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

PRODUCER PRICE INDEXES – JULY 2022

The Producer Price Index for final demand fell 0.5 percent in July, seasonally adjusted, the U.S. Bureau of Labor Statistics reported today. This decline followed advances of 1.0 percent in June and 0.8 percent in May. (See table A.) On an unadjusted basis, final demand prices moved up 9.8 percent for the 12 months ended in July.

In July, the decrease in the index for final demand is attributable to a 1.8-percent decline in prices for final demand goods. In contrast, the index for final demand services advanced 0.1 percent.

Prices for final demand less foods, energy, and trade services moved up 0.2 percent in July following a 0.3-percent rise in June. For the 12 months ended in July, the index for final demand less foods, energy, and trade services increased 5.8 percent.

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

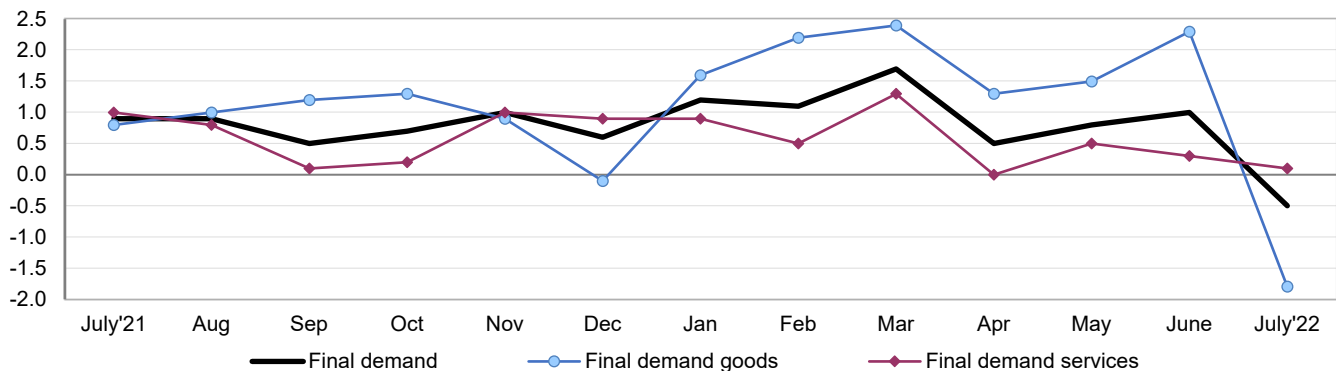
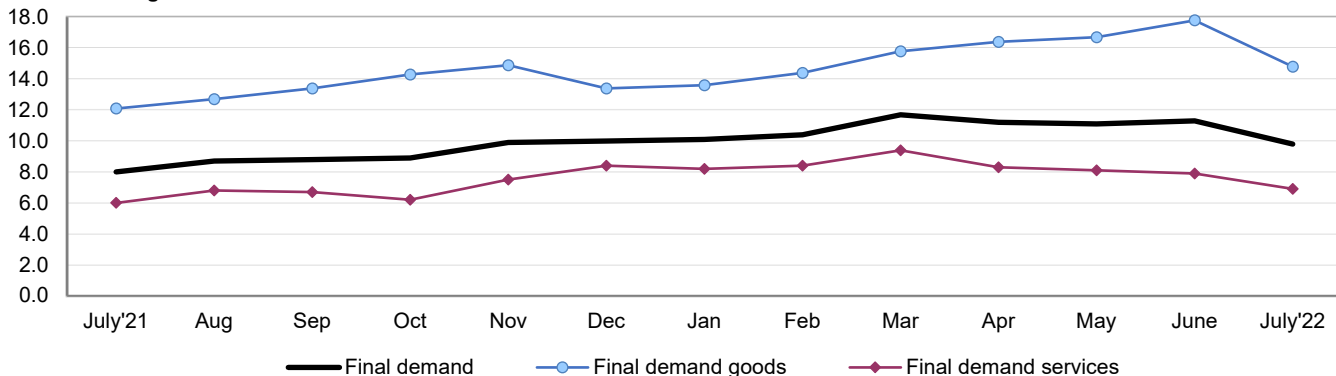


Chart 2. Twelve-month percent changes in selected PPI final demand price indexes, not seasonally adjusted
 Percent change



Final Demand

Final demand goods: The index for final demand goods fell 1.8 percent in July, the largest decline since moving down 2.7 percent in April 2020. The July decrease can be traced to a 9.0-percent drop in prices for final demand energy. Conversely, the indexes for final demand foods and for final demand goods less foods and energy rose 1.0 percent and 0.2 percent, respectively.

Product detail: Eighty percent of the July decline in the index for final demand goods is attributable to gasoline prices, which fell 16.7 percent. The indexes for diesel fuel, gas fuels, oilseeds, iron and steel scrap, and grains also moved lower. In contrast, prices for chicken eggs jumped 43.1 percent. The indexes for industrial chemicals and for electric power also increased. (See table 2.)

Final demand services: The index for final demand services inched up 0.1 percent in July, the third consecutive increase. Leading the July advance, margins for final demand trade services rose 0.3 percent. (Trade indexes measure changes in margins received by wholesalers and retailers.) Prices for final demand transportation and warehousing services moved up 0.4 percent. Conversely, final demand services less trade, transportation, and warehousing decreased 0.1 percent.

Product detail: Leading the July increase in prices for final demand services, margins for fuels and lubricants retailing rose 12.3 percent. The indexes for services related to securities brokerage and dealing (partial), hospital outpatient care, automobiles and automobile parts retailing, and transportation of passengers (partial) also moved higher. In contrast, prices for portfolio management declined 7.9 percent. The indexes for securities brokerage, dealing, and investment advice; food and alcohol retailing; and long-distance motor carrying also fell.

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		
2021												
July....	0.9	0.7	0.8	-0.9	2.2	0.8	1.0	1.7	2.5	0.5	8.0	6.0
Aug....	0.9	0.4	1.0	2.1	1.3	0.6	0.8	2.1	0.8	0.2	8.7	6.2
Sept...	0.5	0.3	1.2	2.1	2.5	0.6	0.1	0.0	-1.0	0.3	8.8	6.1
Oct....	0.7	0.4	1.3	-0.1	5.0	0.7	0.2	0.5	1.1	-0.1	8.9	6.2
Nov....	1.0	0.8	0.9	1.3	0.9	0.8	1.0	1.3	2.8	0.6	9.9	7.0
Dec....	0.6	0.4	-0.1	-0.2	-1.4	0.4	0.9	1.9	1.6	0.3	10.0	7.0
2022												
Jan.. . .	1.2	0.8	1.6	1.8	4.1	0.8	0.9	1.3	0.0	0.8	10.1	6.9
Feb....	1.1	0.2	2.2	1.9	7.2	0.8	0.5	1.7	2.0	-0.3	10.4	6.7
Mar. ¹ ..	1.7	1.0	2.4	2.4	6.6	1.1	1.3	2.3	5.6	0.4	11.7	7.1
Apr. ¹ ..	0.5	0.4	1.3	1.5	1.6	1.1	0.0	0.2	2.1	-0.3	11.2	6.7
May ¹ ..	0.8	0.5	1.5	0.5	4.8	0.7	0.5	0.7	2.6	0.1	11.1	6.7
June ¹ ..	1.0	0.3	2.3	-0.2	9.4	0.4	0.3	0.5	0.7	0.2	11.3	6.4
July....	-0.5	0.2	-1.8	1.0	-9.0	0.2	0.1	0.3	0.4	-0.1	9.8	5.8

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

Intermediate Demand by Commodity Type

Within intermediate demand in July, prices for processed goods decreased 2.3 percent, the index for unprocessed goods fell 12.4 percent, and prices for services advanced 0.1 percent. (See tables B and C.)

Processed goods for intermediate demand: The index for processed goods for intermediate demand fell 2.3 percent in July, the largest decline since moving down 3.4 percent in April 2020. Most of the broad-based decrease in July can be traced to a 9.0-percent drop in prices for processed energy goods. The indexes for processed materials less foods and energy and for processed foods and feeds also moved lower, 0.2 percent and 0.1 percent, respectively. For the 12 months ended in July, prices for processed goods for intermediate demand increased 17.4 percent.

Product detail: Over half of the July decline in the index for processed goods for intermediate demand is attributable to a 16.6-percent decrease in prices for diesel fuel. The indexes for gasoline; utility natural gas; cold rolled steel sheet and strip; liquefied petroleum gas; and shortening, cooking oil, and margarine also fell. Conversely, prices for industrial chemicals advanced 1.9 percent. The indexes for commercial electric power and for beef and veal also moved higher.

Unprocessed goods for intermediate demand: Prices for unprocessed goods for intermediate demand fell 12.4 percent, the largest decline since moving down 14.4 percent in April 2020. Most of the broad-based decrease in July is attributable to a 21.2-percent drop in the index for unprocessed energy goods. Prices for unprocessed nonfood materials less energy and for unprocessed foodstuffs and feedstuffs also declined, 6.9 percent and 0.8 percent, respectively. For the 12 months ended in July, the index for unprocessed goods for intermediate demand increased 27.5 percent.

Product detail: Over half of the July decrease in prices for unprocessed goods for intermediate demand can be traced to a 27.6-percent decline in the index for natural gas. Prices for crude petroleum, grains, iron and steel scrap, oilseeds, and nonferrous metal ores also fell. In contrast, the index for slaughter hogs jumped 23.2 percent. Prices for coal and for recyclable paper also rose.

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.)
2021										
July.....	1.6	-0.6	3.4	1.4	23.1	3.2	-1.0	9.7	0.6	56.0
Aug.....	1.0	1.5	0.0	1.1	23.0	1.4	3.0	0.2	1.4	52.5
Sept.....	1.2	1.5	2.1	0.9	23.8	2.8	0.8	8.0	-1.8	48.5
Oct.....	2.4	-0.4	6.7	1.6	25.7	6.0	-2.2	17.7	-1.5	55.5
Nov.....	1.5	0.1	2.5	1.4	26.6	2.3	1.3	2.3	3.4	49.6
Dec.....	-0.1	0.1	-2.7	0.6	24.4	-4.8	3.8	-12.1	-1.8	40.0
2022										
Jan.....	2.2	2.6	4.7	1.5	24.8	3.1	2.9	4.2	1.1	36.4
Feb.....	1.5	2.1	5.8	0.4	23.3	9.8	5.4	18.2	1.5	33.5
Mar. ¹	2.3	2.1	7.3	0.9	22.1	2.9	7.7	-4.3	9.7	43.3
Apr. ¹	2.1	3.2	4.9	1.2	22.1	5.5	4.2	9.3	1.3	50.1
May ¹	2.3	1.1	4.5	1.7	21.7	5.4	0.2	14.6	-4.2	46.4
June ¹	2.1	-0.1	9.2	0.1	22.1	4.5	-0.4	10.5	-2.3	49.8
July.....	-2.3	-0.1	-9.0	-0.2	17.4	-12.4	-0.8	-21.2	-6.9	27.5

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Services for intermediate demand: The index for services for intermediate demand edged up 0.1 percent in July after a 0.3-percent decline in June. Leading the increase, prices for transportation and warehousing services for intermediate demand rose 0.9 percent. The index for services less trade, transportation, and warehousing for intermediate demand moved up 0.1 percent. Conversely, margins for trade services for intermediate demand decreased 0.4 percent. For the 12 months ended in July, the index for services for intermediate demand advanced 5.7 percent.

Product detail: Within the index for services for intermediate demand in July, prices for courier, messenger, and U.S. postal services rose 2.2 percent. The indexes for business loans (partial), services related to securities brokerage and dealing (partial), fuels and lubricants retailing, and bundled wired telecommunications access services also advanced. In contrast, margins for machinery and equipment parts and supplies wholesaling decreased 1.6 percent. Prices for portfolio management; securities brokerage, dealing, and investment advice; and for services related to air transportation also declined.

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

Month	Services for intermediate demand				Total, change from 12 months ago (unadj.)
	Total	Trade	Transportation and warehousing	Other	
2021					
July.....	0.6	1.1	0.7	0.4	9.5
Aug.....	0.4	1.9	0.8	-0.2	9.0
Sept.....	0.3	-1.2	2.5	0.4	8.2
Oct.....	0.0	0.6	0.5	-0.3	7.4
Nov.....	0.6	-0.6	1.0	0.9	8.1
Dec.....	0.8	1.5	1.6	0.5	8.3
2022					
Jan.....	0.8	1.4	0.6	0.6	7.9
Feb.....	0.2	1.4	0.4	-0.2	7.8
Mar. ¹	1.3	4.4	2.1	0.0	8.4
Apr. ¹	0.9	1.0	1.8	0.6	8.0
May ¹	0.5	0.6	0.7	0.4	7.8
June ¹	-0.3	-0.8	0.0	-0.2	6.3
July.....	0.1	-0.4	0.9	0.1	5.7

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Intermediate Demand by Production Flow

Stage 4 intermediate demand: Prices for stage 4 intermediate demand fell 0.6 percent in July, the first decline since dropping 1.7 percent in April 2020. In July, the index for total goods inputs to stage 4 intermediate demand decreased 0.9 percent, and prices for total services inputs moved down 0.4 percent. (See table D.) Declines in the indexes for gasoline; portfolio management; diesel fuel; machinery and equipment parts and supplies wholesaling; grains; and securities brokerage, dealing, and investment advice outweighed increases in prices for services related to securities brokerage and dealing (partial), business loans (partial), and beef and veal. For the 12 months ended in July, the index for stage 4 intermediate demand rose 8.9 percent.

Stage 3 intermediate demand: The index for stage 3 intermediate demand declined 1.2 percent in July, the first decrease since a 5.4-percent drop in April 2020. In July, prices for total goods inputs to stage 3 intermediate demand fell 2.6 percent. Conversely, the index for total services inputs advanced 0.3 percent. Declining prices for diesel fuel, grains, gasoline, jet fuel, cold rolled steel sheet and strip, and services related to air transportation outweighed increases in the indexes for business loans (partial), slaughter hogs, and ungraded chicken eggs. For the 12 months ended in July, prices for stage 3 intermediate demand rose 15.4 percent.

Stage 2 intermediate demand: Prices for stage 2 intermediate demand declined 6.1 percent in July, the largest decrease since the index entered calculation in December 2009. In July, prices for total goods inputs to stage 2 intermediate demand dropped 11.9 percent. In contrast, the index for total services inputs advanced 0.8 percent. Falling prices for gas fuels, crude petroleum, oilseeds, iron and steel scrap, nonferrous metal ores, and portfolio management outweighed increases in the indexes for business loans (partial), fuels and lubricants retailing, and industrial chemicals. For the 12 months ended in July, prices for stage 2 intermediate demand rose 15.6 percent.

Stage 1 intermediate demand: The index for stage 1 intermediate demand declined 1.7 percent in July, the largest decrease since a 4.3-percent drop in April 2020. In July, prices for total goods inputs to stage 1 intermediate demand fell 3.0 percent, and the index for total services inputs moved down 0.1 percent. Declining prices for diesel fuel; utility natural gas; grains; gasoline; portfolio management; and securities brokerage, dealing, and investment advice outweighed increases in the indexes for services related to securities brokerage and dealing (partial); industrial chemicals; and courier, messenger, and U.S. postal services. For the 12 months ended in July, prices for stage 1 intermediate demand advanced 12.2 percent.

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

Month	Stage 4 intermediate demand			Stage 3 intermediate demand			Stage 2 intermediate demand			Stage 1 intermediate demand		
	Total	Goods inputs	Ser-vices inputs	Total	Goods inputs	Ser-vices inputs	Total	Goods inputs	Ser-vices inputs	Total	Goods inputs	Ser-vices inputs
2021												
July.....	1.0	1.0	1.0	1.0	1.6	0.4	2.3	4.3	0.6	1.4	2.1	0.8
Aug.....	0.7	0.9	0.6	1.0	1.6	0.4	0.7	0.9	0.5	0.8	1.3	0.5
Sept.....	0.4	0.8	0.1	1.1	1.2	1.0	2.2	3.6	0.9	0.2	0.7	-0.3
Oct.....	0.6	1.3	0.0	1.0	1.9	0.2	3.7	7.9	-0.1	1.1	2.5	-0.3
Nov.....	1.1	1.5	0.7	0.8	1.2	0.4	1.2	1.7	0.7	1.3	2.0	0.5
Dec.....	0.7	0.5	0.8	0.8	0.7	0.9	-2.2	-5.6	1.2	0.4	0.0	0.8
2022												
Jan.....	1.5	2.1	1.0	1.6	2.6	0.7	1.4	2.7	0.1	1.4	1.8	1.0
Feb.....	0.6	1.2	0.0	1.4	2.6	0.1	4.3	8.4	0.3	1.0	1.6	0.2
Mar. ¹	1.2	1.6	0.8	3.1	4.5	1.6	0.8	0.3	1.3	2.8	3.3	2.2
Apr. ¹	1.0	1.3	0.7	2.6	3.8	1.3	2.7	4.6	0.8	1.8	2.7	0.8
May ¹	0.9	1.4	0.4	1.6	2.5	0.6	3.5	6.7	0.1	1.5	2.2	0.7
June ¹	0.4	1.1	-0.4	0.6	1.4	-0.4	2.8	5.2	0.2	1.0	2.5	-0.6
July.....	-0.6	-0.9	-0.4	-1.2	-2.6	0.3	-6.1	-11.9	0.8	-1.7	-3.0	-0.1

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The Producer Price Index for August 2022 is scheduled to be released on Wednesday, September 14, 2022, 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 2022, the PPI covered 71 percent of services as measured by 2012 Census revenue, and 31 percent of construction.

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

Final Demand–Intermediate Demand Indexes

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

Compared with finished goods under the SOP system, the PPI for final demand goods includes nearly a 50 percent expansion of coverage. This increase can be traced to the addition of government purchases and exports. For overall final demand, expansion to include final demand services represents an even larger increase in coverage. In December 2021, final demand goods were about 33 percent of overall final demand, final demand services were roughly 65.1 percent, and final demand construction was about 1.7 percent of final demand. Within intermediate demand, coverage of services for intermediate demand resulted in about a 45 percent increase in coverage of the intermediate demand portion of the economy.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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 and the *PPI Detailed Report* that announces their introduction

Title	Code	<i>PPI Detailed Report Issue</i>
	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
Retail bakeries	5461	July 2000

Title	Code	PPI Detailed Report Issue
SIC		
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 2012 values of shipments as reported in the *Census of Manufactures* and other sources. From January 2012 to December 2017, PPI weights were derived from 2007 shipment values. Industry indexes now are calculated under the 2017 NAICS structure utilizing 2012 value of shipment weights and 2007 net output ratios. The periodic update of the value weights used to calculate the PPI is done to more accurately reflect changes in production and marketing patterns in the economy.

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

Price Index Reference Base

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

series. (See “Calculating Index Changes,” below.) The 1982 reference base is not used for commodity indexes with a base later than December 1981 or for industry net output indexes and their products. The FD-ID indexes typically have a reference base of November 2009 = 100.

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

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, 76 were subject to intervention in 2022.

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

Producer Price Index Data on the Internet

In 1995, the BLS began posting PPI series, news releases, and technical information to the internet. There were more than 9 million instances of PPI data being downloaded from the BLS website during 2021.

Retrieving PPI data from the PPI Web site

PPI data can be obtained online (www.bls.gov/ppi). 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 [July 2022]

Grouping	Commodity code		Relative Importance Dec. 2021 ¹	Unadjusted 12-month percent change ² July 2021 to July 2022 ^P	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			Feb. to Mar.	Mar. to Apr. ^P	Apr. to May ^P	May to June ^P	June to July ^P
Final Demand									
Final demand.....	FD	4	100.000	9.8	1.7	0.5	0.8	1.0	-0.5
Final demand goods.....	FD	41	33.128	14.8	2.4	1.3	1.5	2.3	-1.8
Final demand foods.....	FD	411	5.743	15.0	2.4	1.5	0.5	-0.2	1.0
Finished consumer foods ³	FD	4111	4.425	15.8	2.0	1.5	0.7	-0.4	2.0
Finished consumer foods, crude.....	FD	41113	0.460	52.6	13.8	1.4	-0.5	-7.8	14.1
Finished consumer foods, processed.....	FD	41112	3.965	12.5	0.8	1.5	0.8	0.5	0.7
Government purchased foods.....	FD	4112	0.407	12.0	0.7	1.5	-0.4	0.1	1.3
Foods for export.....	FD	4113	0.911	12.3	4.8	1.7	0.1	0.8	-3.6
Final demand energy.....	FD	412	5.972	36.8	6.6	1.6	4.8	9.4	-9.0
Finished consumer energy goods ³	FD	4121	4.773	32.0	5.0	-0.2	4.7	10.1	-9.2
Government purchased energy.....	FD	4122	0.834	53.4	12.9	6.9	4.8	7.5	-8.1
Energy for export.....	FD	4123	0.365	64.4	12.2	11.1	5.5	6.8	-7.7
Final demand goods less foods and energy.....	FD	413	21.412	8.5	1.1	1.1	0.7	0.4	0.2
Finished goods less foods and energy ³	FD	4131	12.084	8.7	0.7	1.0	0.8	0.7	0.5
Finished consumer goods less foods and energy.....	FD	41311	6.448	8.4	0.6	0.8	0.9	0.6	0.6
Nondurable consumer goods less foods and energy.....	FD	413111	4.061	8.5	0.5	0.7	1.1	0.6	0.7
Durable consumer goods.....	FD	413112	2.387	8.1	0.8	1.0	0.6	0.5	0.5
Private capital equipment.....	FD	41312	5.636	9.1	0.7	1.3	0.7	0.8	0.5
Private capital equipment for manufacturing industries.....	FD	413121	1.256	11.5	1.0	1.7	0.9	0.6	0.5
Private capital equipment for nonmanufacturing industries.....	FD	413122	4.380	8.5	0.6	1.2	0.6	0.8	0.5
Government purchased goods, excluding foods and energy.....	FD	4132	2.255	10.2	1.3	0.8	1.1	0.7	0.6
Government purchased goods excluding foods, energy, and capital equipment.....	FD	41321	1.338	13.3	1.5	1.2	1.4	0.8	0.8
Government purchased capital equipment.....	FD	41322	0.917	5.8	1.2	0.2	0.6	0.5	0.3
Goods for export, excluding foods and energy.....	FD	4133	7.073	7.6	1.7	1.3	0.4	0.0	-0.6
Final demand services.....	FD	42	65.132	6.9	1.3	0.0	0.5	0.3	0.1
Final demand trade services ⁴	FD	423	20.434	13.7	2.3	0.2	0.7	0.5	0.3
Trade of finished goods ³	FD	4231	17.549	13.7	2.3	0.1	0.7	0.6	0.4
Trade of personal consumption goods.....	FD	42311	14.295	12.2	2.3	-0.1	0.9	0.7	0.4
Trade of private capital equipment.....	FD	42312	3.254	20.2	2.3	0.8	-0.3	0.2	0.6
Trade of government purchased goods.....	FD	4232	0.761	16.4	3.0	0.8	0.6	0.4	-0.1
Trade of government purchased goods, excluding capital equipment.....	FD	42321	0.474	12.9	3.1	0.6	1.8	0.6	-0.5
Trade of government purchased capital equipment.....	FD	42322	0.287	22.6	2.8	1.1	-1.3	0.1	0.6
Trade of exports.....	FD	4233	2.124	13.3	2.4	0.8	0.9	-0.2	-0.3
Final demand transportation and warehousing services.....	FD	422	4.396	20.3	5.6	2.1	2.6	0.7	0.4
Transportation of passengers for final demand.....	FD	4221	1.113	22.4	11.0	2.2	3.8	3.9	1.1
Transportation of private passengers.....	FD	42211	0.752	22.3	11.0	2.2	3.8	3.9	1.1
Transportation of government passengers.....	FD	42212	0.090	22.1	10.8	2.2	3.8	3.9	1.1
Transportation of passengers for export.....	FD	42213	0.271	22.6	11.1	2.2	3.9	3.9	1.1
Transportation and warehousing of goods for final demand.....	FD	4222	3.283	19.6	3.9	2.1	2.2	-0.3	0.2
Transportation and warehousing of finished goods ³	FD	42221	2.160	20.0	4.1	2.0	2.2	-0.4	0.2
Transportation and warehousing of personal consumption goods.....	FD	422211	1.734	19.8	4.0	2.0	2.2	-0.4	0.2
Transportation and warehousing of private capital equipment.....	FD	422212	0.426	20.7	4.3	2.2	2.4	-0.4	-0.1
Transportation and warehousing of government purchased goods.....	FD	42222	0.198	18.4	3.3	2.2	1.7	0.0	0.5
Transportation and warehousing of exports.....	FD	42223	0.925	18.9	3.6	2.1	2.2	-0.3	0.1
Final demand services less trade, transportation, and warehousing.....	FD	421	40.301	2.1	0.4	-0.3	0.1	0.2	-0.1
Finished services less trade, transportation, and warehousing ³	FD	4211	35.337	2.4	0.5	-0.3	0.1	0.3	-0.1
Finished consumer services less trade, transportation, and warehousing.....	FD	42111	31.663	1.8	0.4	-0.3	0.0	0.2	-0.1
Private capital investment services less trade, transportation, and warehousing.....	FD	42112	3.674	7.3	0.9	-0.1	1.0	0.6	0.3
Government purchased services less trade, transportation, and warehousing.....	FD	4212	2.482	1.2	0.0	0.1	0.0	-0.2	-0.4
Gov. purchased services less trade, transportation, and warehousing, excl. capital investment.....	FD	42121	2.376	1.2	0.0	0.1	0.0	-0.3	-0.4
Government purchased capital investment services less trade, transportation, and warehousing.....	FD	42122	0.106	0.7	0.5	-0.2	0.6	0.2	0.0
Services for export less trade, transportation, and warehousing.....	FD	4213	2.482	-0.4	-0.5	-0.2	0.5	-0.6	-0.5
Final demand construction.....	FD	43	1.740	23.1	0.6	3.6	0.3	0.5	5.1
Construction for private capital investment.....	FD	431	1.133	25.3	0.6	3.8	0.4	0.6	5.4
Construction for government.....	FD	432	0.606	19.1	0.7	3.2	0.3	0.5	4.4
Special Groupings of Final Demand									
Final demand less exports.....	FD	49101	85.849	9.8	1.6	0.4	0.8	1.1	-0.4
Final demand less government.....	FD	49102	92.367	9.4	1.6	0.4	0.8	1.0	-0.5

See footnotes at end of table.

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

Grouping	Commodity code		Relative Importance Dec. 2021 ¹	Unadjusted 12-month percent change ² July 2021 to July 2022 ^P	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			Feb. to Mar.	Mar. to Apr. ^P	Apr. to May ^P	May to June ^P	June to July ^P
Final demand less foods, food and nonalcoholic beverages for immediate consumption, and energy ⁵	FD	49103	87.780	7.7	1.3	0.4	0.5	0.4	0.2
Final demand less foods and energy ⁵	FD	49104	88.285	7.6	1.3	0.4	0.5	0.4	0.2
Final demand less foods and food and nonalcoholic beverages for immediate consumption ⁵	FD	49105	93.752	9.6	1.7	0.5	0.8	1.1	-0.6
Final demand less foods ⁵	FD	49106	94.257	9.4	1.6	0.5	0.8	1.1	-0.6
Final demand less energy.....	FD	49107	94.028	8.0	1.3	0.4	0.5	0.3	0.2
Final demand less trade services.....	FD	49108	79.566	8.8	1.5	0.6	0.9	1.1	-0.7
Final demand less distributive services ⁶	FD	49109	76.283	8.4	1.4	0.6	0.8	1.2	-0.8
Final demand goods less energy.....	FD	49111	27.155	9.8	1.4	1.2	0.7	0.3	0.4
Final demand goods less foods.....	FD	49112	27.384	14.8	2.4	1.2	1.7	2.8	-2.4
Final demand services less trade services.....	FD	49113	44.697	3.9	0.9	0.0	0.4	0.2	-0.1
Final demand distributive services ⁶	FD	49114	23.717	14.5	2.5	0.4	0.9	0.4	0.3
Final demand goods plus final demand distributive services ⁶	FD	49115	56.844	14.7	2.5	0.9	1.3	1.5	-0.9
Final demand less foods, energy, and trade services ⁵	FD	49116	67.851	5.8	1.0	0.4	0.5	0.3	0.2
Private and government purchased capital equipment.....	FD	49117	6.553	8.7	0.8	1.1	0.7	0.7	0.4
Private and government purchased capital investment services.....	FD	49118	7.747	13.7	1.7	0.4	0.5	0.4	0.4
Total private and government purchased capital investment.....	FD	49119	14.300	12.6	1.2	1.1	0.5	0.5	0.9
Total finished ³	FD	49201	78.213	9.4	1.5	0.3	0.8	1.1	-0.4
Total finished less foods, food and nonalcoholic beverages for immediate consumption, and energy ^{3, 5}	FD	49202	68.515	7.5	1.2	0.2	0.5	0.5	0.3
Total finished less foods and energy ^{3, 5}	FD	49203	69.015	7.4	1.2	0.2	0.5	0.5	0.3
Total finished less foods and food and nonalcoholic beverages for immediate consumption ⁵	FD	49204	73.288	9.2	1.5	0.2	0.8	1.2	-0.5
Total finished less foods ^{3, 5}	FD	49205	73.788	9.0	1.5	0.2	0.8	1.2	-0.5
Total finished less energy ³	FD	49206	73.440	7.9	1.2	0.3	0.5	0.4	0.4
Finished goods ³	FD	49207	21.282	15.5	2.0	0.8	1.8	2.9	-1.9
Finished goods less energy ³	FD	49208	16.509	10.6	1.0	1.2	0.8	0.4	0.9
Finished goods, excluding foods ^{3, 5}	FD	49209	16.857	15.4	2.0	0.6	2.0	3.7	-2.8
Finished services ³	FD	49210	55.798	6.7	1.3	0.0	0.4	0.4	0.1
Private capital investment services.....	FD	49211	7.354	13.6	1.7	0.4	0.5	0.4	0.4
Finished distributive services ^{3, 6}	FD	49212	19.709	14.3	2.5	0.3	0.8	0.5	0.4
Finished services less trade services ³	FD	49213	38.249	3.7	0.9	-0.1	0.3	0.3	0.0
Finished services less distributive services ^{3, 6}	FD	49214	36.089	2.8	0.7	-0.2	0.2	0.4	0.0
Total private capital investment (goods, services, and construction).....	FD	49215	14.123	12.7	1.2	1.0	0.6	0.6	0.8
Finished goods plus finished distributive services ^{3, 6}	FD	49216	40.991	15.0	2.2	0.6	1.3	1.8	-0.8
Total exports.....	FD	49301	14.151	9.8	2.3	1.4	0.8	0.2	-1.0
Goods for export.....	FD	49302	8.349	10.6	2.6	1.9	0.6	0.5	-1.4
Services for export.....	FD	49303	5.802	8.6	1.8	0.7	1.1	-0.2	-0.3
Total government purchases.....	FD	49401	7.633	13.7	2.6	1.7	1.1	1.3	-0.8
Government purchased goods.....	FD	49402	3.496	20.7	4.3	2.6	2.0	2.7	-2.1
Government purchased services.....	FD	49403	3.531	5.8	1.1	0.4	0.3	0.0	-0.2
Total government purchased capital investment (goods, services, construction).....	FD	49404	1.916	12.0	1.2	1.3	0.2	0.4	1.7
Government purchases, defense.....	FD	49405	2.357	13.6	3.4	1.8	1.1	0.7	-0.7
Government purchases, non-defense.....	FD	49406	5.276	13.8	2.3	1.7	1.2	1.7	-0.9
Personal consumption.....	FD	49501	64.090	8.7	1.6	0.1	0.8	1.2	-0.7
Personal consumption goods (finished consumer goods).....	FD	49502	15.646	17.8	2.5	0.7	2.1	3.6	-2.7
Personal consumption goods less energy.....	FD	49503	10.873	11.4	1.2	1.1	0.8	0.2	1.2
Personal consumption goods less foods.....	FD	49504	11.221	18.6	2.6	0.3	2.7	5.1	-4.3
Personal consumption nondurable goods less foods.....	FD	49508	8.834	21.4	3.1	0.2	3.2	6.2	-5.4
Personal consumption services.....	FD	49505	48.444	5.7	1.3	-0.1	0.4	0.4	0.1
Personal consumption less trade services.....	FD	49506	49.795	7.7	1.4	0.1	0.8	1.4	-1.0
Personal consumption less distributive services ⁶	FD	49507	48.061	7.3	1.3	0.1	0.8	1.5	-1.0
Personal consumption less foods and energy.....	FD	49510	54.892	6.0	1.2	0.0	0.5	0.4	0.1
Personal consumption less foods, energy, and trade services ⁴	FD	49511	40.597	3.9	0.8	0.0	0.3	0.3	0.0
Personal consumption less foods, energy, and distributive services ⁶	FD	49512	38.863	3.3	0.6	-0.1	0.2	0.4	0.0
Personal consumption goods plus personal consumption distributive services ⁶	FD	49509	31.675	15.4	2.5	0.4	1.6	2.1	-1.2
Intermediate Demand by Commodity Type									
Processed goods									
Processed goods for intermediate demand.....	ID6	1	100.000	17.4	2.3	2.1	2.3	2.1	-2.3
Materials and components for manufacturing.....	ID6	11	45.927	10.9	0.8	1.5	2.0	-0.1	-0.6
Materials for manufacturing.....	ID6	111	30.390	10.9	0.7	1.8	2.6	-0.5	-1.1
Materials for food manufacturing.....	ID6	1111	4.084	15.5	2.0	4.0	1.4	-0.4	-1.0
Materials for nondurable manufacturing.....	ID6	1112	13.045	13.8	2.3	1.5	1.9	0.7	0.3
Materials for durable manufacturing.....	ID6	1113	13.261	6.3	-1.5	1.3	3.8	-1.8	-2.8
Components for manufacturing.....	ID6	112	15.537	10.9	0.9	0.8	0.9	0.8	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
[July 2022]

Grouping	Commodity code		Relative Importance Dec. 2021 ¹	Unadjusted 12-month percent change ² July 2021 to July 2022 ^P	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			Feb. to Mar.	Mar. to Apr. ^P	Apr. to May ^P	May to June ^P	June to July ^P
Components for nondurable manufacturing.....	ID6	1121	0.800	15.1	1.2	0.7	0.9	1.3	0.5
Components for durable manufacturing.....	ID6	1122	14.737	10.7	0.9	0.8	0.9	0.7	0.3
Materials and components for construction.....	ID6	12	9.074	14.8	1.9	0.5	0.9	-0.2	0.3
Materials for construction.....	ID6	121	3.869	9.3	2.3	-0.8	0.2	-1.6	0.5
Components for construction.....	ID6	122	5.205	19.2	1.6	1.5	1.4	0.9	0.2
Processed fuels and lubricants for intermediate demand.....	ID6	13	18.757	40.5	7.3	4.9	4.5	9.2	-9.0
Processed fuels and lubricants to manufacturing industries.....	ID6	131	4.683	33.2	5.0	6.0	3.8	5.4	-4.1
Processed fuels and lubricants to nonmanufacturing industries.....	ID6	132	14.074	43.0	8.0	4.6	4.8	10.4	-10.4
Containers for intermediate demand.....	ID6	14	2.795	18.1	0.2	1.9	1.7	0.7	0.3
Supplies for intermediate demand.....	ID6	15	23.448	12.5	1.2	1.5	1.2	0.5	0.5
Supplies to manufacturing industries.....	ID6	151	3.227	12.2	1.0	1.4	0.8	0.4	0.2
Supplies to nonmanufacturing industries.....	ID6	152	20.221	12.6	1.3	1.5	1.2	0.5	0.5
Supplies to nonmanufacturing industries, feeds.....	ID6	1521	1.743	13.6	3.4	2.0	1.2	0.4	1.2
Supplies to nonmanufacturing industries, other than feeds.....	ID6	1522	18.478	12.5	1.1	1.4	1.2	0.5	0.4
Unprocessed goods									
Unprocessed goods for intermediate demand.....	ID6	2	100.000	27.5	2.9	5.5	5.4	4.5	-12.4
Unprocessed foodstuffs and feedstuffs.....	ID6	21	32.603	28.9	7.7	4.2	0.2	-0.4	-0.8
Unprocessed nonfood materials.....	ID6	22	67.398	27.1	0.7	6.2	7.8	6.6	-17.2
Unprocessed nonfood materials except fuel.....	ID6	221	44.822	13.8	10.2	0.9	-1.2	5.9	-13.3
Unprocessed nonfood materials except fuel to manufacturing industries.....	ID6	2211	42.852	13.9	10.6	1.0	-1.3	6.0	-13.9
Unprocessed nonfood materials except fuel to nonmanufacturing industries.....	ID6	2212	1.970	11.2	0.8	0.8	0.7	2.3	0.9
Unprocessed fuel.....	ID6	222	22.576	62.3	-17.5	19.6	27.2	7.8	-23.4
Unprocessed fuel to manufacturing industries.....	ID6	2221	1.143	66.2	-4.6	18.1	10.6	7.2	-6.6
Unprocessed fuel to nonmanufacturing industries.....	ID6	2222	21.433	62.1	-18.2	19.7	28.3	7.8	-24.3
Services									
Services for intermediate demand.....	ID6	3	100.000	5.7	1.3	0.9	0.5	-0.3	0.1
Trade services for intermediate demand ⁴	ID6	33	22.377	10.0	4.4	1.0	0.6	-0.8	-0.4
Trade services for manufacturing industries.....	ID6	331	11.472	9.6	3.1	1.6	1.7	-1.0	-0.5
Trade services for nonmanufacturing industries.....	ID6	332	10.905	10.4	5.6	0.5	-0.4	-0.7	-0.3
Transportation and warehousing services for intermediate demand.....	ID6	32	13.264	13.5	2.1	1.8	0.7	0.0	0.9
Transportation of passengers for intermediate demand.....	ID6	321	0.984	22.1	10.8	2.2	3.8	3.9	1.1
Transportation of passengers for manufacturing industries.....	ID6	3211	0.116	22.6	11.1	2.2	3.9	3.9	1.1
Transportation of passengers for nonmanufacturing industries.....	ID6	3212	0.868	22.0	10.8	2.2	3.8	3.9	1.1
Transportation and warehousing of goods for intermediate demand.....	ID6	322	12.280	12.8	1.4	1.8	0.4	-0.3	0.8
Transportation and warehousing of goods for manufacturing industries.....	ID6	3221	2.498	17.6	2.9	2.4	2.6	-0.1	0.5
Transportation and warehousing of goods for nonmanufacturing industries.....	ID6	3222	9.782	11.5	1.1	1.6	-0.2	-0.4	0.9
Services less trade, transportation, and warehousing for intermediate demand.....	ID6	31	64.359	2.7	0.0	0.6	0.4	-0.2	0.1
Services less trade, transportation, and warehousing for manufacturing industries.....	ID6	311	2.040	6.1	1.0	0.7	0.1	0.0	0.6
Services less trade, transportation, and warehousing for nonmanufacturing industries.....	ID6	312	62.318	2.6	0.0	0.6	0.4	-0.2	0.1
Construction									
Construction for intermediate demand.....	ID6	4	100.000	12.9	1.2	0.8	0.8	0.9	1.3
Special Groupings of Intermediate Demand by Commodity Type									
Processed materials less foods and feeds.....	ID6	9111	92.100	17.7	2.3	2.0	2.4	2.3	-2.5
Processed foods and feeds.....	ID6	9112	7.900	14.4	2.1	3.2	1.1	-0.1	-0.1
Processed energy goods.....	ID6	9113	18.757	40.5	7.3	4.9	4.5	9.2	-9.0
Processed materials less energy.....	ID6	9118	81.243	12.0	1.0	1.4	1.6	0.1	-0.2
Processed materials less foods and energy.....	ID6	9115	73.343	11.8	0.9	1.2	1.7	0.1	-0.2
Intermediate distributive services ⁷	ID6	9116	34.657	10.9	3.3	1.3	0.5	-0.7	0.0
Processed goods plus intermediate distributive services.....	ID6	9117	-	15.5	2.6	1.9	1.8	1.3	-1.6
Unprocessed materials less agricultural products.....	ID6	9211	62.340	29.1	-0.5	6.6	8.8	6.9	-17.7
Unprocessed energy materials ⁸	ID6	9212	42.130	47.1	-4.3	9.3	14.6	10.5	-21.2
Unprocessed materials less energy.....	ID6	9213	57.870	16.2	8.6	3.1	-1.7	-1.1	-3.2
Unprocessed nonfood materials less energy ⁹	ID6	9216	25.267	-1.0	9.7	1.3	-4.2	-2.3	-6.9
Intermediate Demand by Production Flow									
Stage 4 Intermediate Demand									
Stage 4 intermediate demand.....	ID5	4	100.000	8.9	1.2	1.0	0.9	0.4	-0.6
Inputs to stage 4 goods producers.....	ID5	41	32.865	11.1	1.4	1.3	1.4	0.2	-0.6
Goods.....	ID5	411	23.183	11.9	1.2	1.5	1.6	0.3	-0.6

See footnotes at end of table.

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

Grouping	Commodity code		Relative Importance Dec. 2021 ¹	Unadjusted 12-month percent change ² July 2021 to July 2022 ^P	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			Feb. to Mar.	Mar. to Apr. ^P	Apr. to May ^P	May to June ^P	June to July ^P
Foods.....	ID5	4111	3.188	14.9	5.2	2.8	1.5	-0.1	-3.0
Energy.....	ID5	4112	0.189	49.7	4.0	11.0	3.9	6.5	-3.0
Goods excluding foods and energy.....	ID5	4113	19.806	11.1	0.5	1.2	1.6	0.4	-0.1
Services.....	ID5	412	9.682	9.3	2.0	0.7	1.0	-0.2	-0.6
Trade services.....	ID5	4123	7.732	9.7	2.1	0.7	1.1	-0.3	-0.9
Transportation and warehousing services.....	ID5	4122	0.475	15.8	3.5	2.2	2.1	0.8	0.5
Transportation of passengers.....	ID5	41221	0.066	22.6	11.1	2.2	3.9	3.9	1.1
Transportation and warehousing of goods.....	ID5	41222	0.409	14.6	2.3	2.2	1.8	0.3	0.4
Services less trade, transportation, and warehousing.....	ID5	4121	1.475	5.2	0.9	0.4	0.1	0.1	0.4
Inputs to stage 4 services producers.....	ID5	42	52.483	5.9	0.5	0.8	0.5	0.4	-0.5
Goods.....	ID5	421	13.894	14.1	1.6	1.3	1.1	2.3	-0.8
Foods.....	ID5	4211	2.353	11.8	1.5	1.5	-0.3	0.3	0.9
Energy.....	ID5	4212	3.737	22.7	2.6	2.1	2.3	6.6	-3.5
Goods excluding foods and energy.....	ID5	4213	7.804	10.5	1.1	0.9	0.9	0.7	0.2
Services.....	ID5	422	38.503	2.9	0.1	0.7	0.3	-0.4	-0.3
Trade services.....	ID5	4223	4.524	11.6	2.6	0.6	1.6	-0.1	-0.5
Transportation and warehousing services.....	ID5	4222	3.277	13.4	1.9	2.2	-0.4	1.0	1.3
Transportation of passengers.....	ID5	42221	0.421	22.4	11.0	2.2	3.9	3.9	1.1
Transportation and warehousing of goods.....	ID5	42222	2.856	12.0	0.6	2.2	-1.0	0.6	1.4
Services less trade, transportation, and warehousing.....	ID5	4221	30.702	0.6	-0.4	0.5	0.1	-0.6	-0.5
Construction.....	ID5	423	0.086	12.9	1.2	0.8	0.8	0.9	1.3
Inputs to stage 4 construction producers.....	ID5	43	14.650	14.7	3.0	0.8	1.2	0.7	-1.1
Goods.....	ID5	431	10.502	17.2	2.5	0.7	1.4	1.3	-1.5
Energy.....	ID5	4312	0.844	54.6	8.7	2.4	7.1	14.5	-14.3
Goods excluding foods and energy.....	ID5	4313	9.658	13.7	1.9	0.5	0.8	-0.2	0.3
Services.....	ID5	432	4.148	8.8	4.1	1.2	0.7	-1.0	-0.2
Trade services.....	ID5	4323	2.051	8.5	6.5	1.6	0.4	-2.3	-0.6
Transportation and warehousing services.....	ID5	4322	0.612	19.6	4.2	2.1	2.1	-0.1	0.0
Transportation of passengers.....	ID5	43221	0.013	22.6	11.1	2.2	3.9	3.9	1.1
Transportation and warehousing of goods.....	ID5	43222	0.599	19.5	4.1	2.1	2.0	-0.2	0.0
Services less trade, transportation, and warehousing.....	ID5	4321	1.485	5.0	0.7	0.3	0.4	0.4	0.2
Stage 3 Intermediate Demand									
Stage 3 intermediate demand.....	ID5	3	100.000	15.4	3.1	2.6	1.6	0.6	-1.2
Inputs to stage 3 goods producers.....	ID5	31	49.802	17.4	3.1	3.2	2.1	-0.2	-0.7
Goods.....	ID5	311	40.208	18.8	2.9	3.3	2.1	0.0	-0.9
Foods.....	ID5	3111	11.423	32.4	7.8	5.8	0.2	-0.6	0.0
Energy.....	ID5	3112	1.551	62.0	6.9	13.7	8.1	6.9	-7.6
Goods excluding foods and energy.....	ID5	3113	27.234	10.9	0.3	1.4	2.5	-0.2	-0.8
Services.....	ID5	312	9.594	11.9	4.2	2.8	2.0	-1.3	0.2
Trade services.....	ID5	3123	5.774	9.6	5.2	3.4	2.1	-2.3	0.1
Transportation and warehousing services.....	ID5	3122	2.538	19.1	3.6	2.5	2.7	-0.1	0.3
Transportation of passengers.....	ID5	31221	0.120	22.6	11.1	2.2	3.9	3.9	1.1
Transportation and warehousing of goods.....	ID5	31222	2.418	18.9	3.2	2.5	2.7	-0.3	0.2
Services less trade, transportation, and warehousing.....	ID5	3121	1.282	8.0	1.3	0.8	0.3	0.2	0.8
Inputs to stage 3 services producers.....	ID5	32	48.823	13.6	3.0	2.1	1.2	1.5	-1.7
Goods.....	ID5	321	10.251	42.1	10.6	5.6	3.9	6.0	-7.6
Foods.....	ID5	3211	0.088	11.4	1.4	1.3	-0.3	0.4	1.1
Energy.....	ID5	3212	6.099	62.1	15.7	8.0	5.2	8.4	-10.9
Goods excluding foods and energy.....	ID5	3213	4.064	12.6	1.8	0.9	1.2	0.7	0.2
Services.....	ID5	322	37.657	6.0	0.8	1.0	0.3	-0.1	0.4
Trade services.....	ID5	3223	2.600	15.6	5.3	1.7	2.2	0.6	0.2
Transportation and warehousing services.....	ID5	3222	8.909	8.7	0.7	1.2	-0.7	-0.6	0.7
Transportation of passengers.....	ID5	32221	0.022	3.6	0.4	0.9	0.2	1.8	0.2
Transportation and warehousing of goods.....	ID5	32222	8.887	8.7	0.7	1.2	-0.7	-0.6	0.7
Services less trade, transportation, and warehousing.....	ID5	3221	26.148	4.1	0.3	0.8	0.4	0.0	0.4
Construction.....	ID5	323	0.915	12.9	1.2	0.8	0.8	0.9	1.3
Inputs to stage 3 construction producers.....	ID5	33	1.376	6.1	5.8	-1.0	-1.5	-2.5	-1.2
Goods.....	ID5	331	0.574	11.0	2.5	-0.4	0.3	-1.3	-0.2
Goods excluding foods and energy.....	ID5	3313	0.574	11.0	2.5	-0.4	0.3	-1.3	-0.2
Services.....	ID5	332	0.802	3.0	8.0	-1.3	-2.6	-3.2	-1.9
Trade services.....	ID5	3323	0.760	2.6	8.3	-1.5	-2.8	-3.4	-2.0
Transportation and warehousing services.....	ID5	3322	0.015	15.8	0.7	3.8	3.9	0.3	1.1
Transportation and warehousing of goods.....	ID5	33222	0.015	15.8	0.7	3.8	3.9	0.3	1.1
Services less trade, transportation, and warehousing.....	ID5	3321	0.027	9.6	1.5	0.8	0.8	0.4	1.0
Stage 2 Intermediate Demand									

See footnotes at end of table.

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

Grouping	Commodity code		Relative Importance Dec. 2021 ¹	Unadjusted 12-month percent change ²	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			July 2021 to July 2022 ^P	Feb. to Mar.	Mar. to Apr. ^P	Apr. to May ^P	May to June ^P
Stage 2 intermediate demand.....	ID5	2	100.000	15.6	0.8	2.7	3.5	2.8	-6.1
Inputs to stage 2 goods producers.....	ID5	21	55.017	22.5	0.5	4.2	6.0	4.5	-10.6
Goods.....	ID5	211	42.903	26.2	0.1	5.0	7.2	5.5	-12.9
Foods.....	ID5	2111	3.172	11.5	4.8	2.0	0.7	1.9	-5.0
Energy.....	ID5	2112	20.215	46.5	-3.4	8.6	14.2	10.2	-21.0
Goods excluding foods and energy.....	ID5	2113	19.516	9.7	3.8	1.3	-0.3	-0.8	-1.3
Services.....	ID5	212	11.646	10.6	2.0	1.4	0.9	0.2	0.8
Trade services.....	ID5	2123	5.347	11.9	3.5	1.3	0.3	-0.1	0.2
Transportation and warehousing services.....	ID5	2122	3.332	11.8	1.0	2.1	2.2	0.2	1.5
Transportation of passengers.....	ID5	21221	0.156	21.3	10.4	2.2	3.7	3.8	1.1
Transportation and warehousing of goods.....	ID5	21222	3.176	11.2	0.5	2.1	2.1	0.0	1.5
Services less trade, transportation, and warehousing.....	ID5	2121	2.967	7.0	0.6	0.9	0.6	0.7	1.3
Construction.....	ID5	213	0.468	12.9	1.2	0.8	0.8	0.9	1.3
Inputs to stage 2 services producers.....	ID5	22	44.982	7.4	1.2	0.7	0.2	0.4	0.6
Goods.....	ID5	221	5.753	15.7	1.5	1.5	2.0	1.9	-1.0
Foods.....	ID5	2211	0.032	14.7	2.9	1.4	0.3	0.0	0.7
Energy.....	ID5	2212	0.393	49.9	1.9	6.2	10.3	14.1	-15.2
Goods excluding foods and energy.....	ID5	2213	5.328	13.4	1.4	1.2	1.3	0.8	0.4
Services.....	ID5	222	37.664	5.9	1.1	0.6	-0.1	0.1	0.8
Trade services.....	ID5	2223	2.497	19.3	10.7	1.4	-7.4	1.7	3.7
Transportation and warehousing services.....	ID5	2222	3.167	10.4	1.2	0.7	-1.5	-1.9	0.5
Transportation of passengers.....	ID5	22221	0.356	22.4	11.0	2.2	3.8	3.9	1.1
Transportation and warehousing of goods.....	ID5	22222	2.811	8.7	0.0	0.5	-2.3	-2.7	0.5
Services less trade, transportation, and warehousing.....	ID5	2221	32.000	4.6	0.4	0.5	0.7	0.2	0.6
Construction.....	ID5	223	1.565	12.9	1.2	0.8	0.8	0.9	1.3
Stage 1 Intermediate Demand									
Stage 1 intermediate demand.....	ID5	1	100.000	12.2	2.8	1.8	1.5	1.0	-1.7
Inputs to stage 1 goods producers.....	ID5	11	35.307	13.0	2.8	2.4	2.5	0.5	-2.3
Goods.....	ID5	111	25.965	15.1	2.6	2.5	2.7	1.3	-3.0
Foods.....	ID5	1111	3.181	11.5	8.6	2.4	0.4	0.8	-5.6
Energy.....	ID5	1112	3.712	39.5	0.4	7.6	7.4	9.6	-8.8
Goods excluding foods and energy.....	ID5	1113	19.072	11.3	2.1	1.4	2.1	-0.5	-1.2
Services.....	ID5	112	9.341	7.4	3.2	2.1	1.9	-1.5	-0.1
Trade services.....	ID5	1123	6.053	8.3	4.5	2.8	2.0	-2.3	0.1
Transportation and warehousing services.....	ID5	1122	0.488	22.6	2.3	4.8	6.6	0.4	1.1
Transportation of passengers.....	ID5	11221	0.084	22.6	11.1	2.2	3.9	3.9	1.1
Transportation and warehousing of goods.....	ID5	11222	0.404	23.0	0.5	5.4	7.2	-0.1	1.1
Services less trade, transportation, and warehousing.....	ID5	1121	2.800	2.8	0.5	0.0	0.7	-0.2	-0.9
Construction.....	ID5	113	0.001	12.9	1.2	0.8	0.8	0.9	1.3
Inputs to stage 1 services producers.....	ID5	12	51.790	11.1	2.3	1.6	1.1	1.5	-1.3
Goods.....	ID5	121	17.196	24.3	4.4	3.2	2.0	4.4	-3.7
Foods.....	ID5	1211	0.051	95.9	1.7	81.9	8.3	-9.4	-3.0
Energy.....	ID5	1212	5.758	42.6	10.2	5.5	3.0	10.2	-9.8
Goods excluding foods and energy.....	ID5	1213	11.387	14.4	1.1	1.4	1.3	0.7	0.6
Services.....	ID5	122	34.589	4.7	1.2	0.7	0.6	-0.1	0.1
Trade services.....	ID5	1223	3.797	13.6	4.7	0.8	1.2	0.3	-0.1
Transportation and warehousing services.....	ID5	1222	3.611	17.1	4.5	1.8	2.0	1.1	1.6
Transportation of passengers.....	ID5	12221	1.098	22.6	11.1	2.2	3.9	3.9	1.1
Transportation and warehousing of goods.....	ID5	12222	2.513	14.5	1.8	1.5	1.1	-0.2	1.8
Services less trade, transportation, and warehousing.....	ID5	1221	27.181	1.9	0.2	0.5	0.4	-0.3	-0.1
Construction.....	ID5	123	0.005	12.9	1.2	0.8	0.8	0.9	1.3
Inputs to stage 1 construction producers.....	ID5	13	12.903	14.4	4.8	1.2	0.2	0.6	-1.6
Goods.....	ID5	131	8.482	19.7	3.4	2.2	1.1	2.4	-1.7
Energy.....	ID5	1312	0.827	65.5	18.5	9.3	3.0	12.3	-13.7
Goods excluding foods and energy.....	ID5	1313	7.655	14.7	1.6	1.2	0.9	0.9	0.4
Services.....	ID5	132	4.421	5.4	7.3	-0.6	-1.5	-2.7	-1.6
Trade services.....	ID5	1323	3.756	3.1	7.8	-1.1	-2.1	-3.1	-1.8
Transportation and warehousing services.....	ID5	1322	0.609	21.9	4.7	2.1	2.4	-0.5	-0.2
Transportation and warehousing of goods.....	ID5	13222	0.609	21.9	4.7	2.1	2.4	-0.5	-0.2
Services less trade, transportation, and warehousing.....	ID5	1321	0.056	6.2	0.4	0.5	1.1	1.0	0.0
Special Groupings of Intermediate Demand by Production Flow									
Total goods inputs to stage 4 intermediate demand.....	ID5	9411	47.579	13.7	1.6	1.3	1.4	1.1	-0.9
Total services inputs to stage 4 intermediate demand.....	ID5	9412	52.333	4.6	0.8	0.7	0.4	-0.4	-0.4
Total construction inputs to stage 4 intermediate demand.....	ID5	9413	0.086	12.9	1.2	0.8	0.8	0.9	1.3
Total foods inputs to stage 4 intermediate demand.....	ID5	9414	5.541	13.6	3.6	2.3	0.7	0.1	-1.4

See footnotes at end of table.

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

Grouping	Commodity code		Relative Importance Dec. 2021 ¹	Unadjusted 12-month percent change ² July 2021 to July 2022 ^p	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			Feb. to Mar.	Mar. to Apr. ^p	Apr. to May ^p	May to June ^p	June to July ^p
Total energy goods inputs to stage 4 intermediate demand.....	ID5	9415	4.770	29.3	3.9	2.5	3.3	8.3	-5.9
Total goods less foods and energy inputs to stage 4 intermediate demand.	ID5	9416	37.268	11.6	1.0	0.9	1.2	0.3	0.0
Total goods inputs to stage 3 intermediate demand.....	ID5	9311	51.033	23.6	4.5	3.8	2.5	1.4	-2.6
Total services inputs to stage 3 intermediate demand.....	ID5	9312	48.053	7.1	1.6	1.3	0.6	-0.4	0.3
Total construction inputs to stage 3 intermediate demand.....	ID5	9313	0.915	12.9	1.2	0.8	0.8	0.9	1.3
Total foods inputs to stage 3 intermediate demand.....	ID5	9314	11.511	32.2	7.8	5.8	0.2	-0.6	0.0
Total energy goods inputs to stage 3 intermediate demand.....	ID5	9315	7.650	62.1	14.0	9.0	5.7	8.1	-10.3
Total goods less foods and energy inputs to stage 3 intermediate demand.	ID5	9316	31.872	11.1	0.6	1.3	2.3	-0.1	-0.7
Total goods inputs to stage 2 intermediate demand.....	ID5	9211	48.656	25.0	0.3	4.6	6.7	5.2	-11.9
Total services inputs to stage 2 intermediate demand.....	ID5	9212	49.310	7.0	1.3	0.8	0.1	0.2	0.8
Total construction inputs to stage 2 intermediate demand.....	ID5	9213	2.033	12.9	1.2	0.8	0.8	0.9	1.3
Total foods inputs to stage 2 intermediate demand.....	ID5	9214	3.204	11.5	4.8	2.0	0.7	1.9	-4.9
Total energy goods inputs to stage 2 intermediate demand.....	ID5	9215	20.608	46.5	-3.4	8.6	14.1	10.3	-20.9
Total goods less foods and energy inputs to stage 2 intermediate demand.	ID5	9216	24.844	10.5	3.3	1.3	0.1	-0.5	-0.9
Total goods inputs to stage 1 intermediate demand.....	ID5	9111	51.643	18.8	3.3	2.7	2.2	2.5	-3.0
Total services inputs to stage 1 intermediate demand.....	ID5	9112	48.351	5.3	2.2	0.8	0.7	-0.6	-0.1
Total construction inputs to stage 1 intermediate demand.....	ID5	9117	0.006	12.9	1.2	0.8	0.8	0.9	1.3
Total foods inputs to stage 1 intermediate demand.....	ID5	9114	3.232	12.8	8.5	3.6	0.6	0.6	-5.5
Total energy goods inputs to stage 1 intermediate demand.....	ID5	9115	10.297	43.4	7.6	6.5	4.4	10.2	-9.9
Total goods less foods and energy inputs to stage 1 intermediate demand.	ID5	9116	38.114	12.9	1.7	1.4	1.6	0.2	-0.3

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
[July 2022]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		July 2021 to July 2022 ^P	Feb. to Mar.	Mar. to Apr. ^P	Apr. to May ^P	May to June ^P
Final Demand								
Final demand.....	FD	4	9.8	1.7	0.5	0.8	1.0	-0.5
Final demand goods.....	FD	41	14.8	2.4	1.3	1.5	2.3	-1.8
Final demand foods.....	FD	411	15.0	2.4	1.5	0.5	-0.2	1.0
Fresh fruits and melons ²	01	11	21.2	-8.0	8.3	-1.1	-1.6	2.0
Fresh and dry vegetables ²	01	13	61.5	42.4	-26.6	3.5	0.0	12.7
Grains.....	01	2	12.2	16.0	3.6	0.7	1.9	-11.8
Eggs for fresh use ²	01	7107	171.5	-14.3	82.0	-0.3	-23.8	44.2
Oilseeds.....	01	8301	5.7	5.6	1.3	-0.6	4.8	-13.7
Bakery products ²	02	11	12.7	0.4	0.9	0.9	0.3	1.7
Milled rice ²	02	13	19.0	0.7	0.8	1.9	1.1	3.7
Pasta products ²	02	1402	32.6	0.4	2.5	0.7	0.0	5.9
Beef and veal.....	02	2101	-4.4	-7.3	-2.6	-9.5	1.7	9.5
Pork.....	02	2104	-7.7	4.0	3.5	-7.5	-2.3	-0.5
Processed young chickens.....	02	2203	18.3	1.0	-0.4	4.7	4.1	-2.2
Processed turkeys.....	02	2206	42.8	0.9	8.9	5.2	-2.0	1.9
Finfish and shellfish.....	02	23	9.2	3.5	0.2	-1.8	-0.8	1.6
Dairy products.....	02	3	21.3	3.3	3.1	0.9	0.5	-0.4
Processed fruits and vegetables ²	02	4	12.5	1.0	1.2	3.6	-0.1	1.1
Confectionery end products ²	02	55	9.5	0.7	0.4	0.5	0.2	2.8
Soft drinks ²	02	62	11.3	0.1	1.2	-0.8	0.7	0.3
Roasted coffee ²	02	6301	12.8	0.9	-0.2	0.8	2.3	-2.3
Shortening and cooking oils ²	02	78	13.0	7.6	1.6	4.6	-0.4	-11.7
Frozen specialty food ²	02	85	15.9	0.8	2.0	1.5	0.3	1.1
Final demand energy.....	FD	412	36.8	6.6	1.6	4.8	9.4	-9.0
Liquefied petroleum gas ²	05	32	36.6	15.0	-3.4	4.1	3.4	-11.8
Residential electric power.....	05	41	12.3	2.3	1.0	0.8	1.9	0.4
Residential natural gas.....	05	51	29.9	0.2	3.0	5.6	6.5	-2.3
Gasoline.....	05	71	48.9	5.7	-3.1	8.6	18.2	-16.7
Home heating oil and distillates.....	05	7302	77.9	23.8	9.0	3.5	5.3	-11.6
No. 2 diesel fuel.....	05	7303	71.3	21.6	8.4	2.4	13.6	-16.6
Final demand goods less foods and energy.....	FD	413	8.5	1.1	1.1	0.7	0.4	0.2
Alcoholic beverages.....	02	61	5.1	1.3	0.9	0.2	0.2	0.0
Pet food ²	02	9402	10.1	0.2	0.3	3.3	0.0	1.0
Women's, girls', and infants' apparel ²	03	8106	1.7	-0.1	0.1	0.3	0.0	0.1
Men's and boys' apparel ²	03	8107	10.5	2.8	0.5	0.1	0.1	0.6
Textile housefurnishings ²	03	82	7.1	0.1	2.0	0.0	0.3	1.2
Footwear.....	04	3	7.6	0.5	0.6	1.4	0.2	0.4
Industrial chemicals.....	06	1	19.5	3.6	0.6	3.5	1.2	1.9
Pharmaceutical preparations.....	06	38	2.3	0.1	0.2	0.1	0.2	0.5
Soaps and detergents ²	06	71	11.1	0.6	0.4	2.4	0.7	0.3
Cleaning and polishing products ²	06	72	7.3	0.3	0.2	0.6	0.5	0.2
Cosmetics and other toiletries ²	06	75	6.1	0.0	0.1	0.6	0.8	0.2
Tires ²	07	1201	13.5	0.1	3.1	0.7	0.6	1.4
Consumer, institutional, and commercial products, n.e.c. ²	07	2B	27.4	1.1	1.6	2.4	1.9	1.1
Sanitary paper products ²	09	1501	12.0	1.0	0.3	2.4	1.5	1.2
Iron and steel scrap ²	10	12	-19.7	24.9	0.1	-11.9	-11.6	-11.2
Agricultural machinery and equipment.....	11	1	17.8	0.7	3.0	0.7	1.7	-0.1
Construction machinery and equipment ²	11	2	11.1	0.3	2.7	0.3	1.2	0.2
Metal cutting machine tools ²	11	37	4.4	0.0	0.0	0.5	0.2	0.0
Metal forming machine tools.....	11	38	5.3	0.1	0.5	2.6	0.6	0.3
Tools, dies, jigs, fixtures, and industrial molds ²	11	39	8.4	1.1	1.5	0.5	0.3	0.1
Pumps, compressors, and equipment.....	11	41	15.5	0.8	1.6	2.4	1.1	0.9
Industrial material handling equipment ²	11	44	15.4	0.6	2.6	1.0	0.9	0.8
Electronic computers and computer equipment ²	11	5	6.9	0.9	0.0	0.6	-0.2	0.7
Textile machinery and equipment ²	11	62	6.4	0.0	0.0	0.3	0.0	0.0
Paper industries machinery ²	11	64	11.2	0.4	1.0	1.4	2.5	0.1
Printing trades machinery and equipment ²	11	65	6.4	-0.2	0.2	0.3	0.6	0.0
Transformers and power regulators ²	11	74	34.6	6.3	3.1	1.1	4.0	1.3
Communication and related equipment.....	11	76	6.7	0.0	0.3	0.8	0.6	1.1
Electronic components and accessories.....	11	78	4.3	0.5	-0.3	0.4	0.6	-0.2
X-ray and electromedical equipment ²	11	7905	4.4	0.0	0.0	1.0	0.4	1.7
Oil field and gas field machinery ²	11	91	5.2	0.1	0.0	1.1	0.4	0.0
Mining machinery and equipment ²	11	92	15.0	2.4	4.6	1.0	0.3	0.0
Office and store machines and equipment ²	11	93	2.2	0.0	0.0	0.8	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
 [July 2022]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		July 2021 to July 2022 ^P	Feb. to Mar.	Mar. to Apr. ^P	Apr. to May ^P	May to June ^P
Household furniture ²	12	1	12.3	1.4	0.4	1.3	0.4	2.2
Commercial furniture ²	12	2	12.5	1.8	0.3	0.8	2.3	0.0
Floor coverings ²	12	3	2.1	-0.8	-1.0	-0.6	0.5	0.0
Household appliances ²	12	4	13.5	1.0	4.1	0.8	1.0	-0.1
Home electronic equipment ²	12	5	9.5	1.4	0.0	0.2	0.4	0.0
Lawn and garden equipment excl. garden tractors ²	12	66	9.9	0.1	2.2	1.2	0.6	0.4
Passenger cars.....	14	1101	3.0	0.3	0.7	0.5	0.6	0.2
Light motor trucks.....	14	1105	4.9	0.7	1.3	0.3	0.3	0.7
Heavy motor trucks ²	14	1106	2.9	0.0	0.0	1.4	0.4	0.2
Motor vehicles parts ²	14	12	4.7	0.3	0.6	0.2	0.4	0.2
Truck trailers ²	14	14	33.0	0.6	1.5	0.4	0.9	0.2
Travel trailers and campers ²	14	16	18.3	0.5	1.2	1.1	0.1	0.1
Aircraft.....	14	21	4.7	1.5	0.4	0.3	0.5	0.3
Ships ²	14	31	6.8	0.1	-0.1	1.4	0.1	0.0
Railroad equipment ²	14	4	2.3	0.0	0.0	0.1	0.0	0.0
Toys, games, and children's vehicles ²	15	11	4.5	-0.4	0.0	0.0	0.0	0.0
Sporting and athletic goods.....	15	12	19.9	0.1	0.1	2.5	4.8	0.1
Cigarettes ²	15	21	10.6	0.0	0.8	2.6	0.0	1.0
Mobile homes ²	15	5	15.2	3.0	0.6	0.6	-0.2	-0.7
Medical, surgical & personal aid devices.....	15	6	2.6	0.5	0.3	-0.2	0.3	0.1
Jewelry, platinum and karat gold ²	15	9402	6.5	5.8	0.7	1.4	-0.1	-2.9
Costume jewelry and novelties ²	15	9404	6.9	0.0	0.0	0.0	0.0	0.0
Final demand services.....	FD	42	6.9	1.3	0.0	0.5	0.3	0.1
Final demand trade services ³	FD	423	13.7	2.3	0.2	0.7	0.5	0.3
Machinery and equipment parts and supplies wholesaling ²	57	1102	8.6	0.3	-1.0	0.6	0.8	-1.6
Machinery and vehicle wholesaling ²	57	1103	31.0	2.8	1.6	-2.3	0.7	0.8
Professional and commercial equipment wholesaling ²	57	1104	0.2	2.7	-1.1	2.3	-1.9	0.4
Furnishings wholesaling ²	57	2	21.3	2.3	1.1	1.6	-3.0	2.3
Chemicals and allied products wholesaling ²	57	5	5.1	0.7	1.3	5.2	-3.7	-0.2
Paper and plastics products wholesaling ²	57	6	23.1	6.5	3.8	2.7	-0.3	-0.7
Apparel wholesaling ²	57	7	2.4	4.0	-0.1	-4.4	2.8	-1.5
Food and alcohol wholesaling ²	57	8	14.2	2.4	1.0	-0.5	1.0	0.5
Food and alcohol retailing.....	58	1	15.8	0.2	0.4	1.6	4.7	-1.2
Health, beauty, and optical goods retailing ²	58	2	-1.1	-4.1	-1.5	7.5	-4.7	0.3
Apparel, jewelry, footwear, and accessories retailing.....	58	3	4.5	-0.3	-1.3	2.8	-0.2	-1.3
Computer hardware, software, and supplies retailing ²	58	4	5.4	0.6	-0.4	-3.0	5.1	-1.8
TV, video, and photographic equipment and supplies retailing ²	58	5	-16.1	-1.1	-3.7	-5.5	10.8	3.8
Automobiles retailing (partial).....	58	6101	36.7	-3.0	-0.3	5.7	-2.0	2.0
Automotive parts, including tires, retailing ²	58	6102	18.4	1.8	1.2	1.5	3.1	2.5
RVs, trailers, and campers retailing ²	58	8	-16.3	0.6	-6.1	-0.7	-14.9	-11.3
Sporting goods, including boats, retailing.....	58	9	-2.2	1.8	-2.3	0.1	-2.2	-0.6
Lawn, garden, and farm equipment and supplies retailing ²	58	A	28.7	-0.5	2.2	5.1	4.5	2.1
Furniture retailing ²	58	B	30.8	3.8	-5.5	5.5	4.9	-0.1
Flooring and floor coverings retailing ²	58	C	22.5	-1.0	3.7	-2.2	-1.0	-1.5
Hardware, building materials, and supplies retailing.....	58	D	-4.2	11.4	-3.1	-5.4	-5.8	-3.8
Major household appliances retailing.....	58	E	9.8	-2.3	4.7	-1.0	-0.8	1.4
Fuels and lubricants retailing.....	58	F	35.3	26.4	3.2	-21.2	3.0	12.3
Cleaning supplies and paper products retailing ²	58	G	19.5	0.6	4.7	0.5	1.2	0.1
Book retailing ²	58	H	1.5	2.0	-0.3	-1.7	0.7	0.3
Final demand transportation and warehousing services.....	FD	422	20.3	5.6	2.1	2.6	0.7	0.4
Rail transportation of freight and mail ²	30	11	11.8	0.7	2.7	2.0	0.5	1.2
Truck transportation of freight ²	30	12	21.7	4.9	1.9	2.1	-0.5	-0.3
Air transportation of freight ²	30	14	15.9	3.5	1.8	-0.1	3.3	-0.7
Courier, messenger, and U.S. postal services.....	30	16	12.1	1.0	1.3	1.2	-0.1	2.2
Rail transportation of passengers.....	30	21	2.9	0.0	0.8	0.1	1.7	0.1
Airline passenger services.....	30	22	22.6	11.1	2.2	3.9	3.9	1.1
Final demand services less trade, transportation, and warehousing.....	FD	421	2.1	0.4	-0.3	0.1	0.2	-0.1
Sales of books ²	33	11	7.0	0.5	0.2	0.8	0.0	0.6
Sales and subscriptions of periodicals and newspapers.....	33	12	2.0	0.0	-0.6	0.3	0.1	0.5
Application software publishing ²	34	2	0.4	3.8	-1.0	1.1	0.1	-0.1
Advertising space sales in periodicals, newspapers, directories, and mailing lists ²	36	1	0.7	1.5	-1.0	0.5	0.3	-0.7
Residential wired telecommunication services.....	37	11	1.5	-0.2	0.0	0.5	0.1	0.5
Wireless telecommunication services.....	37	2	0.8	-0.1	-0.1	0.5	0.2	0.0
Cable and satellite subscriber services.....	37	3	3.9	0.3	0.1	0.5	0.7	1.1
Internet access services ²	37	4	-1.2	0.0	-0.1	-0.3	-0.5	-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
 [July 2022]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		July 2021 to July 2022 ^P	Feb. to Mar.	Mar. to Apr. ^P	Apr. to May ^P	May to June ^P
Bundled wired telecommunications access services ²	37	5	6.7	0.1	0.0	0.0	-0.5	3.2
Consumer loans (partial).....	39	12	1.6	1.1	1.8	-1.1	-0.1	1.5
Deposit services (partial) ²	39	2	-5.9	-5.1	-1.1	-0.2	1.8	0.2
Other credit intermediation, incl. trust services (partial) ²	39	3	-1.2	-0.2	0.1	-1.0	0.4	0.2
Securities brokerage, dealing, investment advice, and related services ² ...	40	1	-6.7	-4.4	-0.4	5.3	-4.5	0.2
Portfolio management ²	40	2	-14.3	-1.3	-2.1	-2.0	-2.7	-7.9
Life insurance ²	41	1101	3.1	0.1	-0.1	0.0	0.0	0.4
Disability insurance, including accidental death ²	41	1102	-0.1	0.0	0.0	0.0	0.0	0.0
Health and medical insurance.....	41	1103	1.9	0.0	0.1	0.1	0.2	0.0
Property and casualty insurance ²	41	1104	1.1	0.1	0.1	0.2	0.5	0.0
Annuities ²	41	2	-2.5	1.3	-0.4	-0.1	-0.8	-0.4
Residential property sales and leases, brokerage fees and commissions..	43	21	10.5	0.8	-0.5	0.8	0.8	0.6
Passenger car rental.....	44	1	-4.2	7.9	9.3	-5.3	-3.8	-3.0
Legal services.....	45	1	3.8	0.4	-0.2	-0.2	0.0	0.4
Tax preparation and planning.....	45	2102	6.3	0.4	0.0	0.3	2.9	1.8
Architectural and engineering services.....	45	3	4.9	0.8	0.3	0.2	0.4	0.1
Management, scientific, and technical consulting services.....	45	4	0.0	0.2	-0.2	-0.4	-0.4	-0.4
Arrangement of flights (partial).....	47	1	2.0	1.0	-0.1	0.1	0.6	1.9
Arrangement of vehicle rentals and lodging ²	47	2	3.0	-0.7	1.9	-0.3	-0.6	-1.8
Arrangement of cruises and tours ²	47	3	3.8	-0.2	-1.7	4.4	7.3	2.8
Physician care.....	51	1101	0.7	0.0	-0.1	0.1	0.1	0.1
Medical laboratory and diagnostic imaging care ²	51	1102	-0.2	0.0	-0.1	0.1	0.0	-0.2
Home health and hospice care.....	51	1103	1.9	0.3	-0.4	0.1	0.1	-0.1
Hospital outpatient care ²	51	1104	4.1	0.0	0.2	0.0	0.8	0.7
Dental care.....	51	1105	3.5	0.0	0.2	0.0	0.2	0.0
Hospital inpatient care.....	51	2101	4.0	0.3	-0.4	0.4	0.5	0.3
Nursing home care.....	51	2102	1.9	0.2	0.1	0.2	0.2	0.0
Traveler accommodation services.....	53	11	17.6	12.2	-3.7	-2.4	6.5	-0.4
Food and beverages for immediate consumption services (partial) ²	54	1	-0.2	1.2	-1.1	1.2	0.4	0.7
Motor vehicle repair and maintenance (partial).....	55	2	3.9	0.6	0.4	0.6	-0.1	0.1
Membership dues and admissions and recreation facility use fees (partial) ²	56	1	4.8	1.0	0.5	-1.9	0.2	0.8
Recreational activity instruction fees (partial) ²	56	2	1.4	0.0	1.1	0.2	0.0	0.1
Gaming receipts (partial) ²	56	3	-0.3	1.9	-4.3	2.6	-1.3	1.8
Mining services ²	60	1	11.7	1.7	0.0	2.2	0.3	0.2
Final demand construction.....	FD	43	23.1	0.6	3.6	0.3	0.5	5.1
New warehouse building construction ²	80	1101	33.2	0.4	4.7	-0.1	-0.2	5.6
New school building construction ²	80	1102	19.5	0.5	4.1	0.0	0.2	5.2
New office building construction ²	80	1103	24.2	0.9	2.8	0.5	1.0	4.7
New industrial building construction ²	80	1104	28.2	0.2	4.5	0.7	0.7	6.2
New health care building construction ²	80	1105	21.0	0.6	4.2	0.1	0.2	5.9
Intermediate Demand by Commodity Type								
Processed goods for intermediate demand.....	ID6	1	17.4	2.3	2.1	2.3	2.1	-2.3
Processed foods and feeds.....	ID6	9112	14.4	2.1	3.2	1.1	-0.1	-0.1
Meats.....	02	21	-2.7	-2.1	-0.5	-6.0	-0.9	3.8
Processed poultry.....	02	22	26.5	2.6	2.5	5.2	3.2	-1.8
Dairy products.....	02	3	21.3	3.3	3.1	0.9	0.5	-0.4
Processed fruits and vegetables ²	02	4	12.5	1.0	1.2	3.6	-0.1	1.1
Refined sugar and byproducts ²	02	53	6.9	0.8	0.3	0.9	0.0	0.5
Fats and oils ²	02	7	13.6	6.9	1.4	3.8	-0.8	-9.0
Prepared animal feeds ²	02	9	12.8	3.2	1.8	1.6	-0.1	0.2
Processed materials less foods and feeds.....	ID6	9111	17.7	2.3	2.0	2.4	2.3	-2.5
Synthetic fibers ²	03	1	7.0	0.6	2.0	-0.1	0.4	1.7
Processed yarns and threads ²	03	2	30.5	3.7	6.2	1.7	0.4	0.5
Finished fabrics ²	03	4	13.8	0.9	1.3	1.9	0.6	0.6
Liquefied petroleum gas ²	05	32	36.6	15.0	-3.4	4.1	3.4	-11.8
Commercial electric power.....	05	42	14.3	3.1	-0.2	-1.3	5.4	1.8
Industrial electric power.....	05	43	12.1	-1.1	0.5	1.4	0.3	2.4
Commercial natural gas.....	05	52	35.2	0.2	5.4	9.2	7.8	-3.1
Industrial natural gas.....	05	53	40.7	-7.8	6.4	15.9	10.9	-9.4
Natural gas to electric utilities.....	05	54	32.8	-19.6	9.9	23.3	15.8	-19.0
Gasoline.....	05	71	48.9	5.7	-3.1	8.6	18.2	-16.7
Jet fuel ²	05	7203	98.5	23.4	13.3	10.0	-2.7	-3.8
No. 2 diesel fuel.....	05	7303	71.3	21.6	8.4	2.4	13.6	-16.6
Residual fuels ²	05	74	37.2	10.8	8.4	0.7	6.3	-4.2

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
 [July 2022]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		July 2021 to July 2022 ^P	Feb. to Mar.	Mar. to Apr. ^P	Apr. to May ^P	May to June ^P
Finished lubricants ²	05	76	22.0	1.1	4.6	-0.1	5.1	3.1
Lubricating oil base stocks ²	05	78	41.4	3.1	13.2	9.2	10.2	0.1
Asphalt.....	05	8102	73.8	7.1	18.9	13.4	2.0	-4.6
Basic inorganic chemicals ²	06	13	27.8	1.3	2.7	3.5	1.2	3.7
Basic organic chemicals.....	06	14	18.3	4.0	0.3	3.5	1.1	1.7
Prepared paint ²	06	21	25.8	1.0	5.3	1.0	2.5	0.7
Paint materials ²	06	22	14.2	0.2	3.0	3.6	1.6	0.3
Medicinal and botanical chemicals ²	06	31	1.7	0.0	0.1	-1.1	0.5	0.3
Biological products, including diagnostics.....	06	37	4.9	-0.2	0.9	0.2	0.4	0.4
Fats and oils, inedible ²	06	4	1.7	9.4	0.4	3.3	2.2	-7.9
Nitrogenates.....	06	5201	66.4	6.7	6.6	-0.7	-3.9	-2.5
Phosphates.....	06	5202	-	6.7	3.0	-2.4	-5.6	-
Other agricultural chemicals ²	06	53	33.7	0.0	11.7	0.1	0.9	4.8
Plastic resins and materials.....	06	6	0.3	-1.2	5.4	0.9	1.2	-2.3
Industrial gases ²	06	7903	20.5	3.5	0.1	1.3	1.0	0.1
Adhesives and sealants ²	06	7904	20.3	0.8	2.6	1.0	3.1	0.0
Synthetic rubber ²	07	1102	16.4	0.8	3.3	0.6	2.0	4.0
Tires ²	07	1201	13.5	0.1	3.1	0.7	0.6	1.4
Plastic construction products ²	07	21	22.4	1.5	1.5	1.5	1.2	1.0
Unsupported plastic film, sheet, other shapes ²	07	22	14.7	1.6	1.0	0.9	2.0	0.1
Parts for manufacturing from plastics ²	07	26	11.9	0.8	0.6	0.7	2.0	0.5
Plastic packaging products ²	07	2A	15.2	0.5	1.7	1.0	1.3	1.3
Softwood lumber.....	08	11	-7.0	5.5	-15.9	-0.1	-22.6	2.3
Hardwood lumber ²	08	12	5.3	0.1	0.3	4.1	-0.8	-1.4
Millwork.....	08	2	13.0	0.9	2.0	0.7	-0.8	-0.3
Plywood ²	08	3	-20.7	7.1	-6.9	-4.0	-2.2	-2.4
Paper ²	09	13	12.1	0.7	1.3	0.9	0.7	1.4
Paperboard ²	09	14	19.8	1.3	1.9	1.1	2.9	1.1
Paper boxes and containers ²	09	1503	18.4	0.4	2.5	2.5	0.4	0.6
Building paper and board ²	09	2	-29.4	13.9	-11.7	-12.8	-13.8	-2.9
Commercial printing ²	09	47	18.1	2.4	1.3	3.0	1.1	-0.1
Foundry and forge shop products ²	10	15	20.8	5.0	2.2	2.1	1.1	0.4
Steel mill products ²	10	17	6.4	-5.9	2.7	10.5	-1.7	-3.7
Primary nonferrous metals ²	10	22	-6.8	1.8	0.8	-10.6	-2.0	-10.5
Secondary nonferrous metals ²	10	24	-2.5	1.8	4.3	-3.2	-2.6	-9.4
Aluminum mill shapes ²	10	2501	12.5	2.5	3.4	-3.1	-4.6	-4.0
Copper and brass mill shapes ²	10	2502	-7.9	2.8	2.2	-4.1	-1.3	-9.7
Nonferrous wire and cable ²	10	26	7.6	3.4	1.3	-0.2	-1.3	-3.2
Nonferrous foundry shop products.....	10	28	14.3	0.8	3.7	0.8	0.2	0.5
Metal containers ²	10	3	24.1	-0.5	2.5	0.9	0.1	-1.4
Hardware ²	10	4	13.2	0.6	0.1	0.3	0.2	1.3
Plumbing fixtures and brass fittings.....	10	5	11.4	0.5	2.1	0.3	0.4	0.8
Heating equipment ²	10	6	17.3	0.7	0.3	1.0	0.3	0.8
Fabricated structural metal products.....	10	7	21.3	1.1	1.6	1.0	0.5	-0.8
Bolts, nuts, screws, rivets, and washers ²	10	81	20.5	0.3	2.6	4.1	0.5	1.5
Lighting fixtures ²	10	83	8.6	1.4	1.0	0.1	0.5	0.3
Fabricated ferrous wire products ²	10	88	25.1	1.5	2.1	0.8	0.7	0.4
Other miscellaneous metal products ²	10	89	12.0	1.6	0.4	1.1	0.4	0.3
Fluid power equipment.....	11	43	14.6	0.7	1.6	0.4	1.7	1.1
Mechanical power transmission equipment ²	11	45	12.0	1.4	1.0	1.7	0.5	0.7
Air conditioning and refrigeration equipment ²	11	48	25.3	1.8	2.7	1.3	1.9	0.3
Metal valves, except fluid power.....	11	4902	13.0	0.5	1.4	3.1	0.2	0.3
Ball and roller bearings ²	11	4905	11.2	1.8	0.0	0.7	2.8	2.3
Wiring devices ²	11	71	19.4	0.1	2.0	0.5	2.8	-0.6
Motors, generators, motor generator sets ²	11	73	17.9	0.4	1.0	0.5	0.6	1.8
Switchgear, switchboard, and industrial controls equip. ²	11	75	20.7	2.6	0.4	0.6	3.0	1.0
Electronic components and accessories.....	11	78	4.3	0.5	-0.3	0.4	0.6	-0.2
Internal combustion engines ²	11	94	7.7	0.0	1.7	1.0	0.0	0.9
Machine shop products ²	11	95	7.9	0.1	0.7	1.9	1.0	0.0
Flat glass ²	13	11	6.9	-0.9	0.7	0.1	0.0	0.1
Cement.....	13	22	8.9	0.4	0.0	0.1	0.5	1.8
Concrete products.....	13	3	14.3	0.3	1.6	1.2	1.6	2.1
Asphalt felts and coatings ²	13	6	17.8	1.4	1.1	1.4	1.5	-0.2
Paving mixtures and blocks.....	13	94	21.9	1.7	2.7	3.9	2.5	2.8
Motor vehicle parts ²	14	12	4.7	0.3	0.6	0.2	0.4	0.2
Aircraft engines and engine parts.....	14	23	3.1	1.2	0.4	0.2	0.6	0.4

See footnotes at end of table.

Table 2. Producer price index percentage changes for selected commodity groupings by Final Demand-Intermediate Demand category, seasonally adjusted — Continued
 [July 2022]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		July 2021 to July 2022 ^P	Feb. to Mar.	Mar. to Apr. ^P	Apr. to May ^P	May to June ^P
Aircraft parts and auxiliary equipment, n.e.c.....	14	25	2.2	0.0	-0.1	0.2	0.3	0.1
Medical, surgical, and personal aid devices.....	15	6	2.6	0.5	0.3	-0.2	0.3	0.1
Unprocessed goods for intermediate demand.....	ID6	2	27.5	2.9	5.5	5.4	4.5	-12.4
Unprocessed foodstuffs and feedstuffs.....	ID6	21	28.9	7.7	4.2	0.2	-0.4	-0.8
Wheat ²	01	21	22.3	24.3	4.3	1.1	-4.1	-22.7
Corn.....	01	2202	9.3	14.5	3.5	0.5	3.8	-8.5
Slaughter cattle.....	01	31	15.0	-0.4	1.2	1.6	5.0	-1.5
Slaughter hogs.....	01	32	12.3	-2.4	2.9	-9.4	-4.0	23.2
Slaughter chickens.....	01	4102	56.6	19.0	5.4	-0.5	2.0	-1.9
Slaughter turkeys.....	01	42	28.5	0.4	4.9	1.5	5.3	6.7
Raw milk.....	01	6	50.3	5.0	4.2	2.2	-1.2	0.3
Hay and hayseeds ²	01	81	55.7	4.3	-11.5	10.1	-1.0	12.5
Oilseeds.....	01	8301	5.7	5.6	1.3	-0.6	4.8	-13.7
Raw cane sugar and byproducts ²	02	5201	16.3	0.8	1.3	0.9	-0.6	1.2
Unprocessed nonfood materials.....	ID6	22	27.1	0.7	6.2	7.8	6.6	-17.2
Raw cotton ²	01	51	24.4	-1.5	12.9	3.7	-0.1	-23.8
Hides and skins.....	04	1	-29.5	-8.7	4.2	-6.0	3.2	-2.3
Coal.....	05	1	60.5	5.3	15.1	1.0	6.1	4.4
Natural gas ²	05	31	61.1	-20.7	20.0	32.1	7.9	-27.6
Crude petroleum ²	05	61	33.4	10.6	0.6	2.1	14.2	-19.1
Logs, bolts, timber, pulpwood, and woodchips ²	08	5	5.9	0.3	0.3	1.1	0.8	0.7
Recyclable paper ²	09	12	9.4	3.0	3.3	-5.6	0.2	2.9
Iron ores.....	10	11	15.8	3.4	-3.7	-3.0	6.6	4.1
Iron and steel scrap ²	10	12	-19.7	24.9	0.1	-11.9	-11.6	-11.2
Nonferrous metal ores ²	10	21	-2.1	6.3	-0.4	-3.7	-1.6	-9.6
Copper base scrap ²	10	2301	-9.8	1.6	1.5	-7.4	-2.7	-8.5
Aluminum base scrap.....	10	2302	-14.8	17.1	-0.1	-8.4	-0.9	-24.6
Construction sand, gravel, and crushed stone.....	13	21	11.5	0.8	0.8	0.7	2.4	0.8
Services for intermediate demand.....	ID6	3	5.7	1.3	0.9	0.5	-0.3	0.1
Trade services for intermediate demand ³	ID6	33	10.0	4.4	1.0	0.6	-0.8	-0.4
Machinery and equipment parts and supplies wholesaling ²	57	1102	8.6	0.3	-1.0	0.6	0.8	-1.6
Building materials, paint, and hardware wholesaling.....	57	3	22.7	3.8	0.2	-1.2	0.6	1.0
Metals, minerals, and ores wholesaling ²	57	4	-3.8	10.0	9.2	4.0	-7.5	-0.2
Chemicals and allied products wholesaling ²	57	5	5.1	0.7	1.3	5.2	-3.7	-0.2
Paper and plastics products wholesaling ²	57	6	23.1	6.5	3.8	2.7	-0.3	-0.7
Food wholesaling ²	57	8101	14.3	2.1	0.9	-1.2	1.0	0.4
Automotive parts, including tires, retailing ²	58	6102	18.4	1.8	1.2	1.5	3.1	2.5
Hardware, building material, and supplies retailing.....	58	D	-4.2	11.4	-3.1	-5.4	-5.8	-3.8
Transportation and warehousing services for intermediate demand.....	ID6	32	13.5	2.1	1.8	0.7	0.0	0.9
Rail transportation of freight and mail ²	30	11	11.8	0.7	2.7	2.0	0.5	1.2
Truck transportation of freight ²	30	12	21.7	4.9	1.9	2.1	-0.5	-0.3
Water transportation of freight ²	30	13	30.2	-0.9	8.2	11.8	-1.6	1.7
Air transportation of freight ²	30	14	15.9	3.5	1.8	-0.1	3.3	-0.7
U.S. Postal Service.....	30	1601	10.7	0.2	0.2	0.3	0.1	5.0
Courier and messenger services, except air mail.....	30	1602	10.7	1.1	1.2	1.0	0.6	0.3
Air mail and package delivery services, excluding by USPS.....	30	1603	19.2	2.6	4.2	3.7	-2.2	0.2
Pipeline transportation ²	30	17	-	-	-	-	0.0	2.9
Transportation of passengers (partial).....	30	2	22.3	10.9	2.2	3.8	3.9	1.1
Services related to water transportation.....	31	1	5.3	0.5	1.1	0.7	0.0	-0.1
Arrangement of freight and cargo ²	31	31	14.7	-1.1	-2.3	-5.5	-5.0	2.3
Warehousing, storage, and related services ²	32	1	11.7	-0.7	5.6	-5.6	3.9	-0.9
Services less trade, transportation, and warehousing for intermediate demand.....	ID6	31	2.7	0.0	0.6	0.4	-0.2	0.1
Network compensation from broadcast TV, cable TV, radio ²	35	-	4.2	0.0	0.0	0.0	1.9	0.0
Advertising space sales in periodicals and newspapers ²	36	11	0.9	1.8	-1.2	0.6	0.4	-0.9
Advertising space sales in directories and mail lists ²	36	12	0.1	0.0	0.0	0.0	0.0	0.0
Television advertising time sales.....	36	2	0.5	1.3	3.3	3.2	-7.5	0.4
Radio advertising time sales.....	36	3	0.5	1.1	-1.9	8.7	-3.1	-7.1
Internet advertising space sales, excluding Internet ads sold by print publishers ²	36	5	15.6	4.4	1.0	1.5	3.3	1.7
Business wired telecommunication services ²	37	12	1.0	0.0	0.0	0.0	0.7	0.3
Wireless telecommunication services.....	37	2	0.8	-0.1	-0.1	0.5	0.2	0.0
Cable and satellite subscriber services.....	37	3	3.9	0.3	0.1	0.5	0.7	1.1
Bundled wired telecommunication access services ²	37	5	6.7	0.1	0.0	0.0	-0.5	3.2
Data processing and related services ²	38	1	-1.2	-0.8	0.1	0.1	-0.1	-0.3
Business loans (partial).....	39	11	27.2	1.7	4.3	3.8	4.8	8.3

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
[July 2022]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		July 2021 to July 2022 ^P	Feb. to Mar.	Mar. to Apr. ^P	Apr. to May ^P	May to June ^P
Deposit services (partial) ²	39	2	-5.9	-5.1	-1.1	-0.2	1.8	0.2
Other credit intermediation, incl. trust services (partial) ²	39	3	-1.2	-0.2	0.1	-1.0	0.4	0.2
Securities brokerage, dealing, investment advice, and related services ²	40	1	-6.7	-4.4	-0.4	5.3	-4.5	0.2
Portfolio management ²	40	2	-14.3	-1.3	-2.1	-2.0	-2.7	-7.9
Investment banking ²	40	3	-3.9	-5.7	-0.6	-0.6	-4.5	0.0
Life insurance ²	41	1101	3.1	0.1	-0.1	0.0	0.0	0.4
Health and medical insurance.....	41	1103	1.9	0.0	0.1	0.1	0.2	0.0
Property and casualty insurance ²	41	1104	1.1	0.1	0.1	0.2	0.5	0.0
Annuities ²	41	2	-2.5	1.3	-0.4	-0.1	-0.8	-0.4
Commissions from sales of insurance ²	42	1	0.2	0.0	-0.1	0.0	0.0	0.0
Nonresidential real estate rents ²	43	11	-0.3	-0.7	3.7	-1.4	-1.4	-0.4
Nonresidential property sales and leases ²	43	12	6.0	0.0	0.2	0.6	0.5	0.4
Residential property management fees ²	43	22	2.8	0.2	0.5	-0.9	-0.1	0.3
Passenger car rental.....	44	1	-4.2	7.9	9.3	-5.3	-3.8	-3.0
Truck, utility trailer, and RV rental and leasing ²	44	2	5.7	1.8	1.7	-1.7	2.5	0.9
Construction, mining, and forestry machinery and equipment rental and leasing ²	44	3	4.3	-0.1	0.1	1.7	1.5	-0.4
Legal services.....	45	1	3.8	0.4	-0.2	-0.2	0.0	0.4
Accounting services (partial).....	45	2	5.5	0.9	0.6	-0.1	1.0	0.9
Architectural and engineering services.....	45	3	4.9	0.8	0.3	0.2	0.4	0.1
Management, scientific, and technical consulting services.....	45	4	0.0	0.2	-0.2	-0.4	-0.4	-0.4
Advertising and related services (partial) ²	45	5	8.5	0.2	0.5	0.0	0.0	0.3
Permanent placement services ²	46	1	4.8	0.2	0.1	0.4	0.4	0.8
Executive search services ²	46	2	-0.4	-1.5	-0.5	3.5	-0.1	-1.4
Staffing services.....	46	3	5.1	0.8	0.6	0.7	0.1	-0.1
Security guard services ²	48	1	8.2	0.1	0.8	-0.2	2.8	0.1
Janitorial services ²	49	1	7.5	0.0	1.1	0.5	0.0	-0.2
Waste collection.....	50	1	8.9	0.5	1.0	0.7	0.8	2.6
Traveler accommodation services.....	53	11	17.6	12.2	-3.7	-2.4	6.5	-0.4
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	9.1	1.1	1.2	0.0	0.3	0.4
Aircraft repair and maintenance.....	55	4	3.1	0.4	0.1	0.2	0.2	0.4
Metal treatment services ²	59	1	12.0	2.1	1.2	0.4	-0.2	1.6
Construction for intermediate demand.....	ID6	4	12.9	1.2	0.8	0.8	0.9	1.3
Maintenance and repair of non-residential buildings (partial) ²	80	2	12.9	1.2	0.8	0.8	0.9	1.3
Intermediate Demand by Production Flow								
Stage 4 intermediate demand.....	ID5	4	8.9	1.2	1.0	0.9	0.4	-0.6
Stage 4 intermediate demand goods.....	ID5	9411	13.7	1.6	1.3	1.4	1.1	-0.9
Grains.....	01	2	12.2	16.0	3.6	0.7	1.9	-11.8
Meats.....	02	21	-2.7	-2.1	-0.5	-6.0	-0.9	3.8
Unprocessed and packaged fish.....	02	23	9.2	3.5	0.2	-1.8	-0.8	1.6
Dairy products.....	02	3	21.3	3.3	3.1	0.9	0.5	-0.4
Commercial electric power.....	05	42	14.3	3.1	-0.2	-1.3	5.4	1.8
Industrial electric power.....	05	43	12.1	-1.1	0.5	1.4	0.3	2.4
Gasoline.....	05	71	48.9	5.7	-3.1	8.6	18.2	-16.7
No. 2 diesel fuel.....	05	7303	71.3	21.6	8.4	2.4	13.6	-16.6
Basic organic chemicals.....	06	14	18.3	4.0	0.3	3.5	1.1	1.7
Prepared paint ²	06	21	25.8	1.0	5.3	1.0	2.5	0.7
Medicinal and botanical chemicals ²	06	31	1.7	0.0	0.1	-1.1	0.5	0.3
Biological products, including diagnostics.....	06	37	4.9	-0.2	0.9	0.2	0.4	0.4
Pharmaceutical preparations.....	06	38	2.3	0.1	0.2	0.1	0.2	0.5
Plastic construction products ²	07	21	22.4	1.5	1.5	1.5	1.2	1.0
Unsupported plastic film, sheet, and other shapes ²	07	22	14.7	1.6	1.0	0.9	2.0	0.1
Parts for manufacturing from plastics ²	07	26	11.9	0.8	0.6	0.7	2.0	0.5
Plastic packaging products ²	07	2A	15.2	0.5	1.7	1.0	1.3	1.3
Lumber.....	08	1	-3.2	4.2	-12.0	1.1	-16.4	1.0
Millwork.....	08	2	13.0	0.9	2.0	0.7	-0.8	-0.3
Paper boxes and containers ²	09	1503	18.4	0.4	2.5	2.5	0.4	0.6
Commercial printing ²	09	47	18.1	2.4	1.3	3.0	1.1	-0.1
Steel mill products ²	10	17	6.4	-5.9	2.7	10.5	-1.7	-3.7
Nonferrous wire and cable ²	10	26	7.6	3.4	1.3	-0.2	-1.3	-3.2
Fabricated structural metal products.....	10	7	21.3	1.1	1.6	1.0	0.5	-0.8
Other miscellaneous metal products ²	10	89	12.0	1.6	0.4	1.1	0.4	0.3
Air conditioning and refrigeration equipment ²	11	48	25.3	1.8	2.7	1.3	1.9	0.3
Wiring devices ²	11	71	19.4	0.1	2.0	0.5	2.8	-0.6

See footnotes at end of table.

Table 2. Producer price index percentage changes for selected commodity groupings by Final Demand-Intermediate Demand category, seasonally adjusted — Continued
[July 2022]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		July 2021 to July 2022 ^P	Feb. to Mar.	Mar. to Apr. ^P	Apr. to May ^P	May to June ^P
Electronic components and accessories.....	11	78	4.3	0.5	-0.3	0.4	0.6	-0.2
Miscellaneous electrical machinery and equipment ²	11	79	7.6	0.5	-0.1	1.0	0.4	1.7
Internal combustion engines ²	11	94	7.7	0.0	1.7	1.0	0.0	0.9
Machine shop products ²	11	95	7.9	0.1	0.7	1.9	1.0	0.0
Concrete ingredients and related products.....	13	2	10.9	0.7	0.6	0.6	1.9	1.1
Concrete products.....	13	3	14.3	0.3	1.6	1.2	1.6	2.1
Prepared asphalt, tar roofing and siding products ²	13	61	18.8	1.6	0.9	2.2	1.5	-0.4
Paving mixtures and blocks.....	13	94	21.9	1.7	2.7	3.9	2.5	2.8
Motor vehicle parts ²	14	12	4.7	0.3	0.6	0.2	0.4	0.2
Aircraft engines and engine parts.....	14	23	3.1	1.2	0.4	0.2	0.6	0.4
Aircraft parts and auxiliary equipment, n.e.c.....	14	25	2.2	0.0	-0.1	0.2	0.3	0.1
Medical, surgical and personal aid devices.....	15	6	2.6	0.5	0.3	-0.2	0.3	0.1
Stage 4 intermediate demand services.....	ID5	9412	4.6	0.8	0.7	0.4	-0.4	-0.4
Truck transportation of freight ²	30	12	21.7	4.9	1.9	2.1	-0.5	-0.3
Courier, messenger, and U.S. postal services.....	30	16	12.1	1.0	1.3	1.2	-0.1	2.2
Airline passenger services.....	30	22	22.6	11.1	2.2	3.9	3.9	1.1
Warehousing, storage, and related services ²	32	1	11.7	-0.7	5.6	-5.6	3.9	-0.9
Advertising space sales in periodicals and newspapers ²	36	11	0.9	1.8	-1.2	0.6	0.4	-0.9
Data processing and related services ²	38	1	-1.2	-0.8	0.1	0.1	-0.1	-0.3
Business loans (partial).....	39	11	27.2	1.7	4.3	3.8	4.8	8.3
Deposit services (partial) ²	39	2	-5.9	-5.1	-1.1	-0.2	1.8	0.2
Securities brokerage, dealing, investment advice, and related services ²	40	1	-6.7	-4.4	-0.4	5.3	-4.5	0.2
Portfolio management ²	40	2	-14.3	-1.3	-2.1	-2.0	-2.7	-7.9
Investment banking ²	40	3	-3.9	-5.7	-0.6	-0.6	-4.5	0.0
Insurance.....	41	11	1.6	0.1	0.2	0.0	0.3	-0.1
Annuities ²	41	2	-2.5	1.3	-0.4	-0.1	-0.8	-0.4
Nonresidential real estate rents ²	43	11	-0.3	-0.7	3.7	-1.4	-1.4	-0.4
Nonresidential property sales and leases ²	43	12	6.0	0.0	0.2	0.6	0.5	0.4
Nonresidential property management fees ²	43	13	7.7	0.0	-0.5	-0.8	1.9	-0.8
Residential property management fees ²	43	22	2.8	0.2	0.5	-0.9	-0.1	0.3
Construction, mining, and forestry machinery and equipment rental and leasing ²	44	3	4.3	-0.1	0.1	1.7	1.5	-0.4
Legal services.....	45	1	3.8	0.4	-0.2	-0.2	0.0	0.4
Advertising agency services ²	45	51	8.5	0.2	0.5	0.0	0.0	0.3
Accounting services (partial).....	45	2	5.5	0.9	0.6	-0.1	1.0	0.9
Architectural and engineering services.....	45	3	4.9	0.8	0.3	0.2	0.4	0.1
Management, scientific, and technical consulting services.....	45	4	0.0	0.2	-0.2	-0.4	-0.4	-0.4
Staffing services.....	46	3	5.1	0.8	0.6	0.7	0.1	-0.1
Janitorial services ²	49	1	7.5	0.0	1.1	0.5	0.0	-0.2
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	9.1	1.1	1.2	0.0	0.3	0.4
Machinery and equipment parts and supplies wholesaling ²	57	1102	8.6	0.3	-1.0	0.6	0.8	-1.6
Building materials, paint, and hardware wholesaling.....	57	3	22.7	3.8	0.2	-1.2	0.6	1.0
Metals, minerals, and ores wholesaling ²	57	4	-3.8	10.0	9.2	4.0	-7.5	-0.2
Chemicals and allied products wholesaling ²	57	5	5.1	0.7	1.3	5.2	-3.7	-0.2
Paper and plastics products wholesaling ²	57	6	23.1	6.5	3.8	2.7	-0.3	-0.7
Food and alcohol wholesaling ²	57	8	14.2	2.4	1.0	-0.5	1.0	0.5
Hardware and building materials and supplies retailing.....	58	D	-4.2	11.4	-3.1	-5.4	-5.8	-3.8
Metal treatment services ²	59	1	12.0	2.1	1.2	0.4	-0.2	1.6
Stage 3 intermediate demand.....	ID5	3	15.4	3.1	2.6	1.6	0.6	-1.2
Stage 3 intermediate demand goods.....	ID5	9311	23.6	4.5	3.8	2.5	1.4	-2.6
Slaughter cattle.....	01	31	15.0	-0.4	1.2	1.6	5.0	-1.5
Slaughter hogs.....	01	32	12.3	-2.4	2.9	-9.4	-4.0	23.2
Slaughter poultry.....	01	4	50.6	15.7	5.2	-0.2	2.5	-0.7
Raw milk.....	01	6	50.3	5.0	4.2	2.2	-1.2	0.3
Commercial electric power.....	05	42	14.3	3.1	-0.2	-1.3	5.4	1.8
Industrial electric power.....	05	43	12.1	-1.1	0.5	1.4	0.3	2.4
Gasoline.....	05	71	48.9	5.7	-3.1	8.6	18.2	-16.7
Jet fuel ²	05	7203	98.5	23.4	13.3	10.0	-2.7	-3.8
No. 2 diesel fuel.....	05	7303	71.3	21.6	8.4	2.4	13.6	-16.6
Finished lubricants ²	05	76	22.0	1.1	4.6	-0.1	5.1	3.1
Lubricating oil base stocks ²	05	78	41.4	3.1	13.2	9.2	10.2	0.1
Asphalt.....	05	8102	73.8	7.1	18.9	13.4	2.0	-4.6
Basic inorganic chemicals ²	06	13	27.8	1.3	2.7	3.5	1.2	3.7
Basic organic chemicals.....	06	14	18.3	4.0	0.3	3.5	1.1	1.7
Paints and allied products ²	06	2	22.8	0.8	4.7	1.5	2.3	0.5

See footnotes at end of table.

Table 2. Producer price index percentage changes for selected commodity groupings by Final Demand-Intermediate Demand category, seasonally adjusted — Continued
[July 2022]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		July 2021 to July 2022 ^P	Feb. to Mar.	Mar. to Apr. ^P	Apr. to May ^P	May to June ^P
Agricultural chemicals and chemical products.....	06	5	33.3	3.8	6.2	-0.5	-3.5	-0.5
Plastic resins and materials.....	06	6	0.3	-1.2	5.4	0.9	1.2	-2.3
Synthetic rubber ²	07	1102	16.4	0.8	3.3	0.6	2.0	4.0
Unsupported plastic film, sheet, and other shapes ²	07	22	14.7	1.6	1.0	0.9	2.0	0.1
Paper ²	09	13	12.1	0.7	1.3	0.9	0.7	1.4
Paperboard ²	09	14	19.8	1.3	1.9	1.1	2.9	1.1
Converted paper and paperboard products ²	09	15	16.1	0.7	1.7	2.3	1.0	0.9
Commercial printing ²	09	47	18.1	2.4	1.3	3.0	1.1	-0.1
Foundry and forge shop products ²	10	15	20.8	5.0	2.2	2.1	1.1	0.4
Steel mill products ²	10	17	6.4	-5.9	2.7	10.5	-1.7	-3.7
Nonferrous mill shapes ²	10	25	7.1	2.3	3.1	-2.9	-3.0	-4.3
Nonferrous foundry shop products.....	10	28	14.3	0.8	3.7	0.8	0.2	0.5
Metal containers ²	10	3	24.1	-0.5	2.5	0.9	0.1	-1.4
Structural, architectural, and pre-engineered metal products.....	10	74	25.0	2.0	1.8	1.0	0.5	-1.4
Bolts, nuts, screws, rivets, and washers ²	10	81	20.5	0.3	2.6	4.1	0.5	1.5
Other miscellaneous metal products ²	10	89	12.0	1.6	0.4	1.1	0.4	0.3
General purpose machinery and equipment.....	11	4	15.8	0.9	1.8	1.4	1.0	0.8
Electrical machinery and equipment.....	11	7	8.8	0.6	0.3	0.7	1.0	0.8
Construction sand, gravel, and crushed stone.....	13	21	11.5	0.8	0.8	0.7	2.4	0.8
Cement.....	13	22	8.9	0.4	0.0	0.1	0.5	1.8
Motor vehicle parts ²	14	12	4.7	0.3	0.6	0.2	0.4	0.2
Aircraft and aircraft equipment.....	14	2	3.8	1.1	0.3	0.3	0.5	0.2
Stage 3 intermediate demand services.....	ID5	9312	7.1	1.6	1.3	0.6	-0.4	0.3
Rail transportation of freight and mail ²	30	11	11.8	0.7	2.7	2.0	0.5	1.2
Courier, messenger, and U.S. postal services.....	30	16	12.1	1.0	1.3	1.2	-0.1	2.2
Arrangement of freight and cargo ²	31	31	14.7	-1.1	-2.3	-5.5	-5.0	2.3
Freight forwarding ²	31	3201	7.2	1.0	5.1	0.0	-1.8	-0.1
Warehousing, storage, and related services ²	32	1	11.7	-0.7	5.6	-5.6	3.9	-0.9
Advertising space sales in periodicals, newspapers, directories, and mailing lists ²	36	1	0.7	1.5	-1.0	0.5	0.3	-0.7
Wired telephone services ²	37	1	1.0	0.0	0.0	0.0	0.4	0.2
Bundled wired telecommunications access services ²	37	5	6.7	0.1	0.0	0.0	-0.5	3.2
Data processing and related services ²	38	1	-1.2	-0.8	0.1	0.1	-0.1	-0.3
Business loans (partial).....	39	11	27.2	1.7	4.3	3.8	4.8	8.3
Deposit services (partial) ²	39	2	-5.9	-5.1	-1.1	-0.2	1.8	0.2
Securities brokerage, dealing, investment advice, and related services ²	40	1	-6.7	-4.4	-0.4	5.3	-4.5	0.2
Insurance.....	41	11	1.6	0.1	0.2	0.0	0.3	-0.1
Nonresidential real estate rents ²	43	11	-0.3	-0.7	3.7	-1.4	-1.4	-0.4
Legal services.....	45	1	3.8	0.4	-0.2	-0.2	0.0	0.4
Accounting services (partial).....	45	2	5.5	0.9	0.6	-0.1	1.0	0.9
Architectural and engineering services.....	45	3	4.9	0.8	0.3	0.2	0.4	0.1
Management, scientific, and technical consulting services.....	45	4	0.0	0.2	-0.2	-0.4	-0.4	-0.4
Advertising agency services ²	45	51	8.5	0.2	0.5	0.0	0.0	0.3
Staffing services.....	46	3	5.1	0.8	0.6	0.7	0.1	-0.1
Aircraft repair maintenance.....	55	4	3.1	0.4	0.1	0.2	0.2	0.4
Machinery and equipment parts and supplies wholesaling ²	57	1102	8.6	0.3	-1.0	0.6	0.8	-1.6
Building materials, paint, and hardware wholesaling.....	57	3	22.7	3.8	0.2	-1.2	0.6	1.0
Metals, minerals, and ores wholesaling ²	57	4	-3.8	10.0	9.2	4.0	-7.5	-0.2
Chemicals and allied products wholesaling ²	57	5	5.1	0.7	1.3	5.2	-3.7	-0.2
Paper and plastics products wholesaling ²	57	6	23.1	6.5	3.8	2.7	-0.3	-0.7
Food wholesaling ²	57	8101	14.3	2.1	0.9	-1.2	1.0	0.4
Metal treatment services ²	59	1	12.0	2.1	1.2	0.4	-0.2	1.6
Stage 2 intermediate demand.....	ID5	2	15.6	0.8	2.7	3.5	2.8	-6.1
Stage 2 intermediate demand goods.....	ID5	9211	25.0	0.3	4.6	6.7	5.2	-11.9
Corn.....	01	2202	9.3	14.5	3.5	0.5	3.8	-8.5
Oilseeds.....	01	83	5.7	5.6	1.3	-0.6	4.8	-13.7
Prepared animal feeds ²	02	9	12.8	3.2	1.8	1.6	-0.1	0.2
Coal.....	05	1	60.5	5.3	15.1	1.0	6.1	4.4
Natural gas ²	05	31	61.1	-20.7	20.0	32.1	7.9	-27.6
Liquefied petroleum gas ²	05	32	36.6	15.0	-3.4	4.1	3.4	-11.8
Crude petroleum ²	05	61	33.4	10.6	0.6	2.1	14.2	-19.1
No. 2 diesel fuel.....	05	7303	71.3	21.6	8.4	2.4	13.6	-16.6
Industrial chemicals.....	06	1	19.5	3.6	0.6	3.5	1.2	1.9
Plastic resins and materials.....	06	6	0.3	-1.2	5.4	0.9	1.2	-2.3
Plastic products ²	07	2	17.5	1.0	1.2	1.3	1.5	0.7
Logs, bolts, timber, pulpwood, and wood chips ²	08	5	5.9	0.3	0.3	1.1	0.8	0.7

See footnotes at end of table.

Table 2. Producer price index percentage changes for selected commodity groupings by Final Demand-Intermediate Demand category, seasonally adjusted — Continued
[July 2022]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		July 2021 to July 2022 ^P	Feb. to Mar.	Mar. to Apr. ^P	Apr. to May ^P	May to June ^P
Paper ²	09	13	12.1	0.7	1.3	0.9	0.7	1.4
Paperboard, excluding corrugated paperboard ²	09	1411	19.9	1.4	2.3	0.8	2.6	0.7
Commercial printing ²	09	47	18.1	2.4	1.3	3.0	1.1	-0.1
Iron and steel scrap ²	10	12	-19.7	24.9	0.1	-11.9	-11.6	-11.2
Steel mill products ²	10	17	6.4	-5.9	2.7	10.5	-1.7	-3.7
Nonferrous mill shapes ²	10	25	7.1	2.3	3.1	-2.9	-3.0	-4.3
Electrical machinery and equipment.....	11	7	8.8	0.6	0.3	0.7	1.0	0.8
Electronic components and accessories.....	11	78	4.3	0.5	-0.3	0.4	0.6	-0.2
Stage 2 intermediate demand services.....	ID5	9212	7.0	1.3	0.8	0.1	0.2	0.8
Rail transportation of freight and mail ²	30	11	11.8	0.7	2.7	2.0	0.5	1.2
Truck transportation of freight ²	30	12	21.7	4.9	1.9	2.1	-0.5	-0.3
U.S. Postal Service.....	30	1601	10.7	0.2	0.2	0.3	0.1	5.0
Courier and messenger services, except air.....	30	1602	10.7	1.1	1.2	1.0	0.6	0.3
Air mail and package delivery services, excluding by USPS.....	30	1603	19.2	2.6	4.2	3.7	-2.2	0.2
Pipeline transportation ²	30	17	-	-	-	-	0.0	2.9
Airline passenger services.....	30	22	22.6	11.1	2.2	3.9	3.9	1.1
Arrangement of freight and cargo ²	31	31	14.7	-1.1	-2.3	-5.5	-5.0	2.3
Television advertising time sales.....	36	21	0.5	1.3	3.3	3.2	-7.5	0.4
Wireless telecommunication services.....	37	2	0.8	-0.1	-0.1	0.5	0.2	0.0
Data processing and related services ²	38	1	-1.2	-0.8	0.1	0.1	-0.1	-0.3
Securities brokerage, dealing, investment advice, and related services ²	40	1	-6.7	-4.4	-0.4	5.3	-4.5	0.2
Portfolio management ²	40	2	-14.3	-1.3	-2.1	-2.0	-2.7	-7.9
Investment banking ²	40	31	-3.9	-5.7	-0.6	-0.6	-4.5	0.0
Insurance.....	41	11	1.6	0.1	0.2	0.0	0.3	-0.1
Commissions from sales of insurance ²	42	11	0.2	0.0	-0.1	0.0	0.0	0.0
Legal services.....	45	1	3.8	0.4	-0.2	-0.2	0.0	0.4
Accounting services (partial).....	45	2	5.5	0.9	0.6	-0.1	1.0	0.9
Management, scientific, and technical consulting services.....	45	4	0.0	0.2	-0.2	-0.4	-0.4	-0.4
Advertising agency services ²	45	51	8.5	0.2	0.5	0.0	0.0	0.3
Staffing services.....	46	3	5.1	0.8	0.6	0.7	0.1	-0.1
Security guard services ²	48	1	8.2	0.1	0.8	-0.2	2.8	0.1
Janitorial services ²	49	1	7.5	0.0	1.1	0.5	0.0	-0.2
Traveler accommodation services.....	53	1	17.6	12.2	-3.7	-2.4	6.5	-0.4
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	9.1	1.1	1.2	0.0	0.3	0.4
Hardware and building materials and supplies retailing.....	58	D	-4.2	11.4	-3.1	-5.4	-5.8	-3.8
Stage 1 intermediate demand.....	ID5	1	12.2	2.8	1.8	1.5	1.0	-1.7
Stage 1 intermediate demand goods.....	ID5	9111	18.8	3.3	2.7	2.2	2.5	-3.0
Prepared animal feeds ²	02	9	12.8	3.2	1.8	1.6	-0.1	0.2
Commercial electric power.....	05	42	14.3	3.1	-0.2	-1.3	5.4	1.8
Industrial electric power.....	05	43	12.1	-1.1	0.5	1.4	0.3	2.4
Commercial natural gas.....	05	52	35.2	0.2	5.4	9.2	7.8	-3.1
Industrial natural gas.....	05	53	40.7	-7.8	6.4	15.9	10.9	-9.4
Gasoline.....	05	71	48.9	5.7	-3.1	8.6	18.2	-16.7
No. 2 diesel fuel.....	05	7303	71.3	21.6	8.4	2.4	13.6	-16.6
Industrial chemicals.....	06	1	19.5	3.6	0.6	3.5	1.2	1.9
Prepared paint ²	06	21	25.8	1.0	5.3	1.0	2.5	0.7
Plastic construction products ²	07	21	22.4	1.5	1.5	1.5	1.2	1.0
Recyclable paper ²	09	12	9.4	3.0	3.3	-5.6	0.2	2.9
Paper ²	09	13	12.1	0.7	1.3	0.9	0.7	1.4
Converted paper and paperboard products ²	09	15	16.1	0.7	1.7	2.3	1.0	0.9
Iron and steel scrap ²	10	12	-19.7	24.9	0.1	-11.9	-11.6	-11.2
Steel mill products ²	10	17	6.4	-5.9	2.7	10.5	-1.7	-3.7
Primary nonferrous metals ²	10	22	-6.8	1.8	0.8	-10.6	-2.0	-10.5
Nonferrous scrap.....	10	23	-15.4	8.9	-0.7	-9.0	-5.4	-7.6
Nonferrous wire and cable ²	10	26	7.6	3.4	1.3	-0.2	-1.3	-3.2
Fabricated structural metal products.....	10	7	21.3	1.1	1.6	1.0	0.5	-0.8
General purpose machinery and equipment.....	11	4	15.8	0.9	1.8	1.4	1.0	0.8
Construction sand, gravel, and crushed stone.....	13	21	11.5	0.8	0.8	0.7	2.4	0.8
Stage 1 intermediate demand services.....	ID5	9112	5.3	2.2	0.8	0.7	-0.6	-0.1
Truck transportation of freight ²	30	12	21.7	4.9	1.9	2.1	-0.5	-0.3
Airline passenger services.....	30	22	22.6	11.1	2.2	3.9	3.9	1.1
Advertising space sales in periodicals, newspapers, directories, and mailing lists ²	36	1	0.7	1.5	-1.0	0.5	0.3	-0.7
Business wired telecommunication services ²	37	12	1.0	0.0	0.0	0.0	0.7	0.3
Wireless telecommunication services.....	37	2	0.8	-0.1	-0.1	0.5	0.2	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
 [July 2022]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		July 2021 to July 2022 ^p	Feb. to Mar.	Mar. to Apr. ^p	Apr. to May ^p	May to June ^p
Bundled wired telecommunications access services ²	37	5	6.7	0.1	0.0	0.0	-0.5	3.2
Business loans (partial).....	39	11	27.2	1.7	4.3	3.8	4.8	8.3
Deposit services (partial) ²	39	2	-5.9	-5.1	-1.1	-0.2	1.8	0.2
Securities brokerage, dealing, investment advice, and related services ²	40	1	-6.7	-4.4	-0.4	5.3	-4.5	0.2
Portfolio management ²	40	2	-14.3	-1.3	-2.1	-2.0	-2.7	-7.9
Investment banking ²	40	3	-3.9	-5.7	-0.6	-0.6	-4.5	0.0
Insurance.....	41	11	1.6	0.1	0.2	0.0	0.3	-0.1
Nonresidential real estate rents ²	43	11	-0.3	-0.7	3.7	-1.4	-1.4	-0.4
Architectural and engineering services.....	45	3	4.9	0.8	0.3	0.2	0.4	0.1
Management consulting services.....	45	41	0.0	0.2	-0.2	-0.4	-0.4	-0.4
Waste collection.....	50	1	8.9	0.5	1.0	0.7	0.8	2.6
Traveler accommodation services.....	53	11	17.6	12.2	-3.7	-2.4	6.5	-0.4
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	9.1	1.1	1.2	0.0	0.3	0.4
Machinery and equipment parts and supplies wholesaling ²	57	1102	8.6	0.3	-1.0	0.6	0.8	-1.6
Building materials, paint, and hardware wholesaling.....	57	3	22.7	3.8	0.2	-1.2	0.6	1.0
Metals, minerals, and ores wholesaling ²	57	4	-3.8	10.0	9.2	4.0	-7.5	-0.2
Chemicals and allied products wholesaling ²	57	5	5.1	0.7	1.3	5.2	-3.7	-0.2
Paper and plastics products wholesaling ²	57	6	23.1	6.5	3.8	2.7	-0.3	-0.7
Hardware and building materials and supplies retailing.....	58	D	-4.2	11.4	-3.1	-5.4	-5.8	-3.8
Mining services ²	60	1	11.7	1.7	0.0	2.2	0.3	0.2

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
 [July 2022, Index base Nov. 2009=100, unless otherwise indicated]

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	Mar. 2022	Apr. 2022 ^p	May 2022 ^p	June 2022 ^p	July 2022 ^p
Final Demand								
Final demand.....		FD	4	137.241	137.964	139.098	140.504	139.806
Final demand goods.....		FD	41	140.527	142.320	144.474	147.764	145.116
Final demand foods.....		FD	411	145.610	147.855	148.578	148.344	149.854
Finished consumer foods ²	00/82	FD	4111	252.341	256.174	257.880	256.868	262.023
Finished consumer foods, crude.....	00/82	FD	411113	279.447	283.338	281.963	259.983	296.565
Finished consumer foods, processed.....	00/82	FD	411112	249.980	253.815	255.857	257.105	258.878
Government purchased foods.....		FD	4112	148.358	150.582	149.944	150.080	152.081
Foods for export.....		FD	4113	160.130	162.798	162.894	164.246	158.269
Final demand energy.....		FD	412	155.512	158.023	165.591	181.174	164.935
Finished consumer energy goods ²	00/82	FD	4121	239.393	238.920	250.230	275.388	249.922
Government purchased energy.....		FD	4122	174.430	186.440	195.296	209.901	192.806
Energy for export.....		FD	4123	157.928	175.450	185.026	197.624	182.427
Final demand goods less foods and energy.....		FD	413	134.742	136.209	137.158	137.774	138.015
Finished goods less foods and energy ²	00/82	FD	4131	231.101	233.489	235.385	236.980	238.257
Finished consumer goods less foods and energy.....	00/82	FD	41311	257.834	259.915	262.254	263.797	265.383
Nondurable consumer goods less foods and energy.....	00/82	FD	413111	330.512	332.824	336.368	338.541	340.801
Durable consumer goods.....	00/82	FD	413112	182.628	184.435	185.580	186.491	187.400
Private capital equipment.....	00/82	FD	41312	197.529	200.079	201.504	203.074	204.024
Private capital equipment for manufacturing industries.....	00/82	FD	413121	208.980	212.514	214.518	215.881	216.886
Private capital equipment for nonmanufacturing industries.....	00/82	FD	413122	194.058	196.337	197.603	199.226	200.159
Government purchased goods, excluding foods and energy.....		FD	4132	131.594	132.632	134.118	135.009	135.814
Government purchased goods excluding foods, energy, and capital equipment.....		FD	41321	140.342	141.980	144.035	145.151	146.270
Government purchased capital equipment.....		FD	41322	118.729	118.999	119.747	120.341	120.740
Goods for export, excluding foods and energy.....		FD	4133	136.868	138.619	139.126	139.114	138.303
Final demand services.....		FD	42	134.915	134.977	135.605	136.062	136.149
Final demand trade services ³		FD	423	147.253	147.500	148.502	149.303	149.808
Trade of finished goods ²		FD	4231	146.117	146.211	147.176	148.113	148.755
Trade of personal consumption goods.....		FD	42311	145.112	144.972	146.240	147.311	147.907
Trade of private capital equipment.....		FD	42312	148.900	150.019	149.643	149.983	150.817
Trade of government purchased goods.....		FD	4232	153.773	154.982	155.914	156.549	156.432
Trade of government purchased goods, excluding capital equipment.....		FD	42321	156.300	157.204	160.008	160.919	160.146
Trade of government purchased capital equipment.....		FD	42322	148.515	150.174	148.256	148.459	149.357
Trade of exports.....		FD	4233	155.479	156.720	158.077	157.746	157.278
Final demand transportation and warehousing services.....		FD	422	151.519	154.730	158.756	159.939	160.586
Transportation of passengers for final demand.....		FD	4221	125.298	128.091	133.005	138.215	139.736
Transportation of private passengers.....		FD	42211	125.317	128.106	133.008	138.211	139.728
Transportation of government passengers.....		FD	42212	125.179	127.948	132.796	137.962	139.463
Transportation of passengers for export.....		FD	42213	125.223	128.035	133.003	138.246	139.781
Transportation and warehousing of goods for final demand.....		FD	4222	161.211	164.568	168.156	167.586	167.849
Transportation and warehousing of finished goods ²		FD	42221	160.566	163.854	167.467	166.861	167.113
Transportation and warehousing of personal consumption goods.....		FD	422211	160.627	163.864	167.418	166.817	167.167
Transportation and warehousing of private capital equipment.....		FD	422212	160.330	163.824	167.675	167.047	166.906
Transportation and warehousing of government purchased goods.....		FD	42222	155.880	159.334	162.103	162.040	162.927
Transportation and warehousing of exports.....		FD	42223	165.040	168.560	172.296	171.694	171.840
Final demand services less trade, transportation, and warehousing.....		FD	421	127.691	127.358	127.482	127.712	127.555
Finished services less trade, transportation, and warehousing ²		FD	4211	128.253	127.883	127.983	128.325	128.232
Finished consumer services less trade, transportation, and warehousing.....		FD	42111	127.720	127.326	127.284	127.572	127.420
Private capital investment services less trade, transportation, and warehousing.....		FD	42112	133.297	133.140	134.492	135.306	135.729
Government purchased services less trade, transportation, and warehousing.....		FD	4212	119.650	119.783	119.787	119.490	118.980
Gov. purchased services less trade, transportation, and warehousing, excl. capital investment.....		FD	42121	120.126	120.277	120.251	119.929	119.394
Government purchased capital investment services less trade, transportation, and warehousing.....		FD	42122	107.537	107.299	107.919	108.125	108.122
Services for export less trade, transportation, and warehousing.....		FD	4213	129.552	129.245	129.842	129.019	128.318
Final demand construction.....		FD	43	153.013	158.556	159.073	159.902	168.022
Construction for private capital investment.....		FD	431	155.532	161.479	162.065	162.967	171.841
Construction for government.....		FD	432	148.227	153.034	153.426	154.125	160.876
Final Demand Special Groupings								
Final demand less exports.....	04/10	FD	49101	134.561	135.078	136.189	137.742	137.163
Final demand less government.....	04/10	FD	49102	135.278	135.857	136.936	138.281	137.631
Final demand less foods, food and nonalcoholic beverages for immediate consumption, and energy ¹	04/10	FD	49103	134.110	134.652	135.318	135.803	136.059
Final demand less foods and energy ⁴	04/10	FD	49104	133.806	134.300	134.997	135.494	135.759
Final demand less foods and food and nonalcoholic beverages for immediate consumption ⁴	04/10	FD	49105	135.160	135.836	136.972	138.494	137.614

See footnotes at end of table.

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

[July 2022, Index base Nov. 2009=100, unless otherwise indicated]

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	Mar. 2022	Apr. 2022 ^P	May 2022 ^P	June 2022 ^P	July 2022 ^P
Final demand less foods ⁴	04/10	FD	49106	134.756	135.380	136.521	138.000	137.186
Final demand less energy.....	04/10	FD	49107	134.220	134.815	135.512	135.966	136.302
Final demand less trade services.....	01/10	FD	49108	133.376	134.206	135.363	136.900	135.927
Final demand less distributive services ⁵	01/10	FD	49109	132.349	133.086	134.153	135.768	134.748
Final demand goods less energy.....	01/10	FD	49111	135.759	137.371	138.265	138.705	139.200
Final demand goods less foods.....	04/10	FD	49112	136.294	137.958	140.341	144.237	140.845
Final demand services less trade services.....	04/10	FD	49113	128.811	128.797	129.268	129.582	129.498
Final demand distributive services ⁵	04/10	FD	49114	146.344	146.983	148.296	148.904	149.368
Final demand goods plus final demand distributive services ⁵	04/10	FD	49115	140.959	142.269	144.600	146.243	144.859
Final demand less foods, energy, and trade services ⁴	08/13	FD	49116	122.855	123.387	123.966	124.357	124.546
Private and government purchased capital equipment.....	08/13	FD	49117	119.670	121.038	121.886	122.788	123.339
Private and government purchased capital investment services.....	08/13	FD	49118	130.022	130.583	131.173	131.652	132.176
Total private and government purchased capital investment.....	08/13	FD	49119	127.138	128.491	129.183	129.872	131.095
Total finished ²	01/10	FD	49201	135.391	135.736	136.808	138.339	137.812
Total finished less foods, food and nonalcoholic beverages for immediate consumption, and energy ^{2, 4}	12/10	FD	49202	133.218	133.518	134.157	134.779	135.161
Total finished less foods and energy ^{2, 4}	01/10	FD	49203	134.051	134.331	134.974	135.599	135.985
Total finished less foods and food and nonalcoholic beverages for immediate consumption ⁴	12/10	FD	49204	133.723	133.981	135.057	136.708	135.976
Total finished less foods ^{2, 4}	01/10	FD	49205	135.083	135.324	136.403	138.055	137.331
Total finished less energy ²	01/10	FD	49206	134.447	134.836	135.497	136.052	136.584
Finished goods ²	00/82	FD	49207	246.507	248.531	252.917	260.203	255.323
Finished goods less energy ²	00/82	FD	49208	236.152	238.905	240.749	241.679	243.941
Finished goods, excluding foods ^{2, 4}	00/82	FD	49209	244.055	245.621	250.654	259.958	252.623
Finished services ²	01/10	FD	49210	133.609	133.550	134.096	134.650	134.808
Private capital investment services.....	04/10	FD	49211	139.944	140.522	141.253	141.785	142.346
Finished distributive services ^{2, 5}	04/10	FD	49212	144.777	145.190	146.402	147.163	147.752
Finished services less trade services ²	04/10	FD	49213	128.830	128.706	129.077	129.475	129.434
Finished services less distributive services ^{2, 5}	04/10	FD	49214	127.345	127.050	127.257	127.707	127.650
Total private capital investment (goods, services, and construction).....	04/10	FD	49215	134.892	136.284	137.079	137.833	138.995
Finished goods plus finished distributive services ²	04/10	FD	49216	140.991	141.787	143.661	146.198	145.004
Total exports.....	04/10	FD	49301	138.040	139.950	141.094	141.430	140.078
Goods for export.....	00/82	FD	49302	236.028	240.455	241.999	243.285	239.821
Services for export.....	04/10	FD	49303	142.800	143.748	145.297	145.012	144.639
Total government purchases.....	04/10	FD	49401	133.103	135.349	136.897	138.741	137.622
Government purchased goods.....	00/82	FD	49402	233.991	240.079	244.939	251.515	246.176
Government purchased services.....	04/10	FD	49403	127.374	127.937	128.377	128.412	128.100
Total government purchased capital investment (goods, services, construction).....	08/13	FD	49404	123.865	125.476	125.733	126.250	128.361
Government purchases, defense.....	05/15	FD	49405	122.459	124.606	126.025	126.896	125.997
Government purchases, non-defense.....	05/15	FD	49406	126.826	128.966	130.463	132.659	131.409
Personal consumption.....	01/10	FD	49501	135.404	135.516	136.649	138.352	137.449
Personal consumption goods (finished consumer goods).....	00/82	FD	49502	267.580	269.348	275.077	284.968	277.414
Personal consumption goods less energy.....	00/82	FD	49503	256.168	258.992	261.070	261.546	264.634
Personal consumption goods less foods.....	00/82	FD	49504	271.759	272.675	279.995	294.223	281.588
Personal consumption nondurable goods less foods.....	00/82	FD	49508	310.326	310.877	320.799	340.627	322.309
Personal consumption services.....	04/10	FD	49505	132.125	131.972	132.488	133.043	133.141
Personal consumption less trade services.....	04/10	FD	49506	132.453	132.631	133.726	135.591	134.298
Personal consumption less distributive services ⁵	04/10	FD	49507	131.670	131.755	132.775	134.717	133.372
Personal consumption less foods and energy.....	04/14	FD	49510	123.433	123.424	123.980	124.525	124.695
Personal consumption less foods, energy, and trade services ³	04/14	FD	49511	120.297	120.327	120.683	121.086	121.133
Personal consumption less foods, energy, and distributive services ⁵	04/14	FD	49512	119.627	119.544	119.790	120.231	120.268
Personal consumption goods plus personal consumption distributive services ⁵	08/13	FD	49509	130.383	130.904	132.969	135.791	134.186
Intermediate Demand by Commodity Type								
Processed goods								
Processed goods for intermediate demand.....	00/82	ID6	1	263.846	269.451	275.553	281.372	274.989
Materials and components for manufacturing.....	00/82	ID6	11	242.225	245.755	250.731	250.524	248.903
Materials for manufacturing.....		ID6	111	157.781	160.636	164.805	163.957	162.087
Materials for food manufacturing.....	00/82	ID6	1111	250.432	260.565	264.098	263.064	260.514
Materials for nondurable manufacturing.....	00/82	ID6	1112	289.537	293.949	299.550	301.592	302.547
Materials for durable manufacturing.....	00/82	ID6	1113	312.641	316.849	328.792	322.847	313.929
Components for manufacturing.....	00/82	ID6	112	179.157	180.552	182.197	183.612	184.200
Components for nondurable manufacturing.....		ID6	1121	142.936	143.934	145.294	147.202	147.902
Components for durable manufacturing.....		ID6	1122	126.275	127.263	128.421	129.380	129.784
Materials and components for construction.....	00/82	ID6	12	346.499	348.316	351.346	350.768	351.843
Materials for construction.....		ID6	121	172.054	170.712	171.119	168.423	169.274
Components for construction.....		ID6	122	170.506	173.144	175.487	177.084	177.365
Processed fuels and lubricants for intermediate demand.....	00/82	ID6	13	274.864	288.451	301.565	329.222	299.689
Processed fuels and lubricants to manufacturing industries.....	00/82	ID6	131	268.226	284.197	295.028	310.877	298.136

See footnotes at end of table.

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

[July 2022, Index base Nov. 2009=100, unless otherwise indicated]

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	Mar. 2022	Apr. 2022 ^P	May 2022 ^P	June 2022 ^P	July 2022 ^P
Processed fuels and lubricants to nonmanufacturing industries.....	00/82	ID6	132	277.526	290.355	304.240	335.784	300.781
Containers for intermediate demand.....	00/82	ID6	14	293.941	299.430	304.392	306.440	307.289
Supplies for intermediate demand.....	00/82	ID6	15	243.242	246.800	249.675	250.846	252.041
Supplies to manufacturing industries.....	00/82	ID6	151	240.762	244.141	246.111	247.054	247.537
Supplies to nonmanufacturing industries.....	00/82	ID6	152	241.691	245.249	248.243	249.442	250.739
Supplies to nonmanufacturing industries, feeds.....	00/82	ID6	1521	240.575	245.407	248.245	249.140	252.226
Supplies to nonmanufacturing industries, other than feeds.....	00/82	ID6	1522	243.728	247.186	250.220	251.461	252.587
Unprocessed goods								
Unprocessed goods for intermediate demand.....	00/82	ID6	2	309.685	326.869	344.428	359.789	315.327
Unprocessed foodstuffs and feedstuffs.....	00/82	ID6	21	253.755	264.415	265.057	264.031	261.975
Unprocessed nonfood materials.....	00/82	ID6	22	335.982	356.828	384.727	410.156	339.788
Unprocessed nonfood materials except fuel.....	00/82	ID6	221	414.113	418.024	412.851	437.217	378.931
Unprocessed nonfood materials except fuel to manufacturing industries.....	00/82	ID6	2211	389.332	393.033	387.884	411.320	354.285
Unprocessed nonfood materials except fuel to nonmanufacturing industries.....	00/82	ID6	2212	308.099	310.522	312.568	319.785	322.616
Unprocessed fuel.....	00/82	ID6	222	209.144	250.051	318.144	342.919	262.641
Unprocessed fuel to manufacturing industries.....	00/82	ID6	2221	225.441	266.242	294.484	315.772	295.061
Unprocessed fuel to nonmanufacturing industries.....	00/82	ID6	2222	214.152	256.236	328.669	354.363	268.214
Services								
Services for intermediate demand.....		ID6	3	137.980	139.158	139.822	139.362	139.503
Trade services for intermediate demand ⁵		ID6	33	169.059	170.805	171.857	170.440	169.761
Trade services for manufacturing industries.....	12/12	ID6	331	151.744	154.187	156.771	155.249	154.489
Trade services for nonmanufacturing industries.....	12/12	ID6	332	153.126	153.832	153.142	152.108	151.644
Transportation and warehousing services for intermediate demand.....		ID6	32	154.107	156.864	157.912	157.930	159.287
Transportation of passengers for intermediate demand.....		ID6	321	125.245	128.013	132.858	138.024	139.525
Transportation of passengers for manufacturing industries.....		ID6	3211	125.206	128.017	132.980	138.220	139.755
Transportation of passengers for nonmanufacturing industries.....		ID6	3212	125.309	128.072	132.904	138.062	139.559
Transportation and warehousing of goods for intermediate demand.....		ID6	322	157.228	159.985	160.633	160.103	161.446
Transportation and warehousing of goods for manufacturing industries.....	12/12	ID6	3221	130.667	133.818	137.242	137.064	137.794
Transportation and warehousing of goods for nonmanufacturing industries.....	12/12	ID6	3222	140.416	142.635	142.398	141.855	143.159
Services less trade, transportation, and warehousing for intermediate demand.....		ID6	31	126.682	127.429	127.919	127.639	127.796
Services less trade, transportation, and warehousing for manufacturing industries.....		ID6	311	121.437	122.260	122.391	122.427	123.113
Services less trade, transportation, and warehousing for nonmanufacturing industries.....		ID6	312	126.841	127.585	128.088	127.797	127.935
Construction								
Construction for intermediate demand.....		ID6	4	137.025	138.071	139.191	140.434	142.244
Intermediate Demand by Commodity Type Special Groupings								
Processed materials less foods and feeds.....	00/82	ID6	9111	265.756	271.162	277.578	283.959	276.999
Processed foods and feeds.....	00/82	ID6	9112	244.313	252.045	254.814	254.614	254.423
Processed energy goods.....	00/82	ID6	9113	276.140	289.790	302.965	330.726	301.120
Processed materials less energy.....	00/82	ID6	9118	257.582	261.098	265.349	265.598	265.122
Processed materials less foods and energy.....	00/82	ID6	9115	258.698	261.706	266.127	266.428	265.919
Intermediate distributive services ⁶	04/10	ID6	9116	161.704	163.776	164.665	163.588	163.638
Processed goods plus intermediate distributive services.....	04/10	ID6	9117	148.381	151.173	153.852	155.907	153.356
Unprocessed materials less agricultural products.....	00/82	ID6	9211	336.998	359.074	390.509	417.567	343.642
Unprocessed energy materials ⁷	00/82	ID6	9212	260.101	284.303	325.846	359.942	283.500
Unprocessed materials less energy.....	00/82	ID6	9213	325.537	335.495	329.821	326.321	315.829
Unprocessed nonfood materials less energy ⁸	00/82	ID6	9216	540.087	547.086	523.962	511.952	476.814
Intermediate Demand by Production Flow								
Stage 4 Intermediate Demand								
Stage 4 intermediate demand.....		ID5	4	142.633	144.035	145.328	145.838	144.948
Inputs to stage 4 goods producers.....		ID5	41	142.911	144.723	146.755	147.041	146.160
Goods.....		ID5	411	137.528	139.592	141.769	142.252	141.420
Foods.....		ID5	4111	154.799	159.124	161.449	161.243	156.336
Energy.....		ID5	4112	165.347	183.611	190.731	203.091	197.070
Goods excluding foods and energy.....		ID5	4113	134.733	136.317	138.430	138.917	138.738
Services.....		ID5	412	160.675	161.819	163.492	163.232	162.198
Trade services.....		ID5	4123	171.812	172.981	174.955	174.492	172.923
Transportation and warehousing services.....		ID5	4122	135.001	137.976	140.861	142.002	142.756
Transportation of passengers.....		ID5	41221	125.222	128.034	133.002	138.245	139.780
Transportation and warehousing of goods.....		ID5	41222	145.855	149.060	151.728	152.150	152.803
Services less trade, transportation, and warehousing.....		ID5	4121	123.092	123.573	123.702	123.799	124.273
Inputs to stage 4 services producers.....		ID5	42	136.839	137.991	138.659	139.154	138.514

See footnotes at end of table.

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

[July 2022, Index base Nov. 2009=100, unless otherwise indicated]

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	Mar. 2022	Apr. 2022 ^P	May 2022 ^P	June 2022 ^P	July 2022 ^P
Goods.....		ID5	421	141.720	143.580	145.104	148.459	147.263
Foods.....		ID5	4211	151.155	153.411	152.962	153.456	154.840
Energy.....		ID5	4212	136.704	139.519	142.693	152.154	146.820
Goods excluding foods and energy.....		ID5	4213	141.092	142.325	143.544	144.501	144.740
Services.....		ID5	422	134.938	135.834	136.190	135.656	135.212
Trade services.....		ID5	4223	152.534	153.491	155.943	155.797	154.975
Transportation and warehousing services.....		ID5	4222	142.830	145.919	145.367	146.851	148.812
Transportation of passengers.....		ID5	42221	124.795	127.584	132.496	137.696	139.215
Transportation and warehousing of goods.....		ID5	42222	146.557	149.711	148.152	148.971	151.018
Services less trade, transportation, and warehousing.....		ID5	4221	131.256	131.919	132.087	131.300	130.663
Construction.....		ID5	423	137.025	138.071	139.191	140.434	142.244
Inputs to stage 4 construction producers.....		ID5	43	163.320	164.708	166.690	167.796	165.891
Goods.....		ID5	431	166.907	168.077	170.441	172.692	170.138
Energy.....		ID5	4312	190.783	195.341	209.167	239.512	205.348
Goods excluding foods and energy.....		ID5	4313	168.462	169.329	170.629	170.212	170.649
Services.....		ID5	432	154.003	155.903	156.967	155.325	154.987
Trade services.....		ID5	4323	178.868	181.718	182.512	178.313	177.276
Transportation and warehousing services.....		ID5	4322	155.605	158.832	162.117	161.919	161.923
Transportation of passengers.....		ID5	43221	130.548	133.476	138.642	144.100	145.697
Transportation and warehousing of goods.....		ID5	43222	157.060	160.311	163.562	163.214	163.176
Services less trade, transportation, and warehousing.....		ID5	4321	124.886	125.304	125.860	126.367	126.633
Stage 3 Intermediate Demand								
Stage 3 intermediate demand.....		ID5	3	150.172	154.089	156.532	157.438	155.536
Inputs to stage 3 goods producers.....		ID5	31	166.808	172.169	175.706	175.313	174.108
Goods.....		ID5	311	165.243	170.717	174.239	174.303	172.746
Foods.....		ID5	3111	188.817	199.830	200.300	199.179	199.260
Energy.....		ID5	3112	165.844	188.606	203.976	218.124	201.461
Goods excluding foods and energy.....		ID5	3113	159.623	161.849	165.968	165.674	164.332
Services.....		ID5	312	161.169	165.673	169.014	166.743	167.110
Trade services.....		ID5	3123	167.271	172.883	176.441	172.461	172.559
Transportation and warehousing services.....		ID5	3122	152.605	156.452	160.735	160.588	161.029
Transportation of passengers.....		ID5	31221	133.331	136.324	141.609	147.190	148.824
Transportation and warehousing of goods.....		ID5	31222	153.470	157.361	161.579	161.104	161.476
Services less trade, transportation, and warehousing.....		ID5	3121	125.562	126.567	126.979	127.219	128.290
Inputs to stage 3 services producers.....		ID5	32	136.162	139.029	140.691	142.791	140.313
Goods.....		ID5	321	142.653	150.686	156.516	165.834	153.303
Foods.....		ID5	3211	152.150	154.103	153.592	154.147	155.806
Energy.....		ID5	3212	155.679	168.186	176.886	191.693	170.880
Goods excluding foods and energy.....		ID5	3213	131.973	133.205	134.773	135.694	135.945
Services.....		ID5	322	133.805	135.084	135.445	135.292	135.875
Trade services.....		ID5	3223	180.202	183.244	187.294	188.473	188.898
Transportation and warehousing services.....		ID5	3222	162.295	164.257	163.141	162.149	163.263
Transportation of passengers.....		ID5	32221	101.666	102.566	102.819	104.673	104.846
Transportation and warehousing of goods.....		ID5	32222	162.808	164.777	163.654	162.649	163.768
Services less trade, transportation, and warehousing.....		ID5	3221	123.827	124.808	125.288	125.261	125.718
Construction.....		ID5	323	137.025	138.071	139.191	140.434	142.244
Inputs to stage 3 construction producers.....		ID5	33	156.848	155.302	153.016	149.263	147.514
Goods.....		ID5	331	141.793	141.182	141.598	139.773	139.535
Goods excluding foods and energy.....		ID5	3313	180.678	179.900	180.430	178.105	177.801
Services.....		ID5	332	192.077	189.497	184.533	178.569	175.258
Trade services.....		ID5	3323	199.796	196.822	191.248	184.734	181.037
Transportation and warehousing services.....		ID5	3322	105.831	109.800	114.070	114.378	115.666
Transportation and warehousing of goods.....		ID5	33222	111.708	115.898	120.406	120.730	122.089
Services less trade, transportation, and warehousing.....		ID5	3321	116.458	117.417	118.351	118.794	119.977
Stage 2 Intermediate Demand								
Stage 2 intermediate demand.....		ID5	2	139.341	143.145	148.213	152.436	143.113
Inputs to stage 2 goods producers.....		ID5	21	139.320	145.240	153.911	160.902	143.892
Goods.....		ID5	211	142.956	150.083	160.945	169.778	147.796
Foods.....		ID5	2111	171.902	175.320	176.553	179.910	170.961
Energy.....		ID5	2112	117.643	127.761	145.898	160.810	127.053
Goods excluding foods and energy.....		ID5	2113	156.160	158.199	157.748	156.455	154.418
Services.....		ID5	212	138.753	140.740	142.015	142.316	143.490
Trade services.....		ID5	2123	159.479	161.555	162.017	161.923	162.318
Transportation and warehousing services.....		ID5	2122	157.047	160.410	163.916	164.229	166.673
Transportation of passengers.....		ID5	21221	126.000	128.722	133.424	138.512	139.973
Transportation and warehousing of goods.....		ID5	21222	158.855	162.255	165.677	165.610	168.122
Services less trade, transportation, and warehousing.....		ID5	2121	119.235	120.288	121.025	121.920	123.463
Construction.....		ID5	213	137.025	138.071	139.191	140.434	142.244

See footnotes at end of table.

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

[July 2022, Index base Nov. 2009=100, unless otherwise indicated]

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	Mar. 2022	Apr. 2022 ^P	May 2022 ^P	June 2022 ^P	July 2022 ^P
Inputs to stage 2 services producers.....		ID5	22	134.514	135.480	135.763	136.307	137.119
Goods.....		ID5	221	142.852	145.027	147.925	150.730	149.173
Foods.....		ID5	2211	132.916	134.723	135.179	135.228	136.196
Energy.....		ID5	2212	177.434	188.480	207.867	237.092	200.945
Goods excluding foods and energy.....		ID5	2213	141.103	142.735	144.635	145.827	146.393
Services.....		ID5	222	132.899	133.684	133.550	133.736	134.849
Trade services.....		ID5	2223	182.199	184.712	170.993	173.888	180.237
Transportation and warehousing services.....		ID5	2222	169.300	170.484	167.910	164.762	165.666
Transportation of passengers.....		ID5	22221	125.681	128.486	133.423	138.654	140.181
Transportation and warehousing of goods.....		ID5	22222	178.154	179.024	174.981	170.273	171.065
Services less trade, transportation, and warehousing.....		ID5	2221	128.614	129.273	130.138	130.425	131.253
Construction.....		ID5	223	137.025	138.071	139.191	140.434	142.244
Stage 1 Intermediate Demand								
Stage 1 intermediate demand.....		ID5	1	145.092	147.699	149.876	151.448	148.862
Inputs to stage 1 goods producers.....		ID5	11	152.469	156.066	159.942	160.799	157.121
Goods.....		ID5	111	154.737	158.535	162.802	164.857	159.865
Foods.....		ID5	1111	174.741	178.958	179.684	181.176	171.120
Energy.....		ID5	1112	134.617	144.790	155.547	170.472	155.386
Goods excluding foods and energy.....		ID5	1113	160.099	162.414	165.855	165.068	163.153
Services.....		ID5	112	150.248	153.391	156.304	153.936	153.724
Trade services.....		ID5	1123	166.941	171.675	175.192	171.118	171.248
Transportation and warehousing services.....		ID5	1122	140.132	146.881	156.572	157.237	158.998
Transportation of passengers.....		ID5	11221	125.198	128.010	132.976	138.218	139.754
Transportation and warehousing of goods.....		ID5	11222	142.301	149.976	160.759	160.557	162.358
Services less trade, transportation, and warehousing.....		ID5	1121	106.047	106.017	106.755	106.539	105.550
Construction.....		ID5	113	137.025	138.071	139.191	140.434	142.244
Inputs to stage 1 services producers.....		ID5	12	138.134	140.317	141.905	144.049	142.131
Goods.....		ID5	121	145.584	150.224	153.225	159.924	154.024
Foods.....		ID5	1211	112.394	204.485	221.358	200.599	194.602
Energy.....		ID5	1212	174.859	184.495	190.075	209.479	188.951
Goods excluding foods and energy.....		ID5	1213	139.596	141.567	143.401	144.442	145.318
Services.....		ID5	122	134.118	135.066	135.941	135.810	135.880
Trade services.....		ID5	1223	164.033	165.410	167.452	167.893	167.777
Transportation and warehousing services.....		ID5	1222	135.898	138.285	141.011	142.606	144.823
Transportation of passengers.....		ID5	12221	125.124	127.934	132.897	138.136	139.670
Transportation and warehousing of goods.....		ID5	12222	156.280	158.676	160.415	160.123	162.958
Services less trade, transportation, and warehousing.....		ID5	1221	129.334	130.033	130.521	130.097	129.905
Construction.....		ID5	123	137.025	138.071	139.191	140.434	142.244
Inputs to stage 1 construction producers.....		ID5	13	167.948	169.952	170.294	171.359	168.543
Goods.....		ID5	131	161.461	165.063	166.958	170.995	168.143
Energy.....		ID5	1312	179.168	195.793	201.672	226.447	195.359
Goods excluding foods and energy.....		ID5	1313	161.717	163.679	165.085	166.508	167.252
Services.....		ID5	132	180.785	179.636	176.911	172.143	169.395
Trade services.....		ID5	1323	191.064	189.053	185.009	179.285	175.989
Transportation and warehousing services.....		ID5	1322	131.368	134.170	137.405	136.760	136.448
Transportation and warehousing of goods.....		ID5	13222	135.884	138.781	142.128	141.461	141.138
Services less trade, transportation, and warehousing.....		ID5	1321	125.678	126.286	127.631	128.971	128.923
Intermediate Demand by Production Flow Special Groupings								
Total goods inputs to stage 4 intermediate demand.....	04/10	ID5	9411	141.614	143.408	145.386	147.036	145.786
Total services inputs to stage 4 intermediate demand.....	04/10	ID5	9412	139.986	140.996	141.621	141.050	140.519
Total construction inputs to stage 4 intermediate demand.....	04/10	ID5	9413	135.890	136.927	138.038	139.271	141.065
Total foods inputs to stage 4 intermediate demand.....	04/10	ID5	9414	149.847	153.219	154.344	154.432	152.234
Total energy goods inputs to stage 4 intermediate demand.....	04/10	ID5	9415	134.251	137.583	142.183	154.015	144.875
Total goods less foods and energy inputs to stage 4 intermediate demand.....	04/10	ID5	9416	142.649	143.984	145.707	146.083	146.134
Total goods inputs to stage 3 intermediate demand.....	04/10	ID5	9311	151.418	157.207	161.100	163.427	159.252
Total services inputs to stage 3 intermediate demand.....	04/10	ID5	9312	138.063	139.851	140.666	140.056	140.539
Total construction inputs to stage 3 intermediate demand.....	04/10	ID5	9313	135.890	136.927	138.038	139.271	141.065
Total foods inputs to stage 3 intermediate demand.....	04/10	ID5	9314	167.778	177.512	177.923	176.938	177.021
Total energy goods inputs to stage 3 intermediate demand.....	04/10	ID5	9315	154.137	168.066	177.678	192.072	172.367
Total goods less foods and energy inputs to stage 3 intermediate demand.....	04/10	ID5	9316	149.072	151.008	154.516	154.381	153.349
Total goods inputs to stage 2 intermediate demand.....	04/10	ID5	9211	136.070	142.376	151.947	159.781	140.802
Total services inputs to stage 2 intermediate demand.....	04/10	ID5	9212	134.702	135.762	135.946	136.157	137.288
Total construction inputs to stage 2 intermediate demand.....	04/10	ID5	9213	135.890	136.927	138.038	139.271	141.065
Total foods inputs to stage 2 intermediate demand.....	04/10	ID5	9214	172.419	175.837	177.068	180.403	171.525
Total energy goods inputs to stage 2 intermediate demand.....	04/10	ID5	9215	115.854	125.770	143.540	158.303	125.229
Total goods less foods and energy inputs to stage 2 intermediate demand.....	04/10	ID5	9216	143.998	145.834	145.915	145.231	143.870
Total goods inputs to stage 1 intermediate demand.....	04/10	ID5	9111	135.770	139.381	142.451	145.991	141.573

See footnotes at end of table.

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

[July 2022, Index base Nov. 2009=100, unless otherwise indicated]

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	Mar. 2022	Apr. 2022 ^p	May 2022 ^p	June 2022 ^p	July 2022 ^p
Total services inputs to stage 1 intermediate demand.....	04/10	ID5	9112	139.777	140.949	141.900	140.983	140.773
Total construction inputs to stage 1 intermediate demand.....	04/10	ID5	9117	135.890	136.927	138.038	139.271	141.065
Total foods inputs to stage 1 intermediate demand.....	04/10	ID5	9114	163.154	169.012	170.043	171.002	161.611
Total energy goods inputs to stage 1 intermediate demand.....	04/10	ID5	9115	153.950	163.980	171.235	188.715	170.076
Total goods less foods and energy inputs to stage 1 intermediate demand.....	04/10	ID5	9116	127.550	129.320	131.404	131.612	131.221

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

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

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

⁴ The PPI definition of foods does not include food and beverages for immediate consumption. PPI defines food and beverages for immediate consumption as the service of preparing meals, snacks, and beverages to customer order for immediate on-premises and off-premises consumption.

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

⁶ Includes intermediate trade, transportation, and warehousing services.

⁷ Includes crude petroleum.

⁸ Excludes crude petroleum.

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“-” Data not available.