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PRODUCER PRICE INDEXES – AUGUST 2022

The Producer Price Index for final demand fell 0.1 percent in August, seasonally adjusted, the U.S. Bureau of Labor Statistics reported today. Final demand prices decreased 0.4 percent in July and advanced 1.0 percent in June. (See table A.) On an unadjusted basis, the index for final demand moved up 8.7 percent for the 12 months ended in August.

In August, the decrease in the index for final demand is attributable to a 1.2-percent decline in prices for final demand goods. In contrast, the index for final demand services advanced 0.4 percent.

Prices for final demand less foods, energy, and trade services moved up 0.2 percent in August following a 0.1-percent rise in July. For the 12 months ended in August, the index for final demand less foods, energy, and trade services increased 5.6 percent.

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

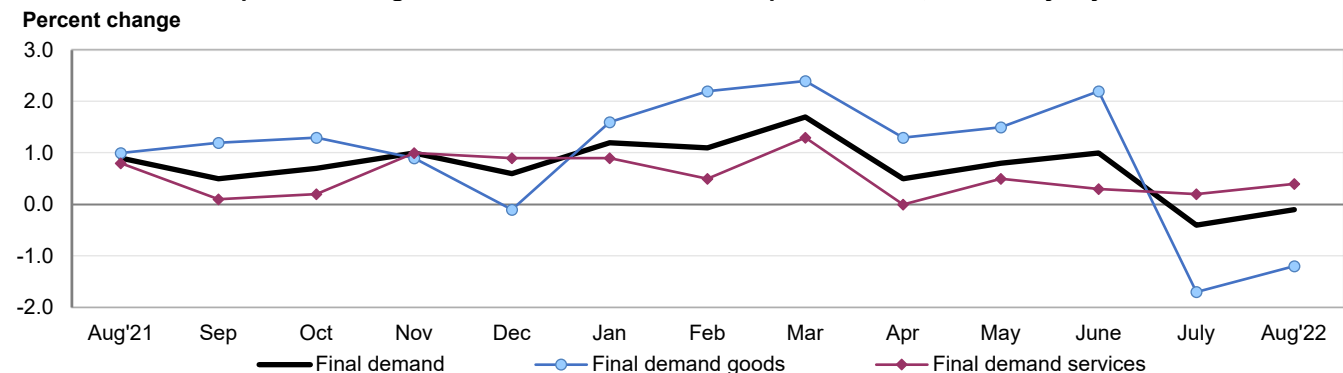
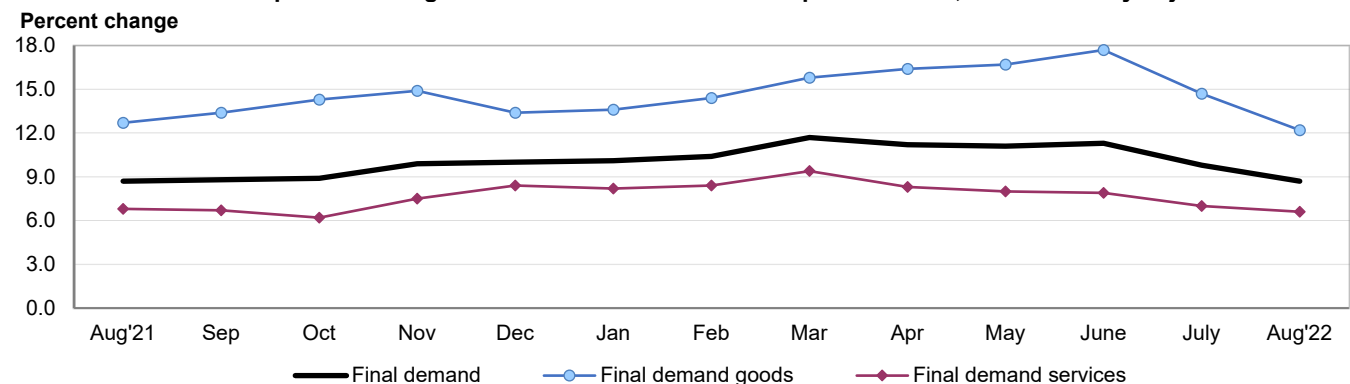


Chart 2. Twelve-month percent changes in selected PPI final demand price indexes, not seasonally adjusted



Final Demand

Final demand goods: The index for final demand goods fell 1.2 percent in August after declining 1.7 percent in July. The August decrease can be traced to a 6.0-percent drop in prices for final demand energy. Conversely, the index for final demand goods less foods and energy rose 0.2 percent, while prices for final demand foods were unchanged.

Product detail: In August, over three-quarters of the decrease in prices for final demand goods is attributable to the index for gasoline, which fell 12.7 percent. Prices for diesel fuel, jet fuel, chicken eggs, primary basic organic chemicals, and home heating oil also declined. In contrast, the index for construction machinery and equipment increased 2.6 percent. Prices for beverages and beverage materials and for electric power also rose. (See table 2.)

Final demand services: The index for final demand services moved up 0.4 percent in August, the fourth consecutive rise. Sixty percent of the August advance can be traced to a 0.8-percent increase in margins for final demand trade services. (Trade indexes measure changes in margins received by wholesalers and retailers.) Prices for final demand services less trade, transportation, and warehousing also moved higher, rising 0.3 percent. Conversely, the index for final demand transportation and warehousing services decreased 0.2 percent.

Product detail: Forty percent of the increase in prices for final demand services can be attributed to margins for fuels and lubricants retailing, which rose 14.2 percent. The indexes for securities brokerage, dealing, investment advice, and related services; loan services (partial); transportation of passengers (partial); portfolio management; and chemicals and allied products wholesaling also moved higher. In contrast, prices for truck transportation of freight decreased 1.9 percent. The indexes for guestroom rental and for food and alcohol retailing 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												
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... ..	1.7	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	1.5	1.1	0.0	0.1	2.1	-0.2	11.2	6.8
May ¹ ...	0.8	0.5	1.5	0.4	4.8	0.7	0.5	0.7	2.5	0.1	11.1	6.7
June ¹ ..	1.0	0.3	2.2	-0.1	8.9	0.5	0.3	0.6	0.9	0.2	11.3	6.4
July ¹ ...	-0.4	0.1	-1.7	1.3	-9.0	0.2	0.2	0.9	-0.8	0.0	9.8	5.8
Aug....	-0.1	0.2	-1.2	0.0	-6.0	0.2	0.4	0.8	-0.2	0.3	8.7	5.6

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

Intermediate Demand by Commodity Type

Within intermediate demand in August, prices for processed goods decreased 1.7 percent, the index for unprocessed goods rose 5.7 percent, and prices for services advanced 1.0 percent. (See tables B and C.)

Processed goods for intermediate demand: The index for processed goods for intermediate demand fell 1.7 percent in August after decreasing 2.2 percent in July. About two-thirds of the August decline is attributable to a 5.2-percent drop in prices for processed energy goods. The index for processed materials less foods and energy moved down 0.8 percent. Conversely, prices for processed foods and feeds inched up 0.1 percent. For the 12 months ended in August, the index for processed goods for intermediate demand increased 14.1 percent.

Product detail: Over 40 percent of the August decline in the index for processed goods for intermediate demand can be traced to an 11.4-percent decrease in diesel fuel prices. The indexes for primary basic organic chemicals; gasoline; steel mill products; jet fuel; and natural, processed, and imitation cheese also moved lower. In contrast, prices for prepared animal feeds advanced 1.2 percent. The indexes for natural gas to electric utilities and for paper boxes and containers also rose.

Unprocessed goods for intermediate demand: The index for unprocessed goods for intermediate demand moved up 5.7 percent in August, the largest advance since increasing 9.8 percent in February. Leading the August rise, prices for unprocessed energy materials jumped 13.5 percent. The index for unprocessed nonfood materials less energy advanced 1.0 percent. Conversely, prices for unprocessed foodstuffs and feedstuffs declined 1.9 percent. For the 12 months ended in August, the index for unprocessed goods for intermediate demand rose 36.1 percent.

Product detail: Leading the August increase in prices for unprocessed goods for intermediate demand, the natural gas index surged 35.3 percent. Prices for livestock, corn, oilseeds, nonferrous metal ores, and nonferrous scrap also moved higher. In contrast, the index for raw milk fell 8.8 percent. Prices for crude petroleum and for iron and steel scrap also decreased.

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										
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.....	2.3	2.1	7.3	0.9	22.1	2.9	7.7	-4.3	9.7	43.3
Apr. ¹	2.0	3.2	4.4	1.2	22.0	5.5	4.2	9.3	1.3	50.1
May ¹	2.3	1.1	4.5	1.8	21.6	5.4	0.2	14.6	-4.2	46.4
June ¹	2.0	0.0	8.7	0.1	21.9	4.8	-0.4	11.2	-2.3	50.2
July ¹	-2.2	0.2	-8.6	-0.2	17.4	-10.7	-0.8	-17.8	-7.0	30.4
Aug.....	-1.7	0.1	-5.2	-0.8	14.1	5.7	-1.9	13.5	1.0	36.1

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Services for intermediate demand: The index for services for intermediate demand rose 1.0 percent in August, the largest advance since moving up 1.3 percent in March. Leading the August increase, prices for services less trade, transportation, and warehousing for intermediate demand climbed 1.3 percent. Margins for trade services for intermediate demand moved up 0.6 percent. Conversely, the index for transportation and warehousing services for intermediate demand declined 0.1 percent. For the 12 months ended in August, prices for services for intermediate demand advanced 6.3 percent.

Product detail: Thirty percent of the August increase in the index for services for intermediate demand is attributable to a 5.5-percent rise in prices for nonresidential real estate rents. The indexes for securities brokerage, dealing, investment advice, and related services; loan services (partial); fuels and lubricants retailing; machinery and equipment parts and supplies wholesaling; and arrangement of freight and cargo transportation also moved higher. In contrast, prices for warehousing, storage, and related services fell 5.3 percent. The indexes for television advertising time sales and for metals, minerals, and ores wholesaling also decreased.

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					
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.....	1.3	4.4	2.1	0.0	8.4
Apr. ¹	0.9	1.0	1.7	0.6	8.0
May ¹	0.5	0.6	0.6	0.4	7.8
June ¹	-0.4	-1.1	0.1	-0.3	6.2
July ¹	0.2	-0.1	1.0	0.2	5.8
Aug.....	1.0	0.6	-0.1	1.3	6.3

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Intermediate Demand by Production Flow

Stage 4 intermediate demand: Prices for stage 4 intermediate demand rose 0.5 percent in August following a 0.4-percent decline in July. In August, the index for total services inputs to stage 4 intermediate demand advanced 1.2 percent. Conversely, prices for total goods inputs declined 0.2 percent. (See table D.) Increases in the indexes for nonresidential real estate rents; securities brokerage, dealing, investment advice, and related services; loan services (partial); machinery and equipment parts and supplies wholesaling; portfolio management; and electric power outweighed falling prices for gasoline; diesel fuel; and warehousing, storage, and related services. For the 12 months ended in August, the index for stage 4 intermediate demand rose 8.7 percent.

Stage 3 intermediate demand: Prices for stage 3 intermediate demand moved down 1.8 percent in August, the largest decrease since falling 5.4 percent in April 2020. In August, the index for total goods inputs to stage 3 intermediate demand declined 3.6 percent. In contrast, prices for total services inputs rose 0.3 percent. Declines in the indexes for diesel fuel, primary basic organic chemicals, raw milk, jet fuel, steel mill products, and television advertising time sales outweighed increasing prices for loan services (partial), livestock, and corn. For the 12 months ended in August, the index for stage 3 intermediate demand advanced 12.1 percent.

Stage 2 intermediate demand: Prices for stage 2 intermediate demand moved up 3.7 percent in August, the largest increase since rising 4.3 percent in February. In August, the index for total goods inputs to stage 2 intermediate demand climbed 6.0 percent, and prices for total services inputs advanced 1.3 percent. Increases in the indexes for natural gas; loan services (partial); fuels and lubricants retailing; oilseeds; securities brokerage, dealing, investment advice, and related services; and arrangement of freight and cargo transportation outweighed falling prices for crude petroleum, primary basic organic chemicals, and guestroom rental. For the 12 months ended in August, the index for stage 2 intermediate demand jumped 20.4 percent.

Stage 1 intermediate demand: Prices for stage 1 intermediate demand moved down 0.4 percent in August after decreasing 1.7 percent in July. In August, the index for total goods inputs to stage 1 intermediate demand fell 1.7 percent. Conversely, prices for total services inputs increased 1.1 percent. Declines in the indexes for diesel fuel, primary basic organic chemicals, iron and steel, gasoline, residual fuels, and guestroom rental outweighed rising prices for securities brokerage, dealing, investment advice, and related services; nonresidential real estate rents; and natural gas to electric utilities. For the 12 months ended in August, the index for stage 1 intermediate demand advanced 10.4 percent.

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

Month	Stage 4 intermediate demand			Stage 3 intermediate demand			Stage 2 intermediate demand			Stage 1 intermediate demand		
	Total	Goods inputs	Ser-vices inputs	Total	Goods inputs	Ser-vices inputs	Total	Goods inputs	Ser-vices inputs	Total	Goods inputs	Ser-vices inputs
2021												
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.....	1.2	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	1.2	0.7	2.5	3.7	1.3	2.8	4.7	0.7	1.7	2.4	0.9
May ¹	0.9	1.4	0.4	1.6	2.6	0.5	3.6	6.8	0.2	1.5	2.3	0.6
June ¹	0.3	1.0	-0.5	0.5	1.4	-0.5	3.0	5.4	0.1	0.9	2.3	-0.8
July ¹	-0.4	-0.9	0.0	-1.2	-2.5	0.4	-5.2	-10.2	0.9	-1.7	-2.9	-0.3
Aug.....	0.5	-0.2	1.2	-1.8	-3.6	0.3	3.7	6.0	1.3	-0.4	-1.7	1.1

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

The Producer Price Index for September 2022 is scheduled to be released on Wednesday, October 12, 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
wpu4	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
[August 2022]

Grouping	Commodity code		Relative Importance Dec. 2021 ¹	Unadjusted 12-month percent change ² Aug. 2021 to Aug. 2022 ^p	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			Mar. to Apr.	Apr. to May ^p	May to June ^p	June to July ^p	July to Aug. ^p
Final Demand									
Final demand.....	FD	4	100.000	8.7	0.5	0.8	1.0	-0.4	-0.1
Final demand goods.....	FD	41	33.128	12.2	1.3	1.5	2.2	-1.7	-1.2
Final demand foods.....	FD	411	5.743	13.1	1.5	0.4	-0.1	1.3	0.0
Finished consumer foods ³	FD	4111	4.425	13.9	1.5	0.6	-0.4	2.3	-0.3
Finished consumer foods, crude.....	FD	41113	0.460	36.8	1.4	-0.5	-7.8	14.1	-7.7
Finished consumer foods, processed.....	FD	41112	3.965	11.7	1.5	0.8	0.5	1.0	0.6
Government purchased foods.....	FD	4112	0.407	10.2	1.5	-0.5	0.2	1.7	0.2
Foods for export.....	FD	4113	0.911	10.7	1.7	0.0	0.9	-3.4	1.3
Final demand energy.....	FD	412	5.972	25.9	1.5	4.8	8.9	-9.0	-6.0
Finished consumer energy goods ³	FD	4121	4.773	21.3	-0.2	4.7	9.3	-9.3	-5.6
Government purchased energy.....	FD	4122	0.834	41.2	6.5	4.7	7.5	-8.1	-7.6
Energy for export.....	FD	4123	0.365	53.9	10.1	5.5	7.1	-7.9	-7.3
Final demand goods less foods and energy.....	FD	413	21.412	8.1	1.1	0.7	0.5	0.2	0.2
Finished goods less foods and energy ³	FD	4131	12.084	8.8	1.1	0.8	0.7	0.6	0.5
Finished consumer goods less foods and energy.....	FD	41311	6.448	8.4	0.8	0.9	0.7	0.6	0.5
Nondurable consumer goods less foods and energy.....	FD	413111	4.061	8.9	0.8	1.0	0.8	0.6	0.6
Durable consumer goods.....	FD	413112	2.387	7.7	0.9	0.6	0.5	0.5	0.3
Private capital equipment.....	FD	41312	5.636	9.3	1.3	0.7	0.7	0.5	0.5
Private capital equipment for manufacturing industries.....	FD	413121	1.256	11.4	1.7	0.9	0.6	0.5	0.3
Private capital equipment for nonmanufacturing industries.....	FD	413122	4.380	8.7	1.2	0.7	0.8	0.5	0.5
Government purchased goods, excluding foods and energy.....	FD	4132	2.255	9.5	0.8	1.2	0.6	0.6	0.0
Government purchased goods excluding foods, energy, and capital equipment.....	FD	41321	1.338	12.1	1.2	1.6	0.7	0.7	-0.2
Government purchased capital equipment.....	FD	41322	0.917	5.8	0.2	0.6	0.5	0.3	0.3
Goods for export, excluding foods and energy.....	FD	4133	7.073	6.4	1.3	0.4	0.0	-0.6	-0.3
Final demand services.....	FD	42	65.132	6.6	0.0	0.5	0.3	0.2	0.4
Final demand trade services ⁴	FD	423	20.434	12.9	0.1	0.7	0.6	0.9	0.8
Trade of finished goods ³	FD	4231	17.549	12.9	0.0	0.7	0.7	0.9	0.9
Trade of personal consumption goods.....	FD	42311	14.295	11.6	-0.2	1.1	0.6	0.8	1.2
Trade of private capital equipment.....	FD	42312	3.254	19.1	0.8	-0.7	0.8	1.1	-0.3
Trade of government purchased goods.....	FD	4232	0.761	14.3	0.8	0.4	0.6	1.1	0.2
Trade of government purchased goods, excluding capital equipment.....	FD	42321	0.474	10.0	0.6	1.7	0.6	0.5	0.5
Trade of government purchased capital equipment.....	FD	42322	0.287	22.0	1.2	-1.7	0.6	2.0	-0.2
Trade of exports.....	FD	4233	2.124	12.0	0.8	0.6	-0.1	1.0	0.4
Final demand transportation and warehousing services.....	FD	422	4.396	17.8	2.1	2.5	0.9	-0.8	-0.2
Transportation of passengers for final demand.....	FD	4221	1.113	20.1	2.2	3.8	3.9	-2.8	3.3
Transportation of private passengers.....	FD	42211	0.752	20.0	2.2	3.8	3.9	-2.8	3.3
Transportation of government passengers.....	FD	42212	0.090	19.8	2.2	3.8	3.9	-2.8	3.2
Transportation of passengers for export.....	FD	42213	0.271	20.3	2.2	3.9	3.9	-2.9	3.3
Transportation and warehousing of goods for final demand.....	FD	4222	3.283	17.0	2.0	2.1	-0.1	0.0	-1.4
Transportation and warehousing of finished goods ³	FD	42221	2.160	17.3	2.0	2.1	-0.1	-0.1	-1.4
Transportation and warehousing of personal consumption goods.....	FD	422211	1.734	17.2	2.0	2.1	-0.1	0.0	-1.4
Transportation and warehousing of private capital equipment.....	FD	422212	0.426	17.9	2.1	2.3	-0.1	-0.3	-1.5
Transportation and warehousing of government purchased goods.....	FD	42222	0.198	16.2	2.1	1.6	0.2	0.7	-1.3
Transportation and warehousing of exports.....	FD	42223	0.925	16.5	2.1	2.1	-0.1	-0.1	-1.2
Final demand services less trade, transportation, and warehousing.....	FD	421	40.301	2.3	-0.2	0.1	0.2	0.0	0.3
Finished services less trade, transportation, and warehousing ³	FD	4211	35.337	2.4	-0.3	0.1	0.2	0.1	0.2
Finished consumer services less trade, transportation, and warehousing.....	FD	42111	31.663	1.9	-0.3	-0.1	0.2	0.1	0.1
Private capital investment services less trade, transportation, and warehousing.....	FD	42112	3.674	7.2	-0.1	1.0	0.7	0.0	0.7
Government purchased services less trade, transportation, and warehousing.....	FD	4212	2.482	1.7	0.1	0.0	-0.2	-0.3	0.6
Gov. purchased services less trade, transportation, and warehousing, excl. capital investment.....	FD	42121	2.376	1.7	0.1	0.0	-0.3	-0.4	0.6
Government purchased capital investment services less trade, transportation, and warehousing.....	FD	42122	0.106	0.7	-0.2	0.6	0.1	0.2	-0.1
Services for export less trade, transportation, and warehousing.....	FD	4213	2.482	1.5	-0.2	0.5	-0.7	-0.4	1.6
Final demand construction.....	FD	43	1.740	22.9	3.6	0.3	0.5	5.0	0.3
Construction for private capital investment.....	FD	431	1.133	25.2	3.8	0.4	0.6	5.4	0.3
Construction for government.....	FD	432	0.606	18.6	3.2	0.3	0.4	4.3	0.2
Special Groupings of Final Demand									
Final demand less exports.....	FD	49101	85.849	8.7	0.4	0.8	1.1	-0.3	-0.1
Final demand less government.....	FD	49102	92.367	8.5	0.4	0.8	0.9	-0.3	-0.1

See footnotes at end of table.

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

Grouping	Commodity code		Relative Importance Dec. 2021 ¹	Unadjusted 12-month percent change ² Aug. 2021 to Aug. 2022 ^p	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			Mar. to Apr.	Apr. to May ^p	May to June ^p	June to July ^p	July to Aug. ^p
Final demand less foods, food and nonalcoholic beverages for immediate consumption, and energy ⁵	FD	49103	87.780	7.4	0.4	0.5	0.4	0.3	0.3
Final demand less foods and energy ⁵	FD	49104	88.285	7.3	0.4	0.5	0.4	0.3	0.4
Final demand less foods and food and nonalcoholic beverages for immediate consumption ⁵	FD	49105	93.752	8.6	0.5	0.8	1.1	-0.5	-0.2
Final demand less foods ⁵	FD	49106	94.257	8.5	0.5	0.8	1.1	-0.5	-0.1
Final demand less energy.....	FD	49107	94.028	7.6	0.4	0.5	0.3	0.4	0.3
Final demand less trade services.....	FD	49108	79.566	7.7	0.6	0.8	1.1	-0.7	-0.4
Final demand less distributive services ⁶	FD	49109	76.283	7.3	0.6	0.8	1.1	-0.7	-0.3
Final demand goods less energy.....	FD	49111	27.155	9.2	1.2	0.7	0.3	0.4	0.1
Final demand goods less foods.....	FD	49112	27.384	12.0	1.2	1.7	2.6	-2.4	-1.4
Final demand services less trade services.....	FD	49113	44.697	3.8	0.0	0.3	0.2	-0.1	0.2
Final demand distributive services ⁶	FD	49114	23.717	13.4	0.4	0.9	0.5	0.8	0.5
Final demand goods plus final demand distributive services ⁶	FD	49115	56.844	12.7	0.9	1.3	1.5	-0.7	-0.5
Final demand less foods, energy, and trade services ⁵	FD	49116	67.851	5.6	0.4	0.5	0.3	0.1	0.2
Private and government purchased capital equipment.....	FD	49117	6.553	8.8	1.2	0.7	0.7	0.5	0.4
Private and government purchased capital investment services.....	FD	49118	7.747	13.1	0.5	0.2	0.7	0.6	0.1
Total private and government purchased capital investment.....	FD	49119	14.300	12.3	1.1	0.4	0.7	1.0	0.3
Total finished ³	FD	49201	78.213	8.4	0.3	0.8	1.1	-0.3	-0.1
Total finished less foods, food and nonalcoholic beverages for immediate consumption, and energy ^{3, 5}	FD	49202	68.515	7.3	0.2	0.5	0.5	0.4	0.4
Total finished less foods and energy ^{3, 5}	FD	49203	69.015	7.2	0.2	0.5	0.5	0.4	0.4
Total finished less foods and food and nonalcoholic beverages for immediate consumption ^{3, 5}	FD	49204	73.288	8.2	0.2	0.8	1.2	-0.4	-0.1
Total finished less foods ^{3, 5}	FD	49205	73.788	8.1	0.2	0.8	1.2	-0.4	-0.1
Total finished less energy ³	FD	49206	73.440	7.6	0.3	0.5	0.4	0.5	0.4
Finished goods ³	FD	49207	21.282	12.7	0.8	1.8	2.7	-1.8	-1.2
Finished goods less energy ³	FD	49208	16.509	10.2	1.2	0.8	0.4	1.0	0.3
Finished goods, excluding foods ^{3, 5}	FD	49209	16.857	12.4	0.7	2.0	3.5	-2.8	-1.5
Finished services ³	FD	49210	55.798	6.5	-0.1	0.4	0.4	0.3	0.4
Private capital investment services.....	FD	49211	7.354	12.9	0.5	0.3	0.7	0.5	0.1
Finished distributive services ^{3, 6}	FD	49212	19.709	13.4	0.2	0.9	0.6	0.8	0.6
Finished services less trade services ³	FD	49213	38.249	3.6	-0.1	0.3	0.3	0.0	0.2
Finished services less distributive services ^{3, 6}	FD	49214	36.089	2.8	-0.2	0.1	0.3	0.0	0.3
Total private capital investment (goods, services, and construction).....	FD	49215	14.123	12.4	1.1	0.5	0.7	0.9	0.3
Finished goods plus finished distributive services ^{3, 6}	FD	49216	40.991	13.0	0.5	1.3	1.7	-0.6	-0.4
Total exports.....	FD	49301	14.151	8.7	1.4	0.8	0.3	-0.9	0.0
Goods for export.....	FD	49302	8.349	8.9	1.8	0.7	0.5	-1.4	-0.6
Services for export.....	FD	49303	5.802	8.5	0.7	1.0	-0.2	0.0	0.7
Total government purchases.....	FD	49401	7.633	11.8	1.6	1.1	1.4	-0.7	-0.9
Government purchased goods.....	FD	49402	3.496	17.0	2.5	2.0	2.7	-2.1	-2.3
Government purchased services.....	FD	49403	3.531	5.6	0.5	0.3	0.1	0.0	0.4
Total government purchased capital investment (goods, services, construction).....	FD	49404	1.916	11.8	1.3	0.1	0.5	1.9	0.1
Government purchases, defense.....	FD	49405	2.357	11.1	—	—	—	-0.8	-1.5
Government purchases, non-defense.....	FD	49406	5.276	12.2	—	—	—	-0.7	-0.7
Personal consumption.....	FD	49501	64.090	7.6	0.1	0.9	1.2	-0.5	-0.1
Personal consumption goods (finished consumer goods).....	FD	49502	15.646	14.0	0.7	2.1	3.4	-2.6	-1.8
Personal consumption goods less energy.....	FD	49503	10.873	10.6	1.1	0.8	0.3	1.3	0.2
Personal consumption goods less foods.....	FD	49504	11.221	14.0	0.4	2.7	4.8	-4.3	-2.4
Personal consumption nondurable goods less foods.....	FD	49508	8.834	15.7	0.2	3.2	5.8	-5.4	-3.0
Personal consumption services.....	FD	49505	48.444	5.5	-0.1	0.4	0.4	0.2	0.4
Personal consumption less trade services.....	FD	49506	49.795	6.4	0.1	0.8	1.3	-0.9	-0.5
Personal consumption less distributive services ⁶	FD	49507	48.061	6.1	0.1	0.8	1.4	-0.9	-0.5
Personal consumption less foods and energy.....	FD	49510	54.892	5.8	0.0	0.5	0.4	0.3	0.4
Personal consumption less foods, energy, and trade services ⁴	FD	49511	40.597	3.9	0.0	0.3	0.3	0.1	0.2
Personal consumption less foods, energy, and distributive services ⁶	FD	49512	38.863	3.3	-0.1	0.2	0.4	0.1	0.3
Personal consumption goods plus personal consumption distributive services ⁶	FD	49509	31.675	13.0	0.4	1.7	2.0	-1.0	-0.5
Intermediate Demand by Commodity Type									
Processed goods									
Processed goods for intermediate demand.....	ID6	1	100.000	14.1	2.0	2.3	2.0	-2.2	-1.7
Materials and components for manufacturing.....	ID6	11	45.927	7.4	1.4	2.2	-0.2	-0.6	-1.7
Materials for manufacturing.....	ID6	111	30.390	6.0	1.8	2.8	-0.6	-1.1	-2.7
Materials for food manufacturing.....	ID6	1111	4.084	13.0	4.0	1.3	-0.4	-0.5	-0.7
Materials for nondurable manufacturing.....	ID6	1112	13.045	8.1	1.4	2.4	0.5	0.4	-3.2
Materials for durable manufacturing.....	ID6	1113	13.261	1.5	1.4	3.8	-1.9	-2.9	-2.8
Components for manufacturing.....	ID6	112	15.537	10.0	0.7	0.9	0.7	0.4	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
[August 2022]

Grouping	Commodity code		Relative Importance Dec. 2021 ¹	Unadjusted 12-month percent change ² Aug. 2021 to Aug. 2022 ^p	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			Mar. to Apr.	Apr. to May ^p	May to June ^p	June to July ^p	July to Aug. ^p
Components for nondurable manufacturing.....	ID6	1121	0.800	14.4	0.5	0.9	1.3	0.6	0.6
Components for durable manufacturing.....	ID6	1122	14.737	9.8	0.7	0.9	0.7	0.4	0.3
Materials and components for construction.....	ID6	12	9.074	15.2	0.5	0.9	-0.2	0.2	0.4
Materials for construction.....	ID6	121	3.869	12.7	-0.8	0.2	-1.7	0.0	0.5
Components for construction.....	ID6	122	5.205	17.1	1.6	1.3	0.9	0.3	0.4
Processed fuels and lubricants for intermediate demand.....	ID6	13	18.757	32.3	4.4	4.5	8.7	-8.6	-5.2
Processed fuels and lubricants to manufacturing industries.....	ID6	131	4.683	28.6	4.9	3.7	4.9	-3.7	-2.5
Processed fuels and lubricants to nonmanufacturing industries.....	ID6	132	14.074	33.7	4.3	4.8	9.9	-10.1	-6.0
Containers for intermediate demand.....	ID6	14	2.795	19.3	2.5	1.6	1.0	0.2	1.3
Supplies for intermediate demand.....	ID6	15	23.448	11.9	1.6	1.2	0.5	0.5	0.2
Supplies to manufacturing industries.....	ID6	151	3.227	10.7	1.4	0.7	0.3	0.2	0.3
Supplies to nonmanufacturing industries.....	ID6	152	20.221	12.1	1.7	1.2	0.5	0.5	0.2
Supplies to nonmanufacturing industries, feeds.....	ID6	1521	1.743	15.6	2.0	1.1	0.8	1.1	1.8
Supplies to nonmanufacturing industries, other than feeds.....	ID6	1522	18.478	11.8	1.6	1.2	0.5	0.4	0.1
Unprocessed goods									
Unprocessed goods for intermediate demand.....	ID6	2	100.000	36.1	5.5	5.4	4.8	-10.7	5.7
Unprocessed foodstuffs and feedstuffs.....	ID6	21	32.603	23.1	4.2	0.2	-0.4	-0.8	-1.9
Unprocessed nonfood materials.....	ID6	22	67.398	42.9	6.2	7.8	7.1	-14.7	9.3
Unprocessed nonfood materials except fuel.....	ID6	221	44.822	14.7	0.9	-1.2	5.2	-12.1	-2.3
Unprocessed nonfood materials except fuel to manufacturing industries.....	ID6	2211	42.852	14.9	0.9	-1.3	5.3	-12.6	-2.4
Unprocessed nonfood materials except fuel to nonmanufacturing industries.....	ID6	2212	1.970	11.7	0.6	0.7	2.2	1.1	0.9
Unprocessed fuel.....	ID6	222	22.576	109.8	19.6	27.2	10.2	-19.0	29.2
Unprocessed fuel to manufacturing industries.....	ID6	2221	1.143	81.3	18.1	10.6	8.3	-4.8	8.8
Unprocessed fuel to nonmanufacturing industries.....	ID6	2222	21.433	111.6	19.7	28.3	10.3	-19.7	30.5
Services									
Services for intermediate demand.....	ID6	3	100.000	6.3	0.9	0.5	-0.4	0.2	1.0
Trade services for intermediate demand ⁴	ID6	33	22.377	8.5	1.0	0.6	-1.1	-0.1	0.6
Trade services for manufacturing industries.....	ID6	331	11.472	7.4	1.6	1.5	-1.3	0.1	0.3
Trade services for nonmanufacturing industries.....	ID6	332	10.905	9.6	0.4	-0.3	-0.9	-0.4	0.9
Transportation and warehousing services for intermediate demand.....	ID6	32	13.264	12.6	1.7	0.6	0.1	1.0	-0.1
Transportation of passengers for intermediate demand.....	ID6	321	0.984	19.8	2.2	3.8	3.9	-2.8	3.2
Transportation of passengers for manufacturing industries.....	ID6	3211	0.116	20.3	2.2	3.9	3.9	-2.9	3.3
Transportation of passengers for nonmanufacturing industries.....	ID6	3212	0.868	19.8	2.2	3.8	3.9	-2.8	3.2
Transportation and warehousing of goods for intermediate demand.....	ID6	322	12.280	12.0	1.7	0.3	-0.2	1.3	-0.4
Transportation and warehousing of goods for manufacturing industries.....	ID6	3221	2.498	15.9	2.3	2.4	0.2	0.4	-0.7
Transportation and warehousing of goods for nonmanufacturing industries.....	ID6	3222	9.782	11.0	1.6	-0.3	-0.3	1.6	-0.3
Services less trade, transportation, and warehousing for intermediate demand.....	ID6	31	64.359	4.3	0.6	0.4	-0.3	0.2	1.3
Services less trade, transportation, and warehousing for manufacturing industries.....	ID6	311	2.040	6.3	0.7	0.1	0.1	0.5	0.4
Services less trade, transportation, and warehousing for nonmanufacturing industries.....	ID6	312	62.318	4.3	0.6	0.4	-0.3	0.2	1.4
Construction									
Construction for intermediate demand.....	ID6	4	100.000	10.7	0.8	0.8	0.9	1.1	0.1
Special Groupings of Intermediate Demand by Commodity Type									
Processed materials less foods and feeds.....	ID6	9111	92.100	14.2	2.0	2.4	2.2	-2.4	-1.9
Processed foods and feeds.....	ID6	9112	7.900	13.1	3.2	1.1	0.0	0.2	0.1
Processed energy goods.....	ID6	9113	18.757	32.3	4.4	4.5	8.7	-8.6	-5.2
Processed materials less energy.....	ID6	9118	81.243	10.0	1.4	1.7	0.1	-0.2	-0.8
Processed materials less foods and energy.....	ID6	9115	73.343	9.6	1.2	1.8	0.1	-0.2	-0.8
Intermediate distributive services ⁷	ID6	9116	34.657	9.7	1.3	0.5	-0.8	0.4	0.2
Processed goods plus intermediate distributive services.....	ID6	9117	—	12.8	1.8	1.8	1.2	-1.5	-1.2
Unprocessed materials less agricultural products.....	ID6	9211	62.340	47.0	6.5	8.8	7.5	-15.1	10.1
Unprocessed energy materials ⁸	ID6	9212	42.130	75.0	9.3	14.6	11.2	-17.8	13.5
Unprocessed materials less energy.....	ID6	9213	57.870	12.6	3.0	-1.7	-1.1	-3.2	-0.8
Unprocessed nonfood materials less energy ⁹	ID6	9216	25.267	-1.6	1.3	-4.2	-2.3	-7.0	1.0
Intermediate Demand by Production Flow									
Stage 4 Intermediate Demand									
Stage 4 intermediate demand.....	ID5	4	100.000	8.7	1.0	0.9	0.3	-0.4	0.5
Inputs to stage 4 goods producers.....	ID5	41	32.865	10.0	1.3	1.3	0.2	-0.3	0.1
Goods.....	ID5	411	23.183	10.2	1.5	1.5	0.3	-0.6	0.1

See footnotes at end of table.

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

Grouping	Commodity code		Relative Importance Dec. 2021 ¹	Unadjusted 12-month percent change ² Aug. 2021 to Aug. 2022 ^p	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			Mar. to Apr.	Apr. to May ^p	May to June ^p	June to July ^p	July to Aug. ^p
Foods.....	ID5	4111	3.188	12.4	2.8	1.4	-0.1	-2.8	0.5
Energy.....	ID5	4112	0.189	28.8	3.0	4.2	5.8	-7.8	-4.3
Goods excluding foods and energy.....	ID5	4113	19.806	9.7	1.2	1.5	0.3	-0.1	0.0
Services.....	ID5	412	9.682	9.3	0.8	0.9	-0.2	0.3	0.4
Trade services.....	ID5	4123	7.732	9.8	0.7	0.9	-0.4	0.3	0.4
Transportation and warehousing services.....	ID5	4122	0.475	13.9	2.2	2.1	0.9	-0.1	-0.2
Transportation of passengers.....	ID5	41221	0.066	20.3	2.2	3.9	3.9	-2.9	3.3
Transportation and warehousing of goods.....	ID5	41222	0.409	12.8	2.1	1.8	0.3	0.3	-0.9
Services less trade, transportation, and warehousing.....	ID5	4121	1.475	5.6	0.4	0.1	0.2	0.4	0.5
Inputs to stage 4 services producers.....	ID5	42	52.483	6.7	0.8	0.5	0.3	-0.2	1.1
Goods.....	ID5	421	13.894	12.9	1.2	1.1	2.1	-0.7	0.0
Foods.....	ID5	4211	2.353	9.1	1.5	-0.3	0.3	1.2	-0.3
Energy.....	ID5	4212	3.737	20.5	1.9	2.1	6.1	-3.3	-1.0
Goods excluding foods and energy.....	ID5	4213	7.804	10.4	0.8	0.9	0.6	0.2	0.5
Services.....	ID5	422	38.503	4.5	0.7	0.2	-0.4	0.0	1.6
Trade services.....	ID5	4223	4.524	10.6	0.7	1.5	0.0	0.5	0.7
Transportation and warehousing services.....	ID5	4222	3.277	12.0	2.2	-0.5	1.1	1.9	-0.7
Transportation of passengers.....	ID5	42221	0.421	20.1	2.2	3.8	3.9	-2.9	3.3
Transportation and warehousing of goods.....	ID5	42222	2.856	10.8	2.2	-1.1	0.6	2.7	-1.3
Services less trade, transportation, and warehousing.....	ID5	4221	30.702	2.8	0.5	0.1	-0.7	-0.3	2.0
Construction.....	ID5	423	0.086	10.7	0.8	0.8	0.9	1.1	0.1
Inputs to stage 4 construction producers.....	ID5	43	14.650	13.2	0.8	1.2	0.5	-1.5	-0.6
Goods.....	ID5	431	10.502	16.0	0.6	1.4	1.2	-1.7	-0.8
Energy.....	ID5	4312	0.844	34.7	1.8	7.1	13.9	-14.5	-10.7
Goods excluding foods and energy.....	ID5	4313	9.658	14.3	0.5	0.8	-0.3	0.0	0.4
Services.....	ID5	432	4.148	6.4	1.2	0.7	-1.2	-1.0	-0.3
Trade services.....	ID5	4323	2.051	4.0	1.6	0.4	-2.9	-2.0	-0.6
Transportation and warehousing services.....	ID5	4322	0.612	16.8	2.0	2.1	0.0	-0.3	-1.4
Transportation of passengers.....	ID5	43221	0.013	20.2	2.2	3.9	3.9	-2.9	3.3
Transportation and warehousing of goods.....	ID5	43222	0.599	16.7	2.0	2.0	0.0	-0.2	-1.5
Services less trade, transportation, and warehousing.....	ID5	4321	1.485	5.9	0.3	0.4	0.7	0.2	0.7
Stage 3 Intermediate Demand									
Stage 3 intermediate demand.....	ID5	3	100.000	12.1	2.5	1.6	0.5	-1.2	-1.8
Inputs to stage 3 goods producers.....	ID5	31	49.802	12.2	3.1	2.1	-0.3	-0.8	-2.4
Goods.....	ID5	311	40.208	13.2	3.2	2.2	0.0	-1.0	-2.8
Foods.....	ID5	3111	11.423	26.0	5.8	0.2	-0.6	0.1	-3.1
Energy.....	ID5	3112	1.551	48.2	10.7	8.3	6.5	-8.8	-5.6
Goods excluding foods and energy.....	ID5	3113	27.234	6.1	1.4	2.7	-0.3	-0.8	-2.5
Services.....	ID5	312	9.594	8.2	2.8	2.0	-1.7	-0.3	-0.3
Trade services.....	ID5	3123	5.774	4.5	3.4	2.0	-3.0	-0.6	-0.3
Transportation and warehousing services.....	ID5	3122	2.538	16.9	2.4	2.6	0.3	-0.1	-0.8
Transportation of passengers.....	ID5	31221	0.120	20.3	2.2	3.9	3.9	-2.9	3.3
Transportation and warehousing of goods.....	ID5	31222	2.418	16.8	2.4	2.5	0.1	0.1	-1.0
Services less trade, transportation, and warehousing.....	ID5	3121	1.282	8.4	0.8	0.3	0.4	0.8	0.6
Inputs to stage 3 services producers.....	ID5	32	48.823	12.1	2.0	1.2	1.5	-1.5	-1.3
Goods.....	ID5	321	10.251	32.9	5.5	3.9	6.0	-7.2	-6.3
Foods.....	ID5	3211	0.088	14.8	1.3	-0.5	0.5	1.3	3.0
Energy.....	ID5	3212	6.099	48.0	7.8	5.2	8.4	-10.3	-9.2
Goods excluding foods and energy.....	ID5	3213	4.064	11.2	0.9	1.3	0.6	0.2	-0.3
Services.....	ID5	322	37.657	6.6	0.9	0.2	-0.1	0.6	0.4
Trade services.....	ID5	3223	2.600	10.5	1.7	2.3	0.5	0.3	0.4
Transportation and warehousing services.....	ID5	3222	8.909	9.0	1.2	-0.8	-0.5	1.5	0.1
Transportation of passengers.....	ID5	32221	0.022	3.5	0.9	0.2	1.8	0.0	0.4
Transportation and warehousing of goods.....	ID5	32222	8.887	9.0	1.2	-0.8	-0.5	1.5	0.1
Services less trade, transportation, and warehousing.....	ID5	3221	26.148	5.4	0.8	0.4	0.0	0.4	0.5
Construction.....	ID5	323	0.915	10.7	0.8	0.8	0.9	1.1	0.1
Inputs to stage 3 construction producers.....	ID5	33	1.376	8.7	-1.0	-1.4	-2.5	-2.6	0.2
Goods.....	ID5	331	0.574	13.3	-0.4	0.3	-1.5	-0.7	0.1
Goods excluding foods and energy.....	ID5	3313	0.574	13.3	-0.4	0.3	-1.5	-0.7	0.1
Services.....	ID5	332	0.802	5.7	-1.3	-2.6	-3.2	-3.9	0.2
Trade services.....	ID5	3323	0.760	5.4	-1.4	-2.8	-3.4	-4.2	0.1
Transportation and warehousing services.....	ID5	3322	0.015	15.7	3.4	3.4	0.8	1.1	0.5
Transportation and warehousing of goods.....	ID5	33222	0.015	15.7	3.4	3.4	0.8	1.1	0.5
Services less trade, transportation, and warehousing.....	ID5	3321	0.027	10.8	0.8	0.8	0.4	1.0	1.5
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
[August 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			Aug. 2021 to Aug. 2022 ^p	Mar. to Apr.	Apr. to May ^p	May to June ^p	June to July ^p
Stage 2 intermediate demand.....	ID5	2	100.000	20.4	2.8	3.6	3.0	-5.2	3.7
Inputs to stage 2 goods producers.....	ID5	21	55.017	30.7	4.3	6.0	4.8	-9.0	5.6
Goods.....	ID5	211	42.903	37.0	5.1	7.3	5.8	-11.1	6.7
Foods.....	ID5	2111	3.172	14.0	2.0	0.7	1.9	-4.8	3.0
Energy.....	ID5	2112	20.215	72.5	8.6	14.2	10.8	-17.7	12.8
Goods excluding foods and energy.....	ID5	2113	19.516	7.3	1.6	-0.2	-0.8	-1.4	-1.0
Services.....	ID5	212	11.646	10.0	1.3	0.9	0.1	1.3	0.9
Trade services.....	ID5	2123	5.347	10.0	1.3	0.4	-0.4	1.3	1.0
Transportation and warehousing services.....	ID5	2122	3.332	11.3	2.0	1.9	0.4	1.2	0.5
Transportation of passengers.....	ID5	21221	0.156	19.2	2.2	3.7	3.8	-2.7	3.1
Transportation and warehousing of goods.....	ID5	21222	3.176	10.9	1.9	1.8	0.2	1.4	0.3
Services less trade, transportation, and warehousing.....	ID5	2121	2.967	8.5	0.8	0.6	0.8	1.2	1.3
Construction.....	ID5	213	0.468	10.7	0.8	0.8	0.9	1.1	0.1
Inputs to stage 2 services producers.....	ID5	22	44.982	8.2	0.7	0.3	0.3	0.6	1.2
Goods.....	ID5	221	5.753	14.2	1.5	2.0	1.7	-0.9	-0.1
Foods.....	ID5	2211	0.032	15.5	1.3	0.2	0.1	0.5	1.3
Energy.....	ID5	2212	0.393	42.3	5.8	10.3	13.7	-14.8	-4.8
Goods excluding foods and energy.....	ID5	2213	5.328	12.4	1.1	1.4	0.6	0.5	0.3
Services.....	ID5	222	37.664	7.2	0.5	0.0	0.1	0.8	1.4
Trade services.....	ID5	2223	2.497	21.5	0.9	-6.0	0.7	3.5	5.4
Transportation and warehousing services.....	ID5	2222	3.167	11.0	0.7	-1.6	-1.8	0.4	2.2
Transportation of passengers.....	ID5	22221	0.356	20.1	2.2	3.8	3.9	-2.8	3.3
Transportation and warehousing of goods.....	ID5	22222	2.811	9.7	0.5	-2.3	-2.6	0.9	2.0
Services less trade, transportation, and warehousing.....	ID5	2221	32.000	5.8	0.5	0.6	0.2	0.6	1.0
Construction.....	ID5	223	1.565	10.7	0.8	0.8	0.9	1.1	0.1
Stage 1 Intermediate Demand									
Stage 1 intermediate demand.....	ID5	1	100.000	10.4	1.7	1.5	0.9	-1.7	-0.4
Inputs to stage 1 goods producers.....	ID5	11	35.307	8.6	2.1	2.6	0.4	-2.5	-1.2
Goods.....	ID5	111	25.965	10.4	2.1	2.8	1.1	-3.2	-1.7
Foods.....	ID5	1111	3.181	9.8	2.4	0.4	0.9	-5.4	1.9
Energy.....	ID5	1112	3.712	33.7	5.4	7.5	9.3	-9.7	-2.0
Goods excluding foods and energy.....	ID5	1113	19.072	6.4	1.4	2.3	-0.6	-1.2	-2.3
Services.....	ID5	112	9.341	4.1	2.0	1.8	-1.9	-0.5	0.5
Trade services.....	ID5	1123	6.053	2.8	2.8	2.0	-3.2	-0.2	0.0
Transportation and warehousing services.....	ID5	1122	0.488	23.7	4.1	5.4	1.5	0.5	2.3
Transportation of passengers.....	ID5	11221	0.084	20.3	2.2	3.9	3.9	-2.9	3.3
Transportation and warehousing of goods.....	ID5	11222	0.404	24.4	4.5	5.7	1.2	1.0	2.2
Services less trade, transportation, and warehousing.....	ID5	1121	2.800	3.3	0.0	0.7	0.2	-1.4	0.9
Construction.....	ID5	113	0.001	10.7	0.8	0.8	0.9	1.1	0.1
Inputs to stage 1 services producers.....	ID5	12	51.790	10.8	1.6	1.1	1.4	-1.1	0.2
Goods.....	ID5	121	17.196	20.8	3.1	2.0	4.2	-3.2	-2.1
Foods.....	ID5	1211	0.051	88.2	81.8	7.8	-9.1	-2.9	-3.4
Energy.....	ID5	1212	5.758	33.9	5.2	3.0	9.7	-8.8	-6.3
Goods excluding foods and energy.....	ID5	1213	11.387	13.8	1.4	1.3	0.7	0.6	0.6
Services.....	ID5	122	34.589	5.9	0.8	0.6	-0.2	0.2	1.5
Trade services.....	ID5	1223	3.797	11.8	0.9	1.2	0.2	0.4	0.7
Transportation and warehousing services.....	ID5	1222	3.611	15.5	1.7	1.9	1.2	0.3	0.6
Transportation of passengers.....	ID5	12221	1.098	20.3	2.2	3.9	3.9	-2.9	3.3
Transportation and warehousing of goods.....	ID5	12222	2.513	13.4	1.5	1.0	-0.1	1.9	-0.6
Services less trade, transportation, and warehousing.....	ID5	1221	27.181	3.9	0.6	0.3	-0.5	0.1	1.7
Construction.....	ID5	123	0.005	10.7	0.8	0.8	0.9	1.1	0.1
Inputs to stage 1 construction producers.....	ID5	13	12.903	14.0	1.1	0.2	0.6	-2.1	-0.6
Goods.....	ID5	131	8.482	18.0	2.1	1.1	2.3	-1.5	-0.9
Energy.....	ID5	1312	0.827	50.5	8.6	3.0	11.8	-12.1	-9.8
Goods excluding foods and energy.....	ID5	1313	7.655	14.6	1.2	0.9	0.8	0.3	0.5
Services.....	ID5	132	4.421	6.9	-0.6	-1.5	-2.7	-3.3	0.1
Trade services.....	ID5	1323	3.756	5.2	-1.0	-2.1	-3.2	-3.8	0.4
Transportation and warehousing services.....	ID5	1322	0.609	18.9	2.1	2.3	-0.2	-0.5	-1.6
Transportation and warehousing of goods.....	ID5	13222	0.609	18.9	2.1	2.3	-0.2	-0.5	-1.6
Services less trade, transportation, and warehousing.....	ID5	1321	0.056	9.3	0.4	1.1	1.2	0.0	2.9
Special Groupings of Intermediate Demand by Production Flow									
Total goods inputs to stage 4 intermediate demand.....	ID5	9411	47.579	12.3	1.2	1.4	1.0	-0.9	-0.2
Total services inputs to stage 4 intermediate demand.....	ID5	9412	52.333	5.5	0.7	0.4	-0.5	0.0	1.2
Total construction inputs to stage 4 intermediate demand.....	ID5	9413	0.086	10.7	0.8	0.8	0.9	1.1	0.1
Total foods inputs to stage 4 intermediate demand.....	ID5	9414	5.541	11.0	2.2	0.7	0.1	-1.2	0.2

See footnotes at end of table.

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

Grouping	Commodity code		Relative Importance Dec. 2021 ¹	Unadjusted 12-month percent change ² Aug. 2021 to Aug. 2022 ^p	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			Mar. to Apr.	Apr. to May ^p	May to June ^p	June to July ^p	July to Aug. ^p
Total energy goods inputs to stage 4 intermediate demand.....	ID5	9415	4.770	23.2	1.9	3.3	7.8	-6.0	-3.1
Total goods less foods and energy inputs to stage 4 intermediate demand.	ID5	9416	37.268	11.1	0.9	1.2	0.2	0.0	0.2
Total goods inputs to stage 3 intermediate demand.....	ID5	9311	51.033	17.2	3.7	2.6	1.4	-2.5	-3.6
Total services inputs to stage 3 intermediate demand.....	ID5	9312	48.053	6.9	1.3	0.5	-0.5	0.4	0.3
Total construction inputs to stage 3 intermediate demand.....	ID5	9313	0.915	10.7	0.8	0.8	0.9	1.1	0.1
Total foods inputs to stage 3 intermediate demand.....	ID5	9314	11.511	25.9	5.8	0.2	-0.5	0.1	-3.0
Total energy goods inputs to stage 3 intermediate demand.....	ID5	9315	7.650	48.0	8.3	5.7	8.1	-10.0	-8.5
Total goods less foods and energy inputs to stage 3 intermediate demand.	ID5	9316	31.872	6.9	1.3	2.5	-0.2	-0.7	-2.2
Total goods inputs to stage 2 intermediate demand.....	ID5	9211	48.656	34.4	4.7	6.8	5.4	-10.2	6.0
Total services inputs to stage 2 intermediate demand.....	ID5	9212	49.310	7.9	0.7	0.2	0.1	0.9	1.3
Total construction inputs to stage 2 intermediate demand.....	ID5	9213	2.033	10.7	0.8	0.8	0.9	1.1	0.1
Total foods inputs to stage 2 intermediate demand.....	ID5	9214	3.204	14.1	2.0	0.7	1.9	-4.8	3.0
Total energy goods inputs to stage 2 intermediate demand.....	ID5	9215	20.608	72.0	8.5	14.1	10.9	-17.6	12.5
Total goods less foods and energy inputs to stage 2 intermediate demand.	ID5	9216	24.844	8.4	1.5	0.1	-0.5	-1.0	-0.8
Total goods inputs to stage 1 intermediate demand.....	ID5	9111	51.643	15.0	2.4	2.3	2.3	-2.9	-1.7
Total services inputs to stage 1 intermediate demand.....	ID5	9112	48.351	5.7	0.9	0.6	-0.8	-0.3	1.1
Total construction inputs to stage 1 intermediate demand.....	ID5	9117	0.006	10.7	0.8	0.8	0.9	1.1	0.1
Total foods inputs to stage 1 intermediate demand.....	ID5	9114	3.232	11.0	3.6	0.6	0.6	-5.4	1.7
Total energy goods inputs to stage 1 intermediate demand.....	ID5	9115	10.297	35.1	5.6	4.4	9.8	-9.4	-5.3
Total goods less foods and energy inputs to stage 1 intermediate demand.	ID5	9116	38.114	10.3	1.4	1.7	0.1	-0.3	-0.9

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
[August 2022]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Aug. 2021 to Aug. 2022 ^p	Mar. to Apr.	Apr. to May ^p	May to June ^p	June to July ^p
Final Demand								
Final demand.....	FD	4	8.7	0.5	0.8	1.0	-0.4	-0.1
Final demand goods.....	FD	41	12.2	1.3	1.5	2.2	-1.7	-1.2
Final demand foods.....	FD	411	13.1	1.5	0.4	-0.1	1.3	0.0
Fresh fruits and melons ²	01	11	21.9	8.3	-1.1	-1.6	2.0	0.2
Fresh and dry vegetables ²	01	13	45.2	-26.6	3.5	0.0	12.7	1.7
Grains.....	01	2	8.6	3.6	0.7	1.9	-11.8	2.9
Eggs for fresh use ²	01	7107	104.7	82.0	-0.3	-23.8	44.2	-25.0
Oilseeds.....	01	8301	9.5	1.3	-0.6	4.8	-13.6	5.1
Bakery products ²	02	11	14.4	0.9	0.9	0.4	1.9	1.5
Milled rice ²	02	13	18.8	0.8	1.9	1.1	3.6	1.2
Pasta products ²	02	1402	33.3	2.5	3.9	0.0	4.7	0.0
Beef and veal.....	02	2101	-12.6	-2.6	-9.5	1.7	9.5	-0.4
Pork.....	02	2104	-7.7	3.4	-7.4	-2.3	-0.3	1.9
Processed young chickens.....	02	2203	15.2	-0.1	7.1	1.8	-0.6	-1.8
Processed turkeys.....	02	2206	39.5	8.9	5.2	-2.0	1.9	1.9
Finfish and shellfish.....	02	23	-0.9	0.2	-1.9	-0.4	1.3	-1.4
Dairy products.....	02	3	20.3	3.1	0.9	0.5	-0.4	-1.7
Processed fruits and vegetables ²	02	4	14.7	1.5	3.6	0.4	2.3	0.6
Confectionery end products ²	02	55	8.2	0.4	0.5	0.2	1.6	0.8
Soft drinks ²	02	62	17.7	1.2	-0.8	0.7	0.8	6.0
Roasted coffee ²	02	6301	15.1	-0.2	0.1	2.1	-2.1	2.4
Shortening and cooking oils ²	02	78	13.4	1.7	4.6	-0.2	-9.6	-1.7
Frozen specialty food ²	02	85	13.9	2.0	1.5	0.4	1.2	0.3
Final demand energy.....	FD	412	25.9	1.5	4.8	8.9	-9.0	-6.0
Liquefied petroleum gas ²	05	32	27.1	-3.4	4.1	0.9	-11.8	-2.5
Residential electric power.....	05	41	12.2	1.0	0.7	1.3	0.9	1.0
Residential natural gas.....	05	51	25.0	3.0	5.6	6.4	-2.6	0.9
Gasoline.....	05	71	25.5	-3.1	8.7	17.3	-17.4	-12.7
Home heating oil and distillates.....	05	7302	59.2	9.0	3.8	3.6	-11.3	-12.2
No. 2 diesel fuel.....	05	7303	53.8	8.4	2.4	13.0	-14.4	-11.4
Final demand goods less foods and energy.....	FD	413	8.1	1.1	0.7	0.5	0.2	0.2
Alcoholic beverages.....	02	61	4.6	1.0	0.3	0.2	-0.3	0.1
Pet food ²	02	9402	14.1	0.3	3.2	4.6	0.5	1.1
Women's, girls', and infants' apparel ²	03	8106	1.7	0.1	0.3	0.0	0.1	0.1
Men's and boys' apparel ²	03	8107	10.0	0.6	0.1	0.1	0.5	0.0
Textile housefurnishings ²	03	82	2.7	2.0	-0.1	0.2	1.2	-1.1
Footwear.....	04	3	10.1	0.6	1.4	0.2	1.5	1.5
Industrial chemicals.....	06	1	10.0	0.4	4.5	0.8	2.6	-5.5
Pharmaceutical preparations.....	06	38	2.4	0.2	0.1	0.1	0.7	0.3
Soaps and detergents ²	06	71	10.2	0.4	2.4	0.7	0.3	0.5
Cleaning and polishing products ²	06	72	8.0	0.2	0.6	0.4	0.1	1.0
Cosmetics and other toiletries ²	06	75	6.5	0.1	0.6	0.8	0.2	0.5
Tires ²	07	1201	14.3	3.1	0.7	0.6	1.7	0.8
Consumer, institutional, and commercial products, n.e.c. ²	07	2B	26.3	1.5	2.4	1.8	1.1	0.5
Sanitary paper products ²	09	1501	11.4	0.3	2.4	1.5	1.2	0.0
Iron and steel scrap ²	10	12	-22.6	0.1	-11.9	-11.6	-11.3	-5.1
Agricultural machinery and equipment.....	11	1	17.2	3.0	0.7	1.7	0.1	0.8
Construction machinery and equipment ²	11	2	13.5	2.7	0.3	1.0	0.4	2.6
Metal cutting machine tools ²	11	37	4.3	0.0	0.5	0.2	0.0	0.3
Metal forming machine tools.....	11	38	6.3	0.5	2.6	0.6	0.3	1.2
Tools, dies, jigs, fixtures, and industrial molds ²	11	39	8.4	1.5	0.5	0.3	0.2	0.4
Pumps, compressors, and equipment.....	11	41	15.6	1.6	2.1	1.1	1.2	0.4
Industrial material handling equipment ²	11	44	14.5	2.6	0.9	0.8	0.8	0.5
Electronic computers and computer equipment ²	11	5	6.1	0.0	0.6	-0.2	0.7	-0.3
Textile machinery and equipment ²	11	62	6.0	0.0	0.3	0.0	0.0	0.0
Paper industries machinery ²	11	64	10.8	1.0	1.3	1.8	0.0	1.3
Printing trades machinery and equipment ²	11	65	5.9	0.2	0.3	0.6	0.3	0.8
Transformers and power regulators ²	11	74	35.7	3.1	1.1	4.0	1.3	1.0
Communication and related equipment.....	11	76	6.8	0.3	0.8	0.6	1.2	0.2
Electronic components and accessories.....	11	78	3.6	-0.3	0.4	0.7	-0.2	-0.3
X-ray and electromedical equipment ²	11	7905	4.3	0.5	0.9	0.3	1.4	0.0
Oil field and gas field machinery ²	11	91	5.0	0.0	1.1	0.4	0.0	0.0
Mining machinery and equipment ²	11	92	14.2	4.6	0.8	0.1	0.0	0.4
Office and store machines and equipment ²	11	93	2.2	0.0	0.8	0.0	0.0	0.0

See footnotes at end of table.

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

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Mar. to Apr.	Apr. to May ^p	May to June ^p	June to July ^p	July to Aug. ^p
Household furniture ²	12	1	12.0	0.4	1.3	0.4	2.1	0.5
Commercial furniture ²	12	2	14.4	0.3	0.8	2.2	-0.1	1.6
Floor coverings ²	12	3	0.6	-1.0	-0.6	0.5	0.0	0.1
Household appliances ²	12	4	13.4	4.5	0.6	0.6	0.1	0.7
Home electronic equipment ²	12	5	6.5	0.0	0.2	0.4	0.0	0.0
Lawn and garden equipment excl. garden tractors ²	12	66	10.5	2.2	1.2	1.4	0.2	0.0
Passenger cars.....	14	1101	2.8	0.7	0.5	0.6	0.2	0.4
Light motor trucks.....	14	1105	4.9	1.3	0.3	0.3	0.8	0.2
Heavy motor trucks ²	14	1106	2.6	0.0	1.4	0.4	0.0	0.1
Motor vehicles parts ²	14	12	5.1	0.6	0.2	0.4	0.3	0.8
Truck trailers ²	14	14	33.0	1.6	0.5	0.7	0.7	0.1
Travel trailers and campers ²	14	16	16.3	1.2	1.1	0.1	0.1	0.2
Aircraft.....	14	21	4.9	0.4	0.3	0.5	0.3	0.3
Ships ²	14	31	5.7	-0.1	1.4	0.1	0.0	0.0
Railroad equipment ²	14	4	2.7	0.0	0.1	0.0	0.1	0.4
Toys, games, and children's vehicles ²	15	11	3.7	0.1	0.0	0.0	0.0	0.0
Sporting and athletic goods.....	15	12	17.7	0.1	2.5	4.8	0.1	-0.1
Cigarettes ²	15	21	12.5	0.8	2.4	0.0	0.8	2.0
Mobile homes ²	15	5	14.0	0.6	0.6	0.4	-0.8	-1.5
Medical, surgical & personal aid devices.....	15	6	3.2	0.3	0.3	0.2	0.2	0.1
Jewelry, platinum and karat gold ²	15	9402	10.1	0.7	1.4	-0.1	-2.9	1.7
Costume jewelry and novelties ²	15	9404	8.5	0.0	0.0	0.0	1.5	0.0
Final demand services.....	FD	42	6.6	0.0	0.5	0.3	0.2	0.4
Final demand trade services ³	FD	423	12.9	0.1	0.7	0.6	0.9	0.8
Machinery and equipment parts and supplies wholesaling ²	57	1102	12.0	-1.0	0.2	1.0	0.7	0.8
Machinery and vehicle wholesaling ²	57	1103	30.1	1.6	-2.3	0.7	2.7	0.2
Professional and commercial equipment wholesaling ²	57	1104	-0.1	-0.6	-0.3	1.0	-0.4	-2.2
Furnishings wholesaling ²	57	2	17.9	1.1	1.6	-3.0	1.5	3.2
Chemicals and allied products wholesaling ²	57	5	1.4	1.3	5.1	-3.7	1.7	2.3
Paper and plastics products wholesaling ²	57	6	24.3	4.2	2.5	0.7	-1.4	-0.5
Apparel wholesaling ²	57	7	-0.7	-0.1	-4.3	2.8	-1.3	-0.5
Food and alcohol wholesaling ²	57	8	14.1	1.0	-0.5	0.8	2.1	0.3
Food and alcohol retailing.....	58	1	16.4	0.4	1.7	4.6	1.9	-1.1
Health, beauty, and optical goods retailing ²	58	2	7.3	-1.5	7.5	-4.7	3.9	-0.4
Apparel, jewelry, footwear, and accessories retailing.....	58	3	-1.0	-1.3	2.8	-0.4	-5.4	0.8
Computer hardware, software, and supplies retailing ²	58	4	11.0	-0.4	-3.0	7.0	-0.7	0.3
TV, video, and photographic equipment and supplies retailing ²	58	5	-24.1	-3.6	-4.9	12.6	0.4	-0.3
Automobiles retailing (partial).....	58	6101	25.9	-0.3	5.7	-2.1	-1.2	-0.5
Automotive parts, including tires, retailing ²	58	6102	20.3	1.2	1.5	3.1	3.0	0.9
RVs, trailers, and campers retailing ²	58	8	-18.5	-6.1	-0.7	-15.7	-4.3	0.3
Sporting goods, including boats, retailing.....	58	9	-5.7	-2.3	0.1	-2.2	0.4	0.6
Lawn, garden, and farm equipment and supplies retailing ²	58	A	23.6	2.2	5.0	4.5	0.3	-1.4
Furniture retailing ²	58	B	19.8	-5.6	4.6	4.9	-2.8	-3.4
Flooring and floor coverings retailing ²	58	C	22.5	3.4	-1.9	0.7	-1.6	-1.5
Hardware, building materials, and supplies retailing.....	58	D	1.6	-3.0	-5.3	-5.6	-7.1	-0.6
Major household appliances retailing.....	58	E	5.9	4.7	-1.0	-0.8	1.6	-2.0
Fuels and lubricants retailing.....	58	F	44.9	2.0	-17.7	0.0	9.6	14.2
Cleaning supplies and paper products retailing ²	58	G	23.7	4.7	0.5	1.2	10.4	-1.4
Book retailing ²	58	H	3.5	-0.3	-1.7	0.7	2.0	0.3
Final demand transportation and warehousing services.....	FD	422	17.8	2.1	2.5	0.9	-0.8	-0.2
Rail transportation of freight and mail ²	30	11	10.7	2.6	2.0	0.5	1.2	-0.4
Truck transportation of freight ²	30	12	18.3	1.9	2.1	-0.3	-0.6	-1.9
Air transportation of freight ²	30	14	14.7	1.8	-0.2	2.7	-0.6	0.4
Courier, messenger, and U.S. postal services.....	30	16	11.5	1.3	1.2	-0.1	2.2	-0.3
Rail transportation of passengers.....	30	21	2.9	0.8	0.1	1.7	0.1	0.2
Airline passenger services.....	30	22	20.3	2.2	3.9	3.9	-2.9	3.3
Final demand services less trade, transportation, and warehousing.....	FD	421	2.3	-0.2	0.1	0.2	0.0	0.3
Sales of books ²	33	11	7.6	0.2	0.8	0.0	0.7	0.1
Sales and subscriptions of periodicals and newspapers.....	33	12	1.1	-0.6	0.3	0.1	0.5	-0.4
Application software publishing ²	34	2	0.9	-1.0	1.1	0.1	-0.1	0.0
Advertising space sales in periodicals, newspapers, directories, and mailing lists ²	36	1	0.5	-1.0	0.5	0.3	-0.7	0.2
Residential wired telecommunication services.....	37	11	2.2	0.0	0.5	0.1	0.5	1.1
Wireless telecommunication services.....	37	2	0.4	-0.1	0.6	0.2	0.0	-0.8
Cable and satellite subscriber services.....	37	3	6.0	0.1	0.5	0.7	1.0	0.1
Internet access services ²	37	4	-1.1	-0.1	-0.3	-0.5	-0.1	-0.2

See footnotes at end of table.

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

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Mar. to Apr.	Apr. to May ^p	May to June ^p	June to July ^p	July to Aug. ^p
Bundled wired telecommunications access services ²	37	5	2.7	0.0	0.0	-0.5	2.8	0.5
Consumer loans (partial).....	39	12	7.1	1.8	-1.1	-0.1	1.5	4.8
Deposit services (partial) ²	39	2	-8.3	-1.1	-0.2	1.8	0.2	-1.3
Other credit intermediation, incl. trust services (partial) ²	39	3	-5.5	0.1	-1.0	0.3	0.2	-4.9
Securities brokerage, dealing, investment advice, and related services ² ...	40	1	5.8	-0.4	5.3	-4.5	0.1	9.6
Portfolio management ²	40	2	-13.1	-2.1	-2.0	-2.6	-7.4	1.6
Life insurance ²	41	1101	3.0	-0.1	0.0	0.0	0.4	0.0
Disability insurance, including accidental death ²	41	1102	-0.4	0.0	0.0	0.0	-0.3	0.0
Health and medical insurance.....	41	1103	2.0	0.1	0.1	0.2	0.0	0.1
Property and casualty insurance ²	41	1104	2.1	0.1	0.2	0.6	0.8	0.1
Annuities ²	41	2	-1.6	0.0	-0.1	-0.6	-0.3	0.0
Residential property sales and leases, brokerage fees and commissions..	43	21	10.4	-0.4	0.7	0.7	0.7	1.3
Passenger car rental.....	44	1	1.2	9.3	-5.3	-3.8	-2.5	3.7
Legal services.....	45	1	4.2	-0.2	-0.2	0.0	0.4	0.4
Tax preparation and planning.....	45	2102	5.0	0.0	0.3	2.7	1.5	0.5
Architectural and engineering services.....	45	3	5.6	0.3	0.2	0.8	0.1	0.5
Management, scientific, and technical consulting services.....	45	4	0.1	-0.2	-0.4	-0.4	-0.1	0.0
Arrangement of flights (partial).....	47	1	10.6	7.5	0.1	0.6	1.7	1.0
Arrangement of vehicle rentals and lodging ²	47	2	2.0	1.3	-0.3	-0.6	-1.7	-0.7
Arrangement of cruises and tours ²	47	3	2.1	-1.7	4.4	5.7	1.8	0.1
Physician care.....	51	1101	0.7	-0.1	0.1	0.1	0.1	0.0
Medical laboratory and diagnostic imaging care ²	51	1102	-0.2	-0.1	0.1	0.0	-0.1	0.0
Home health and hospice care.....	51	1103	1.8	-0.4	0.1	0.1	-0.2	0.2
Hospital outpatient care ²	51	1104	3.4	0.2	0.0	0.8	0.7	-0.5
Dental care.....	51	1105	3.2	0.2	0.0	0.2	0.0	0.0
Hospital inpatient care.....	51	2101	3.7	-0.4	0.5	0.5	0.7	-0.2
Nursing home care.....	51	2102	2.8	0.3	0.2	0.2	0.2	0.9
Traveler accommodation services.....	53	11	10.9	-3.7	-3.2	6.2	0.5	-4.5
Food and beverages for immediate consumption services (partial) ²	54	1	-1.1	-1.4	1.5	0.3	0.7	0.1
Motor vehicle repair and maintenance (partial).....	55	2	4.1	0.4	0.6	0.2	0.2	0.1
Membership dues and admissions and recreation facility use fees (partial) ²	56	1	4.2	0.5	-1.9	0.2	0.8	-0.4
Recreational activity instruction fees (partial) ²	56	2	1.4	1.1	0.2	0.0	0.1	0.0
Gaming receipts (partial) ²	56	3	-0.2	-4.3	2.6	-1.3	2.2	-2.1
Mining services ²	60	1	11.1	0.0	2.2	0.9	-1.2	1.1
Final demand construction.....	FD	43	22.9	3.6	0.3	0.5	5.0	0.3
New warehouse building construction ²	80	1101	33.1	4.7	-0.1	-0.2	5.6	0.0
New school building construction ²	80	1102	19.5	4.1	0.0	0.2	5.2	0.1
New office building construction ²	80	1103	24.1	2.8	0.5	1.0	4.5	0.5
New industrial building construction ²	80	1104	27.9	4.5	0.7	0.7	6.1	0.3
New health care building construction ²	80	1105	21.2	4.2	0.1	0.3	6.0	0.2
Intermediate Demand by Commodity Type								
Processed goods for intermediate demand.....	ID6	1	14.1	2.0	2.3	2.0	-2.2	-1.7
Processed foods and feeds.....	ID6	9112	13.1	3.2	1.1	0.0	0.2	0.1
Meats.....	02	21	-6.4	-0.5	-5.9	-0.9	4.3	0.9
Processed poultry.....	02	22	22.9	2.7	6.4	2.1	-0.9	-1.8
Dairy products.....	02	3	20.3	3.1	0.9	0.5	-0.4	-1.7
Processed fruits and vegetables ²	02	4	14.7	1.5	3.6	0.4	2.3	0.6
Refined sugar and byproducts ²	02	53	6.3	0.3	0.5	0.2	0.5	0.7
Fats and oils ²	02	7	13.3	1.4	3.8	-0.6	-7.3	-1.9
Prepared animal feeds ²	02	9	15.2	1.8	1.6	1.2	0.0	1.2
Processed materials less foods and feeds.....	ID6	9111	14.2	2.0	2.4	2.2	-2.4	-1.9
Synthetic fibers ²	03	1	6.0	2.0	-0.1	0.4	1.7	-0.2
Processed yarns and threads ²	03	2	29.8	6.2	1.7	0.4	1.2	0.6
Finished fabrics ²	03	4	13.8	1.4	1.6	0.6	0.6	0.8
Liquefied petroleum gas ²	05	32	27.1	-3.4	4.1	0.9	-11.8	-2.5
Commercial electric power.....	05	42	14.7	-0.1	-1.4	4.8	1.8	1.4
Industrial electric power.....	05	43	12.2	0.6	1.1	-0.2	2.6	1.0
Commercial natural gas.....	05	52	38.6	5.4	9.1	8.2	-2.3	4.0
Industrial natural gas.....	05	53	47.9	6.4	15.7	11.1	-9.0	10.9
Natural gas to electric utilities.....	05	54	43.9	9.9	23.3	15.8	-19.0	5.6
Gasoline.....	05	71	25.5	-3.1	8.7	17.3	-17.4	-12.7
Jet fuel ²	05	7203	74.1	13.3	10.0	-0.8	-6.3	-12.8
No. 2 diesel fuel.....	05	7303	53.8	8.4	2.4	13.0	-14.4	-11.4
Residual fuels ²	05	74	25.5	8.4	0.7	6.3	-4.2	-16.7

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
[August 2022]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Mar. to Apr.	Apr. to May ^p	May to June ^p	June to July ^p	July to Aug. ^p
Finished lubricants ²	05	76	21.2	4.6	-0.1	5.1	3.1	0.8
Lubricating oil base stocks ²	05	78	51.1	13.2	9.1	11.2	2.9	-0.5
Asphalt.....	05	8102	60.6	18.9	13.1	1.7	-5.0	-6.3
Basic inorganic chemicals ²	06	13	27.1	2.6	3.7	1.3	4.0	0.4
Basic organic chemicals.....	06	14	7.6	0.1	4.6	0.7	2.4	-6.4
Prepared paint ²	06	21	24.7	5.3	0.6	1.4	2.2	0.4
Paint materials ²	06	22	17.7	3.0	3.6	1.6	0.2	3.2
Medicinal and botanical chemicals ²	06	31	1.7	0.1	-1.1	0.5	0.1	0.1
Biological products, including diagnostics.....	06	37	4.9	0.9	0.2	0.3	0.4	0.3
Fats and oils, inedible ²	06	4	2.6	0.4	3.3	2.2	-7.7	1.1
Nitrogenates.....	06	5201	45.8	6.6	-0.7	-3.9	-8.7	-4.8
Phosphates.....	06	5202	15.2	3.0	-2.4	-5.6	-2.0	-0.4
Other agricultural chemicals ²	06	53	41.8	24.8	-1.7	2.8	0.7	0.3
Plastic resins and materials.....	06	6	-5.2	5.3	1.2	1.1	-2.4	-4.3
Industrial gases ²	06	7903	18.3	0.1	1.3	1.0	0.4	-0.2
Adhesives and sealants ²	06	7904	21.8	2.6	1.0	3.1	0.0	1.7
Synthetic rubber ²	07	1102	9.8	3.3	0.6	2.0	4.0	0.1
Tires ²	07	1201	14.3	3.1	0.7	0.6	1.7	0.8
Plastic construction products ²	07	21	20.0	1.8	1.4	1.0	1.1	0.6
Unsupported plastic film, sheet, other shapes ²	07	22	13.8	1.0	0.9	2.0	0.4	0.2
Parts for manufacturing from plastics ²	07	26	11.1	0.4	0.6	1.6	0.4	0.4
Plastic packaging products ²	07	2A	14.0	1.7	1.0	1.3	1.3	1.0
Softwood lumber.....	08	11	14.8	-15.9	-0.1	-23.5	2.1	-5.2
Hardwood lumber ²	08	12	2.0	0.3	4.1	-0.8	-1.4	-2.8
Millwork.....	08	2	15.2	1.8	0.7	-0.7	-0.2	1.9
Plywood ²	08	3	-3.4	-6.9	-4.0	-2.2	-6.6	-2.6
Paper ²	09	13	11.2	1.3	0.9	0.6	1.2	1.0
Paperboard ²	09	14	17.3	1.9	1.1	2.9	1.0	-0.1
Paper boxes and containers ²	09	1503	20.4	2.5	2.5	0.4	0.5	2.5
Building paper and board ²	09	2	-7.8	-11.3	-12.6	-13.7	-13.6	1.2
Commercial printing ²	09	47	19.2	1.3	3.0	1.0	0.0	1.3
Foundry and forge shop products ²	10	15	16.4	2.2	2.1	0.2	0.6	-1.7
Steel mill products ²	10	17	-4.6	2.7	10.5	-1.7	-3.9	-5.7
Primary nonferrous metals ²	10	22	-6.1	0.8	-10.6	-2.0	-9.6	1.6
Secondary nonferrous metals ²	10	24	0.8	4.3	-3.2	-2.7	-9.3	3.8
Aluminum mill shapes ²	10	2501	2.4	3.4	-3.1	-5.6	-4.6	-3.9
Copper and brass mill shapes ²	10	2502	-7.1	2.2	-4.1	-1.3	-9.7	2.0
Nonferrous wire and cable ²	10	26	6.1	1.3	-0.3	-1.3	-3.0	0.1
Nonferrous foundry shop products.....	10	28	12.3	3.7	0.8	0.2	0.6	-0.1
Metal containers ²	10	3	27.1	5.0	0.8	1.3	-1.4	0.2
Hardware ²	10	4	13.4	0.1	0.3	0.2	1.2	0.9
Plumbing fixtures and brass fittings.....	10	5	10.9	2.1	0.3	0.3	0.5	0.4
Heating equipment ²	10	6	13.0	0.1	1.0	0.3	0.5	0.4
Fabricated structural metal products.....	10	7	17.7	1.6	1.0	0.6	-0.5	0.0
Bolts, nuts, screws, rivets, and washers ²	10	81	16.2	2.6	4.1	0.5	1.5	-0.4
Lighting fixtures ²	10	83	8.3	1.0	0.1	0.6	0.3	0.3
Fabricated ferrous wire products ²	10	88	21.8	2.1	0.8	0.7	0.4	0.3
Other miscellaneous metal products ²	10	89	10.4	0.4	1.1	0.6	0.3	-0.1
Fluid power equipment.....	11	43	13.8	1.6	0.3	1.6	1.0	0.5
Mechanical power transmission equipment ²	11	45	13.3	1.0	1.7	0.5	0.8	2.1
Air conditioning and refrigeration equipment ²	11	48	24.9	2.7	1.3	1.9	0.8	0.4
Metal valves, except fluid power.....	11	4902	14.5	1.4	3.1	0.1	0.3	2.2
Ball and roller bearings ²	11	4905	10.0	0.0	0.7	2.6	1.8	0.0
Wiring devices ²	11	71	18.5	1.9	0.6	3.0	-0.6	0.9
Motors, generators, motor generator sets ²	11	73	18.6	1.0	0.5	0.6	1.9	0.3
Switchgear, switchboard, and industrial controls equip. ²	11	75	22.2	0.4	0.6	3.0	0.9	2.1
Electronic components and accessories.....	11	78	3.6	-0.3	0.4	0.7	-0.2	-0.3
Internal combustion engines ²	11	94	7.6	1.7	1.0	0.0	0.9	0.3
Machine shop products ²	11	95	6.1	0.6	1.5	0.8	0.0	0.6
Flat glass ²	13	11	11.3	1.2	0.1	0.3	1.3	2.4
Cement.....	13	22	9.8	0.0	0.1	0.4	2.7	0.6
Concrete products.....	13	3	14.3	1.6	1.2	1.6	2.0	1.5
Asphalt felts and coatings ²	13	6	14.6	1.1	1.4	1.5	-0.2	0.5
Paving mixtures and blocks.....	13	94	22.7	2.7	3.9	2.5	2.9	0.7
Motor vehicle parts ²	14	12	5.1	0.6	0.2	0.4	0.3	0.8
Aircraft engines and engine parts.....	14	23	4.3	0.4	0.2	0.6	0.4	0.9

See footnotes at end of table.

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

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Mar. to Apr.	Apr. to May ^p	May to June ^p	June to July ^p	July to Aug. ^p
Aircraft parts and auxiliary equipment, n.e.c.....	14	25	2.2	-0.1	0.2	0.3	0.1	0.1
Medical, surgical, and personal aid devices.....	15	6	3.2	0.3	0.3	0.2	0.2	0.1
Unprocessed goods for intermediate demand.....	ID6	2	36.1	5.5	5.4	4.8	-10.7	5.7
Unprocessed foodstuffs and feedstuffs.....	ID6	21	23.1	4.2	0.2	-0.4	-0.8	-1.9
Wheat ²	01	21	4.0	4.3	1.1	-4.1	-22.7	-2.8
Corn.....	01	2202	9.1	3.5	0.5	3.8	-8.5	4.5
Slaughter cattle.....	01	31	17.6	1.2	1.6	5.0	-1.5	4.0
Slaughter hogs.....	01	32	21.8	2.9	-9.4	-4.0	23.2	6.2
Slaughter chickens.....	01	4102	30.2	5.4	-0.5	2.0	-1.9	-9.0
Slaughter turkeys.....	01	42	27.6	4.9	1.5	5.3	6.7	1.7
Raw milk.....	01	6	42.0	4.2	2.2	-1.2	0.3	-8.8
Hay and hayseeds ²	01	81	32.5	-11.5	10.1	-1.0	12.5	-3.6
Oilseeds.....	01	8301	9.5	1.3	-0.6	4.8	-13.6	5.1
Raw cane sugar and byproducts ²	02	5201	18.8	1.3	0.9	-0.6	1.2	3.3
Unprocessed nonfood materials.....	ID6	22	42.9	6.2	7.8	7.1	-14.7	9.3
Raw cotton ²	01	51	24.4	12.9	3.7	-0.1	-23.8	4.7
Hides and skins.....	04	1	-36.6	4.3	-5.9	1.9	-1.0	-3.1
Coal.....	05	1	56.1	15.1	0.9	6.3	3.3	-2.2
Natural gas ²	05	31	118.0	20.0	32.1	10.6	-22.4	35.3
Crude petroleum ²	05	61	38.8	0.6	2.1	12.8	-16.6	-5.3
Logs, bolts, timber, pulpwood, and woodchips ²	08	5	4.1	0.1	1.1	0.8	0.3	-0.6
Recyclable paper ²	09	12	-11.9	3.3	-5.6	0.4	3.1	-8.4
Iron ores.....	10	11	14.8	-3.7	-3.0	6.6	4.1	0.9
Iron and steel scrap ²	10	12	-22.6	0.1	-11.9	-11.6	-11.3	-5.1
Nonferrous metal ores ²	10	21	0.8	-0.4	-3.7	-1.6	-9.7	3.7
Copper base scrap ²	10	2301	-13.3	1.5	-7.4	-2.7	-15.2	3.4
Aluminum base scrap.....	10	2302	-12.0	-0.1	-8.4	-0.7	-24.7	9.4
Construction sand, gravel, and crushed stone.....	13	21	11.8	0.6	0.7	2.4	0.8	0.9
Services for intermediate demand.....	ID6	3	6.3	0.9	0.5	-0.4	0.2	1.0
Trade services for intermediate demand ³	ID6	33	8.5	1.0	0.6	-1.1	-0.1	0.6
Machinery and equipment parts and supplies wholesaling ²	57	1102	12.0	-1.0	0.2	1.0	0.7	0.8
Building materials, paint, and hardware wholesaling.....	57	3	10.5	0.2	-1.3	0.7	-1.1	-1.6
Metals, minerals, and ores wholesaling ²	57	4	-13.3	9.2	4.0	-10.6	-3.0	-2.6
Chemicals and allied products wholesaling ²	57	5	1.4	1.3	5.1	-3.7	1.7	2.3
Paper and plastics products wholesaling ²	57	6	24.3	4.2	2.5	0.7	-1.4	-0.5
Food wholesaling ²	57	8101	14.2	0.9	-1.2	0.7	2.3	0.2
Automotive parts, including tires, retailing ²	58	6102	20.3	1.2	1.5	3.1	3.0	0.9
Hardware, building material, and supplies retailing.....	58	D	1.6	-3.0	-5.3	-5.6	-7.1	-0.6
Transportation and warehousing services for intermediate demand.....	ID6	32	12.6	1.7	0.6	0.1	1.0	-0.1
Rail transportation of freight and mail ²	30	11	10.7	2.6	2.0	0.5	1.2	-0.4
Truck transportation of freight ²	30	12	18.3	1.9	2.1	-0.3	-0.6	-1.9
Water transportation of freight ²	30	13	34.0	6.7	9.5	0.9	1.4	3.6
Air transportation of freight ²	30	14	14.7	1.8	-0.2	2.7	-0.6	0.4
U.S. Postal Service.....	30	1601	10.7	0.2	0.3	0.1	5.0	0.2
Courier and messenger services, except air mail.....	30	1602	10.5	1.2	1.0	0.6	0.3	0.0
Air mail and package delivery services, excluding by USPS.....	30	1603	16.3	4.2	3.7	-2.2	0.2	-2.0
Pipeline transportation ²	30	17	—	—	—	0.0	2.9	0.0
Transportation of passengers (partial).....	30	2	20.0	2.2	3.8	3.9	-2.8	3.3
Services related to water transportation.....	31	1	4.5	1.1	0.7	0.0	-0.3	0.1
Arrangement of freight and cargo ²	31	31	16.0	-2.3	-5.5	-5.1	2.2	4.5
Warehousing, storage, and related services ²	32	1	8.7	5.7	-6.0	4.1	4.4	-5.3
Services less trade, transportation, and warehousing for intermediate demand.....	ID6	31	4.3	0.6	0.4	-0.3	0.2	1.3
Network compensation from broadcast TV, cable TV, radio ²	35	—	3.7	0.0	0.0	1.1	0.0	0.0
Advertising space sales in periodicals and newspapers ²	36	11	0.6	-1.2	0.6	0.4	-0.9	0.3
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	1.5	3.0	3.0	-7.3	0.3	-5.5
Radio advertising time sales.....	36	3	-4.0	-1.9	8.7	-3.1	-7.3	-2.5
Internet advertising space sales, excluding Internet ads sold by print publishers ²	36	5	18.2	1.0	1.5	3.3	1.7	1.1
Business wired telecommunication services ²	37	12	1.5	0.0	0.0	0.7	0.3	0.4
Wireless telecommunication services.....	37	2	0.4	-0.1	0.6	0.2	0.0	-0.8
Cable and satellite subscriber services.....	37	3	6.0	0.1	0.5	0.7	1.0	0.1
Bundled wired telecommunication access services ²	37	5	2.7	0.0	0.0	-0.5	2.8	0.5
Data processing and related services ²	38	1	-1.9	0.1	0.1	-0.4	-0.3	-0.4
Business loans (partial).....	39	11	43.2	4.3	3.8	4.8	8.5	9.2

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
[August 2022]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Mar. to Apr.	Apr. to May ^p	May to June ^p	June to July ^p	July to Aug. ^p
Deposit services (partial) ²	39	2	-8.3	-1.1	-0.2	1.8	0.2	-1.3
Other credit intermediation, incl. trust services (partial) ²	39	3	-5.5	0.1	-1.0	0.3	0.2	-4.9
Securities brokerage, dealing, investment advice, and related services ²	40	1	5.8	-0.4	5.3	-4.5	0.1	9.6
Portfolio management ²	40	2	-13.1	-2.1	-2.0	-2.6	-7.4	1.6
Investment banking ²	40	3	-7.2	0.3	-0.5	-7.3	0.0	-0.2
Life insurance ²	41	1101	3.0	-0.1	0.0	0.0	0.4	0.0
Health and medical insurance.....	41	1103	2.0	0.1	0.1	0.2	0.0	0.1
Property and casualty insurance ²	41	1104	2.1	0.1	0.2	0.6	0.8	0.1
Annuities ²	41	2	-1.6	0.0	-0.1	-0.6	-0.3	0.0
Commissions from sales of insurance ²	42	1	0.2	0.0	0.0	0.0	0.0	0.0
Nonresidential real estate rents ²	43	11	5.5	3.7	-1.4	-1.4	0.6	5.5
Nonresidential property sales and leases ²	43	12	6.2	0.2	0.5	0.4	0.7	0.2
Residential property management fees ²	43	22	2.9	0.5	-0.9	0.0	0.3	0.3
Passenger car rental.....	44	1	1.2	9.3	-5.3	-3.8	-2.5	3.7
Truck, utility trailer, and RV rental and leasing ²	44	2	3.5	1.7	-1.7	2.3	-0.1	0.1
Construction, mining, and forestry machinery and equipment rental and leasing ²	44	3	8.3	0.1	1.7	1.5	-0.3	3.7
Legal services.....	45	1	4.2	-0.2	-0.2	0.0	0.4	0.4
Accounting services (partial).....	45	2	3.8	0.6	-0.2	0.9	-0.1	0.7
Architectural and engineering services.....	45	3	5.6	0.3	0.2	0.8	0.1	0.5
Management, scientific, and technical consulting services.....	45	4	0.1	-0.2	-0.4	-0.4	-0.1	0.0
Advertising and related services (partial) ²	45	5	8.7	0.5	0.0	0.1	0.3	0.0
Permanent placement services ²	46	1	4.8	2.2	-0.4	0.6	1.2	-0.2
Executive search services ²	46	2	-2.2	-0.5	3.5	-0.1	-1.4	-0.8
Staffing services.....	46	3	5.2	0.3	0.7	0.2	-0.3	0.0
Security guard services ²	48	1	7.0	0.8	-0.2	2.8	0.1	-0.1
Janitorial services ²	49	1	7.4	1.1	0.5	0.0	-0.1	-0.1
Waste collection.....	50	1	9.4	1.0	0.7	0.8	2.6	0.6
Traveler accommodation services.....	53	11	10.9	-3.7	-3.2	6.2	0.5	-4.5
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	11.1	0.9	0.0	0.8	0.4	1.8
Aircraft repair and maintenance.....	55	4	3.3	0.1	0.2	0.2	0.4	0.2
Metal treatment services ²	59	1	11.9	1.2	0.4	-0.2	1.5	0.6
Construction for intermediate demand.....	ID6	4	10.7	0.8	0.8	0.9	1.1	0.1
Maintenance and repair of non-residential buildings (partial) ²	80	2	10.7	0.8	0.8	0.9	1.1	0.1
Intermediate Demand by Production Flow								
Stage 4 intermediate demand.....	ID5	4	8.7	1.0	0.9	0.3	-0.4	0.5
Stage 4 intermediate demand goods.....	ID5	9411	12.3	1.2	1.4	1.0	-0.9	-0.2
Grains.....	01	2	8.6	3.6	0.7	1.9	-11.8	2.9
Meats.....	02	21	-6.4	-0.5	-5.9	-0.9	4.3	0.9
Unprocessed and packaged fish.....	02	23	-0.9	0.2	-1.9	-0.4	1.3	-1.4
Dairy products.....	02	3	20.3	3.1	0.9	0.5	-0.4	-1.7
Commercial electric power.....	05	42	14.7	-0.1	-1.4	4.8	1.8	1.4
Industrial electric power.....	05	43	12.2	0.6	1.1	-0.2	2.6	1.0
Gasoline.....	05	71	25.5	-3.1	8.7	17.3	-17.4	-12.7
No. 2 diesel fuel.....	05	7303	53.8	8.4	2.4	13.0	-14.4	-11.4
Basic organic chemicals.....	06	14	7.6	0.1	4.6	0.7	2.4	-6.4
Prepared paint ²	06	21	24.7	5.3	0.6	1.4	2.2	0.4
Medicinal and botanical chemicals ²	06	31	1.7	0.1	-1.1	0.5	0.1	0.1
Biological products, including diagnostics.....	06	37	4.9	0.9	0.2	0.3	0.4	0.3
Pharmaceutical preparations.....	06	38	2.4	0.2	0.1	0.1	0.7	0.3
Plastic construction products ²	07	21	20.0	1.8	1.4	1.0	1.1	0.6
Unsupported plastic film, sheet, and other shapes ²	07	22	13.8	1.0	0.9	2.0	0.4	0.2
Parts for manufacturing from plastics ²	07	26	11.1	0.4	0.6	1.6	0.4	0.4
Plastic packaging products ²	07	2A	14.0	1.7	1.0	1.3	1.3	1.0
Lumber.....	08	1	10.1	-12.0	1.1	-17.0	0.9	-4.4
Millwork.....	08	2	15.2	1.8	0.7	-0.7	-0.2	1.9
Paper boxes and containers ²	09	1503	20.4	2.5	2.5	0.4	0.5	2.5
Commercial printing ²	09	47	19.2	1.3	3.0	1.0	0.0	1.3
Steel mill products ²	10	17	-4.6	2.7	10.5	-1.7	-3.9	-5.7
Nonferrous wire and cable ²	10	26	6.1	1.3	-0.3	-1.3	-3.0	0.1
Fabricated structural metal products.....	10	7	17.7	1.6	1.0	0.6	-0.5	0.0
Other miscellaneous metal products ²	10	89	10.4	0.4	1.1	0.6	0.3	-0.1
Air conditioning and refrigeration equipment ²	11	48	24.9	2.7	1.3	1.9	0.8	0.4
Wiring devices ²	11	71	18.5	1.9	0.6	3.0	-0.6	0.9

See footnotes at end of table.

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

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Mar. to Apr.	Apr. to May ^p	May to June ^p	June to July ^p	July to Aug. ^p
Electronic components and accessories.....	11	78	3.6	-0.3	0.4	0.7	-0.2	-0.3
Miscellaneous electrical machinery and equipment ²	11	79	7.8	0.2	1.0	0.3	1.5	0.7
Internal combustion engines ²	11	94	7.6	1.7	1.0	0.0	0.9	0.3
Machine shop products ²	11	95	6.1	0.6	1.5	0.8	0.0	0.6
Concrete ingredients and related products.....	13	2	11.3	0.5	0.6	1.9	1.3	0.8
Concrete products.....	13	3	14.3	1.6	1.2	1.6	2.0	1.5
Prepared asphalt, tar roofing and siding products ²	13	61	15.2	0.9	2.2	1.5	-0.4	0.2
Paving mixtures and blocks.....	13	94	22.7	2.7	3.9	2.5	2.9	0.7
Motor vehicle parts ²	14	12	5.1	0.6	0.2	0.4	0.3	0.8
Aircraft engines and engine parts.....	14	23	4.3	0.4	0.2	0.6	0.4	0.9
Aircraft parts and auxiliary equipment, n.e.c.....	14	25	2.2	-0.1	0.2	0.3	0.1	0.1
Medical, surgical and personal aid devices.....	15	6	3.2	0.3	0.3	0.2	0.2	0.1
Stage 4 intermediate demand services.....	ID5	9412	5.5	0.7	0.4	-0.5	0.0	1.2
Truck transportation of freight ²	30	12	18.3	1.9	2.1	-0.3	-0.6	-1.9
Courier, messenger, and U.S. postal services.....	30	16	11.5	1.3	1.2	-0.1	2.2	-0.3
Airline passenger services.....	30	22	20.3	2.2	3.9	3.9	-2.9	3.3
Warehousing, storage, and related services ²	32	1	8.7	5.7	-6.0	4.1	4.4	-5.3
Advertising space sales in periodicals and newspapers ²	36	11	0.6	-1.2	0.6	0.4	-0.9	0.3
Data processing and related services ²	38	1	-1.9	0.1	0.1	-0.4	-0.3	-0.4
Business loans (partial).....	39	11	43.2	4.3	3.8	4.8	8.5	9.2
Deposit services (partial) ²	39	2	-8.3	-1.1	-0.2	1.8	0.2	-1.3
Securities brokerage, dealing, investment advice, and related services ²	40	1	5.8	-0.4	5.3	-4.5	0.1	9.6
Portfolio management ²	40	2	-13.1	-2.1	-2.0	-2.6	-7.4	1.6
Investment banking ²	40	3	-7.2	0.3	-0.5	-7.3	0.0	-0.2
Insurance.....	41	11	2.2	0.2	0.0	0.3	0.3	0.1
Annuities ²	41	2	-1.6	0.0	-0.1	-0.6	-0.3	0.0
Nonresidential real estate rents ²	43	11	5.5	3.7	-1.4	-1.4	0.6	5.5
Nonresidential property sales and leases ²	43	12	6.2	0.2	0.5	0.4	0.7	0.2
Nonresidential property management fees ²	43	13	4.2	-0.5	0.5	0.8	1.2	-2.3
Residential property management fees ²	43	22	2.9	0.5	-0.9	0.0	0.3	0.3
Construction, mining, and forestry machinery and equipment rental and leasing ²	44	3	8.3	0.1	1.7	1.5	-0.3	3.7
Legal services.....	45	1	4.2	-0.2	-0.2	0.0	0.4	0.4
Advertising agency services ²	45	51	8.7	0.5	0.0	0.1	0.3	0.0
Accounting services (partial).....	45	2	3.8	0.6	-0.2	0.9	-0.1	0.7
Architectural and engineering services.....	45	3	5.6	0.3	0.2	0.8	0.1	0.5
Management, scientific, and technical consulting services.....	45	4	0.1	-0.2	-0.4	-0.4	-0.1	0.0
Staffing services.....	46	3	5.2	0.3	0.7	0.2	-0.3	0.0
Janitorial services ²	49	1	7.4	1.1	0.5	0.0	-0.1	-0.1
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	11.1	0.9	0.0	0.8	0.4	1.8
Machinery and equipment parts and supplies wholesaling ²	57	1102	12.0	-1.0	0.2	1.0	0.7	0.8
Building materials, paint, and hardware wholesaling.....	57	3	10.5	0.2	-1.3	0.7	-1.1	-1.6
Metals, minerals, and ores wholesaling ²	57	4	-13.3	9.2	4.0	-10.6	-3.0	-2.6
Chemicals and allied products wholesaling ²	57	5	1.4	1.3	5.1	-3.7	1.7	2.3
Paper and plastics products wholesaling ²	57	6	24.3	4.2	2.5	0.7	-1.4	-0.5
Food and alcohol wholesaling ²	57	8	14.1	1.0	-0.5	0.8	2.1	0.3
Hardware and building materials and supplies retailing.....	58	D	1.6	-3.0	-5.3	-5.6	-7.1	-0.6
Metal treatment services ²	59	1	11.9	1.2	0.4	-0.2	1.5	0.6
Stage 3 intermediate demand.....	ID5	3	12.1	2.5	1.6	0.5	-1.2	-1.8
Stage 3 intermediate demand goods.....	ID5	9311	17.2	3.7	2.6	1.4	-2.5	-3.6
Slaughter cattle.....	01	31	17.6	1.2	1.6	5.0	-1.5	4.0
Slaughter hogs.....	01	32	21.8	2.9	-9.4	-4.0	23.2	6.2
Slaughter poultry.....	01	4	29.2	5.2	-0.2	2.5	-0.7	-7.2
Raw milk.....	01	6	42.0	4.2	2.2	-1.2	0.3	-8.8
Commercial electric power.....	05	42	14.7	-0.1	-1.4	4.8	1.8	1.4
Industrial electric power.....	05	43	12.2	0.6	1.1	-0.2	2.6	1.0
Gasoline.....	05	71	25.5	-3.1	8.7	17.3	-17.4	-12.7
Jet fuel ²	05	7203	74.1	13.3	10.0	-0.8	-6.3	-12.8
No. 2 diesel fuel.....	05	7303	53.8	8.4	2.4	13.0	-14.4	-11.4
Finished lubricants ²	05	76	21.2	4.6	-0.1	5.1	3.1	0.8
Lubricating oil base stocks ²	05	78	51.1	13.2	9.1	11.2	2.9	-0.5
Asphalt.....	05	8102	60.6	18.9	13.1	1.7	-5.0	-6.3
Basic inorganic chemicals ²	06	13	27.1	2.6	3.7	1.3	4.0	0.4
Basic organic chemicals.....	06	14	7.6	0.1	4.6	0.7	2.4	-6.4
Paints and allied products ²	06	2	22.6	4.7	1.3	1.5	1.6	1.0

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
[August 2022]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Mar. to Apr.	Apr. to May ^P	May to June ^P	June to July ^P	July to Aug. ^P
Agricultural chemicals and chemical products.....	06	5	30.2	10.0	-1.1	-2.6	-3.2	-0.5
Plastic resins and materials.....	06	6	-5.2	5.3	1.2	1.1	-2.4	-4.3
Synthetic rubber ²	07	1102	9.8	3.3	0.6	2.0	4.0	0.1
Unsupported plastic film, sheet, and other shapes ²	07	22	13.8	1.0	0.9	2.0	0.4	0.2
Paper ²	09	13	11.2	1.3	0.9	0.6	1.2	1.0
Paperboard ²	09	14	17.3	1.9	1.1	2.9	1.0	-0.1
Converted paper and paperboard products ²	09	15	16.2	1.7	2.2	1.0	0.9	1.2
Commercial printing ²	09	47	19.2	1.3	3.0	1.0	0.0	1.3
Foundry and forge shop products ²	10	15	16.4	2.2	2.1	0.2	0.6	-1.7
Steel mill products ²	10	17	-4.6	2.7	10.5	-1.7	-3.9	-5.7
Nonferrous mill shapes ²	10	25	1.5	3.1	-2.9	-3.6	-4.7	-1.9
Nonferrous foundry shop products.....	10	28	12.3	3.7	0.8	0.2	0.6	-0.1
Metal containers ²	10	3	27.1	5.0	0.8	1.3	-1.4	0.2
Structural, architectural, and pre-engineered metal products.....	10	74	19.9	1.8	1.0	0.7	-0.8	-0.5
Bolts, nuts, screws, rivets, and washers ²	10	81	16.2	2.6	4.1	0.5	1.5	-0.4
Other miscellaneous metal products ²	10	89	10.4	0.4	1.1	0.6	0.3	-0.1
General purpose machinery and equipment.....	11	4	15.7	1.8	1.4	1.0	0.9	0.7
Electrical machinery and equipment.....	11	7	8.8	0.3	0.7	0.9	0.8	0.4
Construction sand, gravel, and crushed stone.....	13	21	11.8	0.6	0.7	2.4	0.8	0.9
Cement.....	13	22	9.8	0.0	0.1	0.4	2.7	0.6
Motor vehicle parts ²	14	12	5.1	0.6	0.2	0.4	0.3	0.8
Aircraft and aircraft equipment.....	14	2	4.1	0.3	0.3	0.5	0.2	0.3
Stage 3 intermediate demand services.....	ID5	9312	6.9	1.3	0.5	-0.5	0.4	0.3
Rail transportation of freight and mail ²	30	11	10.7	2.6	2.0	0.5	1.2	-0.4
Courier, messenger, and U.S. postal services.....	30	16	11.5	1.3	1.2	-0.1	2.2	-0.3
Arrangement of freight and cargo ²	31	31	16.0	-2.3	-5.5	-5.1	2.2	4.5
Freight forwarding ²	31	3201	6.5	5.1	0.0	-1.5	0.1	-0.1
Warehousing, storage, and related services ²	32	1	8.7	5.7	-6.0	4.1	4.4	-5.3
Advertising space sales in periodicals, newspapers, directories, and mailing lists ²	36	1	0.5	-1.0	0.5	0.3	-0.7	0.2
Wired telephone services ²	37	1	1.5	0.0	0.0	0.4	0.2	0.4
Bundled wired telecommunications access services ²	37	5	2.7	0.0	0.0	-0.5	2.8	0.5
Data processing and related services ²	38	1	-1.9	0.1	0.1	-0.4	-0.3	-0.4
Business loans (partial).....	39	11	43.2	4.3	3.8	4.8	8.5	9.2
Deposit services (partial) ²	39	2	-8.3	-1.1	-0.2	1.8	0.2	-1.3
Securities brokerage, dealing, investment advice, and related services ²	40	1	5.8	-0.4	5.3	-4.5	0.1	9.6
Insurance.....	41	11	2.2	0.2	0.0	0.3	0.3	0.1
Nonresidential real estate rents ²	43	11	5.5	3.7	-1.4	-1.4	0.6	5.5
Legal services.....	45	1	4.2	-0.2	-0.2	0.0	0.4	0.4
Accounting services (partial).....	45	2	3.8	0.6	-0.2	0.9	-0.1	0.7
Architectural and engineering services.....	45	3	5.6	0.3	0.2	0.8	0.1	0.5
Management, scientific, and technical consulting services.....	45	4	0.1	-0.2	-0.4	-0.4	-0.1	0.0
Advertising agency services ²	45	51	8.7	0.5	0.0	0.1	0.3	0.0
Staffing services.....	46	3	5.2	0.3	0.7	0.2	-0.3	0.0
Aircraft repair maintenance.....	55	4	3.3	0.1	0.2	0.2	0.4	0.2
Machinery and equipment parts and supplies wholesaling ²	57	1102	12.0	-1.0	0.2	1.0	0.7	0.8
Building materials, paint, and hardware wholesaling.....	57	3	10.5	0.2	-1.3	0.7	-1.1	-1.6
Metals, minerals, and ores wholesaling ²	57	4	-13.3	9.2	4.0	-10.6	-3.0	-2.6
Chemicals and allied products wholesaling ²	57	5	1.4	1.3	5.1	-3.7	1.7	2.3
Paper and plastics products wholesaling ²	57	6	24.3	4.2	2.5	0.7	-1.4	-0.5
Food wholesaling ²	57	8101	14.2	0.9	-1.2	0.7	2.3	0.2
Metal treatment services ²	59	1	11.9	1.2	0.4	-0.2	1.5	0.6
Stage 2 intermediate demand.....	ID5	2	20.4	2.8	3.6	3.0	-5.2	3.7
Stage 2 intermediate demand goods.....	ID5	9211	34.4	4.7	6.8	5.4	-10.2	6.0
Corn.....	01	2202	9.1	3.5	0.5	3.8	-8.5	4.5
Oilseeds.....	01	83	9.5	1.3	-0.6	4.8	-13.6	5.1
Prepared animal feeds ²	02	9	15.2	1.8	1.6	1.2	0.0	1.2
Coal.....	05	1	56.1	15.1	0.9	6.3	3.3	-2.2
Natural gas ²	05	31	118.0	20.0	32.1	10.6	-22.4	35.3
Liquefied petroleum gas ²	05	32	27.1	-3.4	4.1	0.9	-11.8	-2.5
Crude petroleum ²	05	61	38.8	0.6	2.1	12.8	-16.6	-5.3
No. 2 diesel fuel.....	05	7303	53.8	8.4	2.4	13.0	-14.4	-11.4
Industrial chemicals.....	06	1	10.0	0.4	4.5	0.8	2.6	-5.5
Plastic resins and materials.....	06	6	-5.2	5.3	1.2	1.1	-2.4	-4.3
Plastic products ²	07	2	16.6	1.2	1.3	1.5	0.8	0.6
Logs, bolts, timber, pulpwood, and wood chips ²	08	5	4.1	0.1	1.1	0.8	0.3	-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
[August 2022]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Mar. to Apr.	Apr. to May ^p	May to June ^p	June to July ^p	July to Aug. ^p
Paper ²	09	13	11.2	1.3	0.9	0.6	1.2	1.0
Paperboard, excluding corrugated paperboard ²	09	1411	17.2	2.3	0.8	2.6	0.7	-0.1
Commercial printing ²	09	47	19.2	1.3	3.0	1.0	0.0	1.3
Iron and steel scrap ²	10	12	-22.6	0.1	-11.9	-11.6	-11.3	-5.1
Steel mill products ²	10	17	-4.6	2.7	10.5	-1.7	-3.9	-5.7
Nonferrous mill shapes ²	10	25	1.5	3.1	-2.9	-3.6	-4.7	-1.9
Electrical machinery and equipment.....	11	7	8.8	0.3	0.7	0.9	0.8	0.4
Electronic components and accessories.....	11	78	3.6	-0.3	0.4	0.7	-0.2	-0.3
Stage 2 intermediate demand services.....	ID5	9212	7.9	0.7	0.2	0.1	0.9	1.3
Rail transportation of freight and mail ²	30	11	10.7	2.6	2.0	0.5	1.2	-0.4
Truck transportation of freight ²	30	12	18.3	1.9	2.1	-0.3	-0.6	-1.9
U.S. Postal Service.....	30	1601	10.7	0.2	0.3	0.1	5.0	0.2
Courier and messenger services, except air.....	30	1602	10.5	1.2	1.0	0.6	0.3	0.0
Air mail and package delivery services, excluding by USPS.....	30	1603	16.3	4.2	3.7	-2.2	0.2	-2.0
Pipeline transportation ²	30	17	-	-	-	0.0	2.9	0.0
Airline passenger services.....	30	22	20.3	2.2	3.9	3.9	-2.9	3.3
Arrangement of freight and cargo ²	31	31	16.0	-2.3	-5.5	-5.1	2.2	4.5
Television advertising time sales.....	36	21	1.5	3.0	3.0	-7.3	0.3	-5.5
Wireless telecommunication services.....	37	2	0.4	-0.1	0.6	0.2	0.0	-0.8
Data processing and related services ²	38	1	-1.9	0.1	0.1	-0.4	-0.3	-0.4
Securities brokerage, dealing, investment advice, and related services ²	40	1	5.8	-0.4	5.3	-4.5	0.1	9.6
Portfolio management ²	40	2	-13.1	-2.1	-2.0	-2.6	-7.4	1.6
Investment banking ²	40	31	-7.2	0.3	-0.5	-7.3	0.0	-0.2
Insurance.....	41	11	2.2	0.2	0.0	0.3	0.3	0.1
Commissions from sales of insurance ²	42	11	0.2	0.0	0.0	0.0	0.0	0.0
Legal services.....	45	1	4.2	-0.2	-0.2	0.0	0.4	0.4
Accounting services (partial).....	45	2	3.8	0.6	-0.2	0.9	-0.1	0.7
Management, scientific, and technical consulting services.....	45	4	0.1	-0.2	-0.4	-0.4	-0.1	0.0
Advertising agency services ²	45	51	8.7	0.5	0.0	0.1	0.3	0.0
Staffing services.....	46	3	5.2	0.3	0.7	0.2	-0.3	0.0
Security guard services ²	48	1	7.0	0.8	-0.2	2.8	0.1	-0.1
Janitorial services ²	49	1	7.4	1.1	0.5	0.0	-0.1	-0.1
Traveler accommodation services.....	53	1	10.9	-3.7	-3.2	6.2	0.5	-4.5
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	11.1	0.9	0.0	0.8	0.4	1.8
Hardware and building materials and supplies retailing.....	58	D	1.6	-3.0	-5.3	-5.6	-7.1	-0.6
Stage 1 intermediate demand.....	ID5	1	10.4	1.7	1.5	0.9	-1.7	-0.4
Stage 1 intermediate demand goods.....	ID5	9111	15.0	2.4	2.3	2.3	-2.9	-1.7
Prepared animal feeds ²	02	9	15.2	1.8	1.6	1.2	0.0	1.2
Commercial electric power.....	05	42	14.7	-0.1	-1.4	4.8	1.8	1.4
Industrial electric power.....	05	43	12.2	0.6	1.1	-0.2	2.6	1.0
Commercial natural gas.....	05	52	38.6	5.4	9.1	8.2	-2.3	4.0
Industrial natural gas.....	05	53	47.9	6.4	15.7	11.1	-9.0	10.9
Gasoline.....	05	71	25.5	-3.1	8.7	17.3	-17.4	-12.7
No. 2 diesel fuel.....	05	7303	53.8	8.4	2.4	13.0	-14.4	-11.4
Industrial chemicals.....	06	1	10.0	0.4	4.5	0.8	2.6	-5.5
Prepared paint ²	06	21	24.7	5.3	0.6	1.4	2.2	0.4
Plastic construction products ²	07	21	20.0	1.8	1.4	1.0	1.1	0.6
Recyclable paper ²	09	12	-11.9	3.3	-5.6	0.4	3.1	-8.4
Paper ²	09	13	11.2	1.3	0.9	0.6	1.2	1.0
Converted paper and paperboard products ²	09	15	16.2	1.7	2.2	1.0	0.9	1.2
Iron and steel scrap ²	10	12	-22.6	0.1	-11.9	-11.6	-11.3	-5.1
Steel mill products ²	10	17	-4.6	2.7	10.5	-1.7	-3.9	-5.7
Primary nonferrous metals ²	10	22	-6.1	0.8	-10.6	-2.0	-9.6	1.6
Nonferrous scrap.....	10	23	-12.0	-0.7	-9.0	-5.3	-9.6	5.4
Nonferrous wire and cable ²	10	26	6.1	1.3	-0.3	-1.3	-3.0	0.1
Fabricated structural metal products.....	10	7	17.7	1.6	1.0	0.6	-0.5	0.0
General purpose machinery and equipment.....	11	4	15.7	1.8	1.4	1.0	0.9	0.7
Construction sand, gravel, and crushed stone.....	13	21	11.8	0.6	0.7	2.4	0.8	0.9
Stage 1 intermediate demand services.....	ID5	9112	5.7	0.9	0.6	-0.8	-0.3	1.1
Truck transportation of freight ²	30	12	18.3	1.9	2.1	-0.3	-0.6	-1.9
Airline passenger services.....	30	22	20.3	2.2	3.9	3.9	-2.9	3.3
Advertising space sales in periodicals, newspapers, directories, and mailing lists ²	36	1	0.5	-1.0	0.5	0.3	-0.7	0.2
Business wired telecommunication services ²	37	12	1.5	0.0	0.0	0.7	0.3	0.4
Wireless telecommunication services.....	37	2	0.4	-0.1	0.6	0.2	0.0	-0.8

See footnotes at end of table.

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

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Mar. to Apr.	Apr. to May ^p	May to June ^p	June to July ^p	July to Aug. ^p
Bundled wired telecommunications access services ²	37	5	2.7	0.0	0.0	-0.5	2.8	0.5
Business loans (partial).....	39	11	43.2	4.3	3.8	4.8	8.5	9.2
Deposit services (partial) ²	39	2	-8.3	-1.1	-0.2	1.8	0.2	-1.3
Securities brokerage, dealing, investment advice, and related services ²	40	1	5.8	-0.4	5.3	-4.5	0.1	9.6
Portfolio management ²	40	2	-13.1	-2.1	-2.0	-2.6	-7.4	1.6
Investment banking ²	40	3	-7.2	0.3	-0.5	-7.3	0.0	-0.2
Insurance.....	41	11	2.2	0.2	0.0	0.3	0.3	0.1
Nonresidential real estate rents ²	43	11	5.5	3.7	-1.4	-1.4	0.6	5.5
Architectural and engineering services.....	45	3	5.6	0.3	0.2	0.8	0.1	0.5
Management consulting services.....	45	41	0.1	-0.2	-0.4	-0.4	-0.1	0.0
Waste collection.....	50	1	9.4	1.0	0.7	0.8	2.6	0.6
Traveler accommodation services.....	53	11	10.9	-3.7	-3.2	6.2	0.5	-4.5
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	11.1	0.9	0.0	0.8	0.4	1.8
Machinery and equipment parts and supplies wholesaling ²	57	1102	12.0	-1.0	0.2	1.0	0.7	0.8
Building materials, paint, and hardware wholesaling.....	57	3	10.5	0.2	-1.3	0.7	-1.1	-1.6
Metals, minerals, and ores wholesaling ²	57	4	-13.3	9.2	4.0	-10.6	-3.0	-2.6
Chemicals and allied products wholesaling ²	57	5	1.4	1.3	5.1	-3.7	1.7	2.3
Paper and plastics products wholesaling ²	57	6	24.3	4.2	2.5	0.7	-1.4	-0.5
Hardware and building materials and supplies retailing.....	58	D	1.6	-3.0	-5.3	-5.6	-7.1	-0.6
Mining services ²	60	1	11.1	0.0	2.2	0.9	-1.2	1.1

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

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

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

p Preliminary

"-" Data not available.

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

Table 3. Producer price indexes for Final Demand-Intermediate Demand groupings, seasonally adjusted
[August 2022, Index base Nov. 2009=100, unless otherwise indicated]

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	Apr. 2022	May 2022 ^p	June 2022 ^p	July 2022 ^p	Aug. 2022 ^p
Final Demand								
Final demand.....		FD	4	137.954	139.082	140.448	139.921	139.738
Final demand goods.....		FD	41	142.305	144.460	147.603	145.026	143.333
Final demand foods.....		FD	411	147.864	148.513	148.340	150.281	150.294
Finished consumer foods ²	00/82	FD	4111	256.189	257.774	256.862	262.799	262.098
Finished consumer foods, crude.....	00/82	FD	41113	283.332	281.964	259.985	296.566	273.749
Finished consumer foods, processed.....	00/82	FD	41112	253.833	255.738	257.097	259.740	261.424
Government purchased foods.....		FD	4112	150.624	149.868	150.146	152.641	152.912
Foods for export.....		FD	4113	162.795	162.811	164.202	158.580	160.589
Final demand energy.....		FD	412	157.834	165.390	180.064	163.857	153.960
Finished consumer energy goods ²	00/82	FD	4121	238.912	250.214	273.537	248.153	234.253
Government purchased energy.....		FD	4122	185.797	194.601	209.190	192.193	177.643
Energy for export.....		FD	4123	173.942	183.500	196.484	180.917	167.630
Final demand goods less foods and energy.....		FD	413	136.238	137.211	137.845	138.084	138.344
Finished goods less foods and energy ²	00/82	FD	4131	233.547	235.426	237.124	238.437	239.598
Finished consumer goods less foods and energy.....	00/82	FD	41311	259.988	262.274	264.105	265.645	266.965
Nondurable consumer goods less foods and energy.....	00/82	FD	413111	333.052	336.501	339.268	341.374	343.516
Durable consumer goods.....	00/82	FD	413112	184.362	185.494	186.396	187.362	187.876
Private capital equipment.....	00/82	FD	41312	200.122	201.562	203.069	204.125	205.096
Private capital equipment for manufacturing industries.....	00/82	FD	413121	212.553	214.405	215.733	216.915	217.464
Private capital equipment for nonmanufacturing industries.....	00/82	FD	413122	196.380	197.707	199.259	200.279	201.363
Government purchased goods, excluding foods and energy.....		FD	4132	132.654	134.220	135.067	135.850	135.828
Government purchased goods excluding foods, energy, and capital equipment.....		FD	41321	142.011	144.227	145.300	146.366	146.086
Government purchased capital equipment.....		FD	41322	119.008	119.732	120.284	120.700	121.004
Goods for export, excluding foods and energy.....		FD	4133	138.642	139.214	139.168	138.319	137.956
Final demand services.....		FD	42	134.969	135.587	136.060	136.373	136.946
Final demand trade services ³		FD	423	147.446	148.485	149.340	150.674	151.867
Trade of finished goods ²		FD	4231	146.138	147.211	148.179	149.475	150.774
Trade of personal consumption goods.....		FD	42311	144.855	146.421	147.324	148.520	150.228
Trade of private capital equipment.....		FD	42312	150.137	149.039	150.281	152.003	151.493
Trade of government purchased goods.....		FD	4232	155.056	155.605	156.582	158.245	158.609
Trade of government purchased goods, excluding capital equipment.....		FD	42321	157.249	159.882	160.871	161.679	162.457
Trade of government purchased capital equipment.....		FD	42322	150.293	147.673	148.621	151.585	151.309
Trade of exports.....		FD	4233	156.787	157.717	157.531	159.082	159.657
Final demand transportation and warehousing services.....		FD	422	154.655	158.593	160.060	158.838	158.561
Transportation of passengers for final demand.....		FD	4221	128.091	133.002	138.208	134.281	138.679
Transportation of private passengers.....		FD	42211	128.106	133.005	138.203	134.286	138.674
Transportation of government passengers.....		FD	42212	127.948	132.793	137.954	134.083	138.425
Transportation of passengers for export.....		FD	42213	128.035	133.000	138.238	134.265	138.709
Transportation and warehousing of goods for final demand.....		FD	4222	164.461	167.925	167.762	167.721	165.430
Transportation and warehousing of finished goods ²		FD	42221	163.748	167.243	167.057	166.953	164.584
Transportation and warehousing of personal consumption goods.....		FD	422211	163.762	167.205	167.012	167.011	164.676
Transportation and warehousing of private capital equipment.....		FD	422212	163.700	167.408	167.249	166.727	164.219
Transportation and warehousing of government purchased goods.....		FD	42222	159.211	161.788	162.128	163.226	161.033
Transportation and warehousing of exports.....		FD	42223	168.454	172.066	171.841	171.686	169.547
Final demand services less trade, transportation, and warehousing.....		FD	421	127.378	127.478	127.680	127.683	128.059
Finished services less trade, transportation, and warehousing ²		FD	4211	127.901	127.974	128.291	128.361	128.604
Finished consumer services less trade, transportation, and warehousing.....		FD	42111	127.344	127.277	127.523	127.598	127.755
Private capital investment services less trade, transportation, and warehousing.....		FD	42112	133.160	134.470	135.397	135.429	136.415
Government purchased services less trade, transportation, and warehousing.....		FD	4212	119.796	119.791	119.493	119.094	119.770
Gov. purchased services less trade, transportation, and warehousing, excl. capital investment.....		FD	42121	120.290	120.255	119.938	119.511	120.227
Government purchased capital investment services less trade, transportation, and warehousing.....		FD	42122	107.299	107.914	107.989	108.183	108.029
Services for export less trade, transportation, and warehousing.....		FD	4213	129.298	129.901	128.995	128.446	130.453
Final demand construction.....		FD	43	158.554	159.070	159.901	167.913	168.336
Construction for private capital investment.....		FD	431	161.477	162.062	162.970	171.721	172.215
Construction for government.....		FD	432	153.034	153.426	154.115	160.788	161.083
Final Demand Special Groupings								
Final demand less exports.....	04/10	FD	49101	135.070	136.180	137.684	137.276	137.075
Final demand less government.....	04/10	FD	49102	135.851	136.926	138.226	137.746	137.656
Final demand less foods, food and nonalcoholic beverages for immediate consumption, and energy ⁴	04/10	FD	49103	134.655	135.319	135.817	136.262	136.732
Final demand less foods and energy ⁴	04/10	FD	49104	134.301	134.997	135.510	135.937	136.427
Final demand less foods and food and nonalcoholic beverages for immediate consumption ⁴	04/10	FD	49105	135.825	136.959	138.432	137.727	137.481

See footnotes at end of table.

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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	Apr. 2022	May 2022 ^p	June 2022 ^p	July 2022 ^p	Aug. 2022 ^p
Final demand less foods ⁴	04/10	FD	49106	135.369	136.508	137.943	137.282	137.091
Final demand less energy.....	04/10	FD	49107	134.817	135.508	135.980	136.494	136.955
Final demand less trade services.....	01/10	FD	49108	134.207	135.347	136.824	135.865	135.361
Final demand less distributive services ⁵	01/10	FD	49109	133.091	134.145	135.682	134.690	134.252
Final demand goods less energy.....	01/10	FD	49111	137.395	138.294	138.761	139.340	139.549
Final demand goods less foods.....	04/10	FD	49112	137.938	140.337	144.050	140.658	138.674
Final demand services less trade services.....	04/10	FD	49113	128.809	129.250	129.564	129.457	129.772
Final demand distributive services ⁵	04/10	FD	49114	146.923	148.253	148.958	150.088	150.805
Final demand goods plus final demand distributive services ⁵	04/10	FD	49115	142.236	144.034	146.169	145.091	144.373
Final demand less foods, energy, and trade services ⁴	08/13	FD	49116	123.403	123.970	124.367	124.538	124.820
Private and government purchased capital equipment.....	08/13	FD	49117	121.061	121.914	122.777	123.386	123.935
Private and government purchased capital investment services.....	08/13	FD	49118	130.634	130.904	131.812	132.540	132.675
Total private and government purchased capital investment.....	08/13	FD	49119	128.526	129.066	129.944	131.278	131.615
Total finished ²	01/10	FD	49201	135.731	136.806	138.279	137.927	137.829
Total finished less foods, food and nonalcoholic beverages for immediate consumption, and energy ^{2, 4}	12/10	FD	49202	133.516	134.159	134.798	135.347	135.897
Total finished less foods and energy ^{2, 4}	01/10	FD	49203	134.326	134.976	135.616	136.169	136.718
Total finished less foods and food and nonalcoholic beverages for immediate consumption ⁴	12/10	FD	49204	133.978	135.058	136.646	136.073	135.990
Total finished less foods ^{2, 4}	01/10	FD	49205	135.319	136.404	137.993	137.427	137.346
Total finished less energy ²	01/10	FD	49206	134.832	135.495	136.068	136.783	137.277
Finished goods ²	00/82	FD	49207	248.565	252.915	259.802	255.119	252.027
Finished goods less energy ²	00/82	FD	49208	238.952	240.753	241.784	244.273	244.958
Finished goods, excluding foods ^{2, 4}	00/82	FD	49209	245.661	250.678	259.463	252.178	248.508
Finished services ²	01/10	FD	49210	133.537	134.093	134.653	135.015	135.538
Private capital investment services.....	04/10	FD	49211	140.575	140.970	141.964	142.675	142.841
Finished distributive services ^{2, 5}	04/10	FD	49212	145.115	146.410	147.241	148.369	149.266
Finished services less trade services ²	04/10	FD	49213	128.718	129.058	129.452	129.429	129.632
Finished services less distributive services ^{2, 5}	04/10	FD	49214	127.067	127.249	127.673	127.654	127.987
Total private capital investment (goods, services, and construction).....	04/10	FD	49215	136.323	136.951	137.922	139.180	139.559
Finished goods plus finished distributive services ²	04/10	FD	49216	141.763	143.665	146.113	145.228	144.714
Total exports.....	04/10	FD	49301	139.930	141.038	141.399	140.193	140.145
Goods for export.....	00/82	FD	49302	240.360	241.983	243.268	239.767	238.446
Services for export.....	04/10	FD	49303	143.780	145.167	144.948	144.980	146.028
Total government purchases.....	04/10	FD	49401	135.298	136.819	138.696	137.721	136.502
Government purchased goods.....	00/82	FD	49402	239.865	244.770	251.330	246.072	240.503
Government purchased services.....	04/10	FD	49403	127.954	128.308	128.424	128.387	128.959
Total government purchased capital investment (goods, services, construction).....	08/13	FD	49404	125.496	125.648	126.231	128.607	128.790
Government purchases, defense.....	05/15	FD	49405	—	—	127.074	126.079	124.145
Government purchases, non-defense.....	05/15	FD	49406	—	—	132.504	131.511	130.648
Personal consumption.....	01/10	FD	49501	135.502	136.675	138.259	137.548	137.343
Personal consumption goods (finished consumer goods).....	00/82	FD	49502	269.379	275.048	284.385	277.071	272.113
Personal consumption goods less energy.....	00/82	FD	49503	259.041	261.037	261.722	265.112	265.587
Personal consumption goods less foods.....	00/82	FD	49504	272.712	279.998	293.413	280.795	274.153
Personal consumption nondurable goods less foods.....	00/82	FD	49508	310.961	320.840	339.519	321.199	311.554
Personal consumption services.....	04/10	FD	49505	131.949	132.526	133.020	133.329	133.902
Personal consumption less trade services.....	04/10	FD	49506	132.645	133.710	135.470	134.262	133.558
Personal consumption less distributive services ⁵	04/10	FD	49507	131.772	132.765	134.586	133.340	132.686
Personal consumption less foods and energy.....	04/14	FD	49510	123.409	124.013	124.523	124.864	125.411
Personal consumption less foods, energy, and trade services ³	04/14	FD	49511	120.342	120.672	121.080	121.175	121.391
Personal consumption less foods, energy, and distributive services ⁵	04/14	FD	49512	119.563	119.786	120.217	120.317	120.625
Personal consumption goods plus personal consumption distributive services ⁵	08/13	FD	49509	130.861	133.024	135.663	134.336	133.685
Intermediate Demand by Commodity Type								
Processed goods								
Processed goods for intermediate demand.....	00/82	ID6	1	269.254	275.464	280.938	274.808	270.050
Materials and components for manufacturing.....	00/82	ID6	11	245.615	250.906	250.479	248.985	244.867
Materials for manufacturing.....		ID6	111	160.588	165.101	164.090	162.259	157.939
Materials for food manufacturing.....	00/82	ID6	1111	260.558	264.009	263.029	261.674	259.798
Materials for nondurable manufacturing.....	00/82	ID6	1112	293.722	300.799	302.398	303.514	293.942
Materials for durable manufacturing.....	00/82	ID6	1113	316.885	328.806	322.584	313.187	304.398
Components for manufacturing.....	00/82	ID6	112	180.353	181.930	183.219	183.988	184.527
Components for nondurable manufacturing.....		ID6	1121	143.603	144.898	146.832	147.751	148.586
Components for durable manufacturing.....		ID6	1122	127.132	128.241	129.106	129.633	129.993
Materials and components for construction.....	00/82	ID6	12	348.369	351.369	350.584	351.181	352.722
Materials for construction.....		ID6	121	170.670	171.090	168.221	168.172	169.067
Components for construction.....		ID6	122	173.223	175.531	177.080	177.643	178.300
Processed fuels and lubricants for intermediate demand.....	00/82	ID6	13	287.077	300.002	326.240	298.026	282.659
Processed fuels and lubricants to manufacturing industries.....	00/82	ID6	131	281.251	291.609	306.010	294.667	287.323

See footnotes at end of table.

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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	Apr. 2022	May 2022 ^p	June 2022 ^p	July 2022 ^p	Aug. 2022 ^p
Processed fuels and lubricants to nonmanufacturing industries.....	00/82	ID6	132	289.493	303.282	333.430	299.680	281.676
Containers for intermediate demand.....	00/82	ID6	14	301.189	306.120	309.181	309.825	313.810
Supplies for intermediate demand.....	00/82	ID6	15	247.213	250.079	251.314	252.469	253.062
Supplies to manufacturing industries.....	00/82	ID6	151	244.089	245.873	246.567	247.135	247.803
Supplies to nonmanufacturing industries.....	00/82	ID6	152	245.731	248.746	250.058	251.295	251.872
Supplies to nonmanufacturing industries, feeds.....	00/82	ID6	1521	245.405	248.215	250.098	252.948	257.600
Supplies to nonmanufacturing industries, other than feeds.....	00/82	ID6	1522	247.721	250.781	252.047	253.131	253.300
Unprocessed goods								
Unprocessed goods for intermediate demand.....	00/82	ID6	2	326.852	344.409	360.882	322.404	340.680
Unprocessed foodstuffs and feedstuffs.....	00/82	ID6	21	264.413	265.057	264.031	262.005	257.113
Unprocessed nonfood materials.....	00/82	ID6	22	356.803	384.696	411.918	351.180	383.798
Unprocessed nonfood materials except fuel.....	00/82	ID6	221	417.981	412.819	434.340	381.831	373.144
Unprocessed nonfood materials except fuel to manufacturing industries.....	00/82	ID6	2211	393.016	387.873	408.543	357.119	348.503
Unprocessed nonfood materials except fuel to nonmanufacturing industries.....	00/82	ID6	2212	309.994	312.142	319.130	322.550	325.363
Unprocessed fuel.....	00/82	ID6	222	250.051	318.118	350.492	284.019	367.016
Unprocessed fuel to manufacturing industries.....	00/82	ID6	2221	266.242	294.366	318.860	303.562	330.238
Unprocessed fuel to nonmanufacturing industries.....	00/82	ID6	2222	256.236	328.648	362.421	290.976	379.726
Services								
Services for intermediate demand.....		ID6	3	139.153	139.788	139.229	139.556	140.902
Trade services for intermediate demand ⁹		ID6	33	170.820	171.867	169.975	169.736	170.705
Trade services for manufacturing industries.....	12/12	ID6	331	154.244	156.627	154.527	154.749	155.185
Trade services for nonmanufacturing industries.....	12/12	ID6	332	153.801	153.304	151.993	151.341	152.650
Transportation and warehousing services for intermediate demand.....		ID6	32	156.787	157.664	157.900	159.425	159.270
Transportation of passengers for intermediate demand.....		ID6	321	128.013	132.855	138.016	134.148	138.487
Transportation of passengers for manufacturing industries.....		ID6	3211	128.017	132.977	138.213	134.243	138.683
Transportation of passengers for nonmanufacturing industries.....		ID6	3212	128.072	132.901	138.054	134.197	138.525
Transportation and warehousing of goods for intermediate demand.....		ID6	322	159.900	160.359	160.072	162.170	161.538
Transportation and warehousing of goods for manufacturing industries.....	12/12	ID6	3221	133.626	136.777	136.999	137.554	136.578
Transportation and warehousing of goods for nonmanufacturing industries.....	12/12	ID6	3222	142.594	142.221	141.839	144.040	143.598
Services less trade, transportation, and warehousing for intermediate demand.....		ID6	31	127.431	127.910	127.579	127.857	129.563
Services less trade, transportation, and warehousing for manufacturing industries.....		ID6	311	122.257	122.390	122.503	123.171	123.682
Services less trade, transportation, and warehousing for nonmanufacturing industries.....		ID6	312	127.588	128.079	127.732	127.996	129.744
Construction								
Construction for intermediate demand.....		ID6	4	138.071	139.191	140.420	142.018	142.182
Intermediate Demand by Commodity Type Special Groupings								
Processed materials less foods and feeds.....	00/82	ID6	9111	270.946	277.488	283.467	276.713	271.498
Processed foods and feeds.....	00/82	ID6	9112	252.049	254.742	254.814	255.369	255.516
Processed energy goods.....	00/82	ID6	9113	288.409	301.394	327.742	299.429	284.006
Processed materials less energy.....	00/82	ID6	9118	261.201	265.633	265.783	265.321	263.311
Processed materials less foods and energy.....	00/82	ID6	9115	261.821	266.453	266.612	266.030	263.770
Intermediate distributive services ⁶	04/10	ID6	9116	163.756	164.574	163.286	163.880	164.263
Processed goods plus intermediate distributive services.....	04/10	ID6	9117	151.089	153.792	155.654	153.346	151.535
Unprocessed materials less agricultural products.....	00/82	ID6	9211	359.046	390.475	419.678	356.416	392.575
Unprocessed energy materials ⁷	00/82	ID6	9212	284.303	325.831	362.293	297.839	338.013
Unprocessed materials less energy.....	00/82	ID6	9213	335.464	329.799	326.320	315.721	313.173
Unprocessed nonfood materials less energy ⁸	00/82	ID6	9216	546.970	523.875	511.948	476.295	481.068
Intermediate Demand by Production Flow								
Stage 4 Intermediate Demand								
Stage 4 intermediate demand.....		ID5	4	144.015	145.262	145.664	145.041	145.817
Inputs to stage 4 goods producers.....		ID5	41	144.705	146.627	146.858	146.402	146.620
Goods.....		ID5	411	139.545	141.671	142.125	141.311	141.388
Foods.....		ID5	4111	159.110	161.298	161.178	156.695	157.507
Energy.....		ID5	4112	170.319	177.462	187.687	172.955	165.535
Goods excluding foods and energy.....		ID5	4113	136.380	138.454	138.909	138.767	138.800
Services.....		ID5	412	161.884	163.277	162.890	163.424	164.038
Trade services.....		ID5	4123	173.072	174.675	173.992	174.598	175.296
Transportation and warehousing services.....		ID5	4122	137.915	140.772	141.982	141.790	141.438
Transportation of passengers.....		ID5	41221	128.034	132.999	138.237	134.264	138.708
Transportation and warehousing of goods.....		ID5	41222	148.982	151.616	152.126	152.653	151.350
Services less trade, transportation, and warehousing.....		ID5	4121	123.573	123.703	123.966	124.434	125.008
Inputs to stage 4 services producers.....		ID5	42	137.986	138.635	139.013	138.767	140.337

See footnotes at end of table.

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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	Apr. 2022	May 2022 ^p	June 2022 ^p	July 2022 ^p	Aug. 2022 ^p
Goods.....		ID5	421	143.469	145.002	148.078	147.084	147.015
Foods.....		ID5	4211	153.425	153.038	153.443	155.233	154.811
Energy.....		ID5	4212	139.291	142.268	150.954	146.002	144.562
Goods excluding foods and energy.....		ID5	4213	142.240	143.560	144.435	144.731	145.486
Services.....		ID5	422	135.867	136.195	135.602	135.620	137.781
Trade services.....		ID5	4223	153.562	155.790	155.759	156.577	157.614
Transportation and warehousing services.....		ID5	4222	145.921	145.249	146.825	149.609	148.535
Transportation of passengers.....		ID5	42221	127.584	132.493	137.688	133.762	138.157
Transportation and warehousing of goods.....		ID5	42222	149.713	148.013	148.941	152.943	150.881
Services less trade, transportation, and warehousing.....		ID5	4221	131.950	132.125	131.240	130.872	133.500
Construction.....		ID5	423	138.071	139.191	140.420	142.018	142.182
Inputs to stage 4 construction producers.....		ID5	43	164.621	166.605	167.515	164.980	163.916
Goods.....		ID5	431	167.948	170.317	172.403	169.452	168.130
Energy.....		ID5	4312	194.180	208.015	236.834	202.436	180.792
Goods excluding foods and energy.....		ID5	4313	169.298	170.603	170.140	170.170	170.788
Services.....		ID5	432	155.916	156.975	155.060	153.537	153.098
Trade services.....		ID5	4323	181.772	182.560	177.323	173.730	172.642
Transportation and warehousing services.....		ID5	4322	158.771	162.033	162.113	161.653	159.358
Transportation of passengers.....		ID5	43221	133.476	138.639	144.091	139.960	144.582
Transportation and warehousing of goods.....		ID5	43222	160.248	163.475	163.414	163.048	160.559
Services less trade, transportation, and warehousing.....		ID5	4321	125.301	125.858	126.690	126.948	127.831
Stage 3 Intermediate Demand								
Stage 3 intermediate demand.....		ID5	3	153.973	156.462	157.286	155.438	152.617
Inputs to stage 3 goods producers.....		ID5	31	171.999	175.665	175.060	173.603	169.499
Goods.....		ID5	311	170.512	174.218	174.161	172.490	167.606
Foods.....		ID5	3111	199.829	200.281	199.177	199.302	193.152
Energy.....		ID5	3112	183.614	198.789	211.758	193.039	182.312
Goods excluding foods and energy.....		ID5	3113	161.859	166.275	165.841	164.463	160.354
Services.....		ID5	312	165.656	168.890	166.041	165.596	165.082
Trade services.....		ID5	3123	172.957	176.471	171.128	170.096	169.655
Transportation and warehousing services.....		ID5	3122	156.243	160.238	160.641	160.531	159.199
Transportation of passengers.....		ID5	31221	136.324	141.606	147.181	142.954	147.683
Transportation and warehousing of goods.....		ID5	31222	157.140	161.053	161.160	161.286	159.610
Services less trade, transportation, and warehousing.....		ID5	3121	126.564	126.979	127.433	128.459	129.182
Inputs to stage 3 services producers.....		ID5	32	138.953	140.593	142.718	140.604	138.761
Goods.....		ID5	321	150.455	156.314	165.662	153.789	144.082
Foods.....		ID5	3211	154.086	153.260	153.974	156.008	160.627
Energy.....		ID5	3212	167.814	176.482	191.377	171.660	155.852
Goods excluding foods and energy.....		ID5	3213	133.188	134.897	135.731	135.991	135.613
Services.....		ID5	322	135.056	135.378	135.246	136.118	136.705
Trade services.....		ID5	3223	183.288	187.445	188.452	188.959	189.717
Transportation and warehousing services.....		ID5	3222	164.236	162.973	162.120	164.623	164.819
Transportation of passengers.....		ID5	32221	102.566	102.819	104.673	104.674	105.046
Transportation and warehousing of goods.....		ID5	32222	164.756	163.485	162.620	165.137	165.333
Services less trade, transportation, and warehousing.....		ID5	3221	124.772	125.231	125.209	125.681	126.362
Construction.....		ID5	323	138.071	139.191	140.420	142.018	142.182
Inputs to stage 3 construction producers.....		ID5	33	155.332	153.097	149.241	145.351	145.607
Goods.....		ID5	331	141.164	141.559	139.393	138.442	138.641
Goods excluding foods and energy.....		ID5	3313	179.876	180.380	177.620	176.408	176.662
Services.....		ID5	332	189.573	184.730	178.855	171.853	172.193
Trade services.....		ID5	3323	196.916	191.490	185.052	177.344	177.604
Transportation and warehousing services.....		ID5	3322	109.427	113.119	114.019	115.253	115.872
Transportation and warehousing of goods.....		ID5	33222	115.504	119.401	120.352	121.654	122.308
Services less trade, transportation, and warehousing.....		ID5	3321	117.438	118.371	118.831	119.981	121.793
Stage 2 Intermediate Demand								
Stage 2 intermediate demand.....		ID5	2	143.176	148.300	152.694	144.814	150.209
Inputs to stage 2 goods producers.....		ID5	21	145.354	154.058	161.444	146.985	155.188
Goods.....		ID5	211	150.261	161.179	170.558	151.676	161.812
Foods.....		ID5	2111	175.321	176.548	179.884	171.164	176.340
Energy.....		ID5	2112	127.745	145.872	161.643	133.064	150.103
Goods excluding foods and energy.....		ID5	2113	158.678	158.388	157.107	154.930	153.312
Services.....		ID5	212	140.621	141.842	141.983	143.766	145.124
Trade services.....		ID5	2123	161.479	162.107	161.449	163.619	165.226
Transportation and warehousing services.....		ID5	2122	160.111	163.155	163.796	165.711	166.568
Transportation of passengers.....		ID5	21221	128.722	133.421	138.504	134.759	138.977
Transportation and warehousing of goods.....		ID5	21222	161.937	164.867	165.154	167.520	168.101
Services less trade, transportation, and warehousing.....		ID5	2121	120.239	120.953	121.880	123.316	124.889
Construction.....		ID5	213	138.071	139.191	140.420	142.018	142.182

See footnotes at end of table.

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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	Apr. 2022	May 2022 ^p	June 2022 ^p	July 2022 ^p	Aug. 2022 ^p
Inputs to stage 2 services producers.....		ID5	22	135.404	135.770	136.198	136.980	138.606
Goods.....		ID5	221	144.967	147.922	150.427	149.057	148.906
Foods.....		ID5	2211	134.707	135.029	135.133	135.858	137.606
Energy.....		ID5	2212	187.741	207.130	235.590	200.668	190.945
Goods excluding foods and energy.....		ID5	2213	142.718	144.678	145.591	146.291	146.722
Services.....		ID5	222	133.602	133.560	133.652	134.710	136.650
Trade services.....		ID5	2223	183.839	172.726	173.908	180.048	189.826
Transportation and warehousing services.....		ID5	2222	170.440	167.743	164.766	165.400	169.025
Transportation of passengers.....		ID5	22221	128.486	133.420	138.646	134.700	139.118
Transportation and warehousing of goods.....		ID5	22222	178.971	174.781	170.278	171.757	175.252
Services less trade, transportation, and warehousing.....		ID5	2221	129.236	130.057	130.326	131.128	132.494
Construction.....		ID5	223	138.071	139.191	140.420	142.018	142.182
Stage 1 Intermediate Demand								
Stage 1 intermediate demand.....		ID5	1	147.546	149.742	151.078	148.471	147.882
Inputs to stage 1 goods producers.....		ID5	11	155.675	159.660	160.220	156.235	154.400
Goods.....		ID5	111	158.023	162.482	164.325	159.108	156.325
Foods.....		ID5	1111	178.954	179.640	181.170	171.349	174.533
Energy.....		ID5	1112	141.829	152.536	166.720	150.523	147.500
Goods excluding foods and energy.....		ID5	1113	162.383	166.118	165.129	163.171	159.357
Services.....		ID5	112	153.317	156.119	153.213	152.461	153.153
Trade services.....		ID5	1123	171.646	175.142	169.605	169.294	169.304
Transportation and warehousing services.....		ID5	1122	145.873	153.742	156.105	156.838	160.521
Transportation of passengers.....		ID5	11221	128.010	132.973	138.211	134.238	138.681
Transportation and warehousing of goods.....		ID5	11222	148.723	157.240	159.055	160.629	164.171
Services less trade, transportation, and warehousing.....		ID5	1121	106.016	106.758	106.943	105.441	106.424
Construction.....		ID5	113	138.071	139.191	140.420	142.018	142.182
Inputs to stage 1 services producers.....		ID5	12	140.294	141.845	143.763	142.181	142.414
Goods.....		ID5	121	150.025	152.987	159.365	154.199	150.910
Foods.....		ID5	1211	204.364	220.240	200.196	194.418	187.724
Energy.....		ID5	1212	183.924	189.396	207.778	189.502	177.474
Goods excluding foods and energy.....		ID5	1213	141.537	143.369	144.392	145.327	146.129
Services.....		ID5	122	135.131	135.971	135.659	135.868	137.858
Trade services.....		ID5	1223	165.461	167.477	167.850	168.553	169.740
Transportation and warehousing services.....		ID5	1222	138.255	140.925	142.628	143.084	143.960
Transportation of passengers.....		ID5	12221	127.934	132.894	138.128	134.158	138.598
Transportation and warehousing of goods.....		ID5	12222	158.627	160.272	160.166	163.163	162.123
Services less trade, transportation, and warehousing.....		ID5	1221	130.112	130.566	129.911	130.029	132.242
Construction.....		ID5	123	138.071	139.191	140.420	142.018	142.182
Inputs to stage 1 construction producers.....		ID5	13	169.860	170.215	171.156	167.494	166.565
Goods.....		ID5	131	164.895	166.778	170.628	168.017	166.497
Energy.....		ID5	1312	194.499	200.372	224.038	196.956	177.635
Goods excluding foods and energy.....		ID5	1313	163.656	165.049	166.387	166.909	167.674
Services.....		ID5	132	179.693	177.031	172.251	166.518	166.752
Trade services.....		ID5	1323	189.148	185.209	179.371	172.493	173.176
Transportation and warehousing services.....		ID5	1322	134.062	137.160	136.950	136.287	134.090
Transportation and warehousing of goods.....		ID5	13222	138.670	141.874	141.657	140.971	138.699
Services less trade, transportation, and warehousing.....		ID5	1321	126.199	127.544	129.120	129.132	132.878
Intermediate Demand by Production Flow Special Groupings								
Total goods inputs to stage 4 intermediate demand.....	04/10	ID5	9411	143.327	145.283	146.807	145.549	145.316
Total services inputs to stage 4 intermediate demand.....	04/10	ID5	9412	141.032	141.590	140.933	140.917	142.617
Total construction inputs to stage 4 intermediate demand.....	04/10	ID5	9413	136.927	138.038	139.257	140.841	141.004
Total foods inputs to stage 4 intermediate demand.....	04/10	ID5	9414	153.217	154.290	154.389	152.597	152.881
Total energy goods inputs to stage 4 intermediate demand.....	04/10	ID5	9415	136.819	141.275	152.244	143.072	138.598
Total goods less foods and energy inputs to stage 4 intermediate demand.....	04/10	ID5	9416	143.994	145.718	146.049	146.039	146.357
Total goods inputs to stage 3 intermediate demand.....	04/10	ID5	9311	157.007	161.036	163.286	159.185	153.390
Total services inputs to stage 3 intermediate demand.....	04/10	ID5	9312	139.826	140.593	139.900	140.417	140.799
Total construction inputs to stage 3 intermediate demand.....	04/10	ID5	9313	136.927	138.038	139.257	140.841	141.004
Total foods inputs to stage 3 intermediate demand.....	04/10	ID5	9314	177.511	177.903	176.934	177.059	171.666
Total energy goods inputs to stage 3 intermediate demand.....	04/10	ID5	9315	166.945	176.499	190.772	171.624	156.974
Total goods less foods and energy inputs to stage 3 intermediate demand.....	04/10	ID5	9316	151.013	154.776	154.511	153.437	150.128
Total goods inputs to stage 2 intermediate demand.....	04/10	ID5	9211	142.522	152.147	160.419	144.115	152.783
Total services inputs to stage 2 intermediate demand.....	04/10	ID5	9212	135.672	135.915	136.018	137.236	139.059
Total construction inputs to stage 2 intermediate demand.....	04/10	ID5	9213	136.927	138.038	139.257	140.841	141.004
Total foods inputs to stage 2 intermediate demand.....	04/10	ID5	9214	175.838	177.061	180.376	171.722	176.886
Total energy goods inputs to stage 2 intermediate demand.....	04/10	ID5	9215	125.746	143.506	159.091	131.041	147.414
Total goods less foods and energy inputs to stage 2 intermediate demand.....	04/10	ID5	9216	146.178	146.389	145.655	144.223	143.140
Total goods inputs to stage 1 intermediate demand.....	04/10	ID5	9111	139.071	142.212	145.532	141.276	138.823

See footnotes at end of table.

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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	Apr. 2022	May 2022 ^p	June 2022 ^p	July 2022 ^p	Aug. 2022 ^p
Total services inputs to stage 1 intermediate demand.....	04/10	ID5	9112	140.988	141.897	140.749	140.299	141.892
Total construction inputs to stage 1 intermediate demand.....	04/10	ID5	9117	136.927	138.038	139.257	140.841	141.004
Total foods inputs to stage 1 intermediate demand.....	04/10	ID5	9114	169.006	169.979	170.986	161.815	164.621
Total energy goods inputs to stage 1 intermediate demand.....	04/10	ID5	9115	162.510	169.691	186.283	168.740	159.825
Total goods less foods and energy inputs to stage 1 intermediate demand.....	04/10	ID5	9116	129.295	131.493	131.604	131.177	130.025

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.