.450	152.711
Transportation of passengers.....		ID5	42221	136.788	131.874	136.698	139.943	136.358
Transportation and warehousing of goods.....		ID5	42222	153.013	151.935	153.573	155.213	156.143
Services less trade, transportation, and warehousing.....		ID5	4221	134.797	136.565	137.237	138.999	139.578
Construction.....		ID5	423	141.124	141.280	141.344	142.288	142.812
Inputs to stage 4 construction producers.....		ID5	43	164.133	163.799	161.399	162.242	162.515
Goods.....		ID5	431	168.942	168.279	165.660	166.957	167.360
Energy.....		ID5	4312	192.494	185.844	160.193	170.122	172.267
Goods excluding foods and energy.....		ID5	4313	170.575	170.481	170.047	170.506	170.745
Services.....		ID5	432	151.905	152.354	150.490	150.187	150.143
Trade services.....		ID5	4323	170.164	170.526	166.748	167.273	167.279
Transportation and warehousing services.....		ID5	4322	157.338	158.275	156.773	152.788	151.429
Transportation of passengers.....		ID5	43221	143.147	137.976	143.051	146.459	142.692
Transportation and warehousing of goods.....		ID5	43222	158.510	159.616	157.930	153.750	152.442
Services less trade, transportation, and warehousing.....		ID5	4321	128.360	128.721	128.754	129.232	129.643
Stage 3 Intermediate Demand								
Stage 3 intermediate demand.....		ID5	3	152.639	151.979	149.043	149.177	148.849
Inputs to stage 3 goods producers.....		ID5	31	166.056	164.753	162.612	160.179	159.456
Goods.....		ID5	311	163.635	161.977	159.773	156.556	155.935
Foods.....		ID5	3111	191.395	189.978	189.096	178.871	175.456
Energy.....		ID5	3112	188.059	184.338	153.763	155.540	151.724
Goods excluding foods and energy.....		ID5	3113	154.733	153.065	152.061	151.469	152.195
Services.....		ID5	312	164.024	164.286	162.562	163.334	162.271
Trade services.....		ID5	3123	168.375	168.395	165.920	168.799	167.467
Transportation and warehousing services.....		ID5	3122	157.861	158.565	157.604	154.457	153.078
Transportation of passengers.....		ID5	31221	146.215	140.925	146.117	149.603	145.749
Transportation and warehousing of goods.....		ID5	31222	158.275	159.326	158.010	154.505	153.265
Services less trade, transportation, and warehousing.....		ID5	3121	129.858	130.155	130.026	131.361	131.894
Inputs to stage 3 services producers.....		ID5	32	141.696	141.551	137.979	140.007	139.981
Goods.....		ID5	321	152.773	150.731	133.553	140.422	138.214
Foods.....		ID5	3211	160.954	162.459	161.759	165.937	162.554
Energy.....		ID5	3212	170.100	166.402	138.073	149.155	145.553
Goods excluding foods and energy.....		ID5	3213	135.665	136.194	136.183	136.636	136.604
Services.....		ID5	322	137.917	138.361	138.982	139.798	140.333
Trade services.....		ID5	3223	190.556	192.508	191.573	188.347	190.436
Transportation and warehousing services.....		ID5	3222	164.739	161.000	161.623	162.700	163.050
Transportation of passengers.....		ID5	32221	104.409	104.310	104.506	104.482	104.397
Transportation and warehousing of goods.....		ID5	32222	165.254	161.495	162.121	163.203	163.555
Services less trade, transportation, and warehousing.....		ID5	3221	127.946	129.379	130.116	131.096	131.590
Construction.....		ID5	323	141.124	141.280	141.344	142.288	142.812
Inputs to stage 3 construction producers.....		ID5	33	144.051	144.054	140.396	139.616	138.653
Goods.....		ID5	331	137.788	136.900	135.954	135.394	135.197
Goods excluding foods and energy.....		ID5	3313	175.575	174.444	173.238	172.525	172.273
Services.....		ID5	332	169.809	170.589	164.051	163.190	161.215
Trade services.....		ID5	3323	175.023	175.862	168.777	167.690	165.532
Transportation and warehousing services.....		ID5	3322	115.198	115.399	115.250	115.545	114.618
Transportation and warehousing of goods.....		ID5	33222	121.596	121.808	121.651	121.962	120.984
Services less trade, transportation, and warehousing.....		ID5	3321	121.883	121.948	121.533	124.080	124.071
Stage 2 Intermediate Demand								
Stage 2 intermediate demand.....		ID5	2	140.893	139.434	140.907	138.292	136.857
Inputs to stage 2 goods producers.....		ID5	21	137.664	134.332	136.313	130.759	126.728
Goods.....		ID5	211	139.069	134.639	137.235	129.625	124.176
Foods.....		ID5	2111	175.180	176.512	175.415	171.276	169.641
Energy.....		ID5	2112	116.643	109.177	113.874	101.806	93.096
Goods excluding foods and energy.....		ID5	2113	147.231	147.224	146.783	147.370	147.743
Services.....		ID5	212	146.475	147.165	146.904	147.592	147.811
Trade services.....		ID5	2123	165.453	166.193	164.908	164.523	162.300
Transportation and warehousing services.....		ID5	2122	168.176	167.628	167.087	167.576	168.043
Transportation of passengers.....		ID5	21221	137.628	132.933	137.549	140.691	137.228
Transportation and warehousing of goods.....		ID5	21222	169.941	169.736	168.774	169.181	169.840
Services less trade, transportation, and warehousing.....		ID5	2121	127.850	129.435	130.752	133.014	135.877
Construction.....		ID5	213	141.124	141.280	141.344	142.288	142.812

See footnotes at end of table.

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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	Oct. 2022	Nov. 2022 ^P	Dec. 2022 ^P	Jan. 2023 ^P	Feb. 2023 ^P
Inputs to stage 2 services producers.....		ID5	22	139.977	140.934	141.714	142.871	144.739
Goods.....		ID5	221	147.958	147.628	146.423	147.287	146.965
Foods.....		ID5	2211	133.400	132.318	130.746	128.975	126.768
Energy.....		ID5	2212	196.555	190.791	170.122	183.521	181.192
Goods excluding foods and energy.....		ID5	2213	145.383	145.394	145.395	145.472	145.305
Services.....		ID5	222	138.455	139.630	140.725	141.922	144.083
Trade services.....		ID5	2223	179.696	183.700	192.401	183.534	182.635
Transportation and warehousing services.....		ID5	2222	164.034	152.692	154.299	151.617	149.630
Transportation of passengers.....		ID5	22221	137.741	132.802	137.651	140.913	137.308
Transportation and warehousing of goods.....		ID5	22222	169.544	156.959	157.960	154.184	152.485
Services less trade, transportation, and warehousing.....		ID5	2221	135.545	137.526	138.138	140.102	142.728
Construction.....		ID5	223	141.124	141.280	141.344	142.288	142.812
Stage 1 Intermediate Demand								
Stage 1 intermediate demand.....		ID5	1	148.218	148.418	145.843	146.843	146.201
Inputs to stage 1 goods producers.....		ID5	11	151.665	150.907	148.708	149.327	148.614
Goods.....		ID5	111	152.834	151.710	149.247	149.280	148.723
Foods.....		ID5	1111	176.781	174.854	170.986	170.295	168.630
Energy.....		ID5	1112	149.446	148.183	141.552	145.249	142.883
Goods excluding foods and energy.....		ID5	1113	153.515	152.531	151.230	150.527	150.567
Services.....		ID5	112	152.330	152.532	150.984	153.248	152.076
Trade services.....		ID5	1123	167.468	167.684	165.044	168.486	166.078
Transportation and warehousing services.....		ID5	1122	159.685	158.015	158.218	158.291	157.765
Transportation of passengers.....		ID5	11221	137.303	132.332	137.211	140.485	136.865
Transportation and warehousing of goods.....		ID5	11222	163.446	162.386	161.730	160.935	161.174
Services less trade, transportation, and warehousing.....		ID5	1121	107.269	107.750	107.655	108.394	108.860
Construction.....		ID5	113	141.124	141.280	141.344	142.288	142.812
Inputs to stage 1 services producers.....		ID5	12	144.454	145.281	143.002	144.422	143.868
Goods.....		ID5	121	155.835	155.064	147.825	151.086	149.683
Foods.....		ID5	1211	213.973	211.598	229.184	223.719	187.426
Energy.....		ID5	1212	191.334	188.123	163.802	172.418	167.954
Goods excluding foods and energy.....		ID5	1213	146.865	147.248	147.797	148.845	149.034
Services.....		ID5	122	138.454	140.078	140.284	140.955	140.760
Trade services.....		ID5	1223	168.261	171.158	169.678	168.032	169.200
Transportation and warehousing services.....		ID5	1222	143.755	142.211	143.534	145.182	143.914
Transportation of passengers.....		ID5	12221	137.221	132.253	137.129	140.401	136.783
Transportation and warehousing of goods.....		ID5	12222	162.547	162.790	162.230	163.208	163.046
Services less trade, transportation, and warehousing.....		ID5	1221	133.184	135.064	135.319	136.061	135.883
Construction.....		ID5	123	141.124	141.280	141.344	142.288	142.812
Inputs to stage 1 construction producers.....		ID5	13	167.746	167.769	162.596	162.792	161.885
Goods.....		ID5	131	169.698	169.314	164.235	165.535	164.799
Energy.....		ID5	1312	204.261	200.765	156.309	166.099	158.892
Goods excluding foods and energy.....		ID5	1313	167.889	167.904	167.874	168.191	168.205
Services.....		ID5	132	163.926	164.756	159.394	157.182	155.865
Trade services.....		ID5	1323	170.093	170.900	164.690	163.602	162.181
Transportation and warehousing services.....		ID5	1322	132.272	133.221	131.530	127.240	126.219
Transportation and warehousing of goods.....		ID5	13222	136.818	137.800	136.050	131.614	130.557
Services less trade, transportation, and warehousing.....		ID5	1321	133.502	133.858	134.181	135.014	134.721
Intermediate Demand by Production Flow Special Groupings								
Total goods inputs to stage 4 intermediate demand.....	04/10	ID5	9411	145.465	145.259	144.206	145.336	145.264
Total services inputs to stage 4 intermediate demand.....	04/10	ID5	9412	143.325	144.716	144.741	146.232	146.314
Total construction inputs to stage 4 intermediate demand.....	04/10	ID5	9413	139.955	140.109	140.173	141.109	141.629
Total foods inputs to stage 4 intermediate demand.....	04/10	ID5	9414	152.892	153.743	151.413	151.609	149.725
Total energy goods inputs to stage 4 intermediate demand.....	04/10	ID5	9415	142.825	140.359	134.275	140.483	139.287
Total goods less foods and energy inputs to stage 4 intermediate demand.....	04/10	ID5	9416	145.922	145.896	145.769	146.168	146.552
Total goods inputs to stage 3 intermediate demand.....	04/10	ID5	9311	152.759	151.094	145.317	144.730	143.760
Total services inputs to stage 3 intermediate demand.....	04/10	ID5	9312	141.529	141.941	142.033	142.813	143.056
Total construction inputs to stage 3 intermediate demand.....	04/10	ID5	9313	139.955	140.109	140.173	141.109	141.629
Total foods inputs to stage 3 intermediate demand.....	04/10	ID5	9314	170.120	168.881	168.097	159.107	156.068
Total energy goods inputs to stage 3 intermediate demand.....	04/10	ID5	9315	169.537	165.911	137.798	147.272	143.706
Total goods less foods and energy inputs to stage 3 intermediate demand.....	04/10	ID5	9316	145.660	144.398	143.581	143.170	143.733
Total goods inputs to stage 2 intermediate demand.....	04/10	ID5	9211	133.238	129.416	131.521	125.105	120.419
Total services inputs to stage 2 intermediate demand.....	04/10	ID5	9212	140.772	141.847	142.654	143.732	145.439
Total construction inputs to stage 2 intermediate demand.....	04/10	ID5	9213	139.955	140.109	140.173	141.109	141.629
Total foods inputs to stage 2 intermediate demand.....	04/10	ID5	9214	175.681	176.992	175.883	171.746	170.090
Total energy goods inputs to stage 2 intermediate demand.....	04/10	ID5	9215	115.107	107.818	112.124	100.577	92.115
Total goods less foods and energy inputs to stage 2 intermediate demand.....	04/10	ID5	9216	138.426	138.423	138.103	138.545	138.779
Total goods inputs to stage 1 intermediate demand.....	04/10	ID5	9111	139.255	138.469	134.436	135.609	134.836

See footnotes at end of table.

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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	Oct. 2022	Nov. 2022 ^p	Dec. 2022 ^p	Jan. 2023 ^p	Feb. 2023 ^p
Total services inputs to stage 1 intermediate demand.	04/10	ID5	9112	141.939	143.222	142.651	143.385	142.946
Total construction inputs to stage 1 intermediate demand.	04/10	ID5	9117	139.955	140.109	140.173	141.109	141.629
Total foods inputs to stage 1 intermediate demand.	04/10	ID5	9114	167.207	165.383	162.160	161.389	159.015
Total energy goods inputs to stage 1 intermediate demand.	04/10	ID5	9115	169.901	167.493	148.838	155.227	151.511
Total goods less foods and energy inputs to stage 1 intermediate demand.	04/10	ID5	9116	127.964	127.685	127.321	127.371	127.438

¹ 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.

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

³ Trade indexes measure changes in margins received by wholesalers and retailers.

⁴ 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.

⁵ Distributive services include transportation, warehousing, and trade of goods.

⁶ Includes intermediate trade, transportation, and warehousing services.

⁷ Includes crude petroleum.

⁸ Excludes crude petroleum.

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"/" Data not available.