



**Transmission of material in this release is embargoed until
 8:30 a.m. (ET) Thursday, May 11, 2023**

USDL 23-0944

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

PRODUCER PRICE INDEXES – APRIL 2023

The Producer Price Index for final demand advanced 0.2 percent in April, seasonally adjusted, the U.S. Bureau of Labor Statistics reported today. Final demand prices fell 0.4 percent in March and were unchanged in February. (See table A.) On an unadjusted basis, the index for final demand moved up 2.3 percent for the 12 months ended in April.

In April, 80 percent of the rise in the index for final demand is attributable to a 0.3-percent increase in prices for final demand services. The index for final demand goods advanced 0.2 percent.

Prices for final demand less foods, energy, and trade services rose 0.2 percent in April after inching up 0.1 percent in March. For the 12 months ended in April, the index for final demand less foods, energy, and trade services increased 3.4 percent.

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

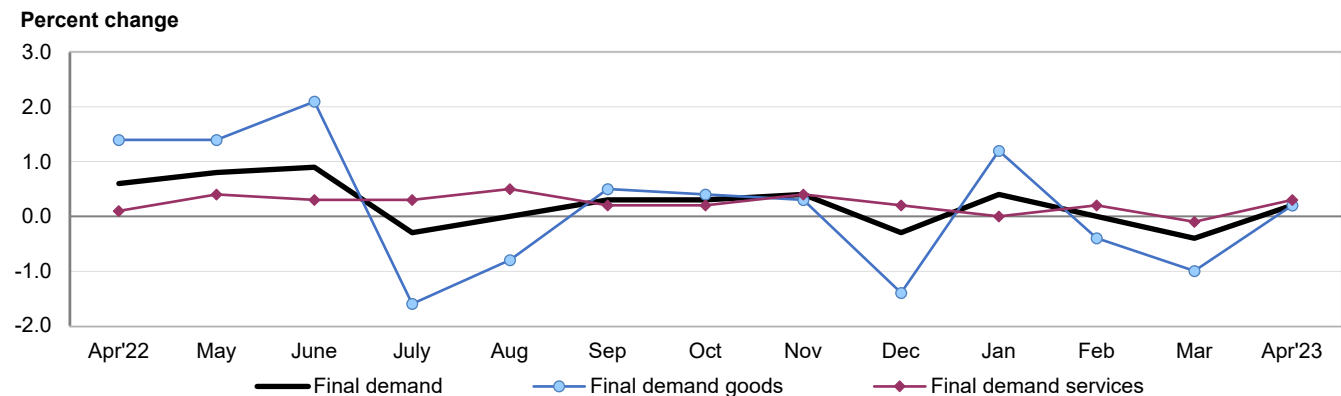
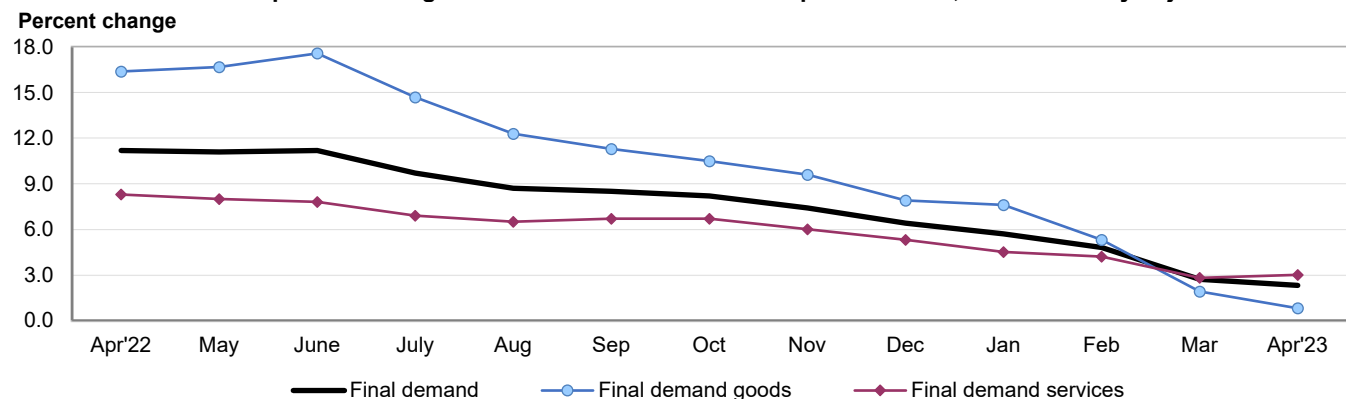


Chart 2. Twelve-month percent changes in selected PPI final demand price indexes, not seasonally adjusted



Final Demand

Final demand services: Prices for final demand services moved up 0.3 percent in April, the largest increase since a 0.4-percent rise in November 2022. Leading the advance in April, the index for final demand services less trade, transportation, and warehousing climbed 0.4 percent. Margins for final demand trade services increased 0.5 percent. (Trade indexes measure changes in margins received by wholesalers and retailers.) In contrast, the index for final demand transportation and warehousing services decreased 1.7 percent.

Product detail: Over one-third of the April advance in the index for final demand services can be traced to a 4.1-percent rise in prices for portfolio management. The indexes for food and alcohol wholesaling, outpatient care (partial), loan services (partial), hospital inpatient care, and guestroom rental also moved higher. Conversely, prices for long-distance motor carrying declined 2.3 percent. The indexes for food retailing and for securities brokerage, dealing, and investment advice also fell. (See table 2.)

Final demand goods: Prices for final demand goods increased 0.2 percent in April after falling 1.0 percent in March. Leading the advance, the index for final demand energy rose 0.8 percent. Prices for final demand goods less foods and energy moved up 0.2 percent. In contrast, the index for final demand foods decreased 0.5 percent.

Product detail: An 8.4-percent advance in prices for gasoline was a major factor in the April increase in the index for final demand goods. Prices for fresh and dry vegetables, carbon steel scrap, plastic resins and materials, aircraft and aircraft equipment, and fluid power equipment also moved higher. Conversely, the index for chicken eggs dropped 37.9 percent. Prices for jet fuel and for light motor trucks also declined.

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

Month	Total final demand	Final demand less foods, energy, and trade	Final demand goods				Final demand services				Change in final demand from 12 months ago (unadj.)	Change in final demand less foods, energy, and trade from 12 mo. ago (unadj.)
			Total	Foods	Energy	Less foods and energy	Total	Trade	Transportation and warehousing	Other		
2022												
Apr.....	0.6	0.5	1.4	1.6	1.9	1.2	0.1	0.2	2.0	-0.2	11.2	6.8
May. ..	0.8	0.5	1.4	0.7	4.0	0.7	0.4	0.6	2.5	0.1	11.1	6.8
June...	0.9	0.3	2.1	-0.1	8.4	0.5	0.3	0.5	0.8	0.1	11.2	6.4
July....	-0.3	0.2	-1.6	1.3	-8.3	0.2	0.3	0.8	-0.3	0.1	9.7	5.8
Aug....	0.0	0.2	-0.8	-0.2	-4.4	0.2	0.5	1.0	-1.1	0.4	8.7	5.6
Sept...	0.3	0.3	0.5	1.5	1.0	0.0	0.2	-0.3	-0.2	0.5	8.5	5.6
Oct.....	0.3	0.2	0.4	0.7	1.5	0.0	0.2	0.2	0.0	0.2	8.2	5.5
Nov....	0.4	0.4	0.3	3.3	-2.3	0.3	0.4	0.5	-0.4	0.5	7.4	4.9
Dec. ¹ ..	-0.3	0.2	-1.4	-0.9	-6.3	0.1	0.2	0.3	0.0	0.2	6.4	4.7
2023												
Jan. ¹ ..	0.4	0.6	1.2	-1.3	5.4	0.6	0.0	-1.2	-0.5	0.6	5.7	4.5
Feb. ¹ ..	0.0	0.2	-0.4	-2.3	-0.8	0.3	0.2	0.2	-0.8	0.3	4.8	4.5
Mar. ¹ ..	-0.4	0.1	-1.0	0.3	-6.0	0.2	-0.1	-0.4	-0.6	0.2	2.7	3.7
Apr.....	0.2	0.2	0.2	-0.5	0.8	0.2	0.3	0.5	-1.7	0.4	2.3	3.4

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

Intermediate Demand by Commodity Type

Within intermediate demand in April, the index for processed goods declined 0.4 percent, prices for unprocessed goods rose 1.7 percent, and the index for services advanced 0.7 percent. (See tables B and C.)

Processed goods for intermediate demand: Prices for processed goods for intermediate demand decreased 0.4 percent in April after moving down 0.9 percent in March. Leading the April decline, the index for processed energy goods dropped 2.3 percent. Prices for processed foods and feeds fell 1.2 percent. In contrast, the index for processed materials less foods and energy increased 0.3 percent. For the 12 months ended in April, prices for processed goods for intermediate demand decreased 3.2 percent, the largest 12-month decline since falling 3.7 percent in July 2020.

Product detail: Over half of the April decrease in prices for processed goods for intermediate demand can be traced to a 4.1-percent decline in the index for diesel fuel. Prices for jet fuel, utility natural gas, meats, fats and oils, and nitrogenates also fell. Conversely, the index for plastic resins and materials rose 2.9 percent. Prices for gasoline and for cold rolled steel sheet and strip also advanced.

Unprocessed goods for intermediate demand: The index for unprocessed goods for intermediate demand increased 1.7 percent in April, the largest advance since moving up 4.8 percent in August 2022. A major factor in the April rise was a 5.2-percent jump in prices for unprocessed energy materials. The index for unprocessed nonfood materials less energy moved up 1.8 percent. In contrast, prices for unprocessed foodstuffs and feedstuffs decreased 1.4 percent. For the 12 months ended in April, the index for unprocessed goods for intermediate demand fell 19.2 percent, the largest 12-month decline since dropping 20.1 percent in May 2020.

Product detail: Leading the April advance in prices for unprocessed goods for intermediate demand, the index for crude petroleum rose 14.2 percent. Prices for slaughter steers and heifers, corn, carbon steel scrap, fresh and dry vegetables, and coal also increased. Conversely, the index for ungraded chicken eggs dropped 40.7 percent. Prices for natural gas and for aluminum base scrap also fell.

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										
Apr.....	2.0	3.2	4.2	1.2	22.0	5.8	3.8	9.3	2.8	50.1
May.....	2.2	1.2	4.4	1.7	21.6	5.4	0.3	14.6	-4.2	46.4
June.....	1.9	0.1	8.4	0.1	21.9	4.8	-0.7	11.1	-1.8	50.3
July.....	-2.1	0.5	-8.0	-0.4	17.2	-8.8	-1.1	-14.2	-5.9	32.5
Aug.....	-1.2	-0.2	-3.7	-0.6	14.3	4.8	-0.9	10.9	0.5	36.9
Sept.....	-0.1	-0.1	2.0	-0.8	12.9	-3.1	1.3	-6.6	-0.6	29.2
Oct.....	-0.2	-0.2	1.5	-0.8	10.1	-9.7	-0.7	-18.1	-4.1	9.3
Nov.....	-0.5	0.8	-1.9	-0.2	7.6	-3.1	0.0	-6.7	-0.7	3.5
Dec. ¹	-2.5	-0.6	-9.8	-0.4	4.8	1.5	-0.2	5.2	-1.7	10.7
2023										
Jan. ¹	1.1	0.2	5.3	0.0	3.9	-4.6	-5.8	-7.4	2.2	2.9
Feb. ¹	-0.5	-2.0	-1.7	0.1	2.0	-4.8	-1.0	-11.1	0.4	-10.3
Mar. ¹	-0.9	-0.3	-4.1	0.0	-1.0	-4.1	-0.6	-9.9	-0.6	-16.1
Apr.....	-0.4	-1.2	-2.3	0.3	-3.2	1.7	-1.4	5.2	1.8	-19.2

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

Services for intermediate demand: The index for services for intermediate demand rose 0.7 percent in April after declining 0.2 percent in March. More than three-quarters of the increase can be attributed to a 0.8-percent advance in prices for services less trade, transportation, and warehousing for intermediate demand. Margins for trade services for intermediate demand moved up 1.5 percent. In contrast, the index for transportation and warehousing services for intermediate demand decreased 0.8 percent. For the 12 months ended in April, prices for services for intermediate demand increased 4.5 percent.

Product detail: More than 20 percent of the April advance in the index for services for intermediate demand can be traced to a 2.4-percent rise in prices for nonresidential real estate rents. The indexes for food and alcohol wholesaling, loan services (partial), staffing services, portfolio management, and services related to securities brokerage and dealing (partial) also moved higher. Conversely, prices for long-distance motor carrying fell 2.3 percent. The indexes for securities brokerage, dealing, and investment advice and for hardware, building materials, and supplies retailing 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					
Apr.....	0.8	1.0	1.7	0.6	8.0
May.....	0.6	0.8	0.5	0.5	7.9
June.....	-0.3	-0.5	0.1	-0.3	6.3
July.....	0.3	0.2	1.1	0.1	5.9
Aug.....	0.6	-0.9	-0.3	1.3	6.0
Sept.....	0.5	0.1	-0.4	0.8	6.2
Oct.....	0.4	0.0	0.6	0.5	6.7
Nov.....	0.8	0.9	-1.3	1.2	6.9
Dec. ¹	0.0	-1.3	0.0	0.4	6.0
2023					
Jan. ¹	1.0	0.7	0.3	1.1	6.3
Feb. ¹	0.3	-0.3	-0.1	0.6	6.2
Mar. ¹	-0.2	1.0	-0.6	-0.4	4.7
Apr.....	0.7	1.5	-0.8	0.8	4.5

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

Intermediate Demand by Production Flow

Stage 4 intermediate demand: Prices for stage 4 intermediate demand moved up 0.4 percent in April after declining 0.2 percent in March. In April, the index for total services inputs to stage 4 intermediate demand advanced 0.9 percent. In contrast, prices for total goods inputs edged down 0.1 percent. Increases in the indexes for nonresidential real estate rents, portfolio management, food and alcohol wholesaling, gasoline, services related to securities brokerage and dealing (partial), and loan services (partial) outweighed falling prices for meats; securities brokerage, dealing, and investment advice; and diesel fuel. For the 12 months ended in April, the index for stage 4 intermediate demand rose 2.9 percent.

Stage 3 intermediate demand: Prices for stage 3 intermediate demand edged down 0.1 percent in April after falling 0.5 percent in March. In April, the index for total goods inputs to stage 3 intermediate demand decreased 1.0 percent. Conversely, prices for total services inputs advanced 0.7 percent. Declines in the indexes for ungraded chicken eggs, jet fuel, diesel fuel, slaughter hogs, and arrangement of freight and cargo transportation outweighed rising prices for television advertising time sales, slaughter cattle, staffing services, and plastic resins and materials. For the 12 months ended in April, the index for stage 3 intermediate demand moved down 3.6 percent, the largest 12-month decrease since falling 3.6 percent in August 2020.

Stage 2 intermediate demand: Prices for stage 2 intermediate demand increased 1.2 percent in April, the largest advance since climbing 3.0 percent in August 2022. The indexes for total goods inputs and for total services inputs to stage 2 intermediate demand both moved higher, 1.8 percent and 0.7 percent, respectively. Increases in the indexes for crude petroleum, loan services (partial), food and alcohol wholesaling, staffing services, carbon steel scrap, and janitorial services outweighed declines in prices for gas fuels, arrangement of freight and cargo transportation, and prepared animal feeds. For the 12 months ended in April, the index for stage 2 intermediate demand fell 5.1 percent, the largest 12-month decrease since dropping 5.3 percent in July 2020.

Stage 1 intermediate demand: Prices for stage 1 intermediate demand were unchanged in April following two consecutive decreases. In April, a 0.5-percent increase in the index for total services inputs to stage 1 intermediate demand offset a 0.5-percent decline in prices for total goods inputs. Advances in the indexes for nonresidential real estate rents, services related to securities brokerage and dealing (partial), gasoline, fluid power equipment, and portfolio management offset falling prices for diesel fuel; utility natural gas; securities, brokerage, dealing, and investment advice; transportation of passengers (partial); and nitrogenates. For the 12 months ended in April, the index for stage 1 intermediate demand decreased 0.8 percent, the first 12-month decline since moving down 0.6 percent in October 2020.

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

Month	Stage 4 intermediate demand			Stage 3 intermediate demand			Stage 2 intermediate demand			Stage 1 intermediate demand		
	Total	Goods inputs	Ser-vices inputs	Total	Goods inputs	Ser-vices inputs	Total	Goods inputs	Ser-vices inputs	Total	Goods inputs	Ser-vices inputs
2022												
Apr.....	1.0	1.2	0.7	2.3	3.3	1.3	2.9	5.1	0.7	1.6	2.4	0.8
May.....	0.9	1.4	0.5	1.7	2.5	0.7	3.6	6.6	0.3	1.5	2.1	0.8
June.....	0.3	1.0	-0.3	0.5	1.4	-0.5	2.9	5.3	0.1	1.0	2.4	-0.6
July.....	-0.4	-0.8	0.0	-1.2	-2.6	0.4	-4.1	-8.2	0.9	-1.6	-2.8	-0.3
Aug.....	0.3	0.0	0.6	-1.3	-2.6	0.1	3.0	4.8	1.2	-0.4	-1.2	0.5
Sept.....	0.4	0.1	0.7	0.0	-0.1	0.1	-1.9	-4.0	0.3	0.3	0.3	0.2
Oct.....	0.1	-0.1	0.2	-0.1	-0.6	0.5	-4.7	-9.8	0.8	0.1	-0.2	0.4
Nov.....	0.4	-0.2	1.0	-0.4	-1.1	0.3	-1.0	-2.9	0.8	0.1	-0.6	0.9
Dec. ¹	-0.4	-0.7	0.0	-2.0	-3.8	0.0	1.0	1.5	0.6	-1.8	-3.0	-0.4
2023												
Jan. ¹	1.0	0.8	1.2	0.2	-0.4	0.8	-1.0	-3.2	0.9	0.8	0.8	0.8
Feb. ¹	0.0	-0.1	0.2	-0.3	-0.8	0.1	-1.4	-4.7	1.3	-0.4	-0.5	-0.2
Mar. ¹	-0.2	-0.4	0.0	-0.5	-0.9	-0.3	-2.2	-4.4	-0.6	-0.4	-0.9	0.1
Apr.....	0.4	-0.1	0.9	-0.1	-1.0	0.7	1.2	1.8	0.7	0.0	-0.5	0.5

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

The Producer Price Index for May 2023 is scheduled to be released on Wednesday, June 14, 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 [April 2023]

Grouping	Commodity code		Relative Importance Dec. 2022 ¹	Unadjusted 12-month percent change ² Apr. 2022 to Apr. 2023 ^P	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			Nov. to Dec.	Dec. to Jan. ^P	Jan. to Feb. ^P	Feb. to Mar. ^P	Mar. to Apr. ^P
Final Demand									
Final demand.....	FD	4	100.000	2.3	-0.3	0.4	0.0	-0.4	0.2
Final demand goods.....	FD	41	30.721	0.8	-1.4	1.2	-0.4	-1.0	0.2
Final demand foods.....	FD	411	5.953	2.5	-0.9	-1.3	-2.3	0.3	-0.5
Finished consumer foods ³	FD	4111	4.521	4.1	-0.8	-1.3	-2.6	0.8	-0.5
Finished consumer foods, crude.....	FD	41113	0.606	6.6	-0.9	-17.3	-18.9	4.0	2.0
Finished consumer foods, processed.....	FD	41112	3.915	3.2	-0.8	1.2	-0.6	0.5	-0.8
Government purchased foods.....	FD	4112	0.408	0.9	-0.2	0.0	-1.3	0.3	-1.1
Foods for export.....	FD	4113	1.024	-4.2	-1.4	-2.0	-1.2	-1.9	0.1
Final demand energy.....	FD	412	5.845	-8.1	-6.3	5.4	-0.8	-6.0	0.8
Finished consumer energy goods ³	FD	4121	4.458	-4.8	-4.5	5.6	0.0	-6.5	2.3
Government purchased energy.....	FD	4122	0.933	-16.8	-12.7	7.2	-3.2	-5.0	-4.1
Energy for export.....	FD	4123	0.454	-21.7	-11.9	1.4	-3.7	-2.0	-4.7
Final demand goods less foods and energy.....	FD	413	18.922	3.3	0.1	0.6	0.3	0.2	0.2
Finished goods less foods and energy ³	FD	4131	10.796	5.4	0.2	0.7	0.3	0.3	0.1
Finished consumer goods less foods and energy.....	FD	41311	5.749	5.3	0.1	0.7	0.5	0.2	0.1
Nondurable consumer goods less foods and energy.....	FD	413111	3.454	6.3	0.0	0.8	0.7	0.1	0.2
Durable consumer goods.....	FD	413112	2.295	3.7	0.3	0.5	0.2	0.2	-0.1
Private capital equipment.....	FD	41312	5.047	5.5	0.3	0.7	0.2	0.4	0.1
Private capital equipment for manufacturing industries.....	FD	413121	1.225	6.3	0.3	0.9	0.3	0.4	0.2
Private capital equipment for nonmanufacturing industries.....	FD	413122	3.822	5.3	0.3	0.7	0.2	0.4	0.1
Government purchased goods, excluding foods and energy.....	FD	4132	1.972	2.8	0.2	0.3	0.0	0.1	0.0
Government purchased goods excluding foods, energy, and capital equipment.....	FD	41321	1.163	2.8	0.1	0.4	-0.1	0.0	-0.1
Government purchased capital equipment.....	FD	41322	0.809	2.6	0.3	0.1	0.2	0.3	0.0
Goods for export, excluding foods and energy.....	FD	4133	6.154	-0.2	-0.2	0.6	0.3	0.2	0.4
Final demand services.....	FD	42	66.603	3.0	0.2	0.0	0.2	-0.1	0.3
Final demand trade services ⁴	FD	423	19.642	2.6	0.3	-1.2	0.2	-0.4	0.5
Trade of finished goods ³	FD	4231	16.988	2.4	0.4	-1.2	0.3	-0.6	0.4
Trade of personal consumption goods.....	FD	42311	13.855	3.1	0.4	-0.9	0.4	-0.8	0.5
Trade of private capital equipment.....	FD	42312	3.133	-0.6	0.3	-2.9	0.0	0.5	-0.2
Trade of government purchased goods.....	FD	4232	0.746	3.4	-0.1	-1.6	0.4	-0.3	1.1
Trade of government purchased goods, excluding capital equipment.....	FD	42321	0.463	5.6	-1.0	-0.5	0.3	-0.1	1.9
Trade of government purchased capital equipment.....	FD	42322	0.283	-0.1	1.3	-3.3	0.4	-0.7	-0.3
Trade of exports.....	FD	4233	1.908	3.5	-0.5	-0.3	-0.3	0.6	0.9
Final demand transportation and warehousing services.....	FD	422	5.218	-2.3	0.0	-0.5	-0.8	-0.6	-1.7
Transportation of passengers for final demand.....	FD	4221	1.282	6.2	3.2	2.3	-1.0	0.8	-2.9
Transportation of private passengers.....	FD	42211	0.865	6.2	3.2	2.3	-1.0	0.8	-2.9
Transportation of government passengers.....	FD	42212	0.103	6.2	3.2	2.3	-1.0	0.8	-2.9
Transportation of passengers for export.....	FD	42213	0.314	6.3	3.2	2.3	-1.0	0.8	-2.9
Transportation and warehousing of goods for final demand.....	FD	4222	3.936	-5.1	-1.1	-1.4	-0.7	-1.1	-1.3
Transportation and warehousing of finished goods ³	FD	42221	2.565	-5.8	-1.2	-1.6	-0.8	-1.2	-1.4
Transportation and warehousing of personal consumption goods.....	FD	422211	2.062	-5.5	-1.2	-1.5	-0.8	-1.1	-1.4
Transportation and warehousing of private capital equipment.....	FD	422212	0.503	-6.7	-1.2	-1.9	-0.9	-1.2	-1.5
Transportation and warehousing of government purchased goods.....	FD	42222	0.233	-3.0	-0.9	-0.9	-0.4	-0.9	-1.2
Transportation and warehousing of exports.....	FD	42223	1.138	-4.0	-1.1	-1.1	-0.6	-1.0	-1.1
Final demand services less trade, transportation, and warehousing.....	FD	421	41.742	3.8	0.2	0.6	0.3	0.2	0.4
Finished services less trade, transportation, and warehousing ³	FD	4211	36.483	3.6	0.2	0.5	0.3	0.2	0.4
Finished consumer services less trade, transportation, and warehousing.....	FD	42111	32.129	3.6	0.2	0.5	0.3	0.3	0.5
Private capital investment services less trade, transportation, and warehousing.....	FD	42112	4.354	3.5	0.2	0.4	0.1	0.2	0.0
Government purchased services less trade, transportation, and warehousing.....	FD	4212	2.674	2.7	0.3	0.8	0.2	-0.1	0.5
Gov. purchased services less trade, transportation, and warehousing, excl. capital investment.....	FD	42121	2.515	2.8	0.2	0.8	0.1	-0.1	0.6
Government purchased capital investment services less trade, transportation, and warehousing.....	FD	42122	0.159	1.3	0.4	1.4	0.6	0.0	-0.6
Services for export less trade, transportation, and warehousing.....	FD	4213	2.585	7.0	0.5	1.6	1.5	-0.5	0.4
Final demand construction.....	FD	43	2.676	11.2	0.0	1.9	0.0	0.1	-0.3
Construction for private capital investment.....	FD	431	1.861	11.8	0.1	1.9	0.0	0.1	-0.3
Construction for government.....	FD	432	0.815	10.0	0.0	1.8	0.1	0.2	-0.3
Special Groupings of Final Demand									
Final demand less exports.....	FD	49101	86.423	2.7	-0.3	0.4	0.0	-0.4	0.3
Final demand less government.....	FD	49102	92.116	2.5	-0.2	0.3	0.1	-0.3	0.3

See footnotes at end of table.

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

Grouping	Commodity code		Relative Importance Dec. 2022 ¹	Unadjusted 12-month percent change ² Apr. 2022 to Apr. 2023 ^P	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			Nov. to Dec.	Dec. to Jan. ^P	Jan. to Feb. ^P	Feb. to Mar. ^P	Mar. to Apr. ^P
Final demand less foods, food and nonalcoholic beverages for immediate consumption, and energy ⁵	FD	49103	87.788	3.2	0.2	0.2	0.2	0.0	0.3
Final demand less foods and energy ⁵	FD	49104	88.202	3.2	0.2	0.2	0.2	0.0	0.2
Final demand less foods and food and nonalcoholic beverages for immediate consumption ⁵	FD	49105	93.633	2.3	-0.3	0.5	0.2	-0.4	0.3
Final demand less foods ⁵	FD	49106	94.047	2.3	-0.3	0.5	0.2	-0.4	0.3
Final demand less energy.....	FD	49107	94.155	3.2	0.1	0.1	0.1	0.0	0.2
Final demand less trade services.....	FD	49108	80.358	2.3	-0.5	0.8	0.0	-0.3	0.2
Final demand less distributive services ⁶	FD	49109	76.422	2.6	-0.4	0.9	0.0	-0.3	0.3
Final demand goods less energy.....	FD	49111	24.875	3.0	-0.1	0.2	-0.3	0.2	0.0
Final demand goods less foods.....	FD	49112	24.767	0.5	-1.5	1.9	0.0	-1.3	0.3
Final demand services less trade services.....	FD	49113	46.960	3.1	0.2	0.5	0.2	0.1	0.2
Final demand distributive services ⁶	FD	49114	23.578	1.3	0.1	-1.2	0.1	-0.5	0.2
Final demand goods plus final demand distributive services ⁶	FD	49115	54.298	1.0	-0.8	0.2	-0.2	-0.8	0.2
Final demand less foods, energy, and trade services ⁵	FD	49116	68.560	3.4	0.2	0.6	0.2	0.1	0.2
Private and government purchased capital equipment.....	FD	49117	5.856	5.1	0.3	0.6	0.2	0.4	0.1
Private and government purchased capital investment services.....	FD	49118	8.432	1.1	0.2	-1.1	0.0	0.2	-0.2
Total private and government purchased capital investment.....	FD	49119	14.288	3.8	0.2	0.0	0.1	0.2	-0.1
Total finished ³	FD	49201	78.537	2.9	-0.1	0.3	0.0	-0.4	0.3
Total finished less foods, food and nonalcoholic beverages for immediate consumption, and energy ^{3, 5}	FD	49202	69.149	3.5	0.3	0.1	0.2	0.0	0.2
Total finished less foods and energy ^{3, 5}	FD	49203	69.558	3.5	0.3	0.1	0.2	0.0	0.2
Total finished less foods and food and nonalcoholic beverages for immediate consumption ^{3, 5}	FD	49204	73.607	2.8	-0.1	0.4	0.2	-0.4	0.4
Total finished less foods ^{3, 5}	FD	49205	74.016	2.8	-0.1	0.4	0.2	-0.4	0.4
Total finished less energy ³	FD	49206	74.079	3.5	0.2	0.0	0.1	0.1	0.2
Finished goods ³	FD	49207	19.775	2.6	-1.1	1.4	-0.4	-1.3	0.5
Finished goods less energy ³	FD	49208	15.317	5.0	-0.1	0.1	-0.5	0.4	-0.1
Finished goods, excluding foods ^{3, 5}	FD	49209	15.254	2.2	-1.2	2.3	0.2	-1.9	0.7
Finished services ³	FD	49210	56.901	2.9	0.3	-0.1	0.2	0.0	0.3
Private capital investment services.....	FD	49211	7.990	1.1	0.2	-1.0	0.0	0.2	-0.2
Finished distributive services ^{3, 6}	FD	49212	19.553	1.4	0.2	-1.3	0.2	-0.6	0.2
Finished services less trade services ³	FD	49213	39.913	3.0	0.2	0.4	0.2	0.2	0.3
Finished services less distributive services ^{3, 6}	FD	49214	37.348	3.7	0.3	0.5	0.2	0.3	0.4
Total private capital investment (goods, services, and construction).....	FD	49215	14.898	3.7	0.2	-0.1	0.1	0.2	-0.1
Finished goods plus finished distributive services ^{3, 6}	FD	49216	39.328	2.0	-0.5	0.1	-0.1	-1.0	0.3
Total exports.....	FD	49301	13.577	0.3	-0.6	0.4	0.1	-0.2	0.1
Goods for export.....	FD	49302	7.632	-2.1	-1.1	0.3	-0.1	-0.2	0.1
Services for export.....	FD	49303	5.945	3.7	0.0	0.6	0.4	-0.2	0.1
Total government purchases.....	FD	49401	7.884	0.5	-1.7	1.2	-0.4	-0.6	-0.4
Government purchased goods.....	FD	49402	3.313	-3.3	-3.6	2.3	-1.1	-1.4	-1.3
Government purchased services.....	FD	49403	3.756	2.7	0.2	0.3	0.1	-0.2	0.4
Total government purchased capital investment (goods, services, construction).....	FD	49404	2.066	4.7	0.3	0.4	0.2	0.1	-0.2
Government purchases, defense.....	FD	49405	2.342	-2.1	-2.0	1.3	-0.5	-0.5	-1.2
Government purchases, non-defense.....	FD	49406	5.542	1.6	-1.6	1.2	-0.4	-0.7	0.0
Personal consumption.....	FD	49501	63.639	2.7	-0.2	0.4	0.0	-0.5	0.4
Personal consumption goods (finished consumer goods).....	FD	49502	14.728	1.5	-1.6	1.7	-0.6	-1.9	0.6
Personal consumption goods less energy.....	FD	49503	10.270	4.7	-0.3	-0.2	-0.9	0.4	-0.2
Personal consumption goods less foods.....	FD	49504	10.207	0.6	-2.0	3.0	0.2	-2.9	1.1
Personal consumption nondurable goods less foods.....	FD	49508	7.912	0.0	-2.5	3.7	0.3	-3.8	1.4
Personal consumption services.....	FD	49505	48.911	3.2	0.3	0.1	0.2	-0.1	0.4
Personal consumption less trade services.....	FD	49506	49.784	2.6	-0.4	0.8	0.0	-0.4	0.4
Personal consumption less distributive services ⁶	FD	49507	47.722	2.9	-0.4	0.9	0.0	-0.4	0.5
Personal consumption less foods and energy.....	FD	49510	54.660	3.4	0.3	0.1	0.3	-0.1	0.3
Personal consumption less foods, energy, and trade services ⁴	FD	49511	40.805	3.5	0.2	0.5	0.2	0.2	0.3
Personal consumption less foods, energy, and distributive services ⁶	FD	49512	38.743	4.0	0.3	0.6	0.3	0.3	0.4
Personal consumption goods plus personal consumption distributive services ⁶	FD	49509	30.645	1.7	-0.7	0.3	-0.2	-1.3	0.4
Intermediate Demand by Commodity Type									
Processed goods									
Processed goods for intermediate demand.....	ID6	1	100.000	-3.2	-2.5	1.1	-0.5	-0.9	-0.4
Materials and components for manufacturing.....	ID6	11	42.988	-3.6	-0.7	-0.1	-0.2	-0.1	0.3
Materials for manufacturing.....	ID6	111	27.087	-7.5	-1.1	-0.4	-0.4	-0.3	0.4
Materials for food manufacturing.....	ID6	1111	4.441	-3.0	-0.6	0.2	-2.3	0.0	-1.1
Materials for nondurable manufacturing.....	ID6	1112	12.298	-6.8	-1.0	-0.3	-1.1	-0.7	0.0
Materials for durable manufacturing.....	ID6	1113	10.348	-9.7	-1.4	-0.9	1.2	-0.1	1.4
Components for manufacturing.....	ID6	112	15.901	4.0	0.1	0.6	0.2	0.2	0.2

See footnotes at end of table.

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

Grouping	Commodity code		Relative Importance Dec. 2022 ¹	Unadjusted 12-month percent change ² Apr. 2022 to Apr. 2023 ^P	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			Nov. to Dec.	Dec. to Jan. ^P	Jan. to Feb. ^P	Feb. to Mar. ^P	Mar. to Apr. ^P
Components for nondurable manufacturing.....	ID6	1121	0.796	2.6	-0.2	-0.3	0.0	-0.3	0.3
Components for durable manufacturing.....	ID6	1122	15.105	4.1	0.1	0.6	0.2	0.2	0.2
Materials and components for construction.....	ID6	12	10.365	0.8	-0.3	0.0	0.0	0.5	0.0
Materials for construction.....	ID6	121	4.589	-2.6	-0.7	-0.6	0.2	0.1	0.1
Components for construction.....	ID6	122	5.776	3.5	0.0	0.5	-0.1	0.7	0.0
Processed fuels and lubricants for intermediate demand.....	ID6	13	19.623	-10.8	-9.8	5.3	-1.7	-4.1	-2.3
Processed fuels and lubricants to manufacturing industries.....	ID6	131	4.883	-7.0	-5.6	2.8	-3.8	-0.8	-3.5
Processed fuels and lubricants to nonmanufacturing industries.....	ID6	132	14.740	-12.1	-11.2	6.1	-1.0	-5.0	-1.9
Containers for intermediate demand.....	ID6	14	3.112	3.5	0.0	-0.2	-0.2	-0.5	-0.2
Supplies for intermediate demand.....	ID6	15	23.911	2.2	-0.1	0.3	-0.2	0.0	-0.2
Supplies to manufacturing industries.....	ID6	151	3.184	1.3	0.0	-0.2	-0.1	0.0	0.0
Supplies to nonmanufacturing industries.....	ID6	152	20.727	2.3	-0.2	0.4	-0.2	0.0	-0.2
Supplies to nonmanufacturing industries, feeds.....	ID6	1521	2.361	-1.8	-0.5	-0.5	-2.2	-1.6	-1.5
Supplies to nonmanufacturing industries, other than feeds.....	ID6	1522	18.366	2.8	-0.1	0.5	0.0	0.2	-0.1
Unprocessed goods									
Unprocessed goods for intermediate demand.....	ID6	2	100.000	-19.2	1.5	-4.6	-4.8	-4.1	1.7
Unprocessed foodstuffs and feedstuffs.....	ID6	21	35.620	-10.3	-0.2	-5.8	-1.0	-0.6	-1.4
Unprocessed nonfood materials.....	ID6	22	64.381	-23.7	2.5	-4.0	-6.8	-6.1	3.6
Unprocessed nonfood materials except fuel.....	ID6	221	45.037	-16.7	-7.2	0.6	1.9	-4.0	7.4
Unprocessed nonfood materials except fuel to manufacturing industries.....	ID6	2211	43.152	-17.8	-7.6	0.5	1.9	-4.2	7.7
Unprocessed nonfood materials except fuel to nonmanufacturing industries.....	ID6	2212	1.885	12.7	0.6	3.4	0.5	0.0	1.5
Unprocessed fuel.....	ID6	222	19.344	-53.9	22.8	-14.8	-30.8	-14.6	-14.0
Unprocessed fuel to manufacturing industries.....	ID6	2221	1.007	-16.0	0.3	-3.8	-9.3	-3.7	-2.1
Unprocessed fuel to nonmanufacturing industries.....	ID6	2222	18.337	-56.1	24.5	-15.4	-32.1	-15.5	-15.1
Services									
Services for intermediate demand.....	ID6	3	100.000	4.5	0.0	1.0	0.3	-0.2	0.7
Trade services for intermediate demand ⁴	ID6	33	18.467	1.8	-1.3	0.7	-0.3	1.0	1.5
Trade services for manufacturing industries.....	ID6	331	9.100	4.5	-1.4	2.0	-0.5	2.0	1.5
Trade services for nonmanufacturing industries.....	ID6	332	9.367	-0.9	-1.2	-0.5	-0.2	-0.1	1.4
Transportation and warehousing services for intermediate demand.....	ID6	32	14.424	-1.0	0.0	0.3	-0.1	-0.6	-0.8
Transportation of passengers for intermediate demand.....	ID6	321	1.070	6.2	3.2	2.3	-1.0	0.8	-2.9
Transportation of passengers for manufacturing industries.....	ID6	3211	0.127	6.3	3.2	2.3	-1.0	0.8	-2.9
Transportation of passengers for nonmanufacturing industries.....	ID6	3212	0.943	6.2	3.2	2.3	-1.0	0.8	-2.9
Transportation and warehousing of goods for intermediate demand.....	ID6	322	13.354	-1.6	-0.3	0.2	0.0	-0.8	-0.7
Transportation and warehousing of goods for manufacturing industries.....	ID6	3221	2.932	-1.8	-0.9	-0.9	-0.4	-0.8	-1.0
Transportation and warehousing of goods for nonmanufacturing industries.....	ID6	3222	10.422	-1.5	-0.2	0.5	0.1	-0.8	-0.6
Services less trade, transportation, and warehousing for intermediate demand.....	ID6	31	67.109	6.8	0.4	1.1	0.6	-0.4	0.8
Services less trade, transportation, and warehousing for manufacturing industries.....	ID6	311	2.057	4.6	0.2	1.2	0.3	0.2	0.5
Services less trade, transportation, and warehousing for nonmanufacturing industries.....	ID6	312	65.052	6.9	0.4	1.1	0.6	-0.4	0.8
Construction									
Construction for intermediate demand.....	ID6	4	100.000	4.7	0.1	0.8	0.2	0.4	0.8
Special Groupings of Intermediate Demand by Commodity Type									
Processed materials less foods and feeds.....	ID6	9111	90.955	-3.3	-2.7	1.2	-0.3	-0.9	-0.3
Processed foods and feeds.....	ID6	9112	9.045	-1.8	-0.6	0.2	-2.0	-0.3	-1.2
Processed energy goods.....	ID6	9113	19.623	-10.8	-9.8	5.3	-1.7	-4.1	-2.3
Processed materials less energy.....	ID6	9118	80.377	-1.2	-0.4	0.1	-0.2	0.0	0.1
Processed materials less foods and energy.....	ID6	9115	71.332	-1.1	-0.4	0.0	0.1	0.0	0.3
Intermediate distributive services ⁷	ID6	9116	31.821	0.3	-1.0	0.5	-0.2	0.2	0.6
Processed goods plus intermediate distributive services.....	ID6	9117	-	-2.2	-2.1	0.9	-0.4	-0.5	-0.1
Unprocessed materials less agricultural products.....	ID6	9211	58.886	-24.5	3.5	-4.6	-7.8	-6.3	4.0
Unprocessed energy materials ⁸	ID6	9212	44.011	-29.1	5.2	-7.4	-11.1	-9.9	5.2
Unprocessed materials less energy.....	ID6	9213	55.989	-11.9	-0.8	-2.9	-0.5	-0.6	-0.2
Unprocessed nonfood materials less energy ⁹	ID6	9216	20.369	-14.0	-1.7	2.2	0.4	-0.6	1.8
Intermediate Demand by Production Flow									
Stage 4 Intermediate Demand									
Stage 4 intermediate demand.....	ID5	4	100.000	2.9	-0.4	1.0	0.0	-0.2	0.4
Inputs to stage 4 goods producers.....	ID5	41	30.323	1.8	-0.5	0.4	-0.1	0.3	0.3
Goods.....	ID5	411	22.393	0.6	-0.3	0.0	0.1	-0.3	0.0

See footnotes at end of table.

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

Grouping	Commodity code		Relative Importance Dec. 2022 ¹	Unadjusted 12-month percent change ² Apr. 2022 to Apr. 2023 ^P	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			Nov. to Dec.	Dec. to Jan. ^P	Jan. to Feb. ^P	Feb. to Mar. ^P	Mar. to Apr. ^P
Foods.....	ID5	4111	3.288	-3.7	-1.7	0.0	-1.1	-2.1	-0.3
Energy.....	ID5	4112	0.202	-6.1	-0.3	-3.7	-0.6	4.0	-10.6
Goods excluding foods and energy.....	ID5	4113	18.903	1.5	-0.1	0.1	0.3	0.0	0.2
Services.....	ID5	412	7.930	5.0	-1.0	1.5	-0.5	2.1	1.1
Trade services.....	ID5	4123	5.937	5.7	-1.3	1.8	-0.7	2.8	1.4
Transportation and warehousing services.....	ID5	4122	0.515	-0.6	-0.1	0.1	-0.8	-0.5	-0.9
Transportation of passengers.....	ID5	41221	0.078	6.3	3.2	2.3	-1.0	0.8	-2.9
Transportation and warehousing of goods.....	ID5	41222	0.437	-1.8	-0.6	-0.3	-0.7	-0.7	-0.6
Services less trade, transportation, and warehousing.....	ID5	4121	1.478	4.4	0.2	1.0	0.3	0.1	0.5
Inputs to stage 4 services producers.....	ID5	42	54.857	4.7	0.0	1.4	0.1	-0.5	0.5
Goods.....	ID5	421	13.958	1.8	-0.8	1.8	-0.5	-0.7	-0.6
Foods.....	ID5	4211	2.359	-4.1	-1.2	0.1	-1.6	0.2	-1.5
Energy.....	ID5	4212	4.105	2.0	-2.1	4.4	-0.9	-2.7	-0.8
Goods excluding foods and energy.....	ID5	4213	7.494	3.6	0.0	0.7	0.0	0.1	-0.1
Services.....	ID5	422	40.847	5.7	0.3	1.2	0.3	-0.4	0.8
Trade services.....	ID5	4223	4.133	5.5	-0.9	0.6	-0.5	0.6	1.5
Transportation and warehousing services.....	ID5	4222	3.688	3.3	0.5	1.6	0.4	-0.4	-0.6
Transportation of passengers.....	ID5	42221	0.491	6.3	3.2	2.3	-1.0	0.8	-2.9
Transportation and warehousing of goods.....	ID5	42222	3.197	2.8	0.1	1.5	0.6	-0.5	-0.3
Services less trade, transportation, and warehousing.....	ID5	4221	33.026	6.1	0.5	1.3	0.4	-0.6	0.9
Construction.....	ID5	423	0.052	4.7	0.1	0.8	0.2	0.4	0.8
Inputs to stage 4 construction producers.....	ID5	43	14.819	-0.8	-1.5	0.7	0.1	-0.1	0.4
Goods.....	ID5	431	10.791	-0.3	-1.6	0.8	0.1	-0.3	0.4
Energy.....	ID5	4312	0.840	-14.6	-13.8	6.6	0.5	-8.1	3.9
Goods excluding foods and energy.....	ID5	4313	9.951	1.3	-0.3	0.3	0.1	0.4	0.1
Services.....	ID5	432	4.028	-2.0	-1.1	0.3	-0.2	0.4	0.5
Trade services.....	ID5	4323	1.737	-4.4	-2.1	1.2	-0.3	1.4	1.0
Transportation and warehousing services.....	ID5	4322	0.722	-6.1	-1.1	-1.5	-0.9	-1.1	-1.4
Transportation of passengers.....	ID5	43221	0.015	6.3	3.2	2.3	-1.0	0.8	-2.9
Transportation and warehousing of goods.....	ID5	43222	0.707	-6.4	-1.2	-1.6	-0.9	-1.2	-1.4
Services less trade, transportation, and warehousing.....	ID5	4321	1.569	4.4	0.2	0.3	0.3	0.1	0.7
Stage 3 Intermediate Demand									
Stage 3 intermediate demand.....	ID5	3	100.000	-3.6	-2.0	0.2	-0.3	-0.5	-0.1
Inputs to stage 3 goods producers.....	ID5	31	45.396	-6.7	-1.3	-1.3	-0.3	0.1	-0.2
Goods.....	ID5	311	35.711	-8.5	-1.4	-2.0	-0.4	-0.1	-0.4
Foods.....	ID5	3111	11.819	-12.6	-0.5	-5.4	-1.7	-0.1	-2.0
Energy.....	ID5	3112	1.238	-17.5	-16.6	1.2	-2.4	1.2	-4.1
Goods excluding foods and energy.....	ID5	3113	22.654	-5.7	-0.7	-0.4	0.4	-0.1	0.6
Services.....	ID5	312	9.685	0.8	-1.0	1.4	-0.3	0.8	0.6
Trade services.....	ID5	3123	5.316	2.2	-1.4	2.9	-0.2	1.9	1.6
Transportation and warehousing services.....	ID5	3122	3.003	-3.2	-0.7	-1.2	-0.7	-0.9	-1.2
Transportation of passengers.....	ID5	31221	0.144	6.3	3.2	2.3	-1.0	0.8	-2.9
Transportation and warehousing of goods.....	ID5	31222	2.859	-3.7	-0.9	-1.4	-0.7	-1.0	-1.1
Services less trade, transportation, and warehousing.....	ID5	3121	1.366	5.2	0.0	1.1	0.4	0.2	0.7
Inputs to stage 3 services producers.....	ID5	32	53.446	-0.3	-2.6	1.6	-0.2	-1.1	0.0
Goods.....	ID5	321	10.524	-13.6	-11.4	5.2	-2.2	-3.5	-3.1
Foods.....	ID5	3211	0.090	1.9	-0.4	2.3	-1.7	-1.0	-2.6
Energy.....	ID5	3212	6.519	-21.6	-17.0	8.1	-3.5	-5.5	-4.8
Goods excluding foods and energy.....	ID5	3213	3.915	2.4	0.0	0.3	0.1	0.0	-0.2
Services.....	ID5	322	42.349	4.0	0.4	0.7	0.3	-0.5	0.7
Trade services.....	ID5	3223	2.635	5.0	-0.5	-1.2	1.2	-1.3	1.7
Transportation and warehousing services.....	ID5	3222	10.001	-2.0	0.1	0.9	0.2	-0.7	-0.5
Transportation of passengers.....	ID5	32221	0.021	1.6	0.2	0.0	0.0	0.1	-0.3
Transportation and warehousing of goods.....	ID5	32222	9.980	-2.0	0.1	0.9	0.2	-0.7	-0.5
Services less trade, transportation, and warehousing.....	ID5	3221	29.713	5.9	0.6	0.8	0.2	-0.4	1.0
Construction.....	ID5	323	0.573	4.7	0.1	0.8	0.2	0.4	0.8
Inputs to stage 3 construction producers.....	ID5	33	1.157	-10.3	-2.5	-0.4	-1.1	-0.1	0.1
Goods.....	ID5	331	0.569	-4.9	-0.7	-0.5	-0.1	-0.3	-0.2
Goods excluding foods and energy.....	ID5	3313	0.569	-4.9	-0.7	-0.5	-0.1	-0.3	-0.2
Services.....	ID5	332	0.588	-13.5	-3.8	-0.2	-1.9	0.1	0.3
Trade services.....	ID5	3323	0.543	-14.4	-4.0	-0.3	-2.1	0.1	0.3
Transportation and warehousing services.....	ID5	3322	0.016	5.2	-0.2	0.4	-0.3	-0.3	0.0
Transportation and warehousing of goods.....	ID5	33222	0.016	5.2	-0.2	0.4	-0.3	-0.3	0.0
Services less trade, transportation, and warehousing.....	ID5	3321	0.029	6.7	0.0	2.0	0.0	0.0	0.7
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
 [April 2023]

Grouping	Commodity code		Relative Importance Dec. 2022 ¹	Unadjusted 12-month percent change ² Apr. 2022 to Apr. 2023 ^P	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			Nov. to Dec.	Dec. to Jan. ^P	Jan. to Feb. ^P	Feb. to Mar. ^P	Mar. to Apr. ^P
Stage 2 intermediate demand.....	ID5	2	100.000	-5.1	1.0	-1.0	-1.4	-2.2	1.2
Inputs to stage 2 goods producers.....	ID5	21	54.614	-13.7	1.4	-2.6	-3.8	-3.6	1.8
Goods.....	ID5	211	41.174	-19.0	1.9	-3.7	-5.2	-4.9	2.1
Foods.....	ID5	2111	4.315	-6.0	-0.6	-2.4	-0.8	-2.9	-0.5
Energy.....	ID5	2112	21.420	-30.0	4.4	-6.9	-10.4	-9.9	4.4
Goods excluding foods and energy.....	ID5	2113	15.439	-6.6	-0.6	0.3	0.1	0.3	0.5
Services.....	ID5	212	13.177	6.7	-0.3	0.7	0.6	0.0	1.0
Trade services.....	ID5	2123	5.199	5.1	-0.9	0.2	-0.4	0.6	2.6
Transportation and warehousing services.....	ID5	2122	4.453	4.4	-0.4	0.4	0.5	-0.2	-0.6
Transportation of passengers.....	ID5	21221	0.167	6.0	3.1	2.2	-1.0	0.7	-2.8
Transportation and warehousing of goods.....	ID5	21222	4.286	4.3	-0.6	0.3	0.6	-0.2	-0.6
Services less trade, transportation, and warehousing.....	ID5	2121	3.525	13.0	1.0	1.8	2.0	-0.6	0.8
Construction.....	ID5	213	0.263	4.7	0.1	0.8	0.2	0.4	0.8
Inputs to stage 2 services producers.....	ID5	22	45.386	6.6	0.5	0.9	1.3	-0.7	0.5
Goods.....	ID5	221	5.020	0.6	-0.9	0.7	-0.3	-0.5	-0.2
Foods.....	ID5	2211	0.055	-10.2	-1.2	-1.4	-2.3	-3.0	-1.0
Energy.....	ID5	2212	0.350	-11.9	-10.7	7.9	-1.6	-7.0	-2.4
Goods excluding foods and energy.....	ID5	2213	4.615	1.7	-0.1	0.2	-0.2	0.0	-0.1
Services.....	ID5	222	39.489	7.6	0.8	1.0	1.5	-0.8	0.6
Trade services.....	ID5	2223	2.263	-3.0	4.2	-4.2	0.0	-3.7	0.7
Transportation and warehousing services.....	ID5	2222	2.842	-14.4	1.0	-1.6	-1.0	-1.6	-1.5
Transportation of passengers.....	ID5	22221	0.388	6.3	3.2	2.3	-1.0	0.8	-2.9
Transportation and warehousing of goods.....	ID5	22222	2.454	-17.2	0.7	-2.2	-1.0	-1.9	-1.2
Services less trade, transportation, and warehousing.....	ID5	2221	34.384	10.5	0.5	1.5	1.8	-0.6	0.7
Construction.....	ID5	223	0.877	4.7	0.1	0.8	0.2	0.4	0.8
Stage 1 Intermediate Demand									
Stage 1 intermediate demand.....	ID5	1	100.000	-0.8	-1.8	0.8	-0.4	-0.4	0.0
Inputs to stage 1 goods producers.....	ID5	11	33.622	-4.8	-1.5	0.6	-0.3	-0.5	-0.1
Goods.....	ID5	111	24.730	-7.3	-1.8	0.0	-0.4	-1.0	-0.5
Foods.....	ID5	1111	3.334	-10.4	-2.2	-0.4	-0.8	-4.4	-0.8
Energy.....	ID5	1112	3.858	-6.3	-4.4	2.4	-1.6	-1.7	-5.5
Goods excluding foods and energy.....	ID5	1113	17.538	-7.0	-1.1	-0.4	0.0	-0.2	0.7
Services.....	ID5	112	8.891	2.2	-1.0	2.0	-0.3	0.8	0.9
Trade services.....	ID5	1123	5.434	1.5	-1.5	3.1	-0.7	1.6	1.2
Transportation and warehousing services.....	ID5	1122	0.606	7.7	-0.2	-0.1	0.6	-0.2	-0.9
Transportation of passengers.....	ID5	11221	0.103	6.3	3.2	2.3	-1.0	0.8	-2.9
Transportation and warehousing of goods.....	ID5	11222	0.503	7.9	-0.7	-0.6	0.9	-0.4	-0.4
Services less trade, transportation, and warehousing.....	ID5	1121	2.851	3.0	0.0	0.5	0.4	-0.4	0.7
Construction.....	ID5	113	0.001	4.7	0.1	0.8	0.2	0.4	0.8
Inputs to stage 1 services producers.....	ID5	12	53.476	2.8	-1.6	1.0	-0.3	-0.4	0.2
Goods.....	ID5	121	16.341	-1.2	-4.7	2.1	-0.8	-1.2	-0.5
Foods.....	ID5	1211	0.115	0.3	8.3	-2.3	-16.3	6.2	3.0
Energy.....	ID5	1212	5.454	-12.5	-12.9	5.0	-2.2	-3.7	-2.0
Goods excluding foods and energy.....	ID5	1213	10.772	5.6	0.4	0.7	0.1	0.1	0.3
Services.....	ID5	122	37.132	4.9	0.2	0.6	-0.1	0.0	0.5
Trade services.....	ID5	1223	3.680	4.4	-0.9	-0.4	0.8	0.0	1.1
Transportation and warehousing services.....	ID5	1222	4.369	3.2	0.7	1.4	-0.4	-0.2	-1.3
Transportation of passengers.....	ID5	12221	1.346	6.3	3.2	2.3	-1.0	0.8	-2.9
Transportation and warehousing of goods.....	ID5	12222	3.023	1.8	-0.5	1.0	-0.1	-0.6	-0.5
Services less trade, transportation, and warehousing.....	ID5	1221	29.083	5.3	0.2	0.6	-0.1	0.0	0.7
Construction.....	ID5	123	0.003	4.7	0.1	0.8	0.2	0.4	0.8
Inputs to stage 1 construction producers.....	ID5	13	12.902	-4.4	-3.1	0.3	-0.7	0.0	-0.2
Goods.....	ID5	131	9.191	-0.2	-3.0	0.8	-0.4	-0.1	-0.4
Energy.....	ID5	1312	0.911	-23.3	-22.1	6.2	-3.9	-4.3	-4.8
Goods excluding foods and energy.....	ID5	1313	8.280	3.1	0.0	0.2	0.0	0.4	0.1
Services.....	ID5	132	3.711	-11.7	-3.3	-0.7	-1.3	0.3	0.1
Trade services.....	ID5	1323	2.767	-11.7	-3.6	-0.1	-1.5	0.7	0.6
Transportation and warehousing services.....	ID5	1322	0.852	-7.7	-1.4	-2.1	-0.9	-1.3	-1.7
Transportation and warehousing of goods.....	ID5	13222	0.852	-7.7	-1.4	-2.1	-0.9	-1.3	-1.7
Services less trade, transportation, and warehousing.....	ID5	1321	0.092	8.9	1.0	0.6	-0.2	0.5	0.5
Special Groupings of Intermediate Demand by Production Flow									
Total goods inputs to stage 4 intermediate demand.....	ID5	9411	47.142	0.8	-0.7	0.8	-0.1	-0.4	-0.1
Total services inputs to stage 4 intermediate demand.....	ID5	9412	52.805	4.9	0.0	1.2	0.2	0.0	0.9
Total construction inputs to stage 4 intermediate demand.....	ID5	9413	0.052	4.7	0.1	0.8	0.2	0.4	0.8
Total foods inputs to stage 4 intermediate demand.....	ID5	9414	5.647	-3.9	-1.5	0.0	-1.3	-1.2	-0.8

See footnotes at end of table.

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

Grouping	Commodity code		Relative Importance Dec. 2022 ¹	Unadjusted 12-month percent change ² Apr. 2022 to Apr. 2023 ^p	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			Nov. to Dec.	Dec. to Jan. ^p	Jan. to Feb. ^p	Feb. to Mar. ^p	Mar. to Apr. ^p
Total energy goods inputs to stage 4 intermediate demand.....	ID5	9415	5.147	-1.8	-4.3	4.5	-0.6	-3.4	-0.4
Total goods less foods and energy inputs to stage 4 intermediate demand.	ID5	9416	36.348	1.9	-0.1	0.3	0.2	0.1	0.1
Total goods inputs to stage 3 intermediate demand.....	ID5	9311	46.804	-9.6	-3.8	-0.4	-0.8	-0.9	-1.0
Total services inputs to stage 3 intermediate demand.....	ID5	9312	52.622	2.9	0.0	0.8	0.1	-0.3	0.7
Total construction inputs to stage 3 intermediate demand.....	ID5	9313	0.573	4.7	0.1	0.8	0.2	0.4	0.8
Total foods inputs to stage 3 intermediate demand.....	ID5	9314	11.909	-12.5	-0.5	-5.3	-1.7	-0.1	-2.0
Total energy goods inputs to stage 3 intermediate demand.....	ID5	9315	7.757	-20.9	-16.9	6.9	-3.3	-4.4	-4.7
Total goods less foods and energy inputs to stage 3 intermediate demand.	ID5	9316	27.138	-4.6	-0.6	-0.3	0.4	-0.1	0.5
Total goods inputs to stage 2 intermediate demand.....	ID5	9211	46.194	-17.0	1.5	-3.2	-4.7	-4.4	1.8
Total services inputs to stage 2 intermediate demand.....	ID5	9212	52.666	7.4	0.6	0.9	1.3	-0.6	0.7
Total construction inputs to stage 2 intermediate demand.....	ID5	9213	1.140	4.7	0.1	0.8	0.2	0.4	0.8
Total foods inputs to stage 2 intermediate demand.....	ID5	9214	4.370	-6.0	-0.6	-2.4	-0.9	-2.9	-0.5
Total energy goods inputs to stage 2 intermediate demand.....	ID5	9215	21.770	-29.7	4.1	-6.7	-10.2	-9.8	4.3
Total goods less foods and energy inputs to stage 2 intermediate demand.	ID5	9216	20.054	-4.9	-0.5	0.3	0.1	0.2	0.3
Total goods inputs to stage 1 intermediate demand.....	ID5	9111	50.262	-4.1	-3.0	0.8	-0.5	-0.9	-0.5
Total services inputs to stage 1 intermediate demand.....	ID5	9112	49.734	2.6	-0.4	0.8	-0.2	0.1	0.5
Total construction inputs to stage 1 intermediate demand.....	ID5	9117	0.004	4.7	0.1	0.8	0.2	0.4	0.8
Total foods inputs to stage 1 intermediate demand.....	ID5	9114	3.449	-10.1	-1.9	-0.4	-1.3	-4.1	-0.7
Total energy goods inputs to stage 1 intermediate demand.....	ID5	9115	10.223	-11.7	-11.1	4.1	-2.2	-3.0	-3.6
Total goods less foods and energy inputs to stage 1 intermediate demand.	ID5	9116	36.590	-1.1	-0.4	0.0	0.0	0.0	0.4

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
[April 2023]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Apr. 2022 to Apr. 2023 ^P	Nov. to Dec.	Dec. to Jan. ^P	Jan. to Feb. ^P	Feb. to Mar. ^P
Final Demand								
Final demand.....	FD	4	2.3	-0.3	0.4	0.0	-0.4	0.2
Final demand goods.....	FD	41	0.8	-1.4	1.2	-0.4	-1.0	0.2
Final demand foods.....	FD	411	2.5	-0.9	-1.3	-2.3	0.3	-0.5
Fresh fruits and melons ²	01	11	3.2	-7.8	6.5	-6.4	-3.2	2.4
Fresh and dry vegetables ²	01	13	50.9	-9.4	-33.5	-13.6	-7.5	35.1
Grains.....	01	2	-15.1	-4.0	-1.6	0.8	-7.4	2.5
Eggs for fresh use ²	01	7107	-24.2	24.5	-12.7	-41.3	33.2	-35.8
Oilseeds.....	01	8301	-10.8	0.0	-4.9	0.6	-4.2	0.5
Bakery products ²	02	11	9.1	0.1	0.4	0.5	0.5	0.1
Milled rice ²	02	13	20.7	2.0	3.3	0.7	0.4	0.1
Pasta products ²	02	1402	12.7	0.0	8.9	1.3	0.0	-8.4
Beef and veal.....	02	2101	4.3	4.4	7.5	-1.3	1.4	-3.1
Pork.....	02	2104	-11.9	-1.9	-2.1	-2.3	3.3	-6.7
Processed young chickens.....	02	2203	-15.8	-4.3	-3.7	-2.2	2.7	-1.6
Processed turkeys ²	02	2206	-10.5	-0.3	0.0	-2.2	-11.6	-8.3
Finfish and shellfish.....	02	23	-6.7	-1.9	0.1	-0.6	0.9	-2.0
Dairy products.....	02	3	-6.8	-0.3	-1.6	-2.0	-1.9	-0.4
Processed fruits and vegetables ²	02	4	16.8	0.1	1.4	0.9	0.8	0.3
Confectionery end products ²	02	55	5.5	-0.3	-0.6	1.6	0.3	0.3
Soft drinks ²	02	62	11.8	-1.2	6.4	-0.8	0.0	-1.0
Roasted coffee ²	02	6301	9.9	0.5	-0.3	1.6	-0.6	0.3
Shortening and cooking oils ²	02	78	-13.4	-4.1	-2.1	-2.4	-2.3	-0.8
Frozen specialty food ²	02	85	9.4	0.5	0.7	0.0	1.2	0.3
Final demand energy.....	FD	412	-8.1	-6.3	5.4	-0.8	-6.0	0.8
Liquefied petroleum gas ²	05	32	-50.4	-14.5	0.6	1.3	-9.3	-5.9
Residential electric power.....	05	41	8.4	1.0	1.5	0.7	-1.0	-0.1
Residential natural gas.....	05	51	-0.3	2.1	11.2	-8.6	-7.2	-5.1
Gasoline.....	05	71	-12.2	-8.6	7.5	2.8	-11.6	8.4
Home heating oil and distillates.....	05	7302	-31.9	-5.3	1.3	-17.7	-4.1	-5.6
No. 2 diesel fuel.....	05	7303	-27.1	-27.5	11.0	-4.6	-6.3	-4.1
Final demand goods less foods and energy.....	FD	413	3.3	0.1	0.6	0.3	0.2	0.2
Alcoholic beverages.....	02	61	3.8	0.4	0.1	0.1	-0.1	0.1
Pet food ²	02	9402	14.2	0.1	0.2	0.1	2.4	0.0
Women's, girls', and infants' apparel ²	03	8106	-1.2	0.0	0.0	-1.6	0.0	0.0
Men's and boys' apparel ²	03	8107	3.7	0.0	0.1	0.2	0.2	0.0
Textile housefurnishings ²	03	82	2.7	0.0	0.1	0.0	0.2	-0.1
Footwear.....	04	3	9.9	0.2	0.3	0.8	-0.6	0.5
Industrial chemicals.....	06	1	-8.6	-0.9	0.2	-1.5	-0.6	-0.3
Pharmaceutical preparations.....	06	38	2.7	-0.3	0.7	0.5	0.0	0.2
Soaps and detergents ²	06	71	15.6	3.2	1.2	0.2	0.1	0.0
Cleaning and polishing products ²	06	72	5.6	0.0	0.2	1.5	0.2	0.4
Cosmetics and other toiletries ²	06	75	6.7	0.0	1.1	1.8	0.6	0.2
Tires ²	07	1201	10.1	0.6	3.0	0.0	0.0	0.3
Consumer, institutional, and commercial products, n.e.c. ²	07	2B	5.7	-0.1	0.4	0.2	-0.3	0.2
Sanitary paper products ²	09	1501	12.3	-0.4	0.9	0.4	0.0	0.0
Iron and steel scrap.....	10	12	-24.2	-6.8	1.3	11.2	5.0	3.9
Agricultural machinery and equipment.....	11	1	6.3	0.1	0.3	-0.3	0.3	0.2
Construction machinery and equipment ²	11	2	9.3	0.0	3.4	0.3	0.3	0.3
Metal cutting machine tools ²	11	37	4.1	0.0	0.3	1.1	0.2	0.0
Metal forming machine tools.....	11	38	6.2	0.1	-0.2	-0.1	0.1	0.1
Tools, dies, jigs, fixtures, and industrial molds ²	11	39	4.5	0.2	0.8	0.1	0.2	0.3
Pumps, compressors, and equipment.....	11	41	10.7	0.6	1.4	-0.1	0.5	0.0
Industrial material handling equipment ²	11	44	7.1	0.1	1.6	0.6	-0.1	0.0
Electronic computers and computer equipment ²	11	5	2.2	1.2	1.4	0.2	-0.1	-0.4
Textile machinery and equipment ²	11	62	0.2	0.0	0.0	0.0	0.0	0.0
Paper industries machinery ²	11	64	9.0	0.1	0.8	0.0	0.3	0.2
Printing trades machinery and equipment ²	11	65	3.4	0.0	0.5	-0.1	0.2	1.3
Transformers and power regulators ²	11	74	7.9	0.4	0.0	0.2	0.6	1.6
Communication and related equipment.....	11	76	3.0	0.5	0.0	-0.1	0.3	0.0
Electronic components and accessories.....	11	78	1.7	0.2	-0.6	0.1	0.0	-0.5
X-ray and electromedical equipment ²	11	7905	4.0	0.1	1.2	0.0	0.0	0.0
Oil field and gas field machinery ²	11	91	8.2	0.0	0.8	0.0	0.3	0.0
Mining machinery and equipment ²	11	92	6.8	0.4	0.4	0.0	0.0	0.5
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
 [April 2023]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Apr. 2022 to Apr. 2023 ^P	Nov. to Dec.	Dec. to Jan. ^P	Jan. to Feb. ^P	Feb. to Mar. ^P
Household furniture ²	12	1	5.3	0.3	0.6	0.5	0.2	-0.5
Commercial furniture ²	12	2	7.4	0.9	-0.7	0.5	0.5	0.0
Floor coverings ²	12	3	2.6	-1.6	0.7	0.1	-0.3	0.0
Household appliances ²	12	4	2.0	0.9	0.0	0.2	-0.5	0.2
Home electronic equipment ²	12	5	4.4	0.0	0.4	0.8	0.0	0.0
Lawn and garden equipment excl. garden tractors ²	12	66	7.2	1.4	0.3	0.1	0.0	0.3
Passenger cars.....	14	1101	0.3	0.0	0.7	0.2	-0.4	-0.8
Light motor trucks.....	14	1105	4.7	0.5	0.6	-0.1	0.5	-0.2
Heavy motor trucks ²	14	1106	3.2	0.2	0.1	0.6	0.0	0.2
Motor vehicles parts ²	14	12	2.4	0.1	0.4	-0.1	0.2	0.2
Truck trailers ²	14	14	0.3	0.1	-1.3	-0.6	0.0	0.0
Travel trailers and campers ²	14	16	3.4	0.0	0.0	0.0	0.1	0.0
Aircraft.....	14	21	4.3	0.4	0.3	0.4	0.6	0.5
Ships ²	14	31	1.1	0.3	0.3	-0.5	0.2	0.1
Railroad equipment ²	14	4	1.9	0.0	0.1	0.1	0.8	0.0
Toys, games, and children's vehicles ²	15	11	2.2	0.0	1.1	0.0	0.1	0.0
Sporting and athletic goods ²	15	12	13.7	1.9	0.7	1.3	-0.5	-0.3
Cigarettes ²	15	21	12.4	0.0	1.7	2.1	0.0	0.0
Mobile homes ²	15	5	-3.5	0.0	-1.3	-0.6	0.1	0.0
Medical, surgical & personal aid devices.....	15	6	2.8	0.4	0.8	0.0	0.4	-0.3
Jewelry, platinum and karat gold ²	15	9402	4.4	0.7	1.7	-2.0	0.9	1.4
Costume jewelry and novelties ²	15	9404	6.0	0.0	4.1	0.9	0.0	1.3
Final demand services.....	FD	42	3.0	0.2	0.0	0.2	-0.1	0.3
Final demand trade services ³	FD	423	2.6	0.3	-1.2	0.2	-0.4	0.5
Machinery and equipment parts and supplies wholesaling ²	57	1102	7.2	-1.3	1.8	-1.3	4.7	0.3
Machinery and vehicle wholesaling ²	57	1103	-0.7	1.5	-4.5	0.3	-2.1	0.6
Professional and commercial equipment wholesaling ²	57	1104	2.6	1.7	1.3	1.2	5.1	-4.7
Furnishings wholesaling ²	57	2	6.2	0.8	0.4	-0.5	1.1	0.0
Chemicals and allied products wholesaling ²	57	5	6.4	-1.1	4.0	-3.5	-1.9	0.6
Paper and plastics products wholesaling ²	57	6	7.4	1.6	-1.7	0.8	-1.1	2.5
Apparel wholesaling ²	57	7	8.7	-7.3	5.0	5.3	-5.1	4.4
Food and alcohol wholesaling ²	57	8	7.8	-1.7	-0.4	-0.3	1.2	4.0
Food and alcohol retailing.....	58	1	14.6	-0.3	-1.1	3.0	1.5	-2.0
Health, beauty, and optical goods retailing ²	58	2	7.4	3.3	3.9	0.5	-0.8	-0.3
Apparel, jewelry, footwear, and accessories retailing.....	58	3	1.3	3.1	2.1	-2.0	0.9	-1.8
Computer hardware, software, and supplies retailing ²	58	4	-21.0	0.6	-1.4	-14.5	2.2	0.2
TV, video, and photographic equipment and supplies retailing.....	58	5	-20.4	-8.8	-4.2	-1.3	1.5	-2.3
Automobiles retailing (partial).....	58	6101	-16.9	-4.9	-6.9	0.4	-0.8	0.7
Automotive parts, including tires, retailing ²	58	6102	10.2	0.2	1.4	-0.9	-2.4	-0.1
RVs, trailers, and campers retailing ²	58	8	-45.1	-9.2	16.0	-6.1	-2.3	-0.1
Sporting goods, including boats, retailing.....	58	9	0.8	-1.4	-2.8	-0.8	-0.2	2.5
Lawn, garden, and farm equipment and supplies retailing ²	58	A	28.1	-4.1	0.6	0.6	12.5	1.8
Furniture retailing ²	58	B	-5.2	1.1	1.7	3.5	-0.6	-0.3
Flooring and floor coverings retailing ²	58	C	-2.5	-5.6	4.3	0.5	0.1	3.2
Hardware, building materials, and supplies retailing.....	58	D	-25.8	-6.9	-0.4	-5.4	0.3	-1.1
Major household appliances retailing.....	58	E	1.0	0.6	0.9	12.2	-8.5	3.3
Fuels and lubricants retailing.....	58	F	-18.7	13.6	-11.4	-0.7	-12.6	-1.5
Cleaning supplies and paper products retailing ²	58	G	20.1	-2.0	2.3	7.9	-0.1	4.2
Book retailing ²	58	H	-1.1	-5.9	5.2	-4.3	-0.7	0.0
Final demand transportation and warehousing services.....	FD	422	-2.3	0.0	-0.5	-0.8	-0.6	-1.7
Rail transportation of freight and mail ²	30	11	3.9	-0.1	1.1	-0.9	-0.2	0.2
Truck transportation of freight ²	30	12	-8.6	-1.4	-2.2	-1.0	-1.4	-1.7
Air transportation of freight ²	30	14	-6.2	-1.7	1.1	0.2	-1.0	-0.1
Courier, messenger, and U.S. postal services.....	30	16	6.3	-0.4	2.2	0.1	-0.3	0.0
Rail transportation of passengers.....	30	21	1.4	0.0	-0.2	0.1	0.1	-0.1
Airline passenger services.....	30	22	6.3	3.2	2.3	-1.0	0.8	-2.9
Final demand services less trade, transportation, and warehousing.....	FD	421	3.8	0.2	0.6	0.3	0.2	0.4
Sales of books.....	33	11	7.3	0.5	1.5	0.2	0.2	0.7
Sales and subscriptions of periodicals and newspapers.....	33	12	2.1	0.4	-0.7	0.5	-0.5	0.0
Application software publishing ²	34	2	0.3	1.2	0.7	-0.7	0.6	-0.4
Advertising space sales in periodicals, newspapers, directories, and mailing lists ²	36	1	4.2	1.0	1.1	0.6	0.9	0.0
Residential wired telecommunication services ²	37	11	5.7	0.0	0.0	0.2	0.4	1.3
Wireless telecommunication services.....	37	2	1.7	0.1	0.0	0.3	0.1	0.1
Cable and satellite subscriber services.....	37	3	11.4	2.6	0.7	-0.5	1.8	0.2
Internet access services ²	37	4	0.4	0.0	0.9	0.3	0.8	-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
[April 2023]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Apr. 2022 to Apr. 2023 ^P	Nov. to Dec.	Dec. to Jan. ^P	Jan. to Feb. ^P	Feb. to Mar. ^P
Bundled wired telecommunications access services ²	37	5	10.0	-0.2	4.2	-0.4	1.3	0.0
Consumer loans (partial).....	39	12	3.4	-6.6	1.8	3.2	-4.6	2.3
Deposit services (partial) ²	39	2	19.8	15.2	-1.9	-2.1	4.3	0.3
Other credit intermediation, incl. trust services (partial) ²	39	3	-5.2	0.0	0.1	1.7	0.1	0.2
Securities brokerage, dealing, investment advice, and related services ² ...	40	1	31.6	0.4	0.4	4.5	-0.3	-0.4
Portfolio management ²	40	2	-7.2	-0.9	3.7	-0.5	-4.6	4.1
Life insurance ²	41	1101	0.1	-0.1	-0.4	0.0	0.0	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	1.1	0.2	-0.7	0.3	0.2	0.2
Property and casualty insurance ²	41	1104	5.0	1.3	0.9	0.2	0.3	0.1
Annuities ²	41	2	-1.5	0.0	-0.1	0.0	-0.1	-0.1
Residential property sales and leases, brokerage fees and commissions..	43	21	2.4	0.0	-0.1	-0.5	0.5	0.3
Passenger car rental.....	44	1	-8.0	0.6	-2.5	-1.4	-1.4	2.5
Legal services.....	45	1	6.6	0.3	1.6	1.0	0.3	0.2
Tax preparation and planning.....	45	2102	9.3	3.1	-0.1	0.6	0.2	0.4
Architectural and engineering services.....	45	3	3.8	0.2	0.0	0.4	0.0	0.7
Management, scientific, and technical consulting services.....	45	4	0.3	1.2	1.1	-1.3	0.1	0.1
Arrangement of flights (partial).....	47	1	6.6	-1.1	-0.5	1.0	0.8	0.0
Arrangement of vehicle rentals and lodging ²	47	2	5.5	0.5	0.1	1.3	0.7	1.6
Arrangement of cruises and tours ²	47	3	11.4	6.5	0.1	-6.6	-1.9	2.2
Physician care.....	51	1101	0.9	0.2	-0.4	0.1	0.1	0.1
Medical laboratory and diagnostic imaging care ²	51	1102	0.0	0.0	0.6	-0.2	0.1	0.0
Home health and hospice care.....	51	1103	4.7	0.3	0.3	0.1	0.6	1.3
Hospital outpatient care ²	51	1104	2.0	-0.6	0.8	0.3	0.3	0.9
Dental care.....	51	1105	3.9	0.1	0.4	2.0	0.2	0.0
Hospital inpatient care.....	51	2101	4.7	0.5	0.2	0.2	0.7	0.4
Nursing home care.....	51	2102	7.3	0.2	1.0	0.8	0.5	0.2
Traveler accommodation services.....	53	11	6.2	1.8	-2.3	-3.6	3.8	1.3
Food and beverages for immediate consumption services (partial) ²	54	1	4.5	-0.4	0.9	0.6	0.2	0.4
Motor vehicle repair and maintenance (partial).....	55	2	5.2	0.3	0.9	0.0	0.9	0.0
Membership dues and admissions and recreation facility use fees (partial) ²	56	1	6.6	1.1	2.6	0.9	0.3	0.2
Recreational activity instruction fees (partial) ²	56	2	0.5	0.0	0.0	0.0	0.0	0.0
Gaming receipts (partial) ²	56	3	3.0	0.3	1.7	0.6	0.4	-1.6
Mining services ²	60	1	7.8	0.2	0.5	0.5	0.1	0.1
Final demand construction.....	FD	43	11.2	0.0	1.9	0.0	0.1	-0.3
New warehouse building construction ²	80	1101	7.0	-0.2	0.0	-0.3	-0.2	-0.3
New school building construction ²	80	1102	10.8	-0.1	1.6	0.0	0.2	-0.6
New office building construction ²	80	1103	14.9	0.3	3.8	0.1	0.2	0.1
New industrial building construction ²	80	1104	11.2	-0.1	1.3	0.1	0.2	-1.0
New health care building construction ²	80	1105	12.3	0.1	1.7	0.1	0.2	-0.2
Intermediate Demand by Commodity Type								
Processed goods for intermediate demand.....	ID6	1	-3.2	-2.5	1.1	-0.5	-0.9	-0.4
Processed foods and feeds.....	ID6	9112	-1.8	-0.6	0.2	-2.0	-0.3	-1.2
Meats.....	02	21	-0.7	1.4	2.3	-1.0	1.9	-3.2
Processed poultry.....	02	22	-18.7	-9.9	1.2	-3.6	1.2	-2.2
Dairy products.....	02	3	-6.8	-0.3	-1.6	-2.0	-1.9	-0.4
Processed fruits and vegetables ²	02	4	16.8	0.1	1.4	0.9	0.8	0.3
Refined sugar and byproducts ²	02	53	10.7	0.8	0.5	2.4	0.4	0.1
Fats and oils ²	02	7	-18.5	-3.4	0.2	-6.1	-4.4	-5.2
Prepared animal feeds.....	02	9	1.3	0.0	-0.8	-1.8	-0.8	-1.4
Processed materials less foods and feeds.....	ID6	9111	-3.3	-2.7	1.2	-0.3	-0.9	-0.3
Synthetic fibers ²	03	1	6.7	-1.2	2.0	0.2	0.2	0.2
Processed yarns and threads ²	03	2	-11.3	-2.9	-3.1	-0.2	-0.2	-1.0
Finished fabrics ²	03	4	3.5	-0.6	0.1	0.3	0.1	0.0
Liquefied petroleum gas ²	05	32	-50.4	-14.5	0.6	1.3	-9.3	-5.9
Commercial electric power.....	05	42	10.0	1.8	2.1	1.7	-2.6	0.8
Industrial electric power.....	05	43	7.5	2.8	7.0	-4.5	-0.1	-1.4
Commercial natural gas.....	05	52	-4.5	3.3	11.8	-10.9	-9.8	-6.5
Industrial natural gas.....	05	53	-4.5	4.6	6.8	-10.3	-6.8	-7.2
Natural gas to electric utilities.....	05	54	2.8	1.4	7.4	1.6	-6.2	-5.4
Gasoline.....	05	71	-12.2	-8.6	7.5	2.8	-11.6	8.4
Jet fuel ²	05	7203	-32.1	-15.8	14.0	-5.3	-6.1	-13.2
No. 2 diesel fuel.....	05	7303	-27.1	-27.5	11.0	-4.6	-6.3	-4.1
Residual fuels ²	05	74	-38.2	-3.3	-17.4	-5.4	13.2	-1.1

See footnotes at end of table.

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

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Apr. 2022 to Apr. 2023 ^P	Nov. to Dec.	Dec. to Jan. ^P	Jan. to Feb. ^P	Feb. to Mar. ^P
Finished lubricants ²	05	76	13.8	0.0	-0.5	0.3	0.1	-0.9
Lubricating oil base stocks ²	05	78	-4.4	6.8	-21.4	3.3	-3.0	3.8
Asphalt.....	05	8102	-23.8	-31.5	2.9	-2.9	3.3	12.0
Basic inorganic chemicals ²	06	13	12.2	0.1	2.0	-0.2	-0.3	-1.6
Basic organic chemicals.....	06	14	-11.8	-1.1	-0.2	-1.8	-0.7	0.0
Prepared paint ²	06	21	4.9	0.3	0.0	0.0	-0.1	0.3
Paint materials ²	06	22	13.6	0.4	1.2	-0.1	0.9	-0.8
Medicinal and botanical chemicals ²	06	31	0.5	-0.2	0.4	-0.4	0.3	0.3
Biological products, including diagnostics.....	06	37	4.5	-0.1	1.3	0.7	0.4	0.2
Fats and oils, inedible ²	06	4	-16.9	-7.1	-2.1	-5.4	-2.6	-2.7
Nitrogenates.....	06	5201	-41.4	-2.4	-10.4	-12.1	-9.9	-9.9
Phosphates.....	06	5202	-22.8	-10.1	-0.3	-2.6	-5.1	2.2
Other agricultural chemicals ²	06	53	-9.2	-1.8	-2.0	1.2	-0.1	-0.5
Plastic resins and materials.....	06	6	-8.1	0.4	-0.8	1.3	0.2	2.9
Industrial gases ²	06	7903	4.9	-0.6	3.9	-0.1	1.0	-0.4
Adhesives and sealants ²	06	7904	9.5	0.3	0.2	0.8	0.2	0.7
Synthetic rubber ²	07	1102	-6.2	-4.5	-2.5	-0.2	-1.3	1.5
Tires ²	07	1201	10.1	0.6	3.0	0.0	0.0	0.3
Plastic construction products ²	07	21	1.0	-0.2	-0.2	-0.7	0.1	-0.2
Unsupported plastic film, sheet, other shapes ²	07	22	-0.1	-0.7	-1.2	-0.3	-1.6	0.3
Parts for manufacturing from plastics ²	07	26	2.1	0.4	-0.1	-1.7	0.0	-0.4
Plastic packaging products ²	07	2A	0.2	-0.4	-2.0	-0.7	-0.2	0.0
Softwood lumber.....	08	11	-38.9	-8.0	-9.8	-1.0	-4.0	6.2
Hardwood lumber ²	08	12	-15.0	-1.8	7.8	-1.7	-1.4	-0.7
Millwork.....	08	2	-3.6	-0.5	-0.4	0.0	-0.8	-1.0
Plywood ²	08	3	-23.9	-1.9	-1.3	-1.5	-0.9	-0.2
Paper ²	09	13	6.1	0.2	-0.3	0.7	-0.8	1.0
Paperboard ²	09	14	1.7	-0.5	-0.5	-1.0	-0.9	-0.6
Paper boxes and containers ²	09	1503	6.2	0.0	-0.1	0.0	-0.4	-0.5
Building paper and board ²	09	2	-44.8	-8.4	-6.6	-1.0	1.0	-0.1
Commercial printing ²	09	47	9.7	0.4	1.4	0.1	0.4	-0.4
Foundry and forge shop products ²	10	15	4.5	0.2	1.5	0.6	0.1	1.0
Steel mill products ²	10	17	-14.8	-3.4	-2.4	2.3	0.9	3.6
Primary nonferrous metals ²	10	22	-19.4	1.6	3.1	1.5	-5.2	1.2
Secondary nonferrous metals ²	10	24	-8.8	0.8	1.3	0.6	0.3	-0.4
Aluminum mill shapes ²	10	2501	-18.1	1.3	2.3	1.7	-0.3	-1.7
Copper and brass mill shapes ²	10	2502	-6.5	0.9	2.2	2.0	0.1	0.1
Nonferrous wire and cable ²	10	26	2.7	1.0	2.5	1.8	-0.7	-0.2
Nonferrous foundry shop products.....	10	28	4.1	0.4	-0.3	0.8	-0.3	-0.5
Metal containers ²	10	3	-0.9	0.0	-1.8	-0.3	0.1	0.2
Hardware ²	10	4	3.9	0.7	0.9	-0.1	0.2	-0.2
Plumbing fixtures and brass fittings.....	10	5	2.6	-0.2	0.2	-0.9	0.4	-0.2
Heating equipment ²	10	6	8.7	0.2	0.3	-0.1	1.1	0.3
Fabricated structural metal products.....	10	7	0.1	-0.2	0.4	-0.3	0.6	-0.1
Bolts, nuts, screws, rivets, and washers ²	10	81	11.2	0.2	1.0	1.6	0.4	0.4
Lighting fixtures ²	10	83	4.4	0.1	0.3	0.1	1.5	0.0
Fabricated ferrous wire products ²	10	88	-1.9	-1.1	-0.3	-0.4	-0.6	0.0
Other miscellaneous metal products ²	10	89	5.0	-0.1	0.0	1.1	-0.4	0.2
Fluid power equipment.....	11	43	14.5	0.3	1.1	0.6	0.4	6.6
Mechanical power transmission equipment ²	11	45	10.4	0.8	0.9	-0.1	0.0	0.2
Air conditioning and refrigeration equipment.....	11	48	8.0	0.6	-0.5	-0.2	1.6	0.0
Metal valves, except fluid power.....	11	4902	9.4	0.1	0.7	-0.1	0.2	-0.1
Ball and roller bearings ²	11	4905	6.3	0.1	0.0	-0.1	1.9	-0.2
Wiring devices ²	11	71	15.3	0.2	8.3	0.3	0.5	0.1
Motors, generators, motor generator sets ²	11	73	8.1	0.2	0.6	1.4	0.0	0.5
Switchgear, switchboard, and industrial controls equip. ²	11	75	11.2	2.3	0.3	0.1	0.2	0.2
Electronic components and accessories.....	11	78	1.7	0.2	-0.6	0.1	0.0	-0.5
Internal combustion engines ²	11	94	6.8	0.1	4.0	0.0	-0.1	0.3
Machine shop products ²	11	95	6.8	-0.2	0.1	0.5	0.1	0.2
Flat glass ²	13	11	9.3	-0.2	-0.6	3.5	-0.1	-0.1
Cement.....	13	22	13.7	0.7	3.5	1.5	0.7	-1.3
Concrete products.....	13	3	13.2	1.0	1.2	0.4	0.9	0.3
Asphalt felts and coatings ²	13	6	4.2	0.3	-2.4	-0.2	0.1	1.8
Paving mixtures and blocks.....	13	94	9.6	-0.7	-1.0	1.9	1.2	-1.6
Motor vehicle parts ²	14	12	2.4	0.1	0.4	-0.1	0.2	0.2
Aircraft engines and engine parts.....	14	23	3.8	0.4	0.3	0.1	0.1	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
 [April 2023]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Apr. 2022 to Apr. 2023 ^P	Nov. to Dec.	Dec. to Jan. ^P	Jan. to Feb. ^P	Feb. to Mar. ^P
Aircraft parts and auxiliary equipment, n.e.c.....	14	25	5.8	0.0	0.7	1.9	1.0	0.0
Medical, surgical, and personal aid devices.....	15	6	2.8	0.4	0.8	0.0	0.4	-0.3
Unprocessed goods for intermediate demand.....	ID6	2	-19.2	1.5	-4.6	-4.8	-4.1	1.7
Unprocessed foodstuffs and feedstuffs.....	ID6	21	-10.3	-0.2	-5.8	-1.0	-0.6	-1.4
Wheat ²	01	21	-28.5	-7.2	-3.6	5.9	-9.3	4.0
Corn.....	01	2202	-12.4	-3.6	-1.2	-0.2	-7.5	2.4
Slaughter cattle.....	01	31	24.8	1.2	1.2	-0.6	4.1	8.0
Slaughter hogs.....	01	32	-28.1	-0.1	-14.0	-0.1	-3.3	-8.0
Slaughter chickens.....	01	4102	-17.9	-6.3	-9.4	5.6	1.8	-0.1
Slaughter turkeys.....	01	42	20.9	6.1	2.3	-2.7	-0.9	-2.4
Raw milk.....	01	6	-22.7	-2.6	-2.9	-5.3	-3.3	-2.7
Hay and hayseeds ²	01	81	-6.6	21.4	-11.0	10.5	-5.0	-15.3
Oilseeds.....	01	8301	-10.8	0.0	-4.9	0.6	-4.2	0.5
Raw cane sugar and byproducts ²	02	5201	15.2	1.1	3.2	1.3	2.3	-0.3
Unprocessed nonfood materials.....	ID6	22	-23.7	2.5	-4.0	-6.8	-6.1	3.6
Raw cotton ²	01	51	-39.7	-5.1	2.9	-2.4	-5.1	-0.3
Hides and skins.....	04	1	-11.3	-2.6	-4.7	0.3	4.9	3.9
Coal.....	05	1	8.4	-7.5	2.8	1.4	0.0	1.3
Natural gas ²	05	31	-64.1	31.1	-17.6	-37.2	-19.3	-20.1
Crude petroleum ²	05	61	-20.4	-13.2	-1.2	3.4	-7.8	14.2
Logs, bolts, timber, pulpwood, and woodchips ²	08	5	-1.8	0.7	-0.5	-0.9	-1.1	-0.9
Recyclable paper ²	09	12	-58.4	10.1	-3.7	10.1	0.2	6.7
Iron ores ²	10	11	12.0	-0.1	0.9	1.0	-0.5	-1.3
Iron and steel scrap.....	10	12	-24.2	-6.8	1.3	11.2	5.0	3.9
Nonferrous metal ores ²	10	21	-6.0	-0.6	11.2	-4.8	3.4	0.2
Copper base scrap ²	10	2301	-9.7	2.1	2.8	0.9	0.2	0.8
Aluminum base scrap.....	10	2302	-30.7	5.9	0.0	-1.6	-4.5	-1.4
Construction sand, gravel, and crushed stone.....	13	21	12.4	0.7	3.4	0.5	-0.1	1.5
Services for intermediate demand.....	ID6	3	4.5	0.0	1.0	0.3	-0.2	0.7
Trade services for intermediate demand ³	ID6	33	1.8	-1.3	0.7	-0.3	1.0	1.5
Machinery and equipment parts and supplies wholesaling ²	57	1102	7.2	-1.3	1.8	-1.3	4.7	0.3
Building materials, paint, and hardware wholesaling.....	57	3	-5.4	1.3	-2.5	-2.1	-1.7	0.5
Metals, minerals, and ores wholesaling ²	57	4	-1.4	-6.2	15.2	2.1	10.7	1.2
Chemicals and allied products wholesaling ²	57	5	6.4	-1.1	4.0	-3.5	-1.9	0.6
Paper and plastics products wholesaling ²	57	6	7.4	1.6	-1.7	0.8	-1.1	2.5
Food wholesaling ²	57	8101	7.1	-2.1	-0.6	-0.4	1.6	4.4
Automotive parts, including tires, retailing ²	58	6102	10.2	0.2	1.4	-0.9	-2.4	-0.1
Hardware, building material, and supplies retailing.....	58	D	-25.8	-6.9	-0.4	-5.4	0.3	-1.1
Transportation and warehousing services for intermediate demand.....	ID6	32	-1.0	0.0	0.3	-0.1	-0.6	-0.8
Rail transportation of freight and mail ²	30	11	3.9	-0.1	1.1	-0.9	-0.2	0.2
Truck transportation of freight ²	30	12	-8.6	-1.4	-2.2	-1.0	-1.4	-1.7
Water transportation of freight ²	30	13	14.3	-0.3	-2.3	1.3	-0.3	-0.5
Air transportation of freight ²	30	14	-6.2	-1.7	1.1	0.2	-1.0	-0.1
U.S. Postal Service ²	30	1601	10.0	0.0	4.0	0.0	0.0	0.0
Courier and messenger services, except air mail.....	30	1602	4.4	0.5	-0.3	0.3	-0.2	0.1
Air mail and package delivery services, excluding by USPS.....	30	1603	1.6	-3.1	3.3	-0.1	-0.8	-0.4
Pipeline transportation ²	30	17	-	-1.3	0.3	1.2	0.0	-1.1
Transportation of passengers (partial).....	30	2	6.2	3.2	2.3	-1.0	0.8	-2.9
Services related to water transportation.....	31	1	2.8	0.0	1.0	1.1	-1.1	0.0
Arrangement of freight and cargo ²	31	31	-34.5	2.0	-6.0	-2.7	-4.4	-3.4
Warehousing, storage, and related services ²	32	1	9.3	0.9	2.8	2.8	-0.3	0.0
Services less trade, transportation, and warehousing for intermediate demand.....	ID6	31	6.8	0.4	1.1	0.6	-0.4	0.8
Network compensation from broadcast TV, cable TV, radio ²	35	-	1.7	0.0	0.3	0.0	0.0	0.0
Advertising space sales in periodicals and newspapers ²	36	11	3.2	1.2	0.4	0.7	1.0	0.0
Advertising space sales in directories and mail lists ²	36	12	9.7	0.0	5.3	0.0	0.0	0.0
Television advertising time sales.....	36	2	-17.0	-9.0	-2.0	-7.4	-2.9	2.9
Radio advertising time sales.....	36	3	-4.8	-2.5	-9.8	11.0	-1.6	-1.3
Internet advertising sales ²	36	6	-	-	0.5	0.0	0.0	0.0
Business wired telecommunication services ²	37	12	3.2	0.2	-0.1	1.2	0.1	0.4
Wireless telecommunication services.....	37	2	1.7	0.1	0.0	0.3	0.1	0.1
Cable and satellite subscriber services.....	37	3	11.4	2.6	0.7	-0.5	1.8	0.2
Bundled wired telecommunication access services ²	37	5	10.0	-0.2	4.2	-0.4	1.3	0.0
Data processing and related services ²	38	1	0.7	0.4	0.2	0.4	0.3	0.0
Business loans (partial).....	39	11	81.9	1.4	8.7	10.8	-5.7	1.8

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
 [April 2023]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Apr. 2022 to Apr. 2023 ^P	Nov. to Dec.	Dec. to Jan. ^P	Jan. to Feb. ^P	Feb. to Mar. ^P
Deposit services (partial) ²	39	2	19.8	15.2	-1.9	-2.1	4.3	0.3
Other credit intermediation, incl. trust services (partial) ²	39	3	-5.2	0.0	0.1	1.7	0.1	0.2
Securities brokerage, dealing, investment advice, and related services ²	40	1	31.6	0.4	0.4	4.5	-0.3	-0.4
Portfolio management ²	40	2	-7.2	-0.9	3.7	-0.5	-4.6	4.1
Investment banking ²	40	3	-5.4	-1.4	0.3	2.1	3.0	-1.7
Life insurance ²	41	1101	0.1	-0.1	-0.4	0.0	0.0	0.0
Health and medical insurance.....	41	1103	1.1	0.2	-0.7	0.3	0.2	0.2
Property and casualty insurance ²	41	1104	5.0	1.3	0.9	0.2	0.3	0.1
Annuities ²	41	2	-1.5	0.0	-0.1	0.0	-0.1	-0.1
Commissions from sales of insurance ²	42	1	0.8	0.1	0.7	0.0	0.0	0.0
Nonresidential real estate rents ²	43	11	0.5	1.0	1.7	-4.2	-1.6	2.4
Nonresidential property sales and leases ²	43	12	-0.6	0.6	-0.6	-1.1	-0.6	-1.1
Residential property management fees ²	43	22	-0.3	-1.0	0.7	-0.5	-0.1	0.3
Passenger car rental.....	44	1	-8.0	0.6	-2.5	-1.4	-1.4	2.5
Truck, utility trailer, and RV rental and leasing ²	44	2	1.4	0.3	-0.7	-0.6	0.7	0.2
Construction, mining, and forestry machinery and equipment rental and leasing ²	44	3	10.0	1.4	1.4	0.0	0.0	0.8
Legal services.....	45	1	6.6	0.3	1.6	1.0	0.3	0.2
Accounting services (partial).....	45	2	7.5	0.8	1.2	1.3	1.1	1.0
Architectural and engineering services.....	45	3	3.8	0.2	0.0	0.4	0.0	0.7
Management, scientific, and technical consulting services.....	45	4	0.3	1.2	1.1	-1.3	0.1	0.1
Advertising and related services (partial) ²	45	5	0.9	0.0	0.1	0.2	0.3	0.0
Permanent placement services ²	46	1	1.4	0.3	-0.1	-2.5	1.2	0.6
Executive search services ²	46	2	5.9	-0.3	1.1	-0.7	0.7	-1.1
Staffing services.....	46	3	1.8	0.1	0.0	-0.2	0.7	0.9
Security guard services ²	48	1	7.1	0.0	1.1	0.1	0.1	0.1
Janitorial services ²	49	1	2.9	1.0	0.7	-0.1	0.2	0.7
Waste collection.....	50	1	12.8	0.7	1.3	1.6	1.1	1.1
Traveler accommodation services.....	53	11	6.2	1.8	-2.3	-3.6	3.8	1.3
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	7.6	0.5	-0.6	-0.4	0.9	0.3
Aircraft repair and maintenance.....	55	4	4.4	0.6	-0.5	2.1	0.4	0.4
Metal treatment services ²	59	1	5.5	-0.6	2.5	0.0	0.1	0.7
Construction for intermediate demand.....	ID6	4	4.7	0.1	0.8	0.2	0.4	0.8
Maintenance and repair of non-residential buildings (partial) ²	80	2	4.7	0.1	0.8	0.2	0.4	0.8
Intermediate Demand by Production Flow								
Stage 4 intermediate demand.....	ID5	4	2.9	-0.4	1.0	0.0	-0.2	0.4
Stage 4 intermediate demand goods.....	ID5	9411	0.8	-0.7	0.8	-0.1	-0.4	-0.1
Grains.....	01	2	-15.1	-4.0	-1.6	0.8	-7.4	2.5
Meats.....	02	21	-0.7	1.4	2.3	-1.0	1.9	-3.2
Unprocessed and packaged fish.....	02	23	-6.7	-1.9	0.1	-0.6	0.9	-2.0
Dairy products.....	02	3	-6.8	-0.3	-1.6	-2.0	-1.9	-0.4
Commercial electric power.....	05	42	10.0	1.8	2.1	1.7	-2.6	0.8
Industrial electric power.....	05	43	7.5	2.8	7.0	-4.5	-0.1	-1.4
Gasoline.....	05	71	-12.2	-8.6	7.5	2.8	-11.6	8.4
No. 2 diesel fuel.....	05	7303	-27.1	-27.5	11.0	-4.6	-6.3	-4.1
Basic organic chemicals.....	06	14	-11.8	-1.1	-0.2	-1.8	-0.7	0.0
Prepared paint ²	06	21	4.9	0.3	0.0	0.0	-0.1	0.3
Medicinal and botanical chemicals ²	06	31	0.5	-0.2	0.4	-0.4	0.3	0.3
Biological products, including diagnostics.....	06	37	4.5	-0.1	1.3	0.7	0.4	0.2
Pharmaceutical preparations.....	06	38	2.7	-0.3	0.7	0.5	0.0	0.2
Plastic construction products ²	07	21	1.0	-0.2	-0.2	-0.7	0.1	-0.2
Unsupported plastic film, sheet, and other shapes ²	07	22	-0.1	-0.7	-1.2	-0.3	-1.6	0.3
Parts for manufacturing from plastics ²	07	26	2.1	0.4	-0.1	-1.7	0.0	-0.4
Plastic packaging products ²	07	2A	0.2	-0.4	-2.0	-0.7	-0.2	0.0
Lumber.....	08	1	-32.1	-6.1	-3.6	-1.3	-2.9	3.4
Millwork.....	08	2	-3.6	-0.5	-0.4	0.0	-0.8	-1.0
Paper boxes and containers ²	09	1503	6.2	0.0	-0.1	0.0	-0.4	-0.5
Commercial printing ²	09	47	9.7	0.4	1.4	0.1	0.4	-0.4
Steel mill products ²	10	17	-14.8	-3.4	-2.4	2.3	0.9	3.6
Nonferrous wire and cable ²	10	26	2.7	1.0	2.5	1.8	-0.7	-0.2
Fabricated structural metal products.....	10	7	0.1	-0.2	0.4	-0.3	0.6	-0.1
Other miscellaneous metal products ²	10	89	5.0	-0.1	0.0	1.1	-0.4	0.2
Air conditioning and refrigeration equipment.....	11	48	8.0	0.6	-0.5	-0.2	1.6	0.0
Wiring devices ²	11	71	15.3	0.2	8.3	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
 [April 2023]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Apr. 2022 to Apr. 2023 ^P	Nov. to Dec.	Dec. to Jan. ^P	Jan. to Feb. ^P	Feb. to Mar. ^P
Electronic components and accessories.....	11	78	1.7	0.2	-0.6	0.1	0.0	-0.5
Miscellaneous electrical machinery and equipment ²	11	79	4.8	0.1	0.7	-0.3	0.0	0.0
Internal combustion engines ²	11	94	6.8	0.1	4.0	0.0	-0.1	0.3
Machine shop products ²	11	95	6.8	-0.2	0.1	0.5	0.1	0.2
Concrete ingredients and related products.....	13	2	12.7	0.7	3.4	0.8	0.1	0.7
Concrete products.....	13	3	13.2	1.0	1.2	0.4	0.9	0.3
Prepared asphalt, tar roofing and siding products ²	13	61	4.4	0.4	-3.1	-0.3	0.1	2.3
Paving mixtures and blocks.....	13	94	9.6	-0.7	-1.0	1.9	1.2	-1.6
Motor vehicle parts ²	14	12	2.4	0.1	0.4	-0.1	0.2	0.2
Aircraft engines and engine parts.....	14	23	3.8	0.4	0.3	0.1	0.1	0.3
Aircraft parts and auxiliary equipment, n.e.c.....	14	25	5.8	0.0	0.7	1.9	1.0	0.0
Medical, surgical and personal aid devices.....	15	6	2.8	0.4	0.8	0.0	0.4	-0.3
Stage 4 intermediate demand services.....	ID5	9412	4.9	0.0	1.2	0.2	0.0	0.9
Truck transportation of freight ²	30	12	-8.6	-1.4	-2.2	-1.0	-1.4	-1.7
Courier, messenger, and U.S. postal services.....	30	16	6.3	-0.4	2.2	0.1	-0.3	0.0
Airline passenger services.....	30	22	6.3	3.2	2.3	-1.0	0.8	-2.9
Warehousing, storage, and related services ²	32	1	9.3	0.9	2.8	2.8	-0.3	0.0
Advertising space sales in periodicals and newspapers ²	36	11	3.2	1.2	0.4	0.7	1.0	0.0
Data processing and related services ²	38	1	0.7	0.4	0.2	0.4	0.3	0.0
Business loans (partial).....	39	11	81.9	1.4	8.7	10.8	-5.7	1.8
Deposit services (partial) ²	39	2	19.8	15.2	-1.9	-2.1	4.3	0.3
Securities brokerage, dealing, investment advice, and related services ²	40	1	31.6	0.4	0.4	4.5	-0.3	-0.4
Portfolio management ²	40	2	-7.2	-0.9	3.7	-0.5	-4.6	4.1
Investment banking ²	40	3	-5.4	-1.4	0.3	2.1	3.0	-1.7
Insurance.....	41	11	2.9	0.6	0.2	0.2	0.2	0.2
Annuities ²	41	2	-1.5	0.0	-0.1	0.0	-0.1	-0.1
Nonresidential real estate rents ²	43	11	0.5	1.0	1.7	-4.2	-1.6	2.4
Nonresidential property sales and leases ²	43	12	-0.6	0.6	-0.6	-1.1	-0.6	-1.1
Nonresidential property management fees ²	43	13	5.7	0.4	0.6	0.1	0.2	-0.3
Residential property management fees ²	43	22	-0.3	-1.0	0.7	-0.5	-0.1	0.3
Construction, mining, and forestry machinery and equipment rental and leasing ²	44	3	10.0	1.4	1.4	0.0	0.0	0.8
Legal services.....	45	1	6.6	0.3	1.6	1.0	0.3	0.2
Advertising agency services ²	45	51	0.9	0.0	0.1	0.2	0.3	0.0
Accounting services (partial).....	45	2	7.5	0.8	1.2	1.3	1.1	1.0
Architectural and engineering services.....	45	3	3.8	0.2	0.0	0.4	0.0	0.7
Management, scientific, and technical consulting services.....	45	4	0.3	1.2	1.1	-1.3	0.1	0.1
Staffing services.....	46	3	1.8	0.1	0.0	-0.2	0.7	0.9
Janitorial services ²	49	1	2.9	1.0	0.7	-0.1	0.2	0.7
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	7.6	0.5	-0.6	-0.4	0.9	0.3
Machinery and equipment parts and supplies wholesaling ²	57	1102	7.2	-1.3	1.8	-1.3	4.7	0.3
Building materials, paint, and hardware wholesaling.....	57	3	-5.4	1.3	-2.5	-2.1	-1.7	0.5
Metals, minerals, and ores wholesaling ²	57	4	-1.4	-6.2	15.2	2.1	10.7	1.2
Chemicals and allied products wholesaling ²	57	5	6.4	-1.1	4.0	-3.5	-1.9	0.6
Paper and plastics products wholesaling ²	57	6	7.4	1.6	-1.7	0.8	-1.1	2.5
Food and alcohol wholesaling ²	57	8	7.8	-1.7	-0.4	-0.3	1.2	4.0
Hardware and building materials and supplies retailing.....	58	D	-25.8	-6.9	-0.4	-5.4	0.3	-1.1
Metal treatment services ²	59	1	5.5	-0.6	2.5	0.0	0.1	0.7
Stage 3 intermediate demand.....	ID5	3	-3.6	-2.0	0.2	-0.3	-0.5	-0.1
Stage 3 intermediate demand goods.....	ID5	9311	-9.6	-3.8	-0.4	-0.8	-0.9	-1.0
Slaughter cattle.....	01	31	24.8	1.2	1.2	-0.6	4.1	8.0
Slaughter hogs.....	01	32	-28.1	-0.1	-14.0	-0.1	-3.3	-8.0
Slaughter poultry.....	01	4	-12.2	-4.0	-7.1	4.0	1.3	-0.5
Raw milk.....	01	6	-22.7	-2.6	-2.9	-5.3	-3.3	-2.7
Commercial electric power.....	05	42	10.0	1.8	2.1	1.7	-2.6	0.8
Industrial electric power.....	05	43	7.5	2.8	7.0	-4.5	-0.1	-1.4
Gasoline.....	05	71	-12.2	-8.6	7.5	2.8	-11.6	8.4
Jet fuel ²	05	7203	-32.1	-15.8	14.0	-5.3	-6.1	-13.2
No. 2 diesel fuel.....	05	7303	-27.1	-27.5	11.0	-4.6	-6.3	-4.1
Finished lubricants ²	05	76	13.8	0.0	-0.5	0.3	0.1	-0.9
Lubricating oil base stocks ²	05	78	-4.4	6.8	-21.4	3.3	-3.0	3.8
Asphalt.....	05	8102	-23.8	-31.5	2.9	-2.9	3.3	12.0
Basic inorganic chemicals ²	06	13	12.2	0.1	2.0	-0.2	-0.3	-1.6
Basic organic chemicals.....	06	14	-11.8	-1.1	-0.2	-1.8	-0.7	0.0
Paints and allied products ²	06	2	6.6	0.3	0.2	0.0	0.1	0.0

See footnotes at end of table.

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

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Apr. 2022 to Apr. 2023 ^P	Nov. to Dec.	Dec. to Jan. ^P	Jan. to Feb. ^P	Feb. to Mar. ^P
Agricultural chemicals and chemical products.....	06	5	-19.5	-4.3	-2.9	-3.0	-3.9	-2.7
Plastic resins and materials.....	06	6	-8.1	0.4	-0.8	1.3	0.2	2.9
Synthetic rubber ²	07	1102	-6.2	-4.5	-2.5	-0.2	-1.3	1.5
Unsupported plastic film, sheet, and other shapes ²	07	22	-0.1	-0.7	-1.2	-0.3	-1.6	0.3
Paper ²	09	13	6.1	0.2	-0.3	0.7	-0.8	1.0
Paperboard ²	09	14	1.7	-0.5	-0.5	-1.0	-0.9	-0.6
Converted paper and paperboard products ²	09	15	7.6	0.3	0.2	0.1	-0.3	-0.1
Commercial printing ²	09	47	9.7	0.4	1.4	0.1	0.4	-0.4
Foundry and forge shop products ²	10	15	4.5	0.2	1.5	0.6	0.1	1.0
Steel mill products ²	10	17	-14.8	-3.4	-2.4	2.3	0.9	3.6
Nonferrous mill shapes ²	10	25	-11.5	1.1	2.2	1.7	-0.1	-0.8
Nonferrous foundry shop products.....	10	28	4.1	0.4	-0.3	0.8	-0.3	-0.5
Metal containers ²	10	3	-0.9	0.0	-1.8	-0.3	0.1	0.2
Structural, architectural, and pre-engineered metal products.....	10	74	-3.0	-0.6	1.0	-0.4	1.0	0.1
Bolts, nuts, screws, rivets, and washers ²	10	81	11.2	0.2	1.0	1.6	0.4	0.4
Other miscellaneous metal products ²	10	89	5.0	-0.1	0.0	1.1	-0.4	0.2
General purpose machinery and equipment.....	11	4	9.2	0.4	0.7	0.2	0.7	0.9
Electrical machinery and equipment.....	11	7	4.6	0.4	0.6	0.0	0.1	0.0
Construction sand, gravel, and crushed stone.....	13	21	12.4	0.7	3.4	0.5	-0.1	1.5
Cement.....	13	22	13.7	0.7	3.5	1.5	0.7	-1.3
Motor vehicle parts ²	14	12	2.4	0.1	0.4	-0.1	0.2	0.2
Aircraft and aircraft equipment.....	14	2	4.5	0.3	0.4	0.7	0.6	0.4
Stage 3 intermediate demand services.....	ID5	9312	2.9	0.0	0.8	0.1	-0.3	0.7
Rail transportation of freight and mail ²	30	11	3.9	-0.1	1.1	-0.9	-0.2	0.2
Courier, messenger, and U.S. postal services.....	30	16	6.3	-0.4	2.2	0.1	-0.3	0.0
Arrangement of freight and cargo ²	31	31	-34.5	2.0	-6.0	-2.7	-4.4	-3.4
Freight forwarding ²	31	3201	-4.7	0.0	0.0	-0.1	-0.4	1.1
Warehousing, storage, and related services ²	32	1	9.3	0.9	2.8	2.8	-0.3	0.0
Advertising space sales in periodicals, newspapers, directories, and mailing lists ²	36	1	4.2	1.0	1.1	0.6	0.9	0.0
Wired telephone services ²	37	1	3.6	0.1	0.0	0.7	0.2	0.7
Bundled wired telecommunications access services ²	37	5	10.0	-0.2	4.2	-0.4	1.3	0.0
Data processing and related services ²	38	1	0.7	0.4	0.2	0.4	0.3	0.0
Business loans (partial).....	39	11	81.9	1.4	8.7	10.8	-5.7	1.8
Deposit services (partial) ²	39	2	19.8	15.2	-1.9	-2.1	4.3	0.3
Securities brokerage, dealing, investment advice, and related services ²	40	1	31.6	0.4	0.4	4.5	-0.3	-0.4
Insurance.....	41	11	2.9	0.6	0.2	0.2	0.2	0.2
Nonresidential real estate rents ²	43	11	0.5	1.0	1.7	-4.2	-1.6	2.4
Legal services.....	45	1	6.6	0.3	1.6	1.0	0.3	0.2
Accounting services (partial).....	45	2	7.5	0.8	1.2	1.3	1.1	1.0
Architectural and engineering services.....	45	3	3.8	0.2	0.0	0.4	0.0	0.7
Management, scientific, and technical consulting services.....	45	4	0.3	1.2	1.1	-1.3	0.1	0.1
Advertising agency services ²	45	51	0.9	0.0	0.1	0.2	0.3	0.0
Staffing services.....	46	3	1.8	0.1	0.0	-0.2	0.7	0.9
Aircraft repair maintenance.....	55	4	4.4	0.6	-0.5	2.1	0.4	0.4
Machinery and equipment parts and supplies wholesaling ²	57	1102	7.2	-1.3	1.8	-1.3	4.7	0.3
Building materials, paint, and hardware wholesaling.....	57	3	-5.4	1.3	-2.5	-2.1	-1.7	0.5
Metals, minerals, and ores wholesaling ²	57	4	-1.4	-6.2	15.2	2.1	10.7	1.2
Chemicals and allied products wholesaling ²	57	5	6.4	-1.1	4.0	-3.5	-1.9	0.6
Paper and plastics products wholesaling ²	57	6	7.4	1.6	-1.7	0.8	-1.1	2.5
Food wholesaling ²	57	8101	7.1	-2.1	-0.6	-0.4	1.6	4.4
Metal treatment services ²	59	1	5.5	-0.6	2.5	0.0	0.1	0.7
Stage 2 intermediate demand.....	ID5	2	-5.1	1.0	-1.0	-1.4	-2.2	1.2
Stage 2 intermediate demand goods.....	ID5	9211	-17.0	1.5	-3.2	-4.7	-4.4	1.8
Corn.....	01	2202	-12.4	-3.6	-1.2	-0.2	-7.5	2.4
Oilseeds.....	01	83	-10.8	0.0	-4.9	0.6	-4.2	0.5
Prepared animal feeds.....	02	9	1.3	0.0	-0.8	-1.8	-0.8	-1.4
Coal.....	05	1	8.4	-7.5	2.8	1.4	0.0	1.3
Natural gas ²	05	31	-64.1	31.1	-17.6	-37.2	-19.3	-20.1
Liquefied petroleum gas ²	05	32	-50.4	-14.5	0.6	1.3	-9.3	-5.9
Crude petroleum ²	05	61	-20.4	-13.2	-1.2	3.4	-7.8	14.2
No. 2 diesel fuel.....	05	7303	-27.1	-27.5	11.0	-4.6	-6.3	-4.1
Industrial chemicals.....	06	1	-8.6	-0.9	0.2	-1.5	-0.6	-0.3
Plastic resins and materials.....	06	6	-8.1	0.4	-0.8	1.3	0.2	2.9
Plastic products ²	07	2	1.8	-0.2	-0.6	-0.5	-0.3	0.2
Logs, bolts, timber, pulpwood, and wood chips ²	08	5	-1.8	0.7	-0.5	-0.9	-1.1	-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
 [April 2023]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Apr. 2022 to Apr. 2023 ^P	Nov. to Dec.	Dec. to Jan. ^P	Jan. to Feb. ^P	Feb. to Mar. ^P
Paper ²	09	13	6.1	0.2	-0.3	0.7	-0.8	1.0
Paperboard, excluding corrugated paperboard ²	09	1411	2.1	-0.4	-0.4	-1.0	-0.1	-0.7
Commercial printing ²	09	47	9.7	0.4	1.4	0.1	0.4	-0.4
Iron and steel scrap.....	10	12	-24.2	-6.8	1.3	11.2	5.0	3.9
Steel mill products ²	10	17	-14.8	-3.4	-2.4	2.3	0.9	3.6
Nonferrous mill shapes ²	10	25	-11.5	1.1	2.2	1.7	-0.1	-0.8
Electrical machinery and equipment.....	11	7	4.6	0.4	0.6	0.0	0.1	0.0
Electronic components and accessories.....	11	78	1.7	0.2	-0.6	0.1	0.0	-0.5
Stage 2 intermediate demand services.....	ID5	9212	7.4	0.6	0.9	1.3	-0.6	0.7
Rail transportation of freight and mail ²	30	11	3.9	-0.1	1.1	-0.9	-0.2	0.2
Truck transportation of freight ²	30	12	-8.6	-1.4	-2.2	-1.0	-1.4	-1.7
U.S. Postal Service ²	30	1601	10.0	0.0	4.0	0.0	0.0	0.0
Courier and messenger services, except air.....	30	1602	4.4	0.5	-0.3	0.3	-0.2	0.1
Air mail and package delivery services, excluding by USPS.....	30	1603	1.6	-3.1	3.3	-0.1	-0.8	-0.4
Pipeline transportation ²	30	17	-	-1.3	0.3	1.2	0.0	-1.1
Airline passenger services.....	30	22	6.3	3.2	2.3	-1.0	0.8	-2.9
Arrangement of freight and cargo ²	31	31	-34.5	2.0	-6.0	-2.7	-4.4	-3.4
Television advertising time sales.....	36	21	-17.0	-9.0	-2.0	-7.4	-2.9	2.9
Wireless telecommunication services.....	37	2	1.7	0.1	0.0	0.3	0.1	0.1
Data processing and related services ²	38	1	0.7	0.4	0.2	0.4	0.3	0.0
Securities brokerage, dealing, investment advice, and related services ²	40	1	31.6	0.4	0.4	4.5	-0.3	-0.4
Portfolio management ²	40	2	-7.2	-0.9	3.7	-0.5	-4.6	4.1
Investment banking ²	40	31	-5.4	-1.4	0.3	2.1	3.0	-1.7
Insurance.....	41	11	2.9	0.6	0.2	0.2	0.2	0.2
Commissions from sales of insurance ²	42	11	0.8	0.1	0.7	0.0	0.0	0.0
Legal services.....	45	1	6.6	0.3	1.6	1.0	0.3	0.2
Accounting services (partial).....	45	2	7.5	0.8	1.2	1.3	1.1	1.0
Management, scientific, and technical consulting services.....	45	4	0.3	1.2	1.1	-1.3	0.1	0.1
Advertising agency services ²	45	51	0.9	0.0	0.1	0.2	0.3	0.0
Staffing services.....	46	3	1.8	0.1	0.0	-0.2	0.7	0.9
Security guard services ²	48	1	7.1	0.0	1.1	0.1	0.1	0.1
Janitorial services ²	49	1	2.9	1.0	0.7	-0.1	0.2	0.7
Traveler accommodation services.....	53	1	6.2	1.8	-2.3	-3.6	3.8	1.3
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	7.6	0.5	-0.6	-0.4	0.9	0.3
Hardware and building materials and supplies retailing.....	58	D	-25.8	-6.9	-0.4	-5.4	0.3	-1.1
Stage 1 intermediate demand.....	ID5	1	-0.8	-1.8	0.8	-0.4	-0.4	0.0
Stage 1 intermediate demand goods.....	ID5	9111	-4.1	-3.0	0.8	-0.5	-0.9	-0.5
Prepared animal feeds.....	02	9	1.3	0.0	-0.8	-1.8	-0.8	-1.4
Commercial electric power.....	05	42	10.0	1.8	2.1	1.7	-2.6	0.8
Industrial electric power.....	05	43	7.5	2.8	7.0	-4.5	-0.1	-1.4
Commercial natural gas.....	05	52	-4.5	3.3	11.8	-10.9	-9.8	-6.5
Industrial natural gas.....	05	53	-4.5	4.6	6.8	-10.3	-6.8	-7.2
Gasoline.....	05	71	-12.2	-8.6	7.5	2.8	-11.6	8.4
No. 2 diesel fuel.....	05	7303	-27.1	-27.5	11.0	-4.6	-6.3	-4.1
Industrial chemicals.....	06	1	-8.6	-0.9	0.2	-1.5	-0.6	-0.3
Prepared paint ²	06	21	4.9	0.3	0.0	0.0	-0.1	0.3
Plastic construction products ²	07	21	1.0	-0.2	-0.2	-0.7	0.1	-0.2
Recyclable paper ²	09	12	-58.4	10.1	-3.7	10.1	0.2	6.7
Paper ²	09	13	6.1	0.2	-0.3	0.7	-0.8	1.0
Converted paper and paperboard products ²	09	15	7.6	0.3	0.2	0.1	-0.3	-0.1
Iron and steel scrap.....	10	12	-24.2	-6.8	1.3	11.2	5.0	3.9
Steel mill products ²	10	17	-14.8	-3.4	-2.4	2.3	0.9	3.6
Primary nonferrous metals ²	10	22	-19.4	1.6	3.1	1.5	-5.2	1.2
Nonferrous scrap.....	10	23	-23.6	1.3	-0.2	-3.3	-2.6	0.5
Nonferrous wire and cable ²	10	26	2.7	1.0	2.5	1.8	-0.7	-0.2
Fabricated structural metal products.....	10	7	0.1	-0.2	0.4	-0.3	0.6	-0.1
General purpose machinery and equipment.....	11	4	9.2	0.4	0.7	0.2	0.7	0.9
Construction sand, gravel, and crushed stone.....	13	21	12.4	0.7	3.4	0.5	-0.1	1.5
Stage 1 intermediate demand services.....	ID5	9112	2.6	-0.4	0.8	-0.2	0.1	0.5
Truck transportation of freight ²	30	12	-8.6	-1.4	-2.2	-1.0	-1.4	-1.7
Airline passenger services.....	30	22	6.3	3.2	2.3	-1.0	0.8	-2.9
Advertising space sales in periodicals, newspapers, directories, and mailing lists ²	36	1	4.2	1.0	1.1	0.6	0.9	0.0
Business wired telecommunication services ²	37	12	3.2	0.2	-0.1	1.2	0.1	0.4
Wireless telecommunication services.....	37	2	1.7	0.1	0.0	0.3	0.1	0.1

See footnotes at end of table.

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

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Apr. 2022 to Apr. 2023 ^p	Nov. to Dec.	Dec. to Jan. ^p	Jan. to Feb. ^p	Feb. to Mar. ^p
Bundled wired telecommunications access services ²	37	5	10.0	-0.2	4.2	-0.4	1.3	0.0
Business loans (partial).....	39	11	81.9	1.4	8.7	10.8	-5.7	1.8
Deposit services (partial) ²	39	2	19.8	15.2	-1.9	-2.1	4.3	0.3
Securities brokerage, dealing, investment advice, and related services ²	40	1	31.6	0.4	0.4	4.5	-0.3	-0.4
Portfolio management ²	40	2	-7.2	-0.9	3.7	-0.5	-4.6	4.1
Investment banking ²	40	3	-5.4	-1.4	0.3	2.1	3.0	-1.7
Insurance.....	41	11	2.9	0.6	0.2	0.2	0.2	0.2
Nonresidential real estate rents ²	43	11	0.5	1.0	1.7	-4.2	-1.6	2.4
Architectural and engineering services.....	45	3	3.8	0.2	0.0	0.4	0.0	0.7
Management consulting services.....	45	41	0.3	1.2	1.1	-1.3	0.1	0.1
Waste collection.....	50	1	12.8	0.7	1.3	1.6	1.1	1.1
Traveler accommodation services.....	53	11	6.2	1.8	-2.3	-3.6	3.8	1.3
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	7.6	0.5	-0.6	-0.4	0.9	0.3
Machinery and equipment parts and supplies wholesaling ²	57	1102	7.2	-1.3	1.8	-1.3	4.7	0.3
Building materials, paint, and hardware wholesaling.....	57	3	-5.4	1.3	-2.5	-2.1	-1.7	0.5
Metals, minerals, and ores wholesaling ²	57	4	-1.4	-6.2	15.2	2.1	10.7	1.2
Chemicals and allied products wholesaling ²	57	5	6.4	-1.1	4.0	-3.5	-1.9	0.6
Paper and plastics products wholesaling ²	57	6	7.4	1.6	-1.7	0.8	-1.1	2.5
Hardware and building materials and supplies retailing.....	58	D	-25.8	-6.9	-0.4	-5.4	0.3	-1.1
Mining services ²	60	1	7.8	0.2	0.5	0.5	0.1	0.1

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

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	Dec. 2022	Jan. 2023 ^p	Feb. 2023 ^p	Mar. 2023 ^p	Apr. 2023 ^p
Final Demand								
Final demand.....		FD	4	140.721	141.288	141.320	140.804	141.132
Final demand goods.....		FD	41	143.188	144.976	144.396	142.882	143.131
Final demand foods.....		FD	411	156.904	154.851	151.324	151.756	151.047
Finished consumer foods ²	00/82	FD	4111	275.957	272.411	265.304	267.395	265.958
Finished consumer foods, crude.....	00/82	FD	41113	422.926	349.590	283.542	294.912	300.935
Finished consumer foods, processed.....	00/82	FD	41112	260.770	263.858	262.387	263.587	261.446
Government purchased foods.....		FD	4112	154.300	154.330	152.385	152.901	151.267
Foods for export.....		FD	4113	163.255	159.919	157.954	154.923	155.072
Final demand energy.....		FD	412	145.646	153.567	152.374	143.279	144.434
Finished consumer energy goods ²	00/82	FD	4121	224.488	236.991	236.982	221.540	226.657
Government purchased energy.....		FD	4122	162.174	173.861	168.238	159.843	153.216
Energy for export.....		FD	4123	148.122	150.184	144.569	141.707	135.052
Final demand goods less foods and energy.....		FD	413	138.813	139.662	140.096	140.395	140.630
Finished goods less foods and energy ²	00/82	FD	4131	242.696	244.370	245.214	245.859	246.033
Finished consumer goods less foods and energy.....	00/82	FD	41311	269.999	271.794	273.060	273.486	273.623
Nondurable consumer goods less foods and energy.....	00/82	FD	413111	347.966	350.738	353.093	353.536	354.101
Durable consumer goods.....	00/82	FD	413112	189.498	190.448	190.742	191.127	190.904
Private capital equipment.....	00/82	FD	41312	208.113	209.607	210.044	210.854	211.051
Private capital equipment for manufacturing industries.....	00/82	FD	413121	221.830	223.872	224.596	225.460	225.838
Private capital equipment for nonmanufacturing industries.....	00/82	FD	413122	204.008	205.335	205.687	206.481	206.626
Government purchased goods, excluding foods and energy.....		FD	4132	135.876	136.249	136.287	136.441	136.402
Government purchased goods excluding foods, energy, and capital equipment.....		FD	41321	145.793	146.330	146.219	146.236	146.138
Government purchased capital equipment.....		FD	41322	121.479	121.652	121.868	122.184	122.218
Goods for export, excluding foods and energy.....		FD	4133	136.263	137.054	137.521	137.738	138.288
Final demand services.....		FD	42	138.402	138.393	138.699	138.609	138.998
Final demand trade services ³		FD	423	152.566	150.807	151.168	150.508	151.198
Trade of finished goods ²		FD	4231	151.363	149.486	149.919	149.086	149.660
Trade of personal consumption goods.....		FD	42311	150.610	149.295	149.827	148.660	149.421
Trade of private capital equipment.....		FD	42312	152.981	148.573	148.557	149.240	148.960
Trade of government purchased goods.....		FD	4232	161.018	158.509	159.073	158.600	160.297
Trade of government purchased goods, excluding capital equipment.....		FD	42321	163.332	162.508	163.017	162.884	165.930
Trade of government purchased capital equipment.....		FD	42322	156.015	150.893	151.539	150.538	150.115
Trade of exports.....		FD	4233	160.701	160.291	159.890	160.806	162.197
Final demand transportation and warehousing services.....		FD	422	156.424	155.666	154.440	153.473	150.838
Transportation of passengers for final demand.....		FD	4221	136.639	139.795	138.351	139.403	135.366
Transportation of private passengers.....		FD	42211	136.638	139.788	138.346	139.397	135.368
Transportation of government passengers.....		FD	42212	136.405	139.527	138.100	139.142	135.149
Transportation of passengers for export.....		FD	42213	136.654	139.835	138.378	139.438	135.368
Transportation and warehousing of goods for final demand.....		FD	4222	163.245	160.994	159.860	158.106	156.037
Transportation and warehousing of finished goods ²		FD	42221	162.121	159.604	158.349	156.521	154.332
Transportation and warehousing of personal consumption goods.....		FD	422211	162.309	159.916	158.694	156.894	154.736
Transportation and warehousing of private capital equipment.....		FD	422212	161.371	158.345	156.955	155.014	152.698
Transportation and warehousing of government purchased goods.....		FD	42222	159.863	158.487	157.830	156.341	154.534
Transportation and warehousing of exports.....		FD	42223	167.777	165.922	164.963	163.310	161.447
Final demand services less trade, transportation, and warehousing.....		FD	421	130.202	130.980	131.422	131.652	132.233
Finished services less trade, transportation, and warehousing ²		FD	4211	130.660	131.324	131.679	132.002	132.581
Finished consumer services less trade, transportation, and warehousing.....		FD	42111	129.951	130.638	131.029	131.366	132.028
Private capital investment services less trade, transportation, and warehousing.....		FD	42112	137.268	137.776	137.855	138.067	138.007
Government purchased services less trade, transportation, and warehousing.....		FD	4212	121.350	122.349	122.546	122.431	123.082
Gov. purchased services less trade, transportation, and warehousing, excl. capital investment.....		FD	42121	121.922	122.890	123.052	122.931	123.673
Government purchased capital investment services less trade, transportation, and warehousing.....		FD	42122	107.234	108.726	109.384	109.367	108.712
Services for export less trade, transportation, and warehousing.....		FD	4213	134.477	136.675	138.659	137.941	138.483
Final demand construction.....		FD	43	173.293	176.527	176.570	176.827	176.326
Construction for private capital investment.....		FD	431	177.474	180.849	180.865	181.081	180.588
Construction for government.....		FD	432	165.484	168.440	168.541	168.887	168.365
Final Demand Special Groupings								
Final demand less exports.....	04/10	FD	49101	138.281	138.833	138.844	138.307	138.662
Final demand less government.....	04/10	FD	49102	138.747	139.206	139.287	138.810	139.205
Final demand less foods, food and nonalcoholic beverages for immediate consumption, and energy ¹	04/10	FD	49103	138.026	138.258	138.597	138.586	138.939
Final demand less foods and energy ⁴	04/10	FD	49104	137.692	137.947	138.271	138.272	138.603
Final demand less foods and food and nonalcoholic beverages for immediate consumption ⁴	04/10	FD	49105	138.120	138.832	139.069	138.464	138.868

See footnotes at end of table.

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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	Dec. 2022	Jan. 2023 ^P	Feb. 2023 ^P	Mar. 2023 ^P	Apr. 2023 ^P
Final demand less foods ⁴	04/10	FD	49106	137.735	138.440	138.668	138.108	138.488
Final demand less energy.....	04/10	FD	49107	138.527	138.652	138.758	138.784	139.055
Final demand less trade services.....	01/10	FD	49108	136.384	137.442	137.401	136.923	137.167
Final demand less distributive services ⁵	01/10	FD	49109	135.392	136.597	136.603	136.179	136.522
Final demand goods less energy.....	01/10	FD	49111	141.257	141.479	141.049	141.374	141.402
Final demand goods less foods.....	04/10	FD	49112	137.212	139.775	139.823	137.936	138.379
Final demand services less trade services.....	04/10	FD	49113	131.515	132.143	132.424	132.540	132.815
Final demand distributive services ⁵	04/10	FD	49114	151.139	149.328	149.452	148.637	148.887
Final demand goods plus final demand distributive services ⁵	04/10	FD	49115	144.434	144.689	144.408	143.205	143.450
Final demand less foods, energy, and trade services ⁴	08/13	FD	49116	126.154	126.878	127.174	127.332	127.558
Private and government purchased capital equipment.....	08/13	FD	49117	125.575	126.377	126.635	127.101	127.209
Private and government purchased capital investment services.....	08/13	FD	49118	133.640	132.210	132.210	132.413	132.150
Total private and government purchased capital investment.....	08/13	FD	49119	133.222	133.199	133.299	133.602	133.450
Total finished ²	01/10	FD	49201	139.212	139.650	139.719	139.212	139.658
Total finished less foods, food and nonalcoholic beverages for immediate consumption, and energy ^{2, 4}	12/10	FD	49202	137.428	137.546	137.852	137.860	138.192
Total finished less foods and energy ^{2, 4}	01/10	FD	49203	138.246	138.373	138.685	138.695	139.029
Total finished less foods and food and nonalcoholic beverages for immediate consumption ^{2, 4}	12/10	FD	49204	136.998	137.554	137.839	137.241	137.751
Total finished less foods ^{2, 4}	01/10	FD	49205	138.360	138.929	139.220	138.621	139.136
Total finished less energy ²	01/10	FD	49206	139.170	139.179	139.254	139.328	139.599
Finished goods ²	00/82	FD	49207	254.047	257.715	256.703	253.364	254.532
Finished goods less energy ²	00/82	FD	49208	250.802	251.077	249.772	250.805	250.543
Finished goods, excluding foods ^{2, 4}	00/82	FD	49209	247.573	253.180	253.775	249.015	250.867
Finished services ²	01/10	FD	49210	136.943	136.825	137.111	137.049	137.448
Private capital investment services.....	04/10	FD	49211	143.769	142.272	142.234	142.498	142.230
Finished distributive services ^{2, 5}	04/10	FD	49212	149.552	147.622	147.844	146.907	147.136
Finished services less trade services ²	04/10	FD	49213	131.371	131.913	132.145	132.368	132.702
Finished services less distributive services ^{2, 5}	04/10	FD	49214	129.939	130.652	130.966	131.302	131.775
Total private capital investment (goods, services, and construction).....	04/10	FD	49215	141.205	141.099	141.180	141.527	141.382
Finished goods plus finished distributive services ²	04/10	FD	49216	145.464	145.573	145.386	143.969	144.418
Total exports.....	04/10	FD	49301	139.623	140.196	140.348	140.039	140.143
Goods for export.....	00/82	FD	49302	234.872	235.580	235.312	234.749	234.910
Services for export.....	04/10	FD	49303	147.856	148.684	149.268	148.976	149.096
Total government purchases.....	04/10	FD	49401	136.013	137.711	137.157	136.296	135.784
Government purchased goods.....	00/82	FD	49402	234.963	240.297	237.647	234.431	231.346
Government purchased services.....	04/10	FD	49403	130.462	130.846	131.016	130.805	131.379
Total government purchased capital investment (goods, services, construction).....	08/13	FD	49404	130.760	131.289	131.547	131.672	131.413
Government purchases, defense.....	05/15	FD	49405	122.844	124.441	123.767	123.206	121.700
Government purchases, non-defense.....	05/15	FD	49406	130.538	132.117	131.633	130.722	130.700
Personal consumption.....	01/10	FD	49501	138.668	139.234	139.301	138.600	139.181
Personal consumption goods (finished consumer goods).....	00/82	FD	49502	273.662	278.196	276.550	271.394	272.986
Personal consumption goods less energy.....	00/82	FD	49503	273.188	272.665	270.268	271.424	270.872
Personal consumption goods less foods.....	00/82	FD	49504	270.664	278.700	279.390	271.185	274.057
Personal consumption nondurable goods less foods.....	00/82	FD	49508	305.935	317.355	318.221	306.176	310.431
Personal consumption services.....	04/10	FD	49505	135.372	135.469	135.804	135.692	136.192
Personal consumption less trade services.....	04/10	FD	49506	135.115	136.139	136.090	135.508	136.041
Personal consumption less distributive services ⁵	04/10	FD	49507	134.364	135.518	135.510	134.970	135.600
Personal consumption less foods and energy.....	04/14	FD	49510	126.793	126.969	127.312	127.239	127.665
Personal consumption less foods, energy, and trade services ³	04/14	FD	49511	123.103	123.706	124.004	124.234	124.577
Personal consumption less foods, energy, and distributive services ⁵	04/14	FD	49512	122.491	123.220	123.582	123.895	124.340
Personal consumption goods plus personal consumption distributive services ⁵	08/13	FD	49509	134.135	134.518	134.272	132.482	133.046
Intermediate Demand by Commodity Type								
Processed goods								
Processed goods for intermediate demand.....	00/82	ID6	1	261.622	264.503	263.232	260.950	260.015
Materials and components for manufacturing.....	00/82	ID6	11	236.948	236.771	236.342	236.000	236.775
Materials for manufacturing.....		ID6	111	149.728	149.072	148.438	147.933	148.491
Materials for food manufacturing.....	00/82	ID6	1111	260.262	260.866	254.759	254.780	251.890
Materials for nondurable manufacturing.....	00/82	ID6	1112	279.782	278.957	275.886	273.989	274.125
Materials for durable manufacturing.....	00/82	ID6	1113	281.260	278.733	282.121	281.892	285.819
Components for manufacturing.....	00/82	ID6	112	185.345	186.382	186.814	187.160	187.620
Components for nondurable manufacturing.....		ID6	1121	147.914	147.445	147.379	146.894	147.276
Components for durable manufacturing.....		ID6	1122	130.635	131.425	131.749	132.028	132.352
Materials and components for construction.....	00/82	ID6	12	349.119	349.236	349.265	350.946	351.111
Materials for construction.....		ID6	121	166.392	165.444	165.738	165.981	166.180
Components for construction.....		ID6	122	177.204	178.085	177.862	179.189	179.171
Processed fuels and lubricants for intermediate demand.....	00/82	ID6	13	261.502	275.384	270.792	259.813	253.919
Processed fuels and lubricants to manufacturing industries.....	00/82	ID6	131	274.315	282.031	271.285	268.988	259.678

See footnotes at end of table.

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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	Dec. 2022	Jan. 2023 ^P	Feb. 2023 ^P	Mar. 2023 ^P	Apr. 2023 ^P
Processed fuels and lubricants to nonmanufacturing industries.....	00/82	ID6	132	257.765	273.550	270.861	257.184	252.343
Containers for intermediate demand.....	00/82	ID6	14	314.975	314.404	313.859	312.149	311.677
Supplies for intermediate demand.....	00/82	ID6	15	252.603	253.475	252.913	252.871	252.371
Supplies to manufacturing industries.....	00/82	ID6	151	247.944	247.383	247.245	247.176	247.187
Supplies to nonmanufacturing industries.....	00/82	ID6	152	251.323	252.409	251.785	251.748	251.172
Supplies to nonmanufacturing industries, feeds.....	00/82	ID6	1521	255.506	254.125	248.408	244.439	240.661
Supplies to nonmanufacturing industries, other than feeds.....	00/82	ID6	1522	252.903	254.218	254.247	254.717	254.550
Unprocessed goods								
Unprocessed goods for intermediate demand.....	00/82	ID6	2	295.882	282.189	268.759	257.784	262.120
Unprocessed foodstuffs and feedstuffs.....	00/82	ID6	21	255.975	241.143	238.718	237.180	233.891
Unprocessed nonfood materials.....	00/82	ID6	22	312.297	299.774	279.288	262.244	271.653
Unprocessed nonfood materials except fuel.....	00/82	ID6	221	328.779	330.741	336.897	323.396	347.467
Unprocessed nonfood materials except fuel to manufacturing industries.....	00/82	ID6	2211	304.903	306.373	312.263	299.193	322.293
Unprocessed nonfood materials except fuel to nonmanufacturing industries.....	00/82	ID6	2212	331.393	342.553	344.310	344.228	349.390
Unprocessed fuel.....	00/82	ID6	222	266.390	226.895	157.013	134.083	115.322
Unprocessed fuel to manufacturing industries.....	00/82	ID6	2221	273.341	262.832	238.352	229.467	224.540
Unprocessed fuel to nonmanufacturing industries.....	00/82	ID6	2222	273.598	231.385	157.016	132.662	112.606
Services								
Services for intermediate demand.....		ID6	3	142.892	144.254	144.719	144.457	145.431
Trade services for intermediate demand ⁵		ID6	33	168.640	169.895	169.336	170.969	173.460
Trade services for manufacturing industries.....	12/12	ID6	331	153.102	156.218	155.501	158.639	161.065
Trade services for nonmanufacturing industries.....	12/12	ID6	332	151.010	150.233	149.933	149.816	151.888
Transportation and warehousing services for intermediate demand.....		ID6	32	157.095	157.642	157.519	156.504	155.204
Transportation of passengers for intermediate demand.....		ID6	321	136.468	139.589	138.162	139.204	135.212
Transportation of passengers for manufacturing industries.....		ID6	3211	136.630	139.809	138.353	139.412	135.345
Transportation of passengers for nonmanufacturing industries.....		ID6	3212	136.509	139.625	138.201	139.241	135.257
Transportation and warehousing of goods for intermediate demand.....		ID6	322	159.338	159.655	159.654	158.444	157.395
Transportation and warehousing of goods for manufacturing industries.....	12/12	ID6	3221	135.475	134.200	133.683	132.656	131.312
Transportation and warehousing of goods for nonmanufacturing industries.....	12/12	ID6	3222	141.436	142.178	142.328	141.254	140.454
Services less trade, transportation, and warehousing for intermediate demand.....		ID6	31	133.399	134.922	135.713	135.178	136.229
Services less trade, transportation, and warehousing for manufacturing industries.....		ID6	311	125.062	126.514	126.907	127.117	127.773
Services less trade, transportation, and warehousing for nonmanufacturing industries.....		ID6	312	133.665	135.190	135.995	135.434	136.499
Construction								
Construction for intermediate demand.....		ID6	4	141.372	142.459	142.747	143.366	144.500
Intermediate Demand by Commodity Type Special Groupings								
Processed materials less foods and feeds.....	00/82	ID6	9111	262.335	265.451	264.584	262.140	261.413
Processed foods and feeds.....	00/82	ID6	9112	254.931	255.510	250.278	249.595	246.622
Processed energy goods.....	00/82	ID6	9113	262.716	276.662	272.049	261.019	255.097
Processed materials less energy.....	00/82	ID6	9118	258.201	258.357	257.921	257.816	258.117
Processed materials less foods and energy.....	00/82	ID6	9115	258.136	258.225	258.408	258.377	259.099
Intermediate distributive services ⁶	04/10	ID6	9116	162.178	163.031	162.719	163.112	164.053
Processed goods plus intermediate distributive services.....	04/10	ID6	9117	147.607	148.970	148.382	147.587	147.473
Unprocessed materials less agricultural products.....	00/82	ID6	9211	315.531	301.013	277.649	260.137	270.458
Unprocessed energy materials ⁷	00/82	ID6	9212	258.464	239.392	212.898	191.825	201.761
Unprocessed materials less energy.....	00/82	ID6	9213	305.060	296.210	294.831	292.941	292.471
Unprocessed nonfood materials less energy ⁸	00/82	ID6	9216	449.759	459.701	461.557	458.623	466.844
Intermediate Demand by Production Flow								
Stage 4 Intermediate Demand								
Stage 4 intermediate demand.....		ID5	4	146.305	147.755	147.812	147.506	148.130
Inputs to stage 4 goods producers.....		ID5	41	145.737	146.378	146.258	146.736	147.178
Goods.....		ID5	411	140.600	140.668	140.762	140.328	140.341
Foods.....		ID5	4111	157.994	157.960	156.175	152.862	152.399
Energy.....		ID5	4112	179.883	173.292	172.173	179.121	160.147
Goods excluding foods and energy.....		ID5	4113	137.688	137.826	138.218	138.161	138.407
Services.....		ID5	412	162.871	165.357	164.537	168.002	169.853
Trade services.....		ID5	4123	173.458	176.522	175.331	180.279	182.838
Transportation and warehousing services.....		ID5	4122	139.854	139.975	138.865	138.211	136.904
Transportation of passengers.....		ID5	41221	136.653	139.835	138.377	139.437	135.367
Transportation and warehousing of goods.....		ID5	41222	149.743	149.267	148.153	147.118	146.269
Services less trade, transportation, and warehousing.....		ID5	4121	126.552	127.759	128.175	128.333	128.966
Inputs to stage 4 services producers.....		ID5	42	142.432	144.374	144.518	143.767	144.464

See footnotes at end of table.

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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	Dec. 2022	Jan. 2023 ^P	Feb. 2023 ^P	Mar. 2023 ^P	Apr. 2023 ^P
Goods.....		ID5	421	146.063	148.688	147.917	146.830	145.998
Foods.....		ID5	4211	150.655	150.773	148.426	148.672	146.381
Energy.....		ID5	4212	142.193	148.512	147.179	143.214	142.079
Goods excluding foods and energy.....		ID5	4213	146.216	147.294	147.342	147.521	147.322
Services.....		ID5	422	140.978	142.721	143.170	142.530	143.735
Trade services.....		ID5	4223	158.559	159.460	158.622	159.513	161.860
Transportation and warehousing services.....		ID5	4222	149.218	151.638	152.195	151.626	150.657
Transportation of passengers.....		ID5	42221	136.121	139.273	137.830	138.880	134.849
Transportation and warehousing of goods.....		ID5	42222	152.056	154.367	155.272	154.421	153.977
Services less trade, transportation, and warehousing.....		ID5	4221	137.238	138.984	139.559	138.750	140.047
Construction.....		ID5	423	141.372	142.459	142.747	143.366	144.500
Inputs to stage 4 construction producers.....		ID5	43	161.303	162.426	162.513	162.309	163.027
Goods.....		ID5	431	165.435	166.796	167.026	166.477	167.192
Energy.....		ID5	4312	159.881	170.397	171.183	157.298	163.469
Goods excluding foods and energy.....		ID5	4313	169.826	170.296	170.476	171.233	171.425
Services.....		ID5	432	150.698	151.205	150.943	151.584	152.310
Trade services.....		ID5	4323	167.012	169.012	168.548	170.826	172.605
Transportation and warehousing services.....		ID5	4322	156.692	154.317	152.908	151.183	149.077
Transportation of passengers.....		ID5	43221	142.444	145.755	144.238	145.341	141.106
Transportation and warehousing of goods.....		ID5	43222	157.863	155.342	153.928	152.125	150.060
Services less trade, transportation, and warehousing.....		ID5	4321	129.000	129.393	129.746	129.854	130.719
Stage 3 Intermediate Demand								
Stage 3 intermediate demand.....		ID5	3	148.987	149.322	148.886	148.068	147.915
Inputs to stage 3 goods producers.....		ID5	31	162.575	160.413	159.861	160.043	159.752
Goods.....		ID5	311	159.712	156.454	155.882	155.756	155.122
Foods.....		ID5	3111	189.098	178.874	175.796	175.567	172.027
Energy.....		ID5	3112	153.779	155.556	151.838	153.702	147.467
Goods excluding foods and energy.....		ID5	3113	151.966	151.312	151.963	151.766	152.660
Services.....		ID5	312	162.630	164.830	164.394	165.731	166.752
Trade services.....		ID5	3123	166.057	170.842	170.571	173.822	176.551
Transportation and warehousing services.....		ID5	3122	157.523	155.620	154.453	153.050	151.156
Transportation of passengers.....		ID5	31221	145.496	148.882	147.331	148.459	144.127
Transportation and warehousing of goods.....		ID5	31222	157.960	155.771	154.627	153.085	151.329
Services less trade, transportation, and warehousing.....		ID5	3121	130.097	131.470	131.940	132.155	133.055
Inputs to stage 3 services producers.....		ID5	32	137.907	140.084	139.757	138.211	138.156
Goods.....		ID5	321	133.523	140.410	137.320	132.553	128.496
Foods.....		ID5	3211	161.754	165.552	162.686	161.128	156.981
Energy.....		ID5	3212	138.051	149.169	143.997	136.141	129.613
Goods excluding foods and energy.....		ID5	3213	136.138	136.590	136.725	136.672	136.418
Services.....		ID5	322	138.894	139.894	140.279	139.544	140.515
Trade services.....		ID5	3223	191.580	189.371	191.630	189.120	192.403
Transportation and warehousing services.....		ID5	3222	161.027	162.485	162.739	161.547	160.811
Transportation of passengers.....		ID5	32221	104.488	104.461	104.461	104.612	104.349
Transportation and warehousing of goods.....		ID5	32222	161.521	162.986	163.242	162.043	161.304
Services less trade, transportation, and warehousing.....		ID5	3221	130.154	131.214	131.522	131.017	132.320
Construction.....		ID5	323	141.372	142.459	142.747	143.366	144.500
Inputs to stage 3 construction producers.....		ID5	33	140.365	139.748	138.270	138.106	138.182
Goods.....		ID5	331	135.705	135.073	134.905	134.437	134.203
Goods excluding foods and energy.....		ID5	3313	172.920	172.116	171.901	171.304	171.007
Services.....		ID5	332	164.206	163.805	160.616	160.780	161.225
Trade services.....		ID5	3323	168.924	168.347	164.816	165.013	165.446
Transportation and warehousing services.....		ID5	3322	115.318	115.798	115.395	115.036	115.078
Transportation and warehousing of goods.....		ID5	33222	121.723	122.230	121.804	121.425	121.469
Services less trade, transportation, and warehousing.....		ID5	3321	121.955	124.394	124.407	124.411	125.246
Stage 2 Intermediate Demand								
Stage 2 intermediate demand.....		ID5	2	140.847	139.425	137.418	134.351	135.928
Inputs to stage 2 goods producers.....		ID5	21	136.226	132.654	127.644	123.069	125.316
Goods.....		ID5	211	137.143	132.085	125.151	119.032	121.560
Foods.....		ID5	2111	175.423	171.161	169.739	164.758	163.996
Energy.....		ID5	2112	114.025	106.113	95.067	85.690	89.463
Goods excluding foods and energy.....		ID5	2113	146.310	146.772	146.981	147.395	148.075
Services.....		ID5	212	146.823	147.822	148.646	148.674	150.229
Trade services.....		ID5	2123	164.707	164.986	164.306	165.329	169.693
Transportation and warehousing services.....		ID5	2122	167.086	167.680	168.572	168.280	167.195
Transportation of passengers.....		ID5	21221	136.996	140.050	138.658	139.680	135.776
Transportation and warehousing of goods.....		ID5	21222	168.818	169.339	170.344	169.987	169.037
Services less trade, transportation, and warehousing.....		ID5	2121	130.772	133.190	135.843	135.031	136.170
Construction.....		ID5	213	141.372	142.459	142.747	143.366	144.500

See footnotes at end of table.

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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	Dec. 2022	Jan. 2023 ^P	Feb. 2023 ^P	Mar. 2023 ^P	Apr. 2023 ^P
Inputs to stage 2 services producers.....		ID5	22	141.690	143.012	144.837	143.768	144.450
Goods.....		ID5	221	146.250	147.330	146.857	146.097	145.746
Foods.....		ID5	2211	130.684	128.855	125.852	122.091	120.853
Energy.....		ID5	2212	170.176	183.673	180.738	168.103	164.150
Goods excluding foods and energy.....		ID5	2213	145.207	145.513	145.232	145.283	145.178
Services.....		ID5	222	140.720	142.076	144.212	143.071	143.868
Trade services.....		ID5	2223	191.446	183.363	183.360	176.663	177.863
Transportation and warehousing services.....		ID5	2222	154.194	151.803	150.231	147.899	145.737
Transportation of passengers.....		ID5	22221	137.070	140.239	138.789	139.845	135.792
Transportation and warehousing of goods.....		ID5	22222	157.945	154.525	152.924	149.959	148.138
Services less trade, transportation, and warehousing.....		ID5	2221	138.197	140.286	142.812	142.016	143.017
Construction.....		ID5	223	141.372	142.459	142.747	143.366	144.500
Stage 1 Intermediate Demand								
Stage 1 intermediate demand.....		ID5	1	145.774	146.921	146.396	145.852	145.910
Inputs to stage 1 goods producers.....		ID5	11	148.555	149.391	148.894	148.176	148.012
Goods.....		ID5	111	148.992	149.036	148.507	147.075	146.342
Foods.....		ID5	1111	171.021	170.405	168.970	161.538	160.206
Energy.....		ID5	1112	141.624	145.077	142.721	140.335	132.584
Goods excluding foods and energy.....		ID5	1113	150.841	150.201	150.238	150.003	150.991
Services.....		ID5	112	151.101	154.174	153.755	155.039	156.484
Trade services.....		ID5	1123	165.222	170.264	169.047	171.716	173.835
Transportation and warehousing services.....		ID5	1122	157.910	157.790	158.688	158.360	156.976
Transportation of passengers.....		ID5	11221	136.627	139.808	138.351	139.410	135.341
Transportation and warehousing of goods.....		ID5	11222	161.472	160.462	161.928	161.263	160.554
Services less trade, transportation, and warehousing.....		ID5	1121	107.744	108.323	108.773	108.359	109.141
Construction.....		ID5	113	141.372	142.459	142.747	143.366	144.500
Inputs to stage 1 services producers.....		ID5	12	142.986	144.481	144.057	143.489	143.767
Goods.....		ID5	121	147.789	150.914	149.659	147.905	147.195
Foods.....		ID5	1211	229.169	223.785	187.370	199.063	205.030
Energy.....		ID5	1212	163.798	172.069	168.225	161.983	158.704
Goods excluding foods and energy.....		ID5	1213	147.744	148.745	148.872	149.025	149.429
Services.....		ID5	122	140.279	141.113	141.039	140.970	141.661
Trade services.....		ID5	1223	169.573	168.851	170.227	170.263	172.131
Transportation and warehousing services.....		ID5	1222	143.181	145.168	144.590	144.321	142.478
Transportation of passengers.....		ID5	12221	136.545	139.724	138.268	139.327	135.260
Transportation and warehousing of goods.....		ID5	12222	161.971	163.552	163.378	162.376	161.514
Services less trade, transportation, and warehousing.....		ID5	1221	135.371	136.173	136.025	135.975	136.901
Construction.....		ID5	123	141.372	142.459	142.747	143.366	144.500
Inputs to stage 1 construction producers.....		ID5	13	162.512	163.010	161.885	161.913	161.564
Goods.....		ID5	131	164.062	165.319	164.601	164.471	163.892
Energy.....		ID5	1312	156.309	165.986	159.505	152.648	145.264
Goods excluding foods and energy.....		ID5	1313	167.676	167.958	167.906	168.566	168.779
Services.....		ID5	132	159.485	158.400	156.296	156.701	156.898
Trade services.....		ID5	1323	164.805	164.720	162.245	163.424	164.455
Transportation and warehousing services.....		ID5	1322	131.419	128.605	127.489	125.789	123.710
Transportation and warehousing of goods.....		ID5	13222	135.936	133.025	131.871	130.113	127.962
Services less trade, transportation, and warehousing.....		ID5	1321	135.241	136.039	135.804	136.423	137.167
Intermediate Demand by Production Flow Special Groupings								
Total goods inputs to stage 4 intermediate demand.....	04/10	ID5	9411	144.137	145.236	145.100	144.459	144.362
Total services inputs to stage 4 intermediate demand.....	04/10	ID5	9412	144.648	146.400	146.626	146.633	147.889
Total construction inputs to stage 4 intermediate demand.....	04/10	ID5	9413	140.201	141.279	141.565	142.178	143.303
Total foods inputs to stage 4 intermediate demand.....	04/10	ID5	9414	151.442	151.477	149.494	147.753	146.530
Total energy goods inputs to stage 4 intermediate demand.....	04/10	ID5	9415	134.243	140.265	139.354	134.590	134.092
Total goods less foods and energy inputs to stage 4 intermediate demand.....	04/10	ID5	9416	145.677	146.091	146.359	146.542	146.682
Total goods inputs to stage 3 intermediate demand.....	04/10	ID5	9311	145.265	144.653	143.504	142.256	140.830
Total services inputs to stage 3 intermediate demand.....	04/10	ID5	9312	141.978	143.147	143.359	142.980	143.947
Total construction inputs to stage 3 intermediate demand.....	04/10	ID5	9313	140.201	141.279	141.565	142.178	143.303
Total foods inputs to stage 3 intermediate demand.....	04/10	ID5	9314	168.099	159.107	156.368	156.154	152.999
Total energy goods inputs to stage 3 intermediate demand.....	04/10	ID5	9315	137.782	147.287	142.423	136.126	129.763
Total goods less foods and energy inputs to stage 3 intermediate demand.....	04/10	ID5	9316	143.495	143.032	143.562	143.388	144.049
Total goods inputs to stage 2 intermediate demand.....	04/10	ID5	9211	131.425	127.211	121.243	115.942	118.067
Total services inputs to stage 2 intermediate demand.....	04/10	ID5	9212	142.633	143.906	145.738	144.870	145.850
Total construction inputs to stage 2 intermediate demand.....	04/10	ID5	9213	140.201	141.279	141.565	142.178	143.303
Total foods inputs to stage 2 intermediate demand.....	04/10	ID5	9214	175.890	171.630	170.171	165.177	164.402
Total energy goods inputs to stage 2 intermediate demand.....	04/10	ID5	9215	112.271	104.750	94.019	84.801	88.414
Total goods less foods and energy inputs to stage 2 intermediate demand.....	04/10	ID5	9216	137.719	138.120	138.210	138.521	138.991
Total goods inputs to stage 1 intermediate demand.....	04/10	ID5	9111	134.288	135.419	134.705	133.532	132.911

See footnotes at end of table.

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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	Dec. 2022	Jan. 2023 ^p	Feb. 2023 ^p	Mar. 2023 ^p	Apr. 2023 ^p
Total services inputs to stage 1 intermediate demand.....	04/10	ID5	9112	142.677	143.749	143.480	143.678	144.463
Total construction inputs to stage 1 intermediate demand.....	04/10	ID5	9117	140.201	141.279	141.565	142.178	143.303
Total foods inputs to stage 1 intermediate demand.....	04/10	ID5	9114	162.192	161.492	159.326	152.784	151.702
Total energy goods inputs to stage 1 intermediate demand.....	04/10	ID5	9115	148.862	154.977	151.629	147.065	141.802
Total goods less foods and energy inputs to stage 1 intermediate demand.....	04/10	ID5	9116	127.121	127.179	127.217	127.274	127.813

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.

p Preliminary

"/" Data not available.