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

Media contact: (202) 691-5902 • PressOffice@bls.gov

PRODUCER PRICE INDEXES – SEPTEMBER 2022

The Producer Price Index for final demand increased 0.4 percent in September, seasonally adjusted, the U.S. Bureau of Labor Statistics reported today. Final demand prices declined 0.2 percent in August and 0.4 percent in July. (See table A.) On an unadjusted basis, the index for final demand advanced 8.5 percent for the 12 months ended in September.

In September, two-thirds of the increase in the index for final demand can be traced to a 0.4-percent rise in prices for final demand services. The index for final demand goods also advanced 0.4 percent.

Prices for final demand less foods, energy, and trade services advanced 0.4 percent in September, the largest rise since increasing 0.5 percent in May. For the 12 months ended in September, the index for final demand less foods, energy, and trade services moved up 5.6 percent.

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

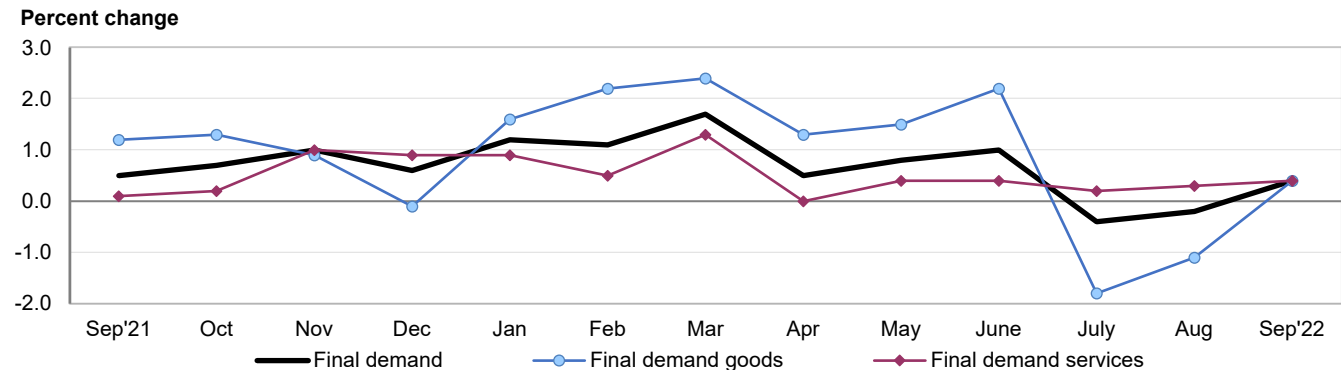
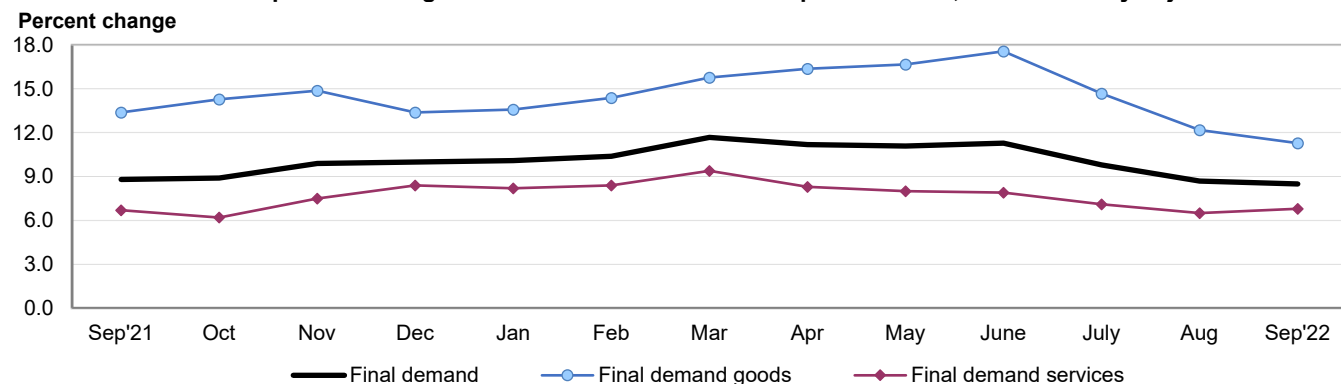


Chart 2. Twelve-month percent changes in selected PPI final demand price indexes, not seasonally adjusted



Final Demand

Final demand services: Prices for final demand services advanced 0.4 percent in September after climbing 0.3 percent in August. Most of the September increase is attributable to a 0.6-percent rise in the index for final demand services less trade, transportation, and warehousing. Margins for final demand trade services edged up 0.1 percent. (Trade indexes measure changes in margins received by wholesalers and retailers.) Conversely, prices for final demand transportation and warehousing services fell 0.2 percent.

Product detail: Over a quarter of the September increase in the index for final demand services can be traced to a 6.4-percent advance in prices for traveler accommodation services. The indexes for food and alcohol retailing, portfolio management, machinery and vehicle wholesaling, oil and gas well drilling services, and hospital inpatient care also rose. In contrast, prices for long-distance motor carrying fell 0.4 percent. The indexes for fuels and lubricants retailing and for consumer loans (partial) also decreased. (See table 2.)

Final demand goods: Prices for final demand goods moved up 0.4 percent in September after decreasing 1.1 percent in August. Sixty percent of the advance is attributable to a 1.2-percent increase in the index for final demand foods. Prices for final demand energy rose 0.7 percent. The index for final demand goods less foods and energy was unchanged.

Product detail: A major factor in the September increase in prices for final demand goods was a 15.7-percent advance in the index for fresh and dry vegetables. Prices for diesel fuel, residential natural gas, chicken eggs, home heating oil, and pork also moved higher. Conversely, the index for gasoline fell 2.0 percent. Prices for prepared poultry and for steel mill products also declined.

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

Month	Total final demand	Final demand less foods, energy, and trade	Final demand goods				Final demand services				Change in final demand from 12 months ago (unadj.)	Change in final demand less foods, energy, and trade from 12 mo. ago (unadj.)
			Total	Foods	Energy	Less foods and energy	Total	Trade	Transportation and warehousing	Other		
2021												
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....	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	0.4	0.6	2.5	0.1	11.1	6.8
June ¹ ..	1.0	0.3	2.2	-0.1	8.9	0.5	0.4	0.8	0.8	0.2	11.3	6.4
July ¹ ..	-0.4	0.1	-1.8	1.3	-9.1	0.2	0.2	0.8	-0.7	0.0	9.8	5.8
Aug. ¹ ..	-0.2	0.2	-1.1	-0.1	-5.6	0.2	0.3	0.5	-0.9	0.4	8.7	5.6
Sept...	0.4	0.4	0.4	1.2	0.7	0.0	0.4	0.1	-0.2	0.6	8.5	5.6

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

Intermediate Demand by Commodity Type

Within intermediate demand in September, prices for processed goods edged up 0.1 percent, the index for unprocessed goods rose 0.3 percent, and prices for services advanced 0.3 percent. (See tables B and C.)

Processed goods for intermediate demand: The index for processed goods for intermediate demand rose 0.1 percent in September after decreasing 1.5 percent in August. The increase can be traced to a 2.6-percent advance in prices for processed energy goods. In contrast, the indexes for processed materials less foods and energy and for processed foods and feeds moved lower, 0.6 percent and 0.5 percent, respectively. For the 12 months ended in September, prices for processed goods for intermediate demand increased 13.1 percent.

Product detail: Leading the September rise in the index for processed goods for intermediate demand, prices for diesel fuel advanced 9.1 percent. The indexes for electric power, jet fuel, pork, and ready-mix concrete also increased. Conversely, prices for steel mill products fell 6.7 percent. The indexes for primary basic organic chemicals, liquefied petroleum gas, and prepared poultry also declined.

Unprocessed goods for intermediate demand: The index for unprocessed goods for intermediate demand rose 0.3 percent in September following a 5.3-percent advance in August. Leading the broad-based increase in September, prices for unprocessed energy materials moved up 0.5 percent. The indexes for unprocessed nonfood materials less energy and for unprocessed foodstuffs and feedstuffs also rose, 0.6 percent and 0.1 percent, respectively. For the 12 months ended in September, prices for unprocessed goods for intermediate demand advanced 34.2 percent.

Product detail: Leading the September rise in prices for unprocessed goods for intermediate demand, the index for natural gas increased 3.1 percent. Prices for corn; hay, hayseeds, and oilseeds; wheat; fresh vegetables, except potatoes; and construction sand, gravel, and crushed stone also moved higher. In contrast, the crude petroleum index fell 3.4 percent. Prices for raw milk and for recyclable paper also declined.

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										
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.....	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	8.8	0.0	21.9	4.7	-0.3	11.0	-2.0	50.1
July ¹	-2.2	0.2	-8.8	-0.2	17.3	-9.4	-1.7	-14.6	-7.2	32.1
Aug. ¹	-1.5	0.0	-4.6	-0.7	14.3	5.3	-1.3	12.1	0.7	37.4
Sept.....	0.1	-0.5	2.6	-0.6	13.1	0.3	0.1	0.5	0.6	34.2

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Services for intermediate demand: The index for services for intermediate demand increased 0.3 percent in September, the third consecutive rise. Leading the September advance, prices for services less trade, transportation, and warehousing for intermediate demand climbed 0.5 percent. Margins for trade services for intermediate demand moved up 0.3 percent. Conversely, the index for transportation and warehousing services for intermediate demand declined 0.7 percent. For the 12 months ended in September, prices for services for intermediate demand increased 6.2 percent.

Product detail: In September, a 5.6-percent rise in the index for investment banking was a major factor in the advance in prices for services for intermediate demand. The indexes for paper and plastics products wholesaling, gross rents for retail properties, portfolio management, traveler accommodation services, and pipeline transportation of natural gas also moved higher. In contrast, prices for arrangement of freight and cargo transportation fell 12.7 percent. The indexes for metals, minerals, and ores wholesaling and for securities brokerage, dealing, investment advice, and related services 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					
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.....	0.9	1.0	1.7	0.6	8.0
May ¹	0.5	0.6	0.6	0.4	7.9
June ¹	-0.4	-0.8	0.1	-0.3	6.2
July ¹	0.3	-0.1	1.0	0.3	5.9
Aug. ¹	0.8	-0.6	-0.2	1.5	6.2
Sept.....	0.3	0.3	-0.7	0.5	6.2

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Intermediate Demand by Production Flow

Stage 4 intermediate demand: Prices for stage 4 intermediate demand rose 0.3 percent in September following a 0.4-percent advance in August. In September, the index for total services inputs to stage 4 intermediate demand moved up 0.5 percent. Prices for total goods inputs were unchanged. (See table D.) Increases in the indexes for paper and plastics products wholesaling, corn, diesel fuel, portfolio management, gross rents for retail properties, and investment banking outweighed declines in the indexes for steel mill products; securities brokerage, dealing, investment advice, and related services; and metals, minerals, and ores wholesaling. For the 12 months ended in September, prices for stage 4 intermediate demand rose 8.4 percent.

Stage 3 intermediate demand: Prices for stage 3 intermediate demand inched down 0.1 percent in September, the third consecutive decline. In September, the index for total goods inputs to stage 3 intermediate demand fell 0.2 percent. Prices for total services inputs were unchanged. Decreases in the indexes for steel mill products; raw milk; arrangement of freight and cargo transportation; slaughter hogs; and metals, minerals, and ores wholesaling outweighed increases in the indexes for diesel fuel, corn, paper and plastics products wholesaling, and jet fuel. For the 12 months ended in September, prices for stage 3 intermediate demand advanced 10.8 percent.

Stage 2 intermediate demand: Prices for stage 2 intermediate demand edged down 0.1 percent in September following a 3.5-percent rise in August. In September, the index for total goods inputs to stage 2 intermediate demand declined 0.1 percent. Prices for total services inputs were unchanged. Decreases in the indexes for crude petroleum, arrangement of freight and cargo transportation, liquefied petroleum gas, fuels and lubricants retailing, and steel mill products outweighed increasing prices for natural gas, oilseeds, deposit services (partial), and traveler accommodation services. For the 12 months ended in September, the index for stage 2 intermediate demand jumped 18.6 percent.

Stage 1 intermediate demand: Prices for stage 1 intermediate demand rose 0.5 percent in September after falling 0.5 percent in August. In September, the index for total goods inputs to stage 1 intermediate demand advanced 0.6 percent, and prices for total services inputs moved up 0.4 percent. Increases in the indexes for diesel fuel, corn, traveler accommodation services, investment banking, paper and plastics products wholesaling, and gross rents for retail properties outweighed declines in the indexes for steel mill products; metals, minerals, and ores wholesaling; and securities brokerage, dealing, investment advice, and related services. For the 12 months ended in September, prices for stage 1 intermediate demand rose 10.8 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												
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.....	1.0	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	1.7	2.6	0.6	3.6	6.8	0.3	1.5	2.3	0.7
June ¹	0.3	1.1	-0.4	0.5	1.4	-0.5	2.9	5.4	0.0	1.0	2.4	-0.7
July ¹	-0.4	-0.9	0.0	-1.4	-2.9	0.4	-4.3	-8.6	1.0	-1.8	-3.0	-0.3
Aug. ¹	0.4	-0.1	0.9	-1.6	-3.2	0.2	3.5	5.4	1.5	-0.5	-1.5	0.7
Sept.....	0.3	0.0	0.5	-0.1	-0.2	0.0	-0.1	-0.1	0.0	0.5	0.6	0.4

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The Producer Price Index for October 2022 is scheduled to be released on Tuesday, November 15, 2022, at 8:30 a.m. (ET).

PPI Weights to be Updated to Reflect 2017 Census Shipment Values

With the release of January 2023 Producer Price Index (PPI) data in February 2023, the Bureau of Labor Statistics will update PPI value weights to more accurately reflect recent production and marketing patterns. The updated weights will be constructed using 2017 value of shipments data from the Census of Manufactures, the Census of Mining, the Census of Services, and the Census of Agriculture. These data were collected in accordance with the North American Product Classification System (NAPCS). From January 2018 through December 2022, PPI weights have been based on 2012 North American Industry Classification System (NAICS) shipment values.

All PPIs will be affected by this weight update, including all industry net output indexes, as well as indexes for traditional commodity groupings. In addition, weights will be updated from the 2012 to the 2017 Economic Census for all Final Demand-Intermediate Demand (FD-ID) indexes, special commodity-grouping indexes, and inputs to industry indexes. This weight revision will not result in changes to the reference base for indexes, the dates when PPIs are set to 100.

It is important to note that the basic structures of the PPI commodity and FD-ID classification systems will not change as a result of the weight revision. However, PPIs classified according to the NAICS will be updated to reflect 2022 NAICS definitions established by the U.S. Census Bureau. The weight update also will result in shifting relative importance values. These shifts will impact aggregate indexes in a manner commensurate with the relative gains and losses in value weights from 2012 to 2017.

In addition, PPI sample updates normally occurring with the release of October 2022 and February 2023 data will be combined and released in conjunction with the release of January 2023 PPI data in February 2023.

Commodity and FD-ID relative importance figures for December 2022 will be released two business days prior to the release of January 2023 PPI data. This information will be available on the PPI website at www.bls.gov/ppi/tables/. Following the January 2023 PPI data release, a concordance between Census product codes and PPI commodity codes will be available upon request by contacting the PPI Section of Index Analysis and Public Information at ppi-info@bls.gov or (202) 691-7705.

Technical Note

Brief Explanation of Producer Price Indexes

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

More than 10,000 PPIs for individual products and groups of products are released each month. PPIs are available for the products of virtually every industry in the mining and manufacturing sectors. Over time, new PPIs have been introduced for products of industries in the services and construction sectors of the U.S. economy. As of January 2022, the PPI covered 71 percent of services as measured by 2012 Census revenue, and 31 percent of construction.

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

Final Demand–Intermediate Demand Indexes

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Comparing the PPI with CPI

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

Commodity Indexes

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

Industry Net-Output Price Indexes

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

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

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

Data Collection

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

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

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

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

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

Title	Code	<i>PPI Detailed Report Issue</i>
	SIC	
Wireless telecommunications	4812	July 1999
Telephone communications, except radio telephone	4813	July 1995
Television broadcasting	4833	July 2002
Grocery stores	5411	July 2000
Meat and fish (seafood) markets	5421	July 2000
Fruit and vegetable markets	5431	July 2000
Candy, nut, and confectionery stores ...	5441	July 2000
Retail bakeries	5461	July 2000

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

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

Weights

Weights for most commodity groupings of the PPI, as well as, weights for commodity-based aggregate indexes calculated from commodity groupings, such as FD-ID indexes, currently reflect 2012 values of shipments as reported in the *Census of Manufactures* and other sources. From January 2012 to December 2017, PPI weights were derived from 2007 shipment values. Industry indexes now are calculated under the 2017 NAICS structure utilizing 2012 value of shipment weights and 2007 net output ratios. The periodic update of the value weights used to calculate the PPI is done to more accurately reflect changes in production and marketing patterns in the economy.

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

Price Index Reference Base

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

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

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

Calculating Index Changes

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

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

Index point change

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

Index percent change

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

Seasonally Adjusted and Unadjusted Data

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

specialists, and commodity traders. It is the unadjusted data that are generally cited when escalating long-term contracts such as purchasing agreements or real estate leases. For more information, see *Price Adjustment Guide for Contracting Parties*, on the Web at: www.bls.gov/ppi/publications/price-adjustment-guide-for-contracting-parties.htm.

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

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

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

Since January 1988, the PPI has used Intervention Analysis Seasonal Adjustment methods to enhance the calculation of seasonal factors. With this technique, outlier values that may distort the seasonal pattern are removed from the data prior to applying the standard seasonal factor estimation procedure. For example, a possible economic cause for large price movements for petroleum-based products might have been the COVID-19 pandemic. In this case, intervention techniques allowed for better estimates of seasonally adjusted data. On the whole, very few series have required intervention. Out of over 400 seasonally adjusted commodity series, 76 were subject to intervention in 2022.

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

Producer Price Index Data on the Internet

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

Retrieving PPI data from the PPI Web site

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

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

EXAMPLES

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional information

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

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

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

Grouping	Commodity code		Relative Importance Dec. 2021 ¹	Unadjusted 12-month percent change ² Sept. 2021 to Sept. 2022 ^p	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			Apr. to May	May to June ^p	June to July ^p	July to Aug. ^p	Aug. to Sept. ^p
Final Demand									
Final demand.....	FD	4	100.000	8.5	0.8	1.0	-0.4	-0.2	0.4
Final demand goods.....	FD	41	33.128	11.3	1.5	2.2	-1.8	-1.1	0.4
Final demand foods.....	FD	411	5.743	11.9	0.4	-0.1	1.3	-0.1	1.2
Finished consumer foods ³	FD	4111	4.425	12.1	0.6	-0.4	2.3	-0.4	1.1
Finished consumer foods, crude.....	FD	41113	0.460	37.0	-0.5	-7.8	14.1	-7.7	11.6
Finished consumer foods, processed.....	FD	41112	3.965	9.6	0.7	0.5	1.0	0.6	-0.1
Government purchased foods.....	FD	4112	0.407	7.6	-0.5	0.2	1.6	0.2	-0.2
Foods for export.....	FD	4113	0.911	12.9	0.0	0.9	-3.4	1.2	2.5
Final demand energy.....	FD	412	5.972	24.2	4.8	8.9	-9.1	-5.6	0.7
Finished consumer energy goods ³	FD	4121	4.773	18.6	4.7	9.3	-9.4	-5.1	-0.1
Government purchased energy.....	FD	4122	0.834	43.9	4.7	7.5	-8.3	-7.1	3.6
Energy for export.....	FD	4123	0.365	53.8	5.5	7.1	-7.7	-7.2	2.3
Final demand goods less foods and energy.....	FD	413	21.412	7.5	0.7	0.5	0.2	0.2	0.0
Finished goods less foods and energy ³	FD	4131	12.084	8.4	0.8	0.7	0.5	0.5	0.2
Finished consumer goods less foods and energy.....	FD	41311	6.448	8.0	0.9	0.7	0.6	0.5	0.2
Nondurable consumer goods less foods and energy.....	FD	413111	4.061	8.4	1.1	0.8	0.6	0.6	0.3
Durable consumer goods.....	FD	413112	2.387	7.3	0.6	0.5	0.6	0.4	0.1
Private capital equipment.....	FD	41312	5.636	8.8	0.7	0.8	0.5	0.4	0.3
Private capital equipment for manufacturing industries.....	FD	413121	1.256	10.6	0.9	0.6	0.5	0.2	0.3
Private capital equipment for nonmanufacturing industries.....	FD	413122	4.380	8.3	0.7	0.8	0.5	0.5	0.2
Government purchased goods, excluding foods and energy.....	FD	4132	2.255	8.9	1.1	0.6	0.6	0.1	0.0
Government purchased goods excluding foods, energy, and capital equipment.....	FD	41321	1.338	11.7	1.5	0.7	0.8	-0.1	0.0
Government purchased capital equipment.....	FD	41322	0.917	4.8	0.5	0.5	0.3	0.2	-0.1
Goods for export, excluding foods and energy.....	FD	4133	7.073	5.6	0.4	0.0	-0.6	-0.3	-0.3
Final demand services.....	FD	42	65.132	6.8	0.4	0.4	0.2	0.3	0.4
Final demand trade services ⁴	FD	423	20.434	12.7	0.6	0.8	0.8	0.5	0.1
Trade of finished goods ³	FD	4231	17.549	12.6	0.6	0.9	0.7	0.7	0.0
Trade of personal consumption goods.....	FD	42311	14.295	11.8	0.9	0.9	0.7	1.5	-0.1
Trade of private capital equipment.....	FD	42312	3.254	16.0	-0.7	0.8	1.0	-2.6	0.5
Trade of government purchased goods.....	FD	4232	0.761	15.5	0.4	0.7	1.3	-1.3	0.9
Trade of government purchased goods, excluding capital equipment.....	FD	42321	0.474	14.1	1.7	0.8	0.9	0.1	1.0
Trade of government purchased capital equipment.....	FD	42322	0.287	17.9	-1.7	0.6	1.9	-3.7	0.7
Trade of exports.....	FD	4233	2.124	12.6	0.5	0.2	1.0	-1.2	0.6
Final demand transportation and warehousing services.....	FD	422	4.396	17.8	2.5	0.8	-0.7	-0.9	-0.2
Transportation of passengers for final demand.....	FD	4221	1.113	26.0	3.7	3.9	-2.8	0.7	-0.5
Transportation of private passengers.....	FD	42211	0.752	25.9	3.7	3.9	-2.8	0.7	-0.5
Transportation of government passengers.....	FD	42212	0.090	25.6	3.7	3.9	-2.8	0.7	-0.5
Transportation of passengers for export.....	FD	42213	0.271	26.4	3.8	3.9	-2.9	0.7	-0.5
Transportation and warehousing of goods for final demand.....	FD	4222	3.283	15.2	2.1	-0.3	0.1	-1.4	-0.1
Transportation and warehousing of finished goods ³	FD	42221	2.160	15.3	2.1	-0.3	0.0	-1.5	-0.2
Transportation and warehousing of personal consumption goods.....	FD	422211	1.734	15.1	2.1	-0.3	0.1	-1.5	-0.1
Transportation and warehousing of private capital equipment.....	FD	422212	0.426	16.0	2.3	-0.3	-0.2	-1.6	-0.2
Transportation and warehousing of government purchased goods.....	FD	42222	0.198	14.1	1.6	0.1	0.7	-1.4	0.0
Transportation and warehousing of exports.....	FD	42223	0.925	15.0	2.1	-0.3	0.0	-1.3	0.0
Final demand services less trade, transportation, and warehousing.....	FD	421	40.301	2.7	0.1	0.2	0.0	0.4	0.6
Finished services less trade, transportation, and warehousing ³	FD	4211	35.337	2.8	0.1	0.3	0.0	0.3	0.6
Finished consumer services less trade, transportation, and warehousing.....	FD	42111	31.663	2.3	0.0	0.2	0.0	0.2	0.6
Private capital investment services less trade, transportation, and warehousing.....	FD	42112	3.674	7.7	1.0	0.7	0.1	0.6	0.8
Government purchased services less trade, transportation, and warehousing.....	FD	4212	2.482	2.2	0.0	-0.3	-0.3	0.7	0.5
Gov. purchased services less trade, transportation, and warehousing, excl. capital investment.....	FD	42121	2.376	2.2	0.0	-0.3	-0.3	0.8	0.5
Government purchased capital investment services less trade, transportation, and warehousing.....	FD	42122	0.106	1.0	0.6	0.1	0.3	-0.5	0.5
Services for export less trade, transportation, and warehousing.....	FD	4213	2.482	1.8	0.5	-0.7	-0.4	1.6	0.6
Final demand construction.....	FD	43	1.740	23.1	0.4	0.5	5.0	0.3	0.4
Construction for private capital investment.....	FD	431	1.133	25.4	0.4	0.6	5.3	0.3	0.4
Construction for government.....	FD	432	0.606	18.9	0.5	0.5	4.3	0.2	0.4
Special Groupings of Final Demand									
Final demand less exports.....	FD	49101	85.849	8.5	0.8	1.1	-0.3	-0.2	0.4
Final demand less government.....	FD	49102	92.367	8.2	0.8	1.0	-0.4	-0.1	0.4

See footnotes at end of table.

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

Grouping	Commodity code		Relative Importance Dec. 2021 ¹	Unadjusted 12-month percent change ² Sept. 2021 to Sept. 2022 ^P	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			Apr. to May	May to June ^P	June to July ^P	July to Aug. ^P	Aug. to Sept. ^P
Final demand less foods, food and nonalcoholic beverages for immediate consumption, and energy ⁵	FD	49103	87.780	7.3	0.5	0.4	0.3	0.3	0.3
Final demand less foods and energy ⁵	FD	49104	88.285	7.2	0.5	0.4	0.3	0.3	0.3
Final demand less foods and food and nonalcoholic beverages for immediate consumption ⁵	FD	49105	93.752	8.5	0.8	1.1	-0.6	-0.2	0.3
Final demand less foods ⁵	FD	49106	94.257	8.3	0.8	1.1	-0.5	-0.2	0.3
Final demand less energy.....	FD	49107	94.028	7.5	0.5	0.4	0.3	0.2	0.4
Final demand less trade services.....	FD	49108	79.566	7.5	0.9	1.1	-0.7	-0.3	0.5
Final demand less distributive services ⁶	FD	49109	76.283	7.2	0.8	1.2	-0.8	-0.3	0.5
Final demand goods less energy.....	FD	49111	27.155	8.4	0.6	0.3	0.4	0.1	0.3
Final demand goods less foods.....	FD	49112	27.384	11.2	1.7	2.7	-2.4	-1.3	0.2
Final demand services less trade services.....	FD	49113	44.697	4.1	0.4	0.2	-0.1	0.2	0.5
Final demand distributive services ⁶	FD	49114	23.717	13.0	0.8	0.6	0.7	0.2	0.1
Final demand goods plus final demand distributive services ⁶	FD	49115	56.844	12.0	1.2	1.6	-0.8	-0.6	0.2
Final demand less foods, energy, and trade services ⁵	FD	49116	67.851	5.6	0.5	0.3	0.1	0.2	0.4
Private and government purchased capital equipment.....	FD	49117	6.553	8.3	0.7	0.7	0.5	0.4	0.2
Private and government purchased capital investment services.....	FD	49118	7.747	11.8	0.2	0.7	0.6	-1.1	0.6
Total private and government purchased capital investment.....	FD	49119	14.300	11.5	0.4	0.7	1.0	-0.3	0.4
Total finished ³	FD	49201	78.213	8.2	0.8	1.1	-0.3	-0.1	0.4
Total finished less foods, food and nonalcoholic beverages for immediate consumption, and energy ^{3, 5}	FD	49202	68.515	7.3	0.5	0.5	0.4	0.4	0.4
Total finished less foods and energy ^{3, 5}	FD	49203	69.015	7.2	0.5	0.5	0.4	0.4	0.4
Total finished less foods and food and nonalcoholic beverages for immediate consumption ⁵	FD	49204	73.288	8.1	0.8	1.2	-0.5	-0.1	0.3
Total finished less foods ^{3, 5}	FD	49205	73.788	8.0	0.8	1.2	-0.5	-0.1	0.3
Total finished less energy ³	FD	49206	73.440	7.5	0.5	0.5	0.5	0.3	0.4
Finished goods ³	FD	49207	21.282	11.5	1.7	2.7	-1.8	-1.1	0.3
Finished goods less energy ³	FD	49208	16.509	9.4	0.8	0.4	1.0	0.3	0.5
Finished goods, excluding foods ^{3, 5}	FD	49209	16.857	11.3	2.0	3.5	-2.9	-1.3	0.1
Finished services ³	FD	49210	55.798	6.6	0.4	0.5	0.2	0.3	0.4
Private capital investment services.....	FD	49211	7.354	11.7	0.3	0.7	0.5	-1.0	0.6
Finished distributive services ^{3, 6}	FD	49212	19.709	12.8	0.8	0.7	0.7	0.5	0.0
Finished services less trade services ³	FD	49213	38.249	3.9	0.3	0.3	0.0	0.2	0.6
Finished services less distributive services ^{3, 6}	FD	49214	36.089	3.3	0.2	0.3	0.0	0.3	0.6
Total private capital investment (goods, services, and construction).....	FD	49215	14.123	11.6	0.5	0.7	0.9	-0.3	0.4
Finished goods plus finished distributive services ^{3, 6}	FD	49216	40.991	12.1	1.3	1.8	-0.7	-0.4	0.2
Total exports.....	FD	49301	14.151	8.6	0.8	0.3	-0.9	-0.3	0.3
Goods for export.....	FD	49302	8.349	8.4	0.7	0.6	-1.5	-0.6	0.1
Services for export.....	FD	49303	5.802	8.8	0.9	0.0	0.0	0.0	0.4
Total government purchases.....	FD	49401	7.633	12.1	1.1	1.4	-0.7	-0.9	0.7
Government purchased goods.....	FD	49402	3.496	17.0	2.0	2.7	-2.1	-2.1	1.0
Government purchased services.....	FD	49403	3.531	6.2	0.3	0.1	0.0	0.1	0.5
Total government purchased capital investment (goods, services, construction).....	FD	49404	1.916	10.9	0.2	0.5	1.9	-0.4	0.2
Government purchases, defense.....	FD	49405	2.357	10.9	1.1	0.9	-0.8	-1.8	0.7
Government purchases, non-defense.....	FD	49406	5.276	12.8	1.2	1.7	-0.7	-0.6	0.7
Personal consumption.....	FD	49501	64.090	7.4	0.9	1.2	-0.6	0.0	0.4
Personal consumption goods (finished consumer goods).....	FD	49502	15.646	12.4	2.1	3.4	-2.6	-1.6	0.4
Personal consumption goods less energy.....	FD	49503	10.873	9.6	0.8	0.2	1.3	0.2	0.6
Personal consumption goods less foods.....	FD	49504	11.221	12.6	2.7	4.8	-4.4	-2.1	0.1
Personal consumption nondurable goods less foods.....	FD	49508	8.834	14.0	3.2	5.8	-5.5	-2.7	0.1
Personal consumption services.....	FD	49505	48.444	5.8	0.4	0.5	0.2	0.6	0.4
Personal consumption less trade services.....	FD	49506	49.795	6.2	0.8	1.3	-0.9	-0.5	0.5
Personal consumption less distributive services ⁶	FD	49507	48.061	5.9	0.8	1.4	-1.0	-0.4	0.5
Personal consumption less foods and energy.....	FD	49510	54.892	6.1	0.5	0.5	0.2	0.6	0.3
Personal consumption less foods, energy, and trade services ⁴	FD	49511	40.597	4.1	0.3	0.3	0.1	0.2	0.5
Personal consumption less foods, energy, and distributive services ⁶	FD	49512	38.863	3.6	0.2	0.4	0.1	0.3	0.5
Personal consumption goods plus personal consumption distributive services ⁶	FD	49509	31.675	12.3	1.6	2.1	-1.1	-0.2	0.1
Intermediate Demand by Commodity Type									
Processed goods									
Processed goods for intermediate demand.....	ID6	1	100.000	13.1	2.3	2.0	-2.2	-1.5	0.1
Materials and components for manufacturing.....	ID6	11	45.927	5.1	2.2	-0.2	-0.6	-1.5	-1.0
Materials for manufacturing.....	ID6	111	30.390	3.1	2.8	-0.6	-1.2	-2.5	-1.7
Materials for food manufacturing.....	ID6	1111	4.084	9.8	1.3	-0.4	-0.5	-0.8	-1.1
Materials for nondurable manufacturing.....	ID6	1112	13.045	7.9	2.4	0.5	0.2	-3.0	-0.4
Materials for durable manufacturing.....	ID6	1113	13.261	-4.0	3.8	-1.9	-2.8	-2.6	-3.4
Components for manufacturing.....	ID6	112	15.537	9.1	0.9	0.6	0.4	0.3	0.2

See footnotes at end of table.

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

Grouping	Commodity code		Relative Importance Dec. 2021 ¹	Unadjusted 12-month percent change ² Sept. 2021 to Sept. 2022 ^P	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			Apr. to May	May to June ^P	June to July ^P	July to Aug. ^P	Aug. to Sept. ^P
Components for nondurable manufacturing.....	ID6	1121	0.800	12.6	0.9	1.3	0.7	0.8	-0.4
Components for durable manufacturing.....	ID6	1122	14.737	8.9	0.9	0.6	0.3	0.3	0.2
Materials and components for construction.....	ID6	12	9.074	14.3	0.9	-0.2	0.2	0.4	-0.4
Materials for construction.....	ID6	121	3.869	13.1	0.2	-1.7	-0.1	0.5	-0.4
Components for construction.....	ID6	122	5.205	15.2	1.3	0.9	0.4	0.3	-0.3
Processed fuels and lubricants for intermediate demand.....	ID6	13	18.757	33.8	4.5	8.8	-8.8	-4.6	2.6
Processed fuels and lubricants to manufacturing industries.....	ID6	131	4.683	29.4	3.7	5.0	-3.9	-2.2	2.0
Processed fuels and lubricants to nonmanufacturing industries.....	ID6	132	14.074	35.4	4.8	10.0	-10.3	-5.3	2.8
Containers for intermediate demand.....	ID6	14	2.795	18.0	1.7	1.0	0.2	1.3	0.2
Supplies for intermediate demand.....	ID6	15	23.448	11.1	1.2	0.5	0.4	0.3	0.0
Supplies to manufacturing industries.....	ID6	151	3.227	9.6	0.7	0.3	0.3	0.3	0.0
Supplies to nonmanufacturing industries.....	ID6	152	20.221	11.3	1.2	0.5	0.5	0.3	0.0
Supplies to nonmanufacturing industries, feeds.....	ID6	1521	1.743	16.3	1.1	0.8	1.1	1.8	1.0
Supplies to nonmanufacturing industries, other than feeds.....	ID6	1522	18.478	10.8	1.2	0.5	0.4	0.2	-0.2
Unprocessed goods									
Unprocessed goods for intermediate demand.....	ID6	2	100.000	34.2	5.4	4.7	-9.4	5.3	0.3
Unprocessed foodstuffs and feedstuffs.....	ID6	21	32.603	21.3	0.2	-0.3	-1.7	-1.3	0.1
Unprocessed nonfood materials.....	ID6	22	67.398	40.2	7.8	7.0	-12.6	8.3	0.4
Unprocessed nonfood materials except fuel.....	ID6	221	44.822	12.2	-1.2	5.3	-11.7	-2.5	-1.5
Unprocessed nonfood materials except fuel to manufacturing industries.....	ID6	2211	42.852	12.2	-1.3	5.4	-12.2	-2.7	-1.6
Unprocessed nonfood materials except fuel to nonmanufacturing industries.....	ID6	2212	1.970	11.9	0.7	2.2	1.0	0.8	0.7
Unprocessed fuel.....	ID6	222	22.576	100.0	27.2	9.8	-14.1	26.2	2.9
Unprocessed fuel to manufacturing industries.....	ID6	2221	1.143	75.6	10.5	8.2	-2.9	7.0	2.0
Unprocessed fuel to nonmanufacturing industries.....	ID6	2222	21.433	101.4	28.3	9.9	-14.7	27.3	2.9
Services									
Services for intermediate demand.....	ID6	3	100.000	6.2	0.5	-0.4	0.3	0.8	0.3
Trade services for intermediate demand ⁴	ID6	33	22.377	9.2	0.6	-0.8	-0.1	-0.6	0.3
Trade services for manufacturing industries.....	ID6	331	11.472	7.9	1.5	-1.0	0.0	-0.8	0.3
Trade services for nonmanufacturing industries.....	ID6	332	10.905	10.6	-0.3	-0.7	-0.2	-0.4	0.3
Transportation and warehousing services for intermediate demand.....	ID6	32	13.264	8.9	0.6	0.1	1.0	-0.2	-0.7
Transportation of passengers for intermediate demand.....	ID6	321	0.984	25.6	3.7	3.9	-2.8	0.7	-0.5
Transportation of passengers for manufacturing industries.....	ID6	3211	0.116	26.3	3.8	3.9	-2.9	0.7	-0.5
Transportation of passengers for nonmanufacturing industries.....	ID6	3212	0.868	25.5	3.7	3.9	-2.8	0.7	-0.5
Transportation and warehousing of goods for intermediate demand.....	ID6	322	12.280	7.6	0.3	-0.2	1.3	-0.2	-0.8
Transportation and warehousing of goods for manufacturing industries.....	ID6	3221	2.498	14.8	2.4	0.0	0.5	-0.9	0.3
Transportation and warehousing of goods for nonmanufacturing industries.....	ID6	3222	9.782	5.8	-0.3	-0.3	1.5	-0.1	-1.0
Services less trade, transportation, and warehousing for intermediate demand.....	ID6	31	64.359	4.5	0.4	-0.3	0.3	1.5	0.5
Services less trade, transportation, and warehousing for manufacturing industries.....	ID6	311	2.040	6.2	0.2	0.1	0.5	0.4	0.1
Services less trade, transportation, and warehousing for nonmanufacturing industries.....	ID6	312	62.318	4.5	0.4	-0.3	0.2	1.5	0.5
Construction									
Construction for intermediate demand.....	ID6	4	100.000	11.0	1.9	1.0	1.2	0.1	0.4
Special Groupings of Intermediate Demand by Commodity Type									
Processed materials less foods and feeds.....	ID6	9111	92.100	13.3	2.4	2.2	-2.5	-1.7	0.1
Processed foods and feeds.....	ID6	9112	7.900	10.8	1.1	0.0	0.2	0.0	-0.5
Processed energy goods.....	ID6	9113	18.757	33.9	4.5	8.8	-8.8	-4.6	2.6
Processed materials less energy.....	ID6	9118	81.243	8.3	1.7	0.0	-0.2	-0.7	-0.6
Processed materials less foods and energy.....	ID6	9115	73.343	8.0	1.8	0.0	-0.2	-0.7	-0.6
Intermediate distributive services ⁷	ID6	9116	34.657	8.7	0.5	-0.6	0.4	-0.5	-0.1
Processed goods plus intermediate distributive services.....	ID6	9117	-	11.8	1.8	1.2	-1.5	-1.2	0.0
Unprocessed materials less agricultural products.....	ID6	9211	62.340	42.1	8.8	7.4	-12.7	9.1	-0.1
Unprocessed energy materials ⁸	ID6	9212	42.130	66.6	14.6	11.0	-14.6	12.1	0.5
Unprocessed materials less energy.....	ID6	9213	57.870	12.2	-1.7	-0.9	-4.0	-0.6	0.3
Unprocessed nonfood materials less energy ⁹	ID6	9216	25.267	-0.1	-4.2	-2.0	-7.2	0.7	0.6
Intermediate Demand by Production Flow									
Stage 4 Intermediate Demand									
Stage 4 intermediate demand.....	ID5	4	100.000	8.4	0.9	0.3	-0.4	0.4	0.3
Inputs to stage 4 goods producers.....	ID5	41	32.865	9.3	1.3	0.2	-0.3	-0.3	0.1
Goods.....	ID5	411	23.183	9.3	1.5	0.3	-0.6	0.1	0.0

See footnotes at end of table.

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

Grouping	Commodity code		Relative Importance Dec. 2021 ¹	Unadjusted 12-month percent change ² Sept. 2021 to Sept. 2022 ^P	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			Apr. to May	May to June ^P	June to July ^P	July to Aug. ^P	Aug. to Sept. ^P
Foods.....	ID5	4111	3.188	15.2	1.4	-0.1	-2.8	0.6	1.8
Energy.....	ID5	4112	0.189	27.7	4.2	6.3	-8.0	-3.4	0.3
Goods excluding foods and energy.....	ID5	4113	19.806	8.2	1.5	0.3	-0.2	0.0	-0.3
Services.....	ID5	412	9.682	9.2	0.9	-0.1	0.3	-1.0	0.4
Trade services.....	ID5	4123	7.732	9.6	0.9	-0.2	0.4	-1.3	0.5
Transportation and warehousing services.....	ID5	4122	0.475	13.8	2.1	0.8	-0.1	-0.7	0.0
Transportation of passengers.....	ID5	41221	0.066	26.4	3.8	3.9	-2.9	0.7	-0.5
Transportation and warehousing of goods.....	ID5	41222	0.409	11.9	1.8	0.3	0.4	-1.0	0.1
Services less trade, transportation, and warehousing.....	ID5	4121	1.475	5.8	0.3	0.3	0.3	0.4	0.2
Inputs to stage 4 services producers.....	ID5	42	52.483	6.8	0.5	0.3	-0.2	1.2	0.5
Goods.....	ID5	421	13.894	12.5	1.1	2.1	-0.7	0.1	0.3
Foods.....	ID5	4211	2.353	5.6	-0.3	0.3	1.2	-0.4	-1.4
Energy.....	ID5	4212	3.737	22.0	2.1	6.1	-3.4	-0.4	1.7
Goods excluding foods and energy.....	ID5	4213	7.804	9.9	0.9	0.6	0.2	0.5	0.1
Services.....	ID5	422	38.503	4.8	0.3	-0.4	0.0	1.6	0.6
Trade services.....	ID5	4223	4.524	13.0	1.4	0.4	0.6	0.2	1.0
Transportation and warehousing services.....	ID5	4222	3.277	8.9	-0.5	1.1	1.7	-0.8	-0.6
Transportation of passengers.....	ID5	42221	0.421	26.1	3.8	3.9	-2.9	0.7	-0.5
Transportation and warehousing of goods.....	ID5	42222	2.856	6.5	-1.1	0.6	2.4	-1.0	-0.6
Services less trade, transportation, and warehousing.....	ID5	4221	30.702	3.2	0.2	-0.7	-0.2	2.1	0.6
Construction.....	ID5	423	0.086	11.0	1.9	1.0	1.2	0.1	0.4
Inputs to stage 4 construction producers.....	ID5	43	14.650	12.4	1.2	0.6	-1.5	-0.9	-0.2
Goods.....	ID5	431	10.502	15.0	1.4	1.2	-1.7	-0.7	-0.2
Energy.....	ID5	4312	0.844	30.8	7.1	13.9	-14.7	-10.3	0.2
Goods excluding foods and energy.....	ID5	4313	9.658	13.6	0.8	-0.3	0.0	0.5	-0.3
Services.....	ID5	432	4.148	5.9	0.8	-1.2	-0.9	-1.4	-0.1
Trade services.....	ID5	4323	2.051	3.3	0.6	-2.8	-1.9	-2.8	-0.1
Transportation and warehousing services.....	ID5	4322	0.612	15.3	2.0	-0.1	-0.2	-1.5	-0.1
Transportation of passengers.....	ID5	43221	0.013	26.3	3.8	3.9	-2.9	0.7	-0.5
Transportation and warehousing of goods.....	ID5	43222	0.599	15.0	2.0	-0.2	-0.1	-1.6	-0.1
Services less trade, transportation, and warehousing.....	ID5	4321	1.485	5.9	0.4	0.7	0.2	0.7	0.1
Stage 3 Intermediate Demand									
Stage 3 intermediate demand.....	ID5	3	100.000	10.8	1.7	0.5	-1.4	-1.6	-0.1
Inputs to stage 3 goods producers.....	ID5	31	49.802	9.8	2.1	-0.3	-1.2	-2.1	-1.0
Goods.....	ID5	311	40.208	10.4	2.2	0.0	-1.4	-2.3	-1.2
Foods.....	ID5	3111	11.423	23.1	0.2	-0.6	-1.2	-2.0	-1.2
Energy.....	ID5	3112	1.551	44.0	8.3	6.7	-9.0	-5.0	-0.5
Goods excluding foods and energy.....	ID5	3113	27.234	3.5	2.7	-0.3	-0.9	-2.3	-1.3
Services.....	ID5	312	9.594	7.7	2.0	-1.4	-0.4	-0.9	0.0
Trade services.....	ID5	3123	5.774	4.2	2.0	-2.6	-0.9	-1.1	0.1
Transportation and warehousing services.....	ID5	3122	2.538	15.6	2.6	0.1	0.0	-1.0	-0.2
Transportation of passengers.....	ID5	31221	0.120	26.3	3.8	3.9	-2.9	0.7	-0.5
Transportation and warehousing of goods.....	ID5	31222	2.418	15.1	2.5	-0.1	0.1	-1.1	-0.2
Services less trade, transportation, and warehousing.....	ID5	3121	1.282	8.1	0.3	0.4	0.7	0.5	0.1
Inputs to stage 3 services producers.....	ID5	32	48.823	11.8	1.2	1.5	-1.5	-1.1	0.8
Goods.....	ID5	321	10.251	35.6	3.9	6.0	-7.3	-6.0	3.2
Foods.....	ID5	3211	0.088	15.1	-0.5	0.5	1.3	2.8	1.4
Energy.....	ID5	3212	6.099	52.2	5.2	8.5	-10.5	-8.8	4.8
Goods excluding foods and energy.....	ID5	3213	4.064	11.0	1.3	0.6	0.2	-0.2	0.0
Services.....	ID5	322	37.657	5.5	0.3	-0.2	0.7	0.6	0.0
Trade services.....	ID5	3223	2.600	15.6	2.4	0.4	0.8	0.3	1.5
Transportation and warehousing services.....	ID5	3222	8.909	2.9	-0.8	-0.6	1.6	0.5	-1.6
Transportation of passengers.....	ID5	32221	0.022	2.9	0.2	1.8	0.0	0.2	-0.3
Transportation and warehousing of goods.....	ID5	32222	8.887	2.9	-0.8	-0.6	1.6	0.5	-1.6
Services less trade, transportation, and warehousing.....	ID5	3221	26.148	5.3	0.4	-0.1	0.4	0.7	0.4
Construction.....	ID5	323	0.915	11.0	1.9	1.0	1.2	0.1	0.4
Inputs to stage 3 construction producers.....	ID5	33	1.376	7.5	-1.4	-2.5	-2.6	-1.8	-0.1
Goods.....	ID5	331	0.574	12.9	0.3	-1.6	-0.8	0.4	-0.6
Goods excluding foods and energy.....	ID5	3313	0.574	12.9	0.3	-1.6	-0.8	0.4	-0.6
Services.....	ID5	332	0.802	3.9	-2.5	-3.2	-3.8	-3.3	0.3
Trade services.....	ID5	3323	0.760	3.5	-2.7	-3.3	-4.0	-3.5	0.3
Transportation and warehousing services.....	ID5	3322	0.015	14.2	3.4	0.8	1.1	0.1	0.1
Transportation and warehousing of goods.....	ID5	33222	0.015	14.2	3.4	0.8	1.1	0.1	0.1
Services less trade, transportation, and warehousing.....	ID5	3321	0.027	10.1	0.8	0.5	0.8	1.3	0.0
Stage 2 Intermediate Demand									

See footnotes at end of table.

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

Grouping	Commodity code		Relative Importance Dec. 2021 ¹	Unadjusted 12-month percent change ² Sept. 2021 to Sept. 2022 ^P	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			Apr. to May	May to June ^P	June to July ^P	July to Aug. ^P	Aug. to Sept. ^P
Stage 2 intermediate demand.....	ID5	2	100.000	18.6	3.6	2.9	-4.3	3.5	-0.1
Inputs to stage 2 goods producers.....	ID5	21	55.017	28.2	6.0	4.7	-7.5	5.1	-0.1
Goods.....	ID5	211	42.903	33.3	7.3	5.7	-9.3	6.0	-0.1
Foods.....	ID5	2111	3.172	17.6	0.7	1.9	-4.8	3.0	2.8
Energy.....	ID5	2112	20.215	63.3	14.2	10.6	-14.6	11.5	0.2
Goods excluding foods and energy.....	ID5	2113	19.516	5.3	-0.2	-0.7	-1.5	-1.2	-1.2
Services.....	ID5	212	11.646	10.4	0.9	0.3	1.3	1.1	0.1
Trade services.....	ID5	2123	5.347	11.1	0.3	0.0	1.4	1.3	-0.5
Transportation and warehousing services.....	ID5	2122	3.332	11.2	1.9	0.4	1.2	0.3	1.1
Transportation of passengers.....	ID5	21221	0.156	24.6	3.6	3.8	-2.7	0.6	-0.5
Transportation and warehousing of goods.....	ID5	21222	3.176	10.7	1.8	0.1	1.4	0.2	1.2
Services less trade, transportation, and warehousing.....	ID5	2121	2.967	8.4	0.7	0.6	1.2	1.5	0.4
Construction.....	ID5	213	0.468	11.0	1.9	1.0	1.2	0.1	0.4
Inputs to stage 2 services producers.....	ID5	22	44.982	7.1	0.4	0.2	0.6	1.3	-0.1
Goods.....	ID5	221	5.753	12.8	2.0	1.7	-1.0	-0.1	-0.1
Foods.....	ID5	2211	0.032	14.5	0.3	0.1	0.3	0.7	0.0
Energy.....	ID5	2212	0.393	42.8	10.3	13.8	-15.1	-4.2	2.7
Goods excluding foods and energy.....	ID5	2213	5.328	10.9	1.4	0.6	0.4	0.2	-0.3
Services.....	ID5	222	37.664	6.1	0.1	-0.1	0.9	1.6	-0.1
Trade services.....	ID5	2223	2.497	18.6	-6.0	0.6	3.8	4.5	-2.1
Transportation and warehousing services.....	ID5	2222	3.167	-2.2	-1.6	-1.8	0.5	2.1	-4.9
Transportation of passengers.....	ID5	22221	0.356	26.1	3.8	3.9	-2.8	0.7	-0.5
Transportation and warehousing of goods.....	ID5	22222	2.811	-5.5	-2.3	-2.6	1.0	2.3	-5.6
Services less trade, transportation, and warehousing.....	ID5	2221	32.000	6.0	0.8	0.1	0.7	1.3	0.6
Construction.....	ID5	223	1.565	11.0	1.9	1.0	1.2	0.1	0.4
Stage 1 Intermediate Demand									
Stage 1 intermediate demand.....	ID5	1	100.000	10.8	1.5	1.0	-1.8	-0.5	0.5
Inputs to stage 1 goods producers.....	ID5	11	35.307	8.4	2.6	0.5	-2.6	-1.1	-0.2
Goods.....	ID5	111	25.965	9.9	2.8	1.2	-3.3	-1.5	-0.1
Foods.....	ID5	1111	3.181	19.1	0.4	0.9	-5.4	1.9	5.2
Energy.....	ID5	1112	3.712	34.8	7.5	9.5	-9.9	-1.3	2.0
Goods excluding foods and energy.....	ID5	1113	19.072	3.9	2.3	-0.6	-1.4	-2.1	-1.6
Services.....	ID5	112	9.341	4.4	1.8	-1.4	-0.7	0.0	-0.3
Trade services.....	ID5	1123	6.053	3.4	2.0	-2.4	-0.6	-0.6	-0.5
Transportation and warehousing services.....	ID5	1122	0.488	21.8	5.4	1.5	0.5	1.0	-0.2
Transportation of passengers.....	ID5	11221	0.084	26.4	3.8	3.9	-2.9	0.7	-0.5
Transportation and warehousing of goods.....	ID5	11222	0.404	20.6	5.7	1.1	1.0	1.1	-0.1
Services less trade, transportation, and warehousing.....	ID5	1121	2.800	3.5	0.7	0.2	-1.2	1.0	0.2
Construction.....	ID5	113	0.001	11.0	1.9	1.0	1.2	0.1	0.4
Inputs to stage 1 services producers.....	ID5	12	51.790	11.6	1.1	1.4	-1.1	0.2	1.0
Goods.....	ID5	121	17.196	21.8	2.0	4.2	-3.3	-1.9	1.6
Foods.....	ID5	1211	0.051	74.2	7.8	-9.1	-2.9	-3.4	-5.7
Energy.....	ID5	1212	5.758	38.2	3.0	9.7	-9.1	-5.8	4.2
Goods excluding foods and energy.....	ID5	1213	11.387	13.1	1.3	0.7	0.7	0.6	0.1
Services.....	ID5	122	34.589	6.6	0.7	-0.2	0.2	1.3	0.6
Trade services.....	ID5	1223	3.797	14.3	1.3	0.2	0.7	0.0	1.0
Transportation and warehousing services.....	ID5	1222	3.611	14.6	1.9	1.2	0.3	-0.2	-0.2
Transportation of passengers.....	ID5	12221	1.098	26.4	3.8	3.9	-2.9	0.7	-0.5
Transportation and warehousing of goods.....	ID5	12222	2.513	9.8	1.0	-0.1	1.9	-0.6	-0.1
Services less trade, transportation, and warehousing.....	ID5	1221	27.181	4.5	0.4	-0.5	0.1	1.8	0.7
Construction.....	ID5	123	0.005	11.0	1.9	1.0	1.2	0.1	0.4
Inputs to stage 1 construction producers.....	ID5	13	12.903	13.7	0.2	0.6	-2.2	-1.5	0.7
Goods.....	ID5	131	8.482	18.5	1.2	2.3	-1.6	-0.8	0.9
Energy.....	ID5	1312	0.827	59.2	3.0	11.9	-12.5	-9.2	7.2
Goods excluding foods and energy.....	ID5	1313	7.655	14.0	0.9	0.8	0.3	0.5	0.1
Services.....	ID5	132	4.421	5.1	-1.4	-2.7	-3.2	-2.9	0.2
Trade services.....	ID5	1323	3.756	3.4	-2.0	-3.1	-3.7	-3.2	0.3
Transportation and warehousing services.....	ID5	1322	0.609	16.6	2.3	-0.4	-0.4	-1.7	-0.3
Transportation and warehousing of goods.....	ID5	13222	0.609	16.6	2.3	-0.4	-0.4	-1.7	-0.3
Services less trade, transportation, and warehousing.....	ID5	1321	0.056	9.5	1.1	1.2	0.0	3.0	0.1
Special Groupings of Intermediate Demand by Production Flow									
Total goods inputs to stage 4 intermediate demand.....	ID5	9411	47.579	11.5	1.4	1.1	-0.9	-0.1	0.0
Total services inputs to stage 4 intermediate demand.....	ID5	9412	52.333	5.7	0.4	-0.4	0.0	0.9	0.5
Total construction inputs to stage 4 intermediate demand.....	ID5	9413	0.086	11.0	1.9	1.0	1.2	0.1	0.4
Total foods inputs to stage 4 intermediate demand.....	ID5	9414	5.541	11.0	0.7	0.1	-1.2	0.2	0.5

See footnotes at end of table.

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

Grouping	Commodity code		Relative Importance Dec. 2021 ¹	Unadjusted 12-month percent change ² Sept. 2021 to Sept. 2022 ^p	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			Apr. to May	May to June ^p	June to July ^p	July to Aug. ^p	Aug. to Sept. ^p
Total energy goods inputs to stage 4 intermediate demand.....	ID5	9415	4.770	23.7	3.3	7.8	-6.1	-2.5	1.4
Total goods less foods and energy inputs to stage 4 intermediate demand.	ID5	9416	37.268	9.9	1.2	0.2	0.0	0.2	-0.2
Total goods inputs to stage 3 intermediate demand.....	ID5	9311	51.033	15.6	2.6	1.4	-2.9	-3.2	-0.2
Total services inputs to stage 3 intermediate demand.....	ID5	9312	48.053	5.9	0.6	-0.5	0.4	0.2	0.0
Total construction inputs to stage 3 intermediate demand.....	ID5	9313	0.915	11.0	1.9	1.0	1.2	0.1	0.4
Total foods inputs to stage 3 intermediate demand.....	ID5	9314	11.511	23.0	0.2	-0.5	-1.1	-2.0	-1.2
Total energy goods inputs to stage 3 intermediate demand.....	ID5	9315	7.650	50.6	5.7	8.1	-10.2	-8.1	3.8
Total goods less foods and energy inputs to stage 3 intermediate demand.	ID5	9316	31.872	4.7	2.5	-0.2	-0.8	-2.0	-1.1
Total goods inputs to stage 2 intermediate demand.....	ID5	9211	48.656	31.1	6.8	5.4	-8.6	5.4	-0.1
Total services inputs to stage 2 intermediate demand.....	ID5	9212	49.310	7.1	0.3	0.0	1.0	1.5	0.0
Total construction inputs to stage 2 intermediate demand.....	ID5	9213	2.033	11.0	1.9	1.0	1.2	0.1	0.4
Total foods inputs to stage 2 intermediate demand.....	ID5	9214	3.204	17.6	0.7	1.9	-4.8	3.0	2.8
Total energy goods inputs to stage 2 intermediate demand.....	ID5	9215	20.608	62.9	14.1	10.6	-14.7	11.2	0.2
Total goods less foods and energy inputs to stage 2 intermediate demand.	ID5	9216	24.844	6.5	0.1	-0.4	-1.1	-0.9	-1.0
Total goods inputs to stage 1 intermediate demand.....	ID5	9111	51.643	15.2	2.3	2.4	-3.0	-1.5	0.6
Total services inputs to stage 1 intermediate demand.....	ID5	9112	48.351	6.0	0.7	-0.7	-0.3	0.7	0.4
Total construction inputs to stage 1 intermediate demand.....	ID5	9117	0.006	11.0	1.9	1.0	1.2	0.1	0.4
Total foods inputs to stage 1 intermediate demand.....	ID5	9114	3.232	20.0	0.6	0.6	-5.4	1.8	5.0
Total energy goods inputs to stage 1 intermediate demand.....	ID5	9115	10.297	38.8	4.4	9.9	-9.7	-4.7	3.7
Total goods less foods and energy inputs to stage 1 intermediate demand.	ID5	9116	38.114	8.7	1.7	0.1	-0.4	-0.7	-0.7

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
[September 2022]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Sept. 2021 to Sept. 2022 ^P	Apr. to May	May to June ^P	June to July ^P	July to Aug. ^P
Final Demand								
Final demand.....	FD	4	8.5	0.8	1.0	-0.4	-0.2	0.4
Final demand goods.....	FD	41	11.3	1.5	2.2	-1.8	-1.1	0.4
Final demand foods.....	FD	411	11.9	0.4	-0.1	1.3	-0.1	1.2
Fresh fruits and melons ²	01	11	20.7	-1.1	-1.6	2.0	0.2	-1.2
Fresh and dry vegetables ²	01	13	40.2	3.5	0.0	12.7	1.7	15.7
Grains.....	01	2	30.4	0.7	1.9	-11.8	3.1	10.7
Eggs for fresh use ²	01	7107	97.3	-0.3	-23.8	44.2	-25.0	16.7
Oilseeds.....	01	8301	17.9	-0.6	4.8	-13.6	5.1	5.4
Bakery products ²	02	11	14.0	0.9	0.4	1.9	1.5	0.8
Milled rice ²	02	13	20.4	1.9	1.1	3.6	1.5	2.3
Pasta products ²	02	1402	34.1	3.9	0.0	4.7	0.0	1.1
Beef and veal.....	02	2101	-23.0	-9.5	1.7	9.5	-0.4	-4.6
Pork.....	02	2104	-2.0	-7.3	-2.4	-0.3	1.9	5.5
Processed young chickens.....	02	2203	4.6	7.1	1.8	-0.7	-2.1	-3.7
Processed turkeys.....	02	2206	38.2	5.2	-2.0	1.9	1.7	0.5
Finfish and shellfish.....	02	23	2.9	-2.2	-0.3	1.4	-1.5	2.5
Dairy products.....	02	3	18.2	0.9	0.5	-0.5	-2.0	-1.6
Processed fruits and vegetables ²	02	4	16.0	3.1	0.5	2.3	0.7	2.6
Confectionery end products ²	02	55	7.5	0.6	0.2	1.7	0.6	0.2
Soft drinks ²	02	62	15.8	-0.8	0.7	0.8	5.5	1.9
Roasted coffee ²	02	6301	9.8	0.1	2.1	-2.1	2.2	-4.0
Shortening and cooking oils ²	02	78	12.4	4.6	-0.2	-9.6	-1.4	-1.9
Frozen specialty food ²	02	85	16.1	1.5	0.4	1.2	0.4	1.4
Final demand energy.....	FD	412	24.2	4.8	8.9	-9.1	-5.6	0.7
Liquefied petroleum gas ²	05	32	1.3	4.1	0.9	-11.4	-2.5	-8.7
Residential electric power.....	05	41	12.7	0.7	1.3	0.6	1.7	0.1
Residential natural gas.....	05	51	25.5	5.6	6.3	-2.7	0.9	2.6
Gasoline.....	05	71	18.1	8.7	17.3	-17.5	-12.4	-2.0
Home heating oil and distillates.....	05	7302	73.2	3.8	3.6	-11.3	-10.5	10.7
No. 2 diesel fuel.....	05	7303	65.9	2.4	13.0	-14.9	-10.8	9.1
Final demand goods less foods and energy.....	FD	413	7.5	0.7	0.5	0.2	0.2	0.0
Alcoholic beverages.....	02	61	5.1	0.4	0.3	-0.4	0.2	0.1
Pet food ²	02	9402	14.1	3.2	4.5	0.5	1.0	0.2
Women's, girls', and infants' apparel ²	03	8106	1.8	0.3	0.0	0.1	0.1	0.1
Men's and boys' apparel ²	03	8107	11.1	0.1	0.1	0.5	0.0	1.4
Textile housefurnishings ²	03	82	3.3	-0.1	0.2	1.0	-0.9	0.3
Footwear.....	04	3	9.9	1.3	0.2	1.5	1.4	0.0
Industrial chemicals.....	06	1	9.7	4.6	0.8	2.3	-5.4	-0.8
Pharmaceutical preparations.....	06	38	2.2	0.1	0.1	0.6	0.3	0.3
Soaps and detergents ²	06	71	10.8	2.4	0.7	0.4	0.5	0.9
Cleaning and polishing products ²	06	72	8.0	0.6	0.4	0.1	1.0	0.5
Cosmetics and other toiletries ²	06	75	6.3	0.6	0.8	0.2	0.5	0.0
Tires ²	07	1201	14.6	0.7	0.6	1.8	0.7	0.5
Consumer, institutional, and commercial products, n.e.c. ²	07	2B	22.0	2.7	1.7	1.0	0.4	-0.8
Sanitary paper products ²	09	1501	12.3	2.4	1.5	1.6	0.3	1.5
Iron and steel scrap ²	10	12	-23.8	-11.9	-10.2	-12.6	-7.6	-3.6
Agricultural machinery and equipment.....	11	1	16.2	0.7	1.7	0.1	0.8	0.8
Construction machinery and equipment ²	11	2	13.2	0.3	1.0	0.4	2.6	0.2
Metal cutting machine tools ²	11	37	4.2	0.5	0.2	0.0	0.3	0.0
Metal forming machine tools.....	11	38	6.0	2.6	0.6	0.3	1.4	0.1
Tools, dies, jigs, fixtures, and industrial molds ²	11	39	8.7	0.5	0.3	0.3	0.3	0.4
Pumps, compressors, and equipment.....	11	41	16.1	2.1	1.1	1.1	0.5	1.4
Industrial material handling equipment ²	11	44	12.7	0.9	0.8	0.8	0.5	0.1
Electronic computers and computer equipment ²	11	5	5.8	0.6	-0.2	0.5	-0.2	-0.5
Textile machinery and equipment ²	11	62	6.0	0.3	0.0	0.0	0.0	0.0
Paper industries machinery ²	11	64	11.4	1.3	1.8	0.0	1.2	1.4
Printing trades machinery and equipment ²	11	65	5.5	0.2	0.4	0.2	0.5	0.2
Transformers and power regulators ²	11	74	30.7	1.1	4.0	1.0	0.4	0.1
Communication and related equipment.....	11	76	4.9	0.8	0.6	1.0	0.1	0.1
Electronic components and accessories.....	11	78	3.8	0.4	0.7	-0.1	-0.3	0.2
X-ray and electromedical equipment ²	11	7905	4.3	0.9	0.3	1.3	0.0	0.1
Oil field and gas field machinery ²	11	91	5.0	1.1	0.4	0.0	0.0	0.0
Mining machinery and equipment ²	11	92	16.0	0.8	0.1	0.0	0.4	1.9
Office and store machines and equipment ²	11	93	2.2	0.8	0.0	0.0	0.0	0.0

See footnotes at end of table.

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

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Sept. 2021 to Sept. 2022 ^P	Apr. to May	May to June ^P	June to July ^P	July to Aug. ^P
Household furniture ²	12	1	10.0	1.3	0.4	2.0	0.4	0.2
Commercial furniture ²	12	2	11.9	0.8	2.2	-0.1	0.7	0.4
Floor coverings ²	12	3	2.4	-0.6	0.5	0.6	1.7	0.4
Household appliances ²	12	4	11.8	0.6	0.6	0.1	0.7	-0.1
Home electronic equipment ²	12	5	9.1	0.7	0.4	0.2	0.0	1.7
Lawn and garden equipment excl. garden tractors ²	12	66	10.2	1.2	1.4	0.2	0.0	0.0
Passenger cars.....	14	1101	3.1	0.5	0.6	0.2	0.4	0.0
Light motor trucks.....	14	1105	4.7	0.3	0.3	0.8	0.2	0.1
Heavy motor trucks ²	14	1106	2.4	1.4	0.4	0.0	0.1	-0.2
Motor vehicles parts ²	14	12	5.0	0.2	0.4	0.3	0.7	0.2
Truck trailers ²	14	14	32.0	0.5	0.7	0.7	0.1	0.2
Travel trailers and campers ²	14	16	14.6	1.1	0.1	0.1	0.2	1.2
Aircraft.....	14	21	4.8	0.3	0.5	0.3	0.3	0.1
Ships ²	14	31	3.7	1.0	0.1	0.0	0.0	-0.3
Railroad equipment ²	14	4	3.0	0.1	0.0	0.1	0.4	0.4
Toys, games, and children's vehicles ²	15	11	3.7	0.0	0.0	0.0	0.0	0.0
Sporting and athletic goods.....	15	12	14.8	2.5	4.8	0.1	-0.1	-1.9
Cigarettes ²	15	21	11.6	2.4	0.0	0.8	2.0	0.8
Mobile homes ²	15	5	15.0	0.6	1.4	0.0	-1.4	-1.1
Medical, surgical & personal aid devices.....	15	6	3.7	0.3	0.2	0.1	0.1	0.1
Jewelry, platinum and karat gold ²	15	9402	7.9	1.4	-0.1	-2.8	1.6	-1.5
Costume jewelry and novelties ²	15	9404	6.5	-1.1	-0.4	1.1	0.0	0.0
Final demand services.....	FD	42	6.8	0.4	0.4	0.2	0.3	0.4
Final demand trade services ³	FD	423	12.7	0.6	0.8	0.8	0.5	0.1
Machinery and equipment parts and supplies wholesaling ²	57	1102	11.2	0.2	1.0	0.8	-2.0	0.6
Machinery and vehicle wholesaling ²	57	1103	26.0	-2.3	0.7	2.6	-4.0	1.5
Professional and commercial equipment wholesaling ²	57	1104	-5.1	-0.3	1.0	-0.4	-3.0	-2.4
Furnishings wholesaling ²	57	2	17.9	1.4	-2.9	3.5	1.5	0.9
Chemicals and allied products wholesaling ²	57	5	11.1	4.0	-0.4	0.2	6.6	1.1
Paper and plastics products wholesaling ²	57	6	27.8	2.5	0.7	-1.6	-0.5	6.2
Apparel wholesaling ²	57	7	2.2	-4.3	2.8	0.7	1.5	1.5
Food and alcohol wholesaling ²	57	8	12.0	-0.5	0.8	2.4	1.3	-1.5
Food and alcohol retailing.....	58	1	20.0	1.7	4.6	1.5	1.0	2.6
Health, beauty, and optical goods retailing ²	58	2	6.4	6.3	-3.0	1.7	1.0	-0.9
Apparel, jewelry, footwear, and accessories retailing.....	58	3	-2.7	2.8	-0.2	-5.4	2.7	-2.1
Computer hardware, software, and supplies retailing ²	58	4	6.4	-3.0	7.0	-2.6	-5.1	4.1
TV, video, and photographic equipment and supplies retailing ²	58	5	-31.6	-4.9	12.6	-5.2	-12.2	1.6
Automobiles retailing (partial).....	58	6101	15.7	5.7	-2.1	-1.5	-2.1	0.3
Automotive parts, including tires, retailing ²	58	6102	19.7	1.5	3.1	2.9	0.4	2.3
RVs, trailers, and campers retailing ²	58	8	-13.7	-0.7	-15.7	-4.3	-1.7	-0.1
Sporting goods, including boats, retailing.....	58	9	-1.4	0.1	-2.2	0.5	2.4	1.4
Lawn, garden, and farm equipment and supplies retailing ²	58	A	33.4	5.0	4.5	0.1	8.1	0.1
Furniture retailing ²	58	B	15.6	4.6	2.3	-1.5	-3.5	-1.4
Flooring and floor coverings retailing ²	58	C	19.3	-1.9	0.7	-1.6	-1.9	-4.1
Hardware, building materials, and supplies retailing.....	58	D	-1.4	-5.3	-5.6	-7.1	-5.8	0.2
Major household appliances retailing.....	58	E	5.6	-1.0	-0.8	0.8	-3.9	1.8
Fuels and lubricants retailing.....	58	F	29.1	-17.7	0.0	9.6	13.9	-6.8
Cleaning supplies and paper products retailing ²	58	G	17.4	0.5	1.2	10.1	-0.7	-1.0
Book retailing ²	58	H	4.8	-1.7	0.7	2.0	2.4	0.3
Final demand transportation and warehousing services.....	FD	422	17.8	2.5	0.8	-0.7	-0.9	-0.2
Rail transportation of freight and mail ²	30	11	10.7	2.0	0.5	1.2	-0.4	0.4
Truck transportation of freight ²	30	12	16.3	2.1	-0.5	-0.4	-1.9	-0.3
Air transportation of freight ²	30	14	10.9	-0.2	2.7	-0.7	-1.5	0.2
Courier, messenger, and U.S. postal services.....	30	16	9.0	1.2	-0.1	2.2	-0.3	0.4
Rail transportation of passengers.....	30	21	2.1	0.1	1.7	0.1	0.2	-0.3
Airline passenger services.....	30	22	26.4	3.8	3.9	-2.9	0.7	-0.5
Final demand services less trade, transportation, and warehousing.....	FD	421	2.7	0.1	0.2	0.0	0.4	0.6
Sales of books ²	33	11	6.3	0.8	0.0	0.7	0.1	-0.6
Sales and subscriptions of periodicals and newspapers.....	33	12	6.5	0.3	0.1	0.5	-0.4	6.0
Application software publishing ²	34	2	2.3	1.1	0.3	0.1	-1.5	1.8
Advertising space sales in periodicals, newspapers, directories, and mailing lists ²	36	1	0.1	0.5	0.3	-0.7	0.2	-0.6
Residential wired telecommunication services.....	37	11	4.8	0.5	0.1	0.4	0.9	2.7
Wireless telecommunication services.....	37	2	0.4	0.6	0.2	0.0	-0.8	0.0
Cable and satellite subscriber services.....	37	3	6.2	0.5	0.7	1.0	0.3	0.8
Internet access services ²	37	4	-0.9	-0.3	-0.5	0.1	-0.3	0.1

See footnotes at end of table.

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

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Sept. 2021 to Sept. 2022 ^P	Apr. to May	May to June ^P	June to July ^P	July to Aug. ^P
Bundled wired telecommunications access services ²	37	5	5.1	0.0	-0.5	2.7	0.4	1.6
Consumer loans (partial)	39	12	5.5	-1.1	0.4	1.1	5.0	-1.9
Deposit services (partial) ²	39	2	-5.0	-0.2	1.8	0.2	-1.3	3.2
Other credit intermediation, incl. trust services (partial) ²	39	3	-5.0	-1.0	0.3	0.2	-4.8	0.4
Securities brokerage, dealing, investment advice, and related services ²	40	1	4.1	5.3	-4.5	0.1	9.6	-1.8
Portfolio management ²	40	2	-11.4	-2.2	-2.6	-7.2	2.6	2.1
Life insurance ²	41	1101	3.1	0.0	0.0	0.4	0.0	0.0
Disability insurance, including accidental death ²	41	1102	-0.4	0.0	0.0	-0.3	0.0	0.0
Health and medical insurance	41	1103	2.0	0.1	0.2	0.0	0.2	0.2
Property and casualty insurance ²	41	1104	2.3	0.2	0.6	0.8	0.1	0.1
Annuities ²	41	2	-1.7	-0.1	-0.6	-0.3	0.0	-0.1
Residential property sales and leases, brokerage fees and commissions	43	21	9.6	0.7	0.7	0.7	1.3	0.1
Passenger car rental	44	1	4.5	-5.3	-3.8	-2.5	3.7	-0.9
Legal services	45	1	5.2	0.6	0.0	0.4	0.4	0.8
Tax preparation and planning	45	2102	4.8	0.3	2.7	1.5	0.9	0.0
Architectural and engineering services	45	3	5.6	0.2	0.8	0.1	0.5	0.1
Management, scientific, and technical consulting services	45	4	0.1	-0.4	-0.4	-0.1	0.0	0.1
Arrangement of flights (partial)	47	1	8.2	0.1	0.6	1.7	-0.4	0.4
Arrangement of vehicle rentals and lodging ²	47	2	3.6	-0.3	-0.6	-1.3	-0.6	-0.2
Arrangement of cruises and tours ²	47	3	-7.1	4.4	5.7	1.5	0.1	-5.3
Physician care	51	1101	0.4	0.1	0.1	0.1	0.0	0.1
Medical laboratory and diagnostic imaging care ²	51	1102	-0.5	0.1	0.0	-0.1	-0.2	0.0
Home health and hospice care	51	1103	1.7	0.1	0.1	-0.1	0.2	0.1
Hospital outpatient care ²	51	1104	3.0	0.0	0.8	0.7	-0.7	-0.2
Dental care	51	1105	2.9	0.0	0.2	0.0	0.0	0.0
Hospital inpatient care	51	2101	3.3	0.5	0.5	0.7	-0.2	0.4
Nursing home care	51	2102	3.4	0.2	0.2	0.4	0.7	0.7
Traveler accommodation services	53	11	17.7	-2.5	5.6	-0.6	-3.4	6.4
Food and beverages for immediate consumption services (partial) ²	54	1	-2.1	1.6	0.3	0.7	0.1	-0.9
Motor vehicle repair and maintenance (partial)	55	2	4.2	0.6	0.2	0.2	0.4	0.0
Membership dues and admissions and recreation facility use fees (partial) ²	56	1	4.6	-1.9	0.2	0.6	-0.3	0.1
Recreational activity instruction fees (partial) ²	56	2	1.4	0.2	0.0	0.1	0.0	0.0
Gaming receipts (partial) ²	56	3	4.5	2.6	-1.3	2.2	-2.3	5.4
Mining services ²	60	1	13.2	2.2	1.0	-0.9	0.9	2.1
Final demand construction	FD	43	23.1	0.4	0.5	5.0	0.3	0.4
New warehouse building construction ²	80	1101	33.4	-0.1	-0.2	5.6	0.0	0.2
New school building construction ²	80	1102	19.9	0.0	0.2	5.2	0.1	0.3
New office building construction ²	80	1103	24.4	0.5	1.0	4.5	0.5	0.2
New industrial building construction ²	80	1104	28.0	0.7	0.7	6.0	0.3	0.4
New health care building construction ²	80	1105	21.4	0.1	0.2	5.9	0.2	0.6
Intermediate Demand by Commodity Type								
Processed goods for intermediate demand	ID6	1	13.1	2.3	2.0	-2.2	-1.5	0.1
Processed foods and feeds	ID6	9112	10.8	1.1	0.0	0.2	0.0	-0.5
Meats	02	21	-10.8	-5.9	-0.9	4.3	0.9	-0.3
Processed poultry	02	22	10.0	6.4	2.1	-0.9	-2.0	-6.9
Dairy products	02	3	18.2	0.9	0.5	-0.5	-2.0	-1.6
Processed fruits and vegetables ²	02	4	16.0	3.1	0.5	2.3	0.7	2.6
Refined sugar and byproducts ²	02	53	6.2	0.5	0.2	0.5	0.7	0.2
Fats and oils ²	02	7	12.5	3.8	-0.6	-7.3	-1.6	-0.7
Prepared animal feeds ²	02	9	15.8	1.6	1.2	0.0	1.1	0.1
Processed materials less foods and feeds	ID6	9111	13.3	2.4	2.2	-2.5	-1.7	0.1
Synthetic fibers ²	03	1	5.8	-0.1	0.4	1.7	-0.2	0.9
Processed yarns and threads ²	03	2	26.9	1.7	0.4	1.2	0.5	-0.4
Finished fabrics ²	03	4	12.3	1.7	0.7	0.6	0.8	0.0
Liquefied petroleum gas ²	05	32	1.3	4.1	0.9	-11.4	-2.5	-8.7
Commercial electric power	05	42	15.1	-1.4	4.8	1.8	2.3	0.3
Industrial electric power	05	43	14.8	1.1	-0.2	2.6	1.1	2.3
Commercial natural gas	05	52	37.5	9.1	8.2	-2.4	3.7	2.3
Industrial natural gas	05	53	45.1	15.7	11.1	-9.8	9.8	1.1
Natural gas to electric utilities	05	54	41.6	23.3	15.8	-19.1	7.0	0.5
Gasoline	05	71	18.1	8.7	17.3	-17.5	-12.4	-2.0
Jet fuel ²	05	7203	73.9	10.0	-0.8	-6.3	-12.8	3.4
No. 2 diesel fuel	05	7303	65.9	2.4	13.0	-14.9	-10.8	9.1
Residual fuels ²	05	74	24.8	0.7	6.3	-4.2	-16.7	-2.1

See footnotes at end of table.

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

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Sept. 2021 to Sept. 2022 ^P	Apr. to May	May to June ^P	June to July ^P	July to Aug. ^P
Finished lubricants ²	05	76	25.3	-0.1	6.0	3.1	0.8	2.7
Lubricating oil base stocks ²	05	78	36.0	9.1	11.2	2.9	-0.5	-3.8
Asphalt.....	05	8102	43.3	13.1	1.7	-5.0	-6.1	-7.6
Basic inorganic chemicals ²	06	13	28.8	4.6	1.4	4.4	0.3	0.7
Basic organic chemicals.....	06	14	7.0	4.6	0.7	1.9	-6.3	-1.0
Prepared paint ²	06	21	23.3	0.7	1.4	2.0	0.4	0.7
Paint materials ²	06	22	19.1	2.0	0.8	1.9	1.2	0.9
Medicinal and botanical chemicals ²	06	31	1.2	-1.2	0.4	0.0	0.1	-0.1
Biological products, including diagnostics.....	06	37	4.8	0.2	0.3	0.4	0.3	0.3
Fats and oils, inedible ²	06	4	8.0	3.3	2.2	-7.7	1.1	-1.2
Nitrogenates.....	06	5201	50.9	-0.7	-3.9	-8.7	1.9	-0.4
Phosphates.....	06	5202	11.2	-2.4	-5.6	-2.0	-0.4	0.3
Other agricultural chemicals ²	06	53	40.7	-1.7	2.8	0.7	0.3	1.1
Plastic resins and materials.....	06	6	-5.7	1.2	1.1	-2.8	-4.6	0.4
Industrial gases ²	06	7903	19.2	1.3	0.6	1.2	-0.8	0.8
Adhesives and sealants ²	06	7904	19.8	0.6	3.1	0.4	1.6	0.7
Synthetic rubber ²	07	1102	6.0	0.6	2.0	4.0	0.1	-1.1
Tires ²	07	1201	14.6	0.7	0.6	1.8	0.7	0.5
Plastic construction products ²	07	21	17.9	1.4	1.0	1.2	0.6	-0.6
Unsupported plastic film, sheet, other shapes ²	07	22	11.4	0.9	2.0	0.8	1.1	-1.2
Parts for manufacturing from plastics ²	07	26	9.3	0.6	1.6	0.4	0.3	0.2
Plastic packaging products ²	07	2A	12.9	1.0	1.3	1.3	1.0	0.0
Softwood lumber.....	08	11	14.5	-0.1	-23.5	2.0	-5.1	-2.9
Hardwood lumber ²	08	12	-6.9	4.0	-3.4	0.5	-4.5	-6.0
Millwork.....	08	2	13.2	0.7	-0.7	-0.2	1.8	-1.2
Plywood ²	08	3	19.6	-4.0	-2.2	-6.6	-2.6	-1.2
Paper ²	09	13	10.3	0.9	1.0	1.0	1.1	0.1
Paperboard ²	09	14	15.9	1.1	2.9	1.0	-0.1	0.0
Paper boxes and containers ²	09	1503	19.0	2.6	0.4	0.5	2.4	0.2
Building paper and board ²	09	2	0.7	-12.6	-13.7	-13.6	6.6	-2.3
Commercial printing ²	09	47	19.1	3.0	1.0	0.0	1.3	0.6
Foundry and forge shop products ²	10	15	16.7	2.1	0.1	0.9	-1.5	-0.1
Steel mill products ²	10	17	-14.3	10.5	-1.7	-3.9	-4.9	-6.7
Primary nonferrous metals ²	10	22	-12.1	-10.6	-2.0	-9.6	2.5	-4.8
Secondary nonferrous metals ²	10	24	-0.2	-3.2	-2.7	-5.6	2.1	-4.4
Aluminum mill shapes ²	10	2501	-3.4	-3.1	-5.9	-4.3	-4.8	-1.6
Copper and brass mill shapes ²	10	2502	-6.9	-4.1	0.1	-10.7	0.1	1.1
Nonferrous wire and cable ²	10	26	4.6	-0.3	-1.3	-2.9	-0.7	-0.4
Nonferrous foundry shop products.....	10	28	12.7	0.7	0.2	0.6	-0.1	1.1
Metal containers ²	10	3	27.1	0.8	1.3	-1.4	0.2	0.3
Hardware ²	10	4	11.9	0.3	0.2	1.2	0.6	0.0
Plumbing fixtures and brass fittings.....	10	5	11.6	0.3	0.3	0.5	-0.2	1.1
Heating equipment ²	10	6	14.0	2.3	0.4	0.3	0.5	0.1
Fabricated structural metal products.....	10	7	14.0	1.0	0.4	-0.7	0.1	-0.2
Bolts, nuts, screws, rivets, and washers ²	10	81	15.5	4.1	0.3	1.1	-0.2	0.4
Lighting fixtures ²	10	83	7.5	0.1	0.6	0.2	0.3	0.2
Fabricated ferrous wire products ²	10	88	15.7	0.8	0.7	0.4	0.3	-0.5
Other miscellaneous metal products ²	10	89	9.3	1.1	0.6	0.2	-0.2	-0.1
Fluid power equipment.....	11	43	14.2	0.3	1.2	1.5	0.4	0.6
Mechanical power transmission equipment ²	11	45	14.0	1.7	0.5	0.9	1.6	1.6
Air conditioning and refrigeration equipment ²	11	48	23.4	1.3	2.2	1.4	-0.5	0.5
Metal valves, except fluid power.....	11	4902	13.9	3.1	0.1	0.3	2.2	0.1
Ball and roller bearings ²	11	4905	7.8	0.7	2.6	1.8	0.0	-1.3
Wiring devices ²	11	71	16.0	0.6	3.0	-0.6	1.0	-0.1
Motors, generators, motor generator sets ²	11	73	17.5	0.5	0.6	0.9	0.9	2.0
Switchgear, switchboard, and industrial controls equip. ²	11	75	19.3	0.6	3.0	0.9	1.9	0.2
Electronic components and accessories.....	11	78	3.8	0.4	0.7	-0.1	-0.3	0.2
Internal combustion engines ²	11	94	7.5	1.0	0.0	0.1	0.9	0.1
Machine shop products ²	11	95	6.4	1.5	0.8	0.0	1.1	0.1
Flat glass ²	13	11	10.3	0.3	0.4	1.0	1.6	0.2
Cement.....	13	22	10.9	0.1	0.4	2.7	0.8	1.1
Concrete products.....	13	3	14.3	1.2	1.6	1.8	1.2	1.0
Asphalt felts and coatings ²	13	6	14.6	1.4	1.5	-0.2	0.5	0.7
Paving mixtures and blocks.....	13	94	22.4	3.9	2.5	2.9	0.7	0.2
Motor vehicle parts ²	14	12	5.0	0.2	0.4	0.3	0.7	0.2
Aircraft engines and engine parts.....	14	23	4.7	0.2	0.6	0.4	0.9	0.5

See footnotes at end of table.

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

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Sept. 2021 to Sept. 2022 ^P	Apr. to May	May to June ^P	June to July ^P	July to Aug. ^P
Aircraft parts and auxiliary equipment, n.e.c.....	14	25	2.8	-0.2	0.2	0.0	0.0	1.3
Medical, surgical, and personal aid devices.....	15	6	3.7	0.3	0.2	0.1	0.1	0.1
Unprocessed goods for intermediate demand.....	ID6	2	34.2	5.4	4.7	-9.4	5.3	0.3
Unprocessed foodstuffs and feedstuffs.....	ID6	21	21.3	0.2	-0.3	-1.7	-1.3	0.1
Wheat ²	01	21	14.6	1.1	-4.1	-22.7	-2.8	9.4
Corn.....	01	2202	36.5	0.5	3.8	-8.5	4.7	11.8
Slaughter cattle.....	01	31	15.8	1.6	5.0	-1.5	4.0	-0.4
Slaughter hogs.....	01	32	5.3	-9.4	-4.0	23.2	6.2	-12.3
Slaughter chickens.....	01	4102	20.1	-0.5	2.0	-1.9	-9.0	0.4
Slaughter turkeys.....	01	42	20.5	1.5	5.3	6.7	1.7	-0.1
Raw milk.....	01	6	27.5	2.2	-1.2	-4.2	-5.2	-8.3
Hay and hayseeds ²	01	81	19.6	10.1	0.3	7.4	-8.7	5.1
Oilseeds.....	01	8301	17.9	-0.6	4.8	-13.6	5.1	5.4
Raw cane sugar and byproducts ²	02	5201	18.9	0.9	-0.6	1.2	3.3	0.0
Unprocessed nonfood materials.....	ID6	22	40.2	7.8	7.0	-12.6	8.3	0.4
Raw cotton ²	01	51	21.0	3.7	-0.1	-23.8	4.7	-0.2
Hides and skins.....	04	1	-35.0	-5.9	1.9	-0.9	-3.1	-1.5
Coal.....	05	1	53.8	0.9	6.3	3.3	-2.5	0.7
Natural gas ²	05	31	106.5	32.1	10.2	-16.8	31.6	3.1
Crude petroleum ²	05	61	29.1	2.1	12.7	-15.6	-5.7	-3.4
Logs, bolts, timber, pulpwood, and woodchips ²	08	5	4.5	1.1	0.8	0.1	-0.5	-0.3
Recyclable paper ²	09	12	-31.2	-5.6	0.4	3.1	-6.1	-20.2
Iron ores.....	10	11	13.0	-3.0	6.6	4.1	0.9	0.8
Iron and steel scrap ²	10	12	-23.8	-11.9	-10.2	-12.6	-7.6	-3.6
Nonferrous metal ores ²	10	21	-6.7	-3.7	-1.6	-9.7	3.7	-1.5
Copper base scrap ²	10	2301	-12.2	-7.4	-2.7	-15.2	3.1	1.4
Aluminum base scrap.....	10	2302	-14.1	-8.4	-0.7	-24.7	9.4	-2.7
Construction sand, gravel, and crushed stone.....	13	21	12.0	0.7	2.4	0.8	0.8	0.7
Services for intermediate demand.....	ID6	3	6.2	0.5	-0.4	0.3	0.8	0.3
Trade services for intermediate demand ³	ID6	33	9.2	0.6	-0.8	-0.1	-0.6	0.3
Machinery and equipment parts and supplies wholesaling ²	57	1102	11.2	0.2	1.0	0.8	-2.0	0.6
Building materials, paint, and hardware wholesaling.....	57	3	9.6	-0.8	0.6	0.0	-2.6	-0.9
Metals, minerals, and ores wholesaling ²	57	4	-20.7	4.3	-10.3	-4.5	-7.0	-3.8
Chemicals and allied products wholesaling ²	57	5	11.1	4.0	-0.4	0.2	6.6	1.1
Paper and plastics products wholesaling ²	57	6	27.8	2.5	0.7	-1.6	-0.5	6.2
Food wholesaling ²	57	8101	12.0	-1.2	0.7	2.7	1.5	-1.8
Automotive parts, including tires, retailing ²	58	6102	19.7	1.5	3.1	2.9	0.4	2.3
Hardware, building material, and supplies retailing.....	58	D	-1.4	-5.3	-5.6	-7.1	-5.8	0.2
Transportation and warehousing services for intermediate demand.....	ID6	32	8.9	0.6	0.1	1.0	-0.2	-0.7
Rail transportation of freight and mail ²	30	11	10.7	2.0	0.5	1.2	-0.4	0.4
Truck transportation of freight ²	30	12	16.3	2.1	-0.5	-0.4	-1.9	-0.3
Water transportation of freight ²	30	13	27.9	9.5	0.9	1.4	2.5	-1.1
Air transportation of freight ²	30	14	10.9	-0.2	2.7	-0.7	-1.5	0.2
U.S. Postal Service.....	30	1601	5.0	0.3	0.1	5.0	0.2	0.1
Courier and messenger services, except air mail.....	30	1602	10.2	1.0	0.6	0.3	0.0	0.4
Air mail and package delivery services, excluding by USPS.....	30	1603	16.9	3.7	-2.2	0.2	-2.0	1.0
Pipeline transportation ²	30	17	-	-	-0.1	2.9	0.0	3.2
Transportation of passengers (partial).....	30	2	25.9	3.7	3.9	-2.8	0.7	-0.5
Services related to water transportation.....	31	1	4.8	0.7	0.0	-0.2	0.3	0.0
Arrangement of freight and cargo ²	31	31	-16.7	-5.5	-5.1	2.2	4.5	-12.7
Warehousing, storage, and related services ²	32	1	7.9	-6.0	4.1	3.3	-3.9	0.2
Services less trade, transportation, and warehousing for intermediate demand.....	ID6	31	4.5	0.4	-0.3	0.3	1.5	0.5
Network compensation from broadcast TV, cable TV, radio ²	35	-	4.2	0.0	1.1	0.0	0.0	0.0
Advertising space sales in periodicals and newspapers ²	36	11	0.1	0.6	0.4	-0.9	0.2	-0.7
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	-7.3	0.2	-4.9	-1.6
Radio advertising time sales.....	36	3	-0.2	8.8	-3.1	-7.2	-2.1	5.5
Internet advertising space sales, excluding Internet ads sold by print publishers ²	36	5	19.0	1.5	3.3	1.7	1.1	0.5
Business wired telecommunication services ²	37	12	1.7	0.0	0.7	0.5	0.4	0.0
Wireless telecommunication services.....	37	2	0.4	0.6	0.2	0.0	-0.8	0.0
Cable and satellite subscriber services.....	37	3	6.2	0.5	0.7	1.0	0.3	0.8
Bundled wired telecommunication access services ²	37	5	5.1	0.0	-0.5	2.7	0.4	1.6
Data processing and related services ²	38	1	-1.3	0.1	-0.4	-0.1	-0.1	-0.2
Business loans (partial).....	39	11	37.9	3.8	3.2	9.1	10.5	0.3

See footnotes at end of table.

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

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Sept. 2021 to Sept. 2022 ^P	Apr. to May	May to June ^P	June to July ^P	July to Aug. ^P
Deposit services (partial) ²	39	2	-5.0	-0.2	1.8	0.2	-1.3	3.2
Other credit intermediation, incl. trust services (partial) ²	39	3	-5.0	-1.0	0.3	0.2	-4.8	0.4
Securities brokerage, dealing, investment advice, and related services ²	40	1	4.1	5.3	-4.5	0.1	9.6	-1.8
Portfolio management ²	40	2	-11.4	-2.2	-2.6	-7.2	2.6	2.1
Investment banking ²	40	3	-3.3	-0.7	-6.1	0.0	-0.3	5.6
Life insurance ²	41	1101	3.1	0.0	0.0	0.4	0.0	0.0
Health and medical insurance.....	41	1103	2.0	0.1	0.2	0.0	0.2	0.2
Property and casualty insurance ²	41	1104	2.3	0.2	0.6	0.8	0.1	0.1
Annuities ²	41	2	-1.7	-0.1	-0.6	-0.3	0.0	-0.1
Commissions from sales of insurance ²	42	1	0.0	0.0	0.0	0.0	0.0	0.0
Nonresidential real estate rents ²	43	11	5.8	-1.4	-1.4	0.6	5.0	1.1
Nonresidential property sales and leases ²	43	12	5.7	0.5	0.4	0.7	0.2	0.1
Residential property management fees ²	43	22	3.2	-0.9	0.0	0.3	0.3	0.5
Passenger car rental.....	44	1	4.5	-5.3	-3.8	-2.5	3.7	-0.9
Truck, utility trailer, and RV rental and leasing ²	44	2	3.9	-1.7	2.3	-0.1	1.7	-1.0
Construction, mining, and forestry machinery and equipment rental and leasing ²	44	3	8.2	1.7	1.5	-0.3	3.6	0.2
Legal services.....	45	1	5.2	0.6	0.0	0.4	0.4	0.8
Accounting services (partial).....	45	2	5.0	-0.2	0.7	-0.1	1.9	0.4
Architectural and engineering services.....	45	3	5.6	0.2	0.8	0.1	0.5	0.1
Management, scientific, and technical consulting services.....	45	4	0.1	-0.4	-0.4	-0.1	0.0	0.1
Advertising and related services (partial) ²	45	5	8.7	0.0	0.1	0.3	0.1	0.0
Permanent placement services ²	46	1	4.3	-0.4	0.6	1.2	-0.3	0.3
Executive search services ²	46	2	-1.1	3.5	-0.1	-1.4	-0.8	-1.4
Staffing services.....	46	3	5.3	0.7	0.2	-0.3	-0.1	0.4
Security guard services ²	48	1	8.3	0.1	2.4	0.1	-0.1	2.4
Janitorial services ²	49	1	7.5	0.5	0.0	0.3	-0.1	0.0
Waste collection.....	50	1	9.7	0.7	0.8	2.6	0.6	0.5
Traveler accommodation services.....	53	11	17.7	-2.5	5.6	-0.6	-3.4	6.4
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	11.7	0.0	0.8	0.4	2.3	0.0
Aircraft repair and maintenance.....	55	4	2.6	0.2	0.2	0.4	0.2	0.1
Metal treatment services ²	59	1	10.9	0.4	0.0	1.2	0.3	-0.1
Construction for intermediate demand.....	ID6	4	11.0	1.9	1.0	1.2	0.1	0.4
Maintenance and repair of non-residential buildings (partial) ²	80	2	11.0	1.9	1.0	1.2	0.1	0.4
Intermediate Demand by Production Flow								
Stage 4 intermediate demand.....	ID5	4	8.4	0.9	0.3	-0.4	0.4	0.3
Stage 4 intermediate demand goods.....	ID5	9411	11.5	1.4	1.1	-0.9	-0.1	0.0
Grains.....	01	2	30.4	0.7	1.9	-11.8	3.1	10.7
Meats.....	02	21	-10.8	-5.9	-0.9	4.3	0.9	-0.3
Unprocessed and packaged fish.....	02	23	2.9	-2.2	-0.3	1.4	-1.5	2.5
Dairy products.....	02	3	18.2	0.9	0.5	-0.5	-2.0	-1.6
Commercial electric power.....	05	42	15.1	-1.4	4.8	1.8	2.3	0.3
Industrial electric power.....	05	43	14.8	1.1	-0.2	2.6	1.1	2.3
Gasoline.....	05	71	18.1	8.7	17.3	-17.5	-12.4	-2.0
No. 2 diesel fuel.....	05	7303	65.9	2.4	13.0	-14.9	-10.8	9.1
Basic organic chemicals.....	06	14	7.0	4.6	0.7	1.9	-6.3	-1.0
Prepared paint ²	06	21	23.3	0.7	1.4	2.0	0.4	0.7
Medicinal and botanical chemicals ²	06	31	1.2	-1.2	0.4	0.0	0.1	-0.1
Biological products, including diagnostics.....	06	37	4.8	0.2	0.3	0.4	0.3	0.3
Pharmaceutical preparations.....	06	38	2.2	0.1	0.1	0.6	0.3	0.3
Plastic construction products ²	07	21	17.9	1.4	1.0	1.2	0.6	-0.6
Unsupported plastic film, sheet, and other shapes ²	07	22	11.4	0.9	2.0	0.8	1.1	-1.2
Parts for manufacturing from plastics ²	07	26	9.3	0.6	1.6	0.4	0.3	0.2
Plastic packaging products ²	07	2A	12.9	1.0	1.3	1.3	1.0	0.0
Lumber.....	08	1	6.4	1.0	-17.7	1.5	-4.9	-3.9
Millwork.....	08	2	13.2	0.7	-0.7	-0.2	1.8	-1.2
Paper boxes and containers ²	09	1503	19.0	2.6	0.4	0.5	2.4	0.2
Commercial printing ²	09	47	19.1	3.0	1.0	0.0	1.3	0.6
Steel mill products ²	10	17	-14.3	10.5	-1.7	-3.9	-4.9	-6.7
Nonferrous wire and cable ²	10	26	4.6	-0.3	-1.3	-2.9	-0.7	-0.4
Fabricated structural metal products.....	10	7	14.0	1.0	0.4	-0.7	0.1	-0.2
Other miscellaneous metal products ²	10	89	9.3	1.1	0.6	0.2	-0.2	-0.1
Air conditioning and refrigeration equipment ²	11	48	23.4	1.3	2.2	1.4	-0.5	0.5
Wiring devices ²	11	71	16.0	0.6	3.0	-0.6	1.0	-0.1

See footnotes at end of table.

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

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Sept. 2021 to Sept. 2022 ^P	Apr. to May	May to June ^P	June to July ^P	July to Aug. ^P
Electronic components and accessories.....	11	78	3.8	0.4	0.7	-0.1	-0.3	0.2
Miscellaneous electrical machinery and equipment ²	11	79	7.7	1.0	0.3	1.4	0.7	0.4
Internal combustion engines ²	11	94	7.5	1.0	0.0	0.1	0.9	0.1
Machine shop products ²	11	95	6.4	1.5	0.8	0.0	1.1	0.1
Concrete ingredients and related products.....	13	2	11.7	0.6	1.9	1.3	0.8	0.8
Concrete products.....	13	3	14.3	1.2	1.6	1.8	1.2	1.0
Prepared asphalt, tar roofing and siding products ²	13	61	15.3	2.2	1.5	-0.4	0.2	0.8
Paving mixtures and blocks.....	13	94	22.4	3.9	2.5	2.9	0.7	0.2
Motor vehicle parts ²	14	12	5.0	0.2	0.4	0.3	0.7	0.2
Aircraft engines and engine parts.....	14	23	4.7	0.2	0.6	0.4	0.9	0.5
Aircraft parts and auxiliary equipment, n.e.c.....	14	25	2.8	-0.2	0.2	0.0	0.0	1.3
Medical, surgical and personal aid devices.....	15	6	3.7	0.3	0.2	0.1	0.1	0.1
Stage 4 intermediate demand services.....	ID5	9412	5.7	0.4	-0.4	0.0	0.9	0.5
Truck transportation of freight ²	30	12	16.3	2.1	-0.5	-0.4	-1.9	-0.3
Courier, messenger, and U.S. postal services.....	30	16	9.0	1.2	-0.1	2.2	-0.3	0.4
Airline passenger services.....	30	22	26.4	3.8	3.9	-2.9	0.7	-0.5
Warehousing, storage, and related services ²	32	1	7.9	-6.0	4.1	3.3	-3.9	0.2
Advertising space sales in periodicals and newspapers ²	36	11	0.1	0.6	0.4	-0.9	0.2	-0.7
Data processing and related services ²	38	1	-1.3	0.1	-0.4	-0.1	-0.1	-0.2
Business loans (partial).....	39	11	37.9	3.8	3.2	9.1	10.5	0.3
Deposit services (partial) ²	39	2	-5.0	-0.2	1.8	0.2	-1.3	3.2
Securities brokerage, dealing, investment advice, and related services ²	40	1	4.1	5.3	-4.5	0.1	9.6	-1.8
Portfolio management ²	40	2	-11.4	-2.2	-2.6	-7.2	2.6	2.1
Investment banking ²	40	3	-3.3	-0.7	-6.1	0.0	-0.3	5.6
Insurance.....	41	11	2.3	0.0	0.3	0.3	0.2	0.1
Annuities ²	41	2	-1.7	-0.1	-0.6	-0.3	0.0	-0.1
Nonresidential real estate rents ²	43	11	5.8	-1.4	-1.4	0.6	5.0	1.1
Nonresidential property sales and leases ²	43	12	5.7	0.5	0.4	0.7	0.2	0.1
Nonresidential property management fees ²	43	13	4.2	0.5	0.8	1.2	-2.0	0.2
Residential property management fees ²	43	22	3.2	-0.9	0.0	0.3	0.3	0.5
Construction, mining, and forestry machinery and equipment rental and leasing ²	44	3	8.2	1.7	1.5	-0.3	3.6	0.2
Legal services.....	45	1	5.2	0.6	0.0	0.4	0.4	0.8
Advertising agency services ²	45	51	8.7	0.0	0.1	0.3	0.1	0.0
Accounting services (partial).....	45	2	5.0	-0.2	0.7	-0.1	1.9	0.4
Architectural and engineering services.....	45	3	5.6	0.2	0.8	0.1	0.5	0.1
Management, scientific, and technical consulting services.....	45	4	0.1	-0.4	-0.4	-0.1	0.0	0.1
Staffing services.....	46	3	5.3	0.7	0.2	-0.3	-0.1	0.4
Janitorial services ²	49	1	7.5	0.5	0.0	0.3	-0.1	0.0
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	11.7	0.0	0.8	0.4	2.3	0.0
Machinery and equipment parts and supplies wholesaling ²	57	1102	11.2	0.2	1.0	0.8	-2.0	0.6
Building materials, paint, and hardware wholesaling.....	57	3	9.6	-0.8	0.6	0.0	-2.6	-0.9
Metals, minerals, and ores wholesaling ²	57	4	-20.7	4.3	-10.3	-4.5	-7.0	-3.8
Chemicals and allied products wholesaling ²	57	5	11.1	4.0	-0.4	0.2	6.6	1.1
Paper and plastics products wholesaling ²	57	6	27.8	2.5	0.7	-1.6	-0.5	6.2
Food and alcohol wholesaling ²	57	8	12.0	-0.5	0.8	2.4	1.3	-1.5
Hardware and building materials and supplies retailing.....	58	D	-1.4	-5.3	-5.6	-7.1	-5.8	0.2
Metal treatment services ²	59	1	10.9	0.4	0.0	1.2	0.3	-0.1
Stage 3 intermediate demand.....	ID5	3	10.8	1.7	0.5	-1.4	-1.6	-0.1
Stage 3 intermediate demand goods.....	ID5	9311	15.6	2.6	1.4	-2.9	-3.2	-0.2
Slaughter cattle.....	01	31	15.8	1.6	5.0	-1.5	4.0	-0.4
Slaughter hogs.....	01	32	5.3	-9.4	-4.0	23.2	6.2	-12.3
Slaughter poultry.....	01	4	19.8	-0.2	2.5	-0.7	-7.2	0.3
Raw milk.....	01	6	27.5	2.2	-1.2	-4.2	-5.2	-8.3
Commercial electric power.....	05	42	15.1	-1.4	4.8	1.8	2.3	0.3
Industrial electric power.....	05	43	14.8	1.1	-0.2	2.6	1.1	2.3
Gasoline.....	05	71	18.1	8.7	17.3	-17.5	-12.4	-2.0
Jet fuel ²	05	7203	73.9	10.0	-0.8	-6.3	-12.8	3.4
No. 2 diesel fuel.....	05	7303	65.9	2.4	13.0	-14.9	-10.8	9.1
Finished lubricants ²	05	76	25.3	-0.1	6.0	3.1	0.8	2.7
Lubricating oil base stocks ²	05	78	36.0	9.1	11.2	2.9	-0.5	-3.8
Asphalt.....	05	8102	43.3	13.1	1.7	-5.0	-6.1	-7.6
Basic inorganic chemicals ²	06	13	28.8	4.6	1.4	4.4	0.3	0.7
Basic organic chemicals.....	06	14	7.0	4.6	0.7	1.9	-6.3	-1.0
Paints and allied products ²	06	2	22.0	0.9	1.3	1.9	0.6	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
 [September 2022]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Sept. 2021 to Sept. 2022 ^P	Apr. to May	May to June ^P	June to July ^P	July to Aug. ^P
Agricultural chemicals and chemical products.....	06	5	30.4	-1.1	-2.6	-3.2	2.1	1.4
Plastic resins and materials.....	06	6	-5.7	1.2	1.1	-2.8	-4.6	0.4
Synthetic rubber ²	07	1102	6.0	0.6	2.0	4.0	0.1	-1.1
Unsupported plastic film, sheet, and other shapes ²	07	22	11.4	0.9	2.0	0.8	1.1	-1.2
Paper ²	09	13	10.3	0.9	1.0	1.0	1.1	0.1
Paperboard ²	09	14	15.9	1.1	2.9	1.0	-0.1	0.0
Converted paper and paperboard products ²	09	15	15.5	2.3	1.0	1.1	1.3	0.4
Commercial printing ²	09	47	19.1	3.0	1.0	0.0	1.3	0.6
Foundry and forge shop products ²	10	15	16.7	2.1	0.1	0.9	-1.5	-0.1
Steel mill products ²	10	17	-14.3	10.5	-1.7	-3.9	-4.9	-6.7
Nonferrous mill shapes ²	10	25	-1.9	-2.9	-3.3	-4.8	-3.0	-0.8
Nonferrous foundry shop products.....	10	28	12.7	0.7	0.2	0.6	-0.1	1.1
Metal containers ²	10	3	27.1	0.8	1.3	-1.4	0.2	0.3
Structural, architectural, and pre-engineered metal products.....	10	74	14.5	1.0	0.4	-1.1	-0.2	-0.4
Bolts, nuts, screws, rivets, and washers ²	10	81	15.5	4.1	0.3	1.1	-0.2	0.4
Other miscellaneous metal products ²	10	89	9.3	1.1	0.6	0.2	-0.2	-0.1
General purpose machinery and equipment.....	11	4	15.0	1.4	1.0	1.1	0.5	0.5
Electrical machinery and equipment.....	11	7	7.8	0.7	0.9	0.7	0.4	0.3
Construction sand, gravel, and crushed stone.....	13	21	12.0	0.7	2.4	0.8	0.8	0.7
Cement.....	13	22	10.9	0.1	0.4	2.7	0.8	1.1
Motor vehicle parts ²	14	12	5.0	0.2	0.4	0.3	0.7	0.2
Aircraft and aircraft equipment.....	14	2	4.3	0.2	0.4	0.2	0.3	0.4
Stage 3 intermediate demand services.....	ID5	9312	5.9	0.6	-0.5	0.4	0.2	0.0
Rail transportation of freight and mail ²	30	11	10.7	2.0	0.5	1.2	-0.4	0.4
Courier, messenger, and U.S. postal services.....	30	16	9.0	1.2	-0.1	2.2	-0.3	0.4
Arrangement of freight and cargo ²	31	31	-16.7	-5.5	-5.1	2.2	4.5	-12.7
Freight forwarding ²	31	3201	4.6	0.0	-1.5	0.1	-0.1	-0.2
Warehousing, storage, and related services ²	32	1	7.9	-6.0	4.1	3.3	-3.9	0.2
Advertising space sales in periodicals, newspapers, directories, and mailing lists ²	36	1	0.1	0.5	0.3	-0.7	0.2	-0.6
Wired telephone services ²	37	1	2.4	0.0	0.4	0.3	0.4	0.8
Bundled wired telecommunications access services ²	37	5	5.1	0.0	-0.5	2.7	0.4	1.6
Data processing and related services ²	38	1	-1.3	0.1	-0.4	-0.1	-0.1	-0.2
Business loans (partial).....	39	11	37.9	3.8	3.2	9.1	10.5	0.3
Deposit services (partial) ²	39	2	-5.0	-0.2	1.8	0.2	-1.3	3.2
Securities brokerage, dealing, investment advice, and related services ²	40	1	4.1	5.3	-4.5	0.1	9.6	-1.8
Insurance.....	41	11	2.3	0.0	0.3	0.3	0.2	0.1
Nonresidential real estate rents ²	43	11	5.8	-1.4	-1.4	0.6	5.0	1.1
Legal services.....	45	1	5.2	0.6	0.0	0.4	0.4	0.8
Accounting services (partial).....	45	2	5.0	-0.2	0.7	-0.1	1.9	0.4
Architectural and engineering services.....	45	3	5.6	0.2	0.8	0.1	0.5	0.1
Management, scientific, and technical consulting services.....	45	4	0.1	-0.4	-0.4	-0.1	0.0	0.1
Advertising agency services ²	45	51	8.7	0.0	0.1	0.3	0.1	0.0
Staffing services.....	46	3	5.3	0.7	0.2	-0.3	-0.1	0.4
Aircraft repair maintenance.....	55	4	2.6	0.2	0.2	0.4	0.2	0.1
Machinery and equipment parts and supplies wholesaling ²	57	1102	11.2	0.2	1.0	0.8	-2.0	0.6
Building materials, paint, and hardware wholesaling.....	57	3	9.6	-0.8	0.6	0.0	-2.6	-0.9
Metals, minerals, and ores wholesaling ²	57	4	-20.7	4.3	-10.3	-4.5	-7.0	-3.8
Chemicals and allied products wholesaling ²	57	5	11.1	4.0	-0.4	0.2	6.6	1.1
Paper and plastics products wholesaling ²	57	6	27.8	2.5	0.7	-1.6	-0.5	6.2
Food wholesaling ²	57	8101	12.0	-1.2	0.7	2.7	1.5	-1.8
Metal treatment services ²	59	1	10.9	0.4	0.0	1.2	0.3	-0.1
Stage 2 intermediate demand.....	ID5	2	18.6	3.6	2.9	-4.3	3.5	-0.1
Stage 2 intermediate demand goods.....	ID5	9211	31.1	6.8	5.4	-8.6	5.4	-0.1
Corn.....	01	2202	36.5	0.5	3.8	-8.5	4.7	11.8
Oilseeds.....	01	83	17.9	-0.6	4.8	-13.6	5.1	5.4
Prepared animal feeds ²	02	9	15.8	1.6	1.2	0.0	1.1	0.1
Coal.....	05	1	53.8	0.9	6.3	3.3	-2.5	0.7
Natural gas ²	05	31	106.5	32.1	10.2	-16.8	31.6	3.1
Liquefied petroleum gas ²	05	32	1.3	4.1	0.9	-11.4	-2.5	-8.7
Crude petroleum ²	05	61	29.1	2.1	12.7	-15.6	-5.7	-3.4
No. 2 diesel fuel.....	05	7303	65.9	2.4	13.0	-14.9	-10.8	9.1
Industrial chemicals.....	06	1	9.7	4.6	0.8	2.3	-5.4	-0.8
Plastic resins and materials.....	06	6	-5.7	1.2	1.1	-2.8	-4.6	0.4
Plastic products ²	07	2	14.4	1.3	1.4	0.9	0.7	-0.4
Logs, bolts, timber, pulpwood, and wood chips ²	08	5	4.5	1.1	0.8	0.1	-0.5	-0.3

See footnotes at end of table.

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

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Sept. 2021 to Sept. 2022 ^P	Apr. to May	May to June ^P	June to July ^P	July to Aug. ^P
Paper ²	09	13	10.3	0.9	1.0	1.0	1.1	0.1
Paperboard, excluding corrugated paperboard ²	09	1411	15.7	0.8	2.6	0.7	-0.1	0.1
Commercial printing ²	09	47	19.1	3.0	1.0	0.0	1.3	0.6
Iron and steel scrap ²	10	12	-23.8	-11.9	-10.2	-12.6	-7.6	-3.6
Steel mill products ²	10	17	-14.3	10.5	-1.7	-3.9	-4.9	-6.7
Nonferrous mill shapes ²	10	25	-1.9	-2.9	-3.3	-4.8	-3.0	-0.8
Electrical machinery and equipment.....	11	7	7.8	0.7	0.9	0.7	0.4	0.3
Electronic components and accessories.....	11	78	3.8	0.4	0.7	-0.1	-0.3	0.2
Stage 2 intermediate demand services.....	ID5	9212	7.1	0.3	0.0	1.0	1.5	0.0
Rail transportation of freight and mail ²	30	11	10.7	2.0	0.5	1.2	-0.4	0.4
Truck transportation of freight ²	30	12	16.3	2.1	-0.5	-0.4	-1.9	-0.3
U.S. Postal Service.....	30	1601	5.0	0.3	0.1	5.0	0.2	0.1
Courier and messenger services, except air.....	30	1602	10.2	1.0	0.6	0.3	0.0	0.4
Air mail and package delivery services, excluding by USPS.....	30	1603	16.9	3.7	-2.2	0.2	-2.0	1.0
Pipeline transportation ²	30	17	-	-	-0.1	2.9	0.0	3.2
Airline passenger services.....	30	22	26.4	3.8	3.9	-2.9	0.7	-0.5
Arrangement of freight and cargo ²	31	31	-16.7	-5.5	-5.1	2.2	4.5	-12.7
Television advertising time sales.....	36	21	-1.5	3.0	-7.3	0.2	-4.9	-1.6
Wireless telecommunication services.....	37	2	0.4	0.6	0.2	0.0	-0.8	0.0
Data processing and related services ²	38	1	-1.3	0.1	-0.4	-0.1	-0.1	-0.2
Securities brokerage, dealing, investment advice, and related services ²	40	1	4.1	5.3	-4.5	0.1	9.6	-1.8
Portfolio management ²	40	2	-11.4	-2.2	-2.6	-7.2	2.6	2.1
Investment banking ²	40	31	-3.3	-0.7	-6.1	0.0	-0.3	5.6
Insurance.....	41	11	2.3	0.0	0.3	0.3	0.2	0.1
Commissions from sales of insurance ²	42	11	0.0	0.0	0.0	0.0	0.0	0.0
Legal services.....	45	1	5.2	0.6	0.0	0.4	0.4	0.8
Accounting services (partial).....	45	2	5.0	-0.2	0.7	-0.1	1.9	0.4
Management, scientific, and technical consulting services.....	45	4	0.1	-0.4	-0.4	-0.1	0.0	0.1
Advertising agency services ²	45	51	8.7	0.0	0.1	0.3	0.1	0.0
Staffing services.....	46	3	5.3	0.7	0.2	-0.3	-0.1	0.4
Security guard services ²	48	1	8.3	0.1	2.4	0.1	-0.1	2.4
Janitorial services ²	49	1	7.5	0.5	0.0	0.3	-0.1	0.0
Traveler accommodation services.....	53	1	17.7	-2.5	5.6	-0.6	-3.4	6.4
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	11.7	0.0	0.8	0.4	2.3	0.0
Hardware and building materials and supplies retailing.....	58	D	-1.4	-5.3	-5.6	-7.1	-5.8	0.2
Stage 1 intermediate demand.....	ID5	1	10.8	1.5	1.0	-1.8	-0.5	0.5
Stage 1 intermediate demand goods.....	ID5	9111	15.2	2.3	2.4	-3.0	-1.5	0.6
Prepared animal feeds ²	02	9	15.8	1.6	1.2	0.0	1.1	0.1
Commercial electric power.....	05	42	15.1	-1.4	4.8	1.8	2.3	0.3
Industrial electric power.....	05	43	14.8	1.1	-0.2	2.6	1.1	2.3
Commercial natural gas.....	05	52	37.5	9.1	8.2	-2.4	3.7	2.3
Industrial natural gas.....	05	53	45.1	15.7	11.1	-9.8	9.8	1.1
Gasoline.....	05	71	18.1	8.7	17.3	-17.5	-12.4	-2.0
No. 2 diesel fuel.....	05	7303	65.9	2.4	13.0	-14.9	-10.8	9.1
Industrial chemicals.....	06	1	9.7	4.6	0.8	2.3	-5.4	-0.8
Prepared paint ²	06	21	23.3	0.7	1.4	2.0	0.4	0.7
Plastic construction products ²	07	21	17.9	1.4	1.0	1.2	0.6	-0.6
Recyclable paper ²	09	12	-31.2	-5.6	0.4	3.1	-6.1	-20.2
Paper ²	09	13	10.3	0.9	1.0	1.0	1.1	0.1
Converted paper and paperboard products ²	09	15	15.5	2.3	1.0	1.1	1.3	0.4
Iron and steel scrap ²	10	12	-23.8	-11.9	-10.2	-12.6	-7.6	-3.6
Steel mill products ²	10	17	-14.3	10.5	-1.7	-3.9	-4.9	-6.7
Primary nonferrous metals ²	10	22	-12.1	-10.6	-2.0	-9.6	2.5	-4.8
Nonferrous scrap.....	10	23	-7.3	-9.0	-5.3	-9.6	5.3	-1.6
Nonferrous wire and cable ²	10	26	4.6	-0.3	-1.3	-2.9	-0.7	-0.4
Fabricated structural metal products.....	10	7	14.0	1.0	0.4	-0.7	0.1	-0.2
General purpose machinery and equipment.....	11	4	15.0	1.4	1.0	1.1	0.5	0.5
Construction sand, gravel, and crushed stone.....	13	21	12.0	0.7	2.4	0.8	0.8	0.7
Stage 1 intermediate demand services.....	ID5	9112	6.0	0.7	-0.7	-0.3	0.7	0.4
Truck transportation of freight ²	30	12	16.3	2.1	-0.5	-0.4	-1.9	-0.3
Airline passenger services.....	30	22	26.4	3.8	3.9	-2.9	0.7	-0.5
Advertising space sales in periodicals, newspapers, directories, and mailing lists ²	36	1	0.1	0.5	0.3	-0.7	0.2	-0.6
Business wired telecommunication services ²	37	12	1.7	0.0	0.7	0.5	0.4	0.0
Wireless telecommunication services.....	37	2	0.4	0.6	0.2	0.0	-0.8	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
 [September 2022]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Sept. 2021 to Sept. 2022 ^p	Apr. to May	May to June ^p	June to July ^p	July to Aug. ^p
Bundled wired telecommunications access services ²	37	5	5.1	0.0	-0.5	2.7	0.4	1.6
Business loans (partial).....	39	11	37.9	3.8	3.2	9.1	10.5	0.3
Deposit services (partial) ²	39	2	-5.0	-0.2	1.8	0.2	-1.3	3.2
Securities brokerage, dealing, investment advice, and related services ²	40	1	4.1	5.3	-4.5	0.1	9.6	-1.8
Portfolio management ²	40	2	-11.4	-2.2	-2.6	-7.2	2.6	2.1
Investment banking ²	40	3	-3.3	-0.7	-6.1	0.0	-0.3	5.6
Insurance.....	41	11	2.3	0.0	0.3	0.3	0.2	0.1
Nonresidential real estate rents ²	43	11	5.8	-1.4	-1.4	0.6	5.0	1.1
Architectural and engineering services.....	45	3	5.6	0.2	0.8	0.1	0.5	0.1
Management consulting services.....	45	41	0.1	-0.4	-0.4	-0.1	0.0	0.1
Waste collection.....	50	1	9.7	0.7	0.8	2.6	0.6	0.5
Traveler accommodation services.....	53	11	17.7	-2.5	5.6	-0.6	-3.4	6.4
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	11.7	0.0	0.8	0.4	2.3	0.0
Machinery and equipment parts and supplies wholesaling ²	57	1102	11.2	0.2	1.0	0.8	-2.0	0.6
Building materials, paint, and hardware wholesaling.....	57	3	9.6	-0.8	0.6	0.0	-2.6	-0.9
Metals, minerals, and ores wholesaling ²	57	4	-20.7	4.3	-10.3	-4.5	-7.0	-3.8
Chemicals and allied products wholesaling ²	57	5	11.1	4.0	-0.4	0.2	6.6	1.1
Paper and plastics products wholesaling ²	57	6	27.8	2.5	0.7	-1.6	-0.5	6.2
Hardware and building materials and supplies retailing.....	58	D	-1.4	-5.3	-5.6	-7.1	-5.8	0.2
Mining services ²	60	1	13.2	2.2	1.0	-0.9	0.9	2.1

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

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	May 2022	June 2022 ^p	July 2022 ^p	Aug. 2022 ^p	Sept. 2022 ^p
Final Demand								
Final demand.....		FD	4	139.072	140.503	139.923	139.669	140.205
Final demand goods.....		FD	41	144.450	147.599	144.965	143.375	143.892
Final demand foods.....		FD	411	148.468	148.300	150.237	150.138	151.994
Finished consumer foods ²	00/82	FD	4111	257.684	256.778	262.709	261.784	264.660
Finished consumer foods, crude.....	00/82	FD	411113	281.847	259.904	296.554	273.658	305.322
Finished consumer foods, processed.....	00/82	FD	411112	255.651	257.012	259.641	261.085	260.861
Government purchased foods.....		FD	4112	149.868	150.152	152.624	152.855	152.495
Foods for export.....		FD	4113	162.778	164.182	158.557	160.496	164.569
Final demand energy.....		FD	412	165.384	180.082	163.639	154.463	155.515
Finished consumer energy goods ²	00/82	FD	4121	230.204	273.558	247.764	235.032	234.913
Government purchased energy.....		FD	4122	194.600	209.245	191.863	178.155	184.513
Energy for export.....		FD	4123	183.481	196.479	181.262	168.204	172.102
Final demand goods less foods and energy.....		FD	413	137.209	137.845	138.064	138.303	138.319
Finished goods less foods and energy ²	00/82	FD	4131	235.448	237.116	238.420	239.570	240.097
Finished consumer goods less foods and energy.....	00/82	FD	41311	262.319	264.081	265.619	267.028	267.546
Nondurable consumer goods less foods and energy.....	00/82	FD	413111	336.593	339.145	341.178	343.345	344.253
Durable consumer goods.....	00/82	FD	413112	185.493	186.466	187.498	188.158	188.296
Private capital equipment.....	00/82	FD	41312	201.563	203.075	204.117	204.988	205.501
Private capital equipment for manufacturing industries.....	00/82	FD	413121	214.407	215.775	216.935	217.436	218.136
Private capital equipment for nonmanufacturing industries.....	00/82	FD	413122	197.708	199.256	200.263	201.234	201.694
Government purchased goods, excluding foods and energy.....		FD	4132	134.166	135.007	135.802	135.882	135.843
Government purchased goods excluding foods, energy, and capital equipment.....		FD	41321	144.199	145.267	146.377	146.294	146.319
Government purchased capital equipment.....		FD	41322	119.646	120.191	120.579	120.863	120.744
Goods for export, excluding foods and energy.....		FD	4133	139.205	139.194	138.290	137.840	137.372
Final demand services.....		FD	42	135.575	136.142	136.404	136.816	137.360
Final demand trade services ³		FD	423	148.335	149.531	150.704	151.401	151.580
Trade of finished goods ²		FD	4231	147.045	148.342	149.444	150.550	150.596
Trade of personal consumption goods.....		FD	42311	146.207	147.529	148.526	150.796	150.694
Trade of private capital equipment.....		FD	42312	149.089	150.264	151.810	147.789	148.485
Trade of government purchased goods.....		FD	4232	155.658	156.746	158.747	156.620	157.986
Trade of government purchased goods, excluding capital equipment.....		FD	42321	159.928	161.136	162.606	162.796	164.389
Trade of government purchased capital equipment.....		FD	42322	147.734	148.630	151.428	145.753	146.759
Trade of exports.....		FD	4233	157.627	157.980	159.485	157.626	158.543
Final demand transportation and warehousing services.....		FD	422	158.552	159.811	158.692	157.272	156.944
Transportation of passengers for final demand.....		FD	4221	132.888	138.098	134.174	135.068	134.365
Transportation of private passengers.....		FD	42211	132.891	138.093	134.180	135.072	134.371
Transportation of government passengers.....		FD	42212	132.680	137.846	133.978	134.863	134.166
Transportation of passengers for export.....		FD	42213	132.884	138.127	134.157	135.057	134.352
Transportation and warehousing of goods for final demand.....		FD	4222	167.916	167.456	167.559	165.156	164.992
Transportation and warehousing of finished goods ²		FD	42221	167.234	166.732	166.788	164.299	164.049
Transportation and warehousing of personal consumption goods.....		FD	422211	167.196	166.692	166.849	164.399	164.179
Transportation and warehousing of private capital equipment.....		FD	422212	167.398	166.903	166.552	163.904	163.535
Transportation and warehousing of government purchased goods.....		FD	42222	161.782	161.876	162.990	160.787	160.833
Transportation and warehousing of exports.....		FD	42223	172.059	171.566	171.546	169.288	169.282
Final demand services less trade, transportation, and warehousing.....		FD	421	127.532	127.746	127.732	128.196	128.990
Finished services less trade, transportation, and warehousing ²		FD	4211	128.030	128.357	128.403	128.726	129.537
Finished consumer services less trade, transportation, and warehousing.....		FD	42111	127.339	127.595	127.626	127.897	128.674
Private capital investment services less trade, transportation, and warehousing.....		FD	42112	134.470	135.417	135.585	136.376	137.480
Government purchased services less trade, transportation, and warehousing.....		FD	4212	119.846	119.546	119.196	120.040	120.637
Gov. purchased services less trade, transportation, and warehousing, excl. capital investment.....		FD	42121	120.312	119.995	119.614	120.524	121.123
Government purchased capital investment services less trade, transportation, and warehousing.....		FD	42122	107.914	107.985	108.255	107.743	108.302
Services for export less trade, transportation, and warehousing.....		FD	4213	129.931	129.063	128.554	130.644	131.423
Final demand construction.....		FD	43	159.199	160.025	168.022	168.453	169.064
Construction for private capital investment.....		FD	431	162.062	162.954	171.654	172.167	172.785
Construction for government.....		FD	432	153.784	154.491	161.209	161.493	162.090
Final Demand Special Groupings								
Final demand less exports.....	04/10	FD	49101	136.172	137.735	137.269	137.057	137.610
Final demand less government.....	04/10	FD	49102	136.913	138.280	137.743	137.585	138.073
Final demand less foods, food and nonalcoholic beverages for immediate consumption, and energy ¹	04/10	FD	49103	135.310	135.881	136.275	136.624	137.015
Final demand less foods and energy ⁴	04/10	FD	49104	134.990	135.572	135.957	136.324	136.736
Final demand less foods and food and nonalcoholic beverages for immediate consumption ⁴	04/10	FD	49105	136.951	138.492	137.724	137.416	137.851

See footnotes at end of table.

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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	May 2022	June 2022 ^P	July 2022 ^P	Aug. 2022 ^P	Sept. 2022 ^P
Final demand less foods ⁴	04/10	FD	49106	136.501	138.002	137.286	137.028	137.480
Final demand less energy.....	04/10	FD	49107	135.499	136.036	136.510	136.849	137.344
Final demand less trade services.....	01/10	FD	49108	135.371	136.846	135.860	135.385	135.997
Final demand less distributive services ⁵	01/10	FD	49109	134.170	135.717	134.690	134.286	134.928
Final demand goods less energy.....	01/10	FD	49111	138.284	138.752	139.315	139.485	139.872
Final demand goods less foods.....	04/10	FD	49112	140.334	144.053	140.594	138.753	138.997
Final demand services less trade services.....	04/10	FD	49113	129.295	129.601	129.489	129.780	130.467
Final demand distributive services ⁵	04/10	FD	49114	148.124	149.081	150.093	150.373	150.504
Final demand goods plus final demand distributive services ⁵	04/10	FD	49115	143.977	146.215	145.057	144.227	144.585
Final demand less foods, energy, and trade services ⁴	08/13	FD	49116	124.000	124.393	124.554	124.816	125.264
Private and government purchased capital equipment.....	08/13	FD	49117	121.902	122.767	123.365	123.859	124.109
Private and government purchased capital investment services.....	08/13	FD	49118	130.924	131.800	132.529	131.085	131.872
Total private and government purchased capital investment.....	08/13	FD	49119	129.082	129.945	131.273	130.833	131.371
Total finished ²	01/10	FD	49201	136.794	138.332	137.913	137.812	138.323
Total finished less foods, food and nonalcoholic beverages for immediate consumption, and energy ^{2, 4}	12/10	FD	49202	134.147	134.859	135.351	135.851	136.346
Total finished less foods and energy ^{2, 4}	01/10	FD	49203	134.966	135.678	136.175	136.674	137.160
Total finished less foods and food and nonalcoholic beverages for immediate consumption ⁴	12/10	FD	49204	135.047	136.703	136.060	135.981	136.435
Total finished less foods ^{2, 4}	01/10	FD	49205	136.394	138.051	137.416	137.339	137.787
Total finished less energy ²	01/10	FD	49206	135.483	136.123	136.786	137.225	137.777
Finished goods ²	00/82	FD	49207	252.907	259.786	254.990	252.151	252.997
Finished goods less energy ²	00/82	FD	49208	240.746	241.756	244.237	244.856	245.982
Finished goods, excluding foods ^{2, 4}	00/82	FD	49209	250.691	259.464	252.040	248.739	249.081
Finished services ²	01/10	FD	49210	134.078	134.731	135.026	135.488	136.010
Private capital investment services.....	04/10	FD	49211	140.991	141.949	142.667	141.250	142.095
Finished distributive services ^{2, 5}	04/10	FD	49212	146.264	147.351	148.324	149.041	149.055
Finished services less trade services ²	04/10	FD	49213	129.107	129.496	129.457	129.655	130.376
Finished services less distributive services ^{2, 5}	04/10	FD	49214	127.300	127.735	127.691	128.026	128.797
Total private capital investment (goods, services, and construction).....	04/10	FD	49215	136.961	137.915	139.169	138.719	139.329
Finished goods plus finished distributive services ²	04/10	FD	49216	143.594	146.159	145.169	144.647	144.908
Total exports.....	04/10	FD	49301	141.021	141.464	140.250	139.769	140.139
Goods for export.....	00/82	FD	49302	241.964	243.302	239.751	238.315	238.672
Services for export.....	04/10	FD	49303	145.143	145.085	145.139	145.187	145.814
Total government purchases.....	04/10	FD	49401	136.849	138.737	137.772	136.467	137.456
Government purchased goods.....	00/82	FD	49402	244.711	251.288	245.891	240.749	243.087
Government purchased services.....	04/10	FD	49403	128.354	128.479	128.539	128.684	129.357
Total government purchased capital investment (goods, services, construction).....	08/13	FD	49404	125.709	126.285	128.640	128.091	128.355
Government purchases, defense.....	05/15	FD	49405	125.965	127.048	126.043	123.741	124.644
Government purchases, non-defense.....	05/15	FD	49406	130.421	132.573	131.596	130.794	131.764
Personal consumption.....	01/10	FD	49501	136.658	138.325	137.534	137.509	137.998
Personal consumption goods (finished consumer goods).....	00/82	FD	49502	275.036	284.359	276.887	272.344	273.339
Personal consumption goods less energy.....	00/82	FD	49503	261.025	261.672	265.060	265.492	267.002
Personal consumption goods less foods.....	00/82	FD	49504	280.018	293.412	280.574	274.601	274.828
Personal consumption nondurable goods less foods.....	00/82	FD	49508	320.869	339.487	320.827	312.072	312.339
Personal consumption services.....	04/10	FD	49505	132.506	133.111	133.342	134.081	134.553
Personal consumption less trade services.....	04/10	FD	49506	133.746	135.501	134.243	133.618	134.260
Personal consumption less distributive services ⁵	04/10	FD	49507	132.802	134.628	133.326	132.756	133.426
Personal consumption less foods and energy.....	04/14	FD	49510	123.999	124.597	124.874	125.562	125.981
Personal consumption less foods, energy, and trade services ³	04/14	FD	49511	120.718	121.117	121.187	121.422	122.007
Personal consumption less foods, energy, and distributive services ⁵	04/14	FD	49512	119.834	120.268	120.334	120.667	121.284
Personal consumption goods plus personal consumption distributive services ⁵	08/13	FD	49509	132.935	135.721	134.286	133.955	134.150
Intermediate Demand by Commodity Type								
Processed goods								
Processed goods for intermediate demand.....	00/82	ID6	1	275.477	280.944	274.627	270.437	270.629
Materials and components for manufacturing.....	00/82	ID6	11	250.912	250.422	248.811	245.037	242.480
Materials for manufacturing.....		ID6	111	165.111	164.090	162.202	158.179	155.514
Materials for food manufacturing.....	00/82	ID6	1111	263.978	263.006	261.626	259.546	256.746
Materials for nondurable manufacturing.....	00/82	ID6	1112	300.821	302.387	303.048	294.096	293.064
Materials for durable manufacturing.....	00/82	ID6	1113	328.841	322.610	313.468	305.468	295.170
Components for manufacturing.....	00/82	ID6	112	181.921	183.092	183.737	184.370	184.666
Components for nondurable manufacturing.....		ID6	1121	144.901	146.798	147.784	148.992	148.402
Components for durable manufacturing.....		ID6	1122	128.234	129.014	129.445	129.857	130.106
Materials and components for construction.....	00/82	ID6	12	351.400	350.657	351.290	352.709	351.443
Materials for construction.....		ID6	121	171.096	168.133	167.947	168.858	168.159
Components for construction.....		ID6	122	175.553	177.213	177.915	178.452	177.884
Processed fuels and lubricants for intermediate demand.....	00/82	ID6	13	300.002	326.357	297.523	283.875	291.300
Processed fuels and lubricants to manufacturing industries.....	00/82	ID6	131	291.609	306.145	294.248	287.757	293.626

See footnotes at end of table.

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

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	May 2022	June 2022 ^P	July 2022 ^P	Aug. 2022 ^P	Sept. 2022 ^P
Processed fuels and lubricants to nonmanufacturing industries.....	00/82	ID6	132	303.282	333.543	299.149	283.148	291.092
Containers for intermediate demand.....	00/82	ID6	14	306.282	309.345	310.013	313.971	314.682
Supplies for intermediate demand.....	00/82	ID6	15	250.096	251.316	252.439	253.281	253.174
Supplies to manufacturing industries.....	00/82	ID6	151	245.872	246.595	247.230	247.993	247.885
Supplies to nonmanufacturing industries.....	00/82	ID6	152	248.766	250.055	251.246	252.094	251.987
Supplies to nonmanufacturing industries, feeds.....	00/82	ID6	1521	248.188	250.071	252.921	257.545	260.160
Supplies to nonmanufacturing industries, other than feeds.....	00/82	ID6	1522	250.805	252.047	253.079	253.552	253.169
Unprocessed goods								
Unprocessed goods for intermediate demand.....	00/82	ID6	2	344.388	360.712	326.725	343.964	344.987
Unprocessed foodstuffs and feedstuffs.....	00/82	ID6	21	265.021	264.107	259.505	256.086	256.215
Unprocessed nonfood materials.....	00/82	ID6	22	384.686	411.596	359.757	389.754	391.321
Unprocessed nonfood materials except fuel.....	00/82	ID6	221	412.822	434.682	383.933	374.163	368.404
Unprocessed nonfood materials except fuel to manufacturing industries.....	00/82	ID6	2211	387.876	408.878	359.181	349.514	343.778
Unprocessed nonfood materials except fuel to nonmanufacturing industries.....	00/82	ID6	2212	312.142	319.111	322.359	325.045	327.383
Unprocessed fuel.....	00/82	ID6	222	318.092	349.342	300.218	378.829	389.665
Unprocessed fuel to manufacturing industries.....	00/82	ID6	2221	294.241	318.336	309.252	331.053	337.613
Unprocessed fuel to nonmanufacturing industries.....	00/82	ID6	2222	328.627	361.201	308.269	392.537	403.940
Services								
Services for intermediate demand.....		ID6	3	139.836	139.311	139.684	140.763	141.165
Trade services for intermediate demand ⁵		ID6	33	171.873	170.416	170.258	169.256	169.748
Trade services for manufacturing industries.....	12/12	ID6	331	156.578	155.087	155.127	153.892	154.323
Trade services for nonmanufacturing industries.....	12/12	ID6	332	153.364	152.228	151.905	151.332	151.788
Transportation and warehousing services for intermediate demand.....		ID6	32	157.655	157.800	159.313	159.065	157.885
Transportation of passengers for intermediate demand.....		ID6	321	132.742	137.908	134.043	134.928	134.230
Transportation of passengers for manufacturing industries.....		ID6	3211	132.862	138.101	134.135	135.035	134.330
Transportation of passengers for nonmanufacturing industries.....		ID6	3212	132.788	137.946	134.092	134.976	134.279
Transportation and warehousing of goods for intermediate demand.....		ID6	322	160.361	159.972	162.058	161.689	160.458
Transportation and warehousing of goods for manufacturing industries.....	12/12	ID6	3221	136.776	136.830	137.458	136.271	136.698
Transportation and warehousing of goods for nonmanufacturing industries.....	12/12	ID6	3222	142.223	141.774	143.940	143.852	142.355
Services less trade, transportation, and warehousing for intermediate demand.....		ID6	31	127.980	127.595	127.918	129.794	130.444
Services less trade, transportation, and warehousing for manufacturing industries.....		ID6	311	122.477	122.647	123.234	123.695	123.860
Services less trade, transportation, and warehousing for nonmanufacturing industries.....		ID6	312	128.148	127.743	128.057	129.983	130.649
Construction								
Construction for intermediate demand.....		ID6	4	140.700	142.077	143.761	143.939	144.517
Intermediate Demand by Commodity Type Special Groupings								
Processed materials less foods and feeds.....	00/82	ID6	9111	277.505	283.476	276.518	271.941	272.276
Processed foods and feeds.....	00/82	ID6	9112	254.717	254.794	255.331	255.303	253.968
Processed energy goods.....	00/82	ID6	9113	301.394	327.861	298.924	285.226	292.682
Processed materials less energy.....	00/82	ID6	9118	265.649	265.761	265.224	263.483	261.842
Processed materials less foods and energy.....	00/82	ID6	9115	266.474	266.590	265.926	263.988	262.316
Intermediate distributive services ⁶	04/10	ID6	9116	164.578	163.527	164.168	163.409	163.281
Processed goods plus intermediate distributive services.....	04/10	ID6	9117	153.799	155.719	153.349	151.467	151.510
Unprocessed materials less agricultural products.....	00/82	ID6	9211	390.463	419.298	366.036	399.238	398.852
Unprocessed energy materials ⁷	00/82	ID6	9212	325.816	361.504	308.572	345.884	347.575
Unprocessed materials less energy.....	00/82	ID6	9213	329.774	326.727	313.763	311.980	312.970
Unprocessed nonfood materials less energy ⁸	00/82	ID6	9216	523.884	513.323	476.150	479.470	482.482
Intermediate Demand by Production Flow								
Stage 4 Intermediate Demand								
Stage 4 intermediate demand.....		ID5	4	145.278	145.731	145.095	145.686	146.068
Inputs to stage 4 goods producers.....		ID5	41	146.635	146.931	146.424	146.057	146.238
Goods.....		ID5	411	141.673	142.120	141.238	141.324	141.337
Foods.....		ID5	4111	161.294	161.176	156.652	157.545	160.312
Energy.....		ID5	4112	177.460	188.688	173.628	167.662	168.239
Goods excluding foods and energy.....		ID5	4113	138.457	138.895	138.683	138.701	138.295
Services.....		ID5	412	163.301	163.184	163.714	162.074	162.730
Trade services.....		ID5	4123	174.656	174.325	174.937	172.686	173.490
Transportation and warehousing services.....		ID5	4122	140.759	141.868	141.722	140.674	140.706
Transportation of passengers.....		ID5	41221	132.883	138.126	134.156	135.056	134.351
Transportation and warehousing of goods.....		ID5	41222	151.623	152.004	152.589	151.094	151.271
Services less trade, transportation, and warehousing.....		ID5	4121	123.899	124.229	124.645	125.179	125.448
Inputs to stage 4 services producers.....		ID5	42	138.647	139.073	138.836	140.503	141.178

See footnotes at end of table.

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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	May 2022	June 2022 ^P	July 2022 ^P	Aug. 2022 ^P	Sept. 2022 ^P
Goods.....		ID5	421	145.004	148.096	147.036	147.206	147.646
Foods.....		ID5	4211	153.005	153.422	155.228	154.636	152.528
Energy.....		ID5	4212	142.268	150.987	145.863	145.350	147.818
Goods excluding foods and energy.....		ID5	4213	143.574	144.456	144.717	145.466	145.570
Services.....		ID5	422	136.207	135.673	135.727	137.933	138.693
Trade services.....		ID5	4223	155.646	156.270	157.235	157.530	159.055
Transportation and warehousing services.....		ID5	4222	145.231	146.779	149.219	148.061	147.237
Transportation of passengers.....		ID5	42221	132.378	137.578	133.655	134.547	133.847
Transportation and warehousing of goods.....		ID5	42222	148.013	148.906	152.501	150.970	150.121
Services less trade, transportation, and warehousing.....		ID5	4221	132.160	131.265	130.957	133.747	134.563
Construction.....		ID5	423	140.700	142.077	143.761	143.939	144.517
Inputs to stage 4 construction producers.....		ID5	43	166.660	167.590	165.052	163.643	163.329
Goods.....		ID5	431	170.337	172.435	169.429	168.320	167.910
Energy.....		ID5	4312	208.015	236.960	202.182	181.415	181.844
Goods excluding foods and energy.....		ID5	4313	170.626	170.162	170.170	170.941	170.440
Services.....		ID5	432	157.115	155.237	153.834	151.712	151.630
Trade services.....		ID5	4323	182.883	177.762	174.411	169.523	169.293
Transportation and warehousing services.....		ID5	4322	162.023	161.810	161.498	159.004	158.784
Transportation of passengers.....		ID5	43221	138.518	143.976	139.848	140.785	140.050
Transportation and warehousing of goods.....		ID5	43222	163.469	163.104	162.891	160.294	160.086
Services less trade, transportation, and warehousing.....		ID5	4321	125.857	126.753	126.990	127.874	127.995
Stage 3 Intermediate Demand								
Stage 3 intermediate demand.....		ID5	3	156.518	157.338	155.179	152.718	152.536
Inputs to stage 3 goods producers.....		ID5	31	175.679	175.138	172.955	169.390	167.707
Goods.....		ID5	311	174.232	174.153	171.656	167.656	165.603
Foods.....		ID5	3111	200.280	199.177	196.859	192.884	190.625
Energy.....		ID5	3112	198.787	212.078	192.946	183.382	182.515
Goods excluding foods and energy.....		ID5	3113	166.296	165.808	164.233	160.473	158.377
Services.....		ID5	312	168.903	166.478	165.778	164.313	164.311
Trade services.....		ID5	3123	176.497	171.982	170.484	168.570	168.670
Transportation and warehousing services.....		ID5	3122	160.229	160.403	160.402	158.743	158.471
Transportation of passengers.....		ID5	31221	141.483	147.063	142.839	143.797	143.046
Transportation and warehousing of goods.....		ID5	31222	161.051	160.916	161.156	159.350	159.106
Services less trade, transportation, and warehousing.....		ID5	3121	126.977	127.546	128.444	129.070	129.192
Inputs to stage 3 services producers.....		ID5	32	140.685	142.751	140.658	139.112	140.167
Goods.....		ID5	321	156.315	165.678	153.594	144.392	148.955
Foods.....		ID5	3211	153.252	153.967	155.997	160.417	162.597
Energy.....		ID5	3212	176.482	191.398	171.333	156.262	163.772
Goods excluding foods and energy.....		ID5	3213	134.899	135.741	136.002	135.788	135.749
Services.....		ID5	322	135.463	135.243	136.211	137.038	136.997
Trade services.....		ID5	3223	187.716	188.529	190.075	190.677	193.482
Transportation and warehousing services.....		ID5	3222	162.980	162.073	164.655	165.533	162.893
Transportation of passengers.....		ID5	32221	102.815	104.669	104.671	104.932	104.603
Transportation and warehousing of goods.....		ID5	32222	163.492	162.572	165.169	166.051	163.397
Services less trade, transportation, and warehousing.....		ID5	3221	125.324	125.211	125.717	126.551	126.995
Construction.....		ID5	323	140.700	142.077	143.761	143.939	144.517
Inputs to stage 3 construction producers.....		ID5	33	153.144	149.299	145.475	142.920	142.791
Goods.....		ID5	331	141.573	139.375	138.325	138.849	138.010
Goods excluding foods and energy.....		ID5	3313	180.398	177.597	176.259	176.927	175.857
Services.....		ID5	332	184.811	178.987	172.202	166.598	167.073
Trade services.....		ID5	3323	191.578	185.188	177.727	171.552	172.064
Transportation and warehousing services.....		ID5	3322	113.131	114.032	115.257	115.419	115.497
Transportation and warehousing of goods.....		ID5	33222	119.415	120.365	121.658	121.829	121.912
Services less trade, transportation, and warehousing.....		ID5	3321	118.360	118.974	119.910	121.449	121.477
Stage 2 Intermediate Demand								
Stage 2 intermediate demand.....		ID5	2	148.380	152.671	146.159	151.275	151.163
Inputs to stage 2 goods producers.....		ID5	21	154.067	161.379	149.266	156.839	156.718
Goods.....		ID5	211	161.178	170.407	154.504	163.782	163.580
Foods.....		ID5	2111	176.542	179.880	171.159	176.336	181.298
Energy.....		ID5	2112	145.867	161.307	137.685	153.511	153.815
Goods excluding foods and energy.....		ID5	2113	158.392	157.251	154.928	153.009	151.191
Services.....		ID5	212	141.828	142.193	144.035	145.613	145.793
Trade services.....		ID5	2123	161.976	162.005	164.269	166.440	165.572
Transportation and warehousing services.....		ID5	2122	163.158	163.754	165.694	166.121	167.962
Transportation of passengers.....		ID5	21221	133.312	138.399	134.657	135.526	134.835
Transportation and warehousing of goods.....		ID5	21222	164.878	165.116	167.508	167.898	169.936
Services less trade, transportation, and warehousing.....		ID5	2121	121.085	121.825	123.302	125.112	125.601
Construction.....		ID5	213	140.700	142.077	143.761	143.939	144.517

See footnotes at end of table.

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

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	May 2022	June 2022 ^P	July 2022 ^P	Aug. 2022 ^P	Sept. 2022 ^P
Inputs to stage 2 services producers.....		ID5	22	135.939	136.224	137.087	138.889	138.792
Goods.....		ID5	221	147.930	150.429	148.917	148.707	148.589
Foods.....		ID5	2211	135.063	135.217	135.629	136.616	136.611
Energy.....		ID5	2212	207.130	235.630	200.118	191.708	196.842
Goods excluding foods and energy.....		ID5	2213	144.686	145.590	146.177	146.468	146.023
Services.....		ID5	222	133.696	133.615	134.785	136.942	136.820
Trade services.....		ID5	2223	172.845	173.931	180.559	188.600	184.693
Transportation and warehousing services.....		ID5	2222	167.731	164.706	165.556	169.045	160.703
Transportation of passengers.....		ID5	22221	133.305	138.535	134.593	135.490	134.786
Transportation and warehousing of goods.....		ID5	22222	174.788	170.227	171.963	175.943	166.160
Services less trade, transportation, and warehousing.....		ID5	2221	130.206	130.286	131.171	132.901	133.645
Construction.....		ID5	223	140.700	142.077	143.761	143.939	144.517
Stage 1 Intermediate Demand								
Stage 1 intermediate demand.....		ID5	1	149.761	151.203	148.484	147.772	148.575
Inputs to stage 1 goods producers.....		ID5	11	159.646	160.480	156.238	154.560	154.290
Goods.....		ID5	111	162.490	164.426	158.967	156.643	156.424
Foods.....		ID5	1111	179.631	181.165	171.365	174.641	183.769
Energy.....		ID5	1112	152.536	166.994	150.499	148.500	151.472
Goods excluding foods and energy.....		ID5	1113	166.132	165.210	162.971	159.557	156.985
Services.....		ID5	112	156.041	153.912	152.858	152.885	152.471
Trade services.....		ID5	1123	175.030	170.826	169.851	168.894	168.029
Transportation and warehousing services.....		ID5	1122	153.718	156.069	156.780	158.415	158.159
Transportation of passengers.....		ID5	11221	132.858	138.099	134.130	135.030	134.325
Transportation and warehousing of goods.....		ID5	11222	157.241	159.040	160.588	162.353	162.178
Services less trade, transportation, and warehousing.....		ID5	1121	106.735	106.958	105.644	106.723	106.957
Construction.....		ID5	113	140.700	142.077	143.761	143.939	144.517
Inputs to stage 1 services producers.....		ID5	12	141.879	143.821	142.199	142.453	143.852
Goods.....		ID5	121	152.999	159.397	154.068	151.169	153.583
Foods.....		ID5	1211	220.239	200.192	194.424	187.807	177.118
Energy.....		ID5	1212	189.396	207.837	189.016	178.141	185.590
Goods excluding foods and energy.....		ID5	1213	143.388	144.413	145.360	146.204	146.368
Services.....		ID5	122	136.016	135.728	135.960	137.787	138.678
Trade services.....		ID5	1223	167.639	167.948	169.156	169.103	170.719
Transportation and warehousing services.....		ID5	1222	140.883	142.528	142.980	142.671	142.328
Transportation of passengers.....		ID5	12221	132.778	138.017	134.050	134.950	134.245
Transportation and warehousing of goods.....		ID5	12222	160.268	160.060	163.049	162.027	161.853
Services less trade, transportation, and warehousing.....		ID5	1221	130.608	129.999	130.087	132.398	133.360
Construction.....		ID5	123	140.700	142.077	143.761	143.939	144.517
Inputs to stage 1 construction producers.....		ID5	13	170.262	171.225	167.516	165.031	166.152
Goods.....		ID5	131	166.806	170.696	167.920	166.615	168.157
Energy.....		ID5	1312	200.372	224.163	196.182	178.119	191.021
Goods excluding foods and energy.....		ID5	1313	165.080	166.448	166.898	167.748	167.839
Services.....		ID5	132	177.116	172.319	166.774	161.964	162.258
Trade services.....		ID5	1323	185.316	179.522	172.839	167.374	167.818
Transportation and warehousing services.....		ID5	1322	137.148	136.632	136.125	133.786	133.378
Transportation and warehousing of goods.....		ID5	13222	141.862	141.329	140.804	138.385	137.962
Services less trade, transportation, and warehousing.....		ID5	1321	127.544	129.129	129.127	133.011	133.190
Intermediate Demand by Production Flow Special Groupings								
Total goods inputs to stage 4 intermediate demand.....	04/10	ID5	9411	145.289	146.815	145.495	145.376	145.433
Total services inputs to stage 4 intermediate demand.....	04/10	ID5	9412	141.613	141.048	141.069	142.306	142.981
Total construction inputs to stage 4 intermediate demand.....	04/10	ID5	9413	139.535	140.900	142.570	142.746	143.320
Total foods inputs to stage 4 intermediate demand.....	04/10	ID5	9414	154.275	154.380	152.571	152.831	153.522
Total energy goods inputs to stage 4 intermediate demand.....	04/10	ID5	9415	141.275	152.318	142.954	139.340	141.245
Total goods less foods and energy inputs to stage 4 intermediate demand.....	04/10	ID5	9416	145.727	146.051	145.990	146.333	146.016
Total goods inputs to stage 3 intermediate demand.....	04/10	ID5	9311	161.046	163.284	158.555	153.503	153.192
Total services inputs to stage 3 intermediate demand.....	04/10	ID5	9312	140.664	139.976	140.527	140.848	140.822
Total construction inputs to stage 3 intermediate demand.....	04/10	ID5	9313	139.535	140.900	142.570	142.746	143.320
Total foods inputs to stage 3 intermediate demand.....	04/10	ID5	9314	177.903	176.934	174.903	171.429	169.452
Total energy goods inputs to stage 3 intermediate demand.....	04/10	ID5	9315	176.499	190.842	171.342	157.483	163.467
Total goods less foods and energy inputs to stage 3 intermediate demand.....	04/10	ID5	9316	154.794	154.486	153.254	150.252	148.567
Total goods inputs to stage 2 intermediate demand.....	04/10	ID5	9211	152.147	160.291	146.524	154.452	154.267
Total services inputs to stage 2 intermediate demand.....	04/10	ID5	9212	136.017	136.031	137.351	139.393	139.336
Total construction inputs to stage 2 intermediate demand.....	04/10	ID5	9213	139.535	140.900	142.570	142.746	143.320
Total foods inputs to stage 2 intermediate demand.....	04/10	ID5	9214	177.056	180.374	171.714	176.870	181.799
Total energy goods inputs to stage 2 intermediate demand.....	04/10	ID5	9215	143.502	158.766	135.505	150.719	151.073
Total goods less foods and energy inputs to stage 2 intermediate demand.....	04/10	ID5	9216	146.394	145.759	144.197	142.865	141.448
Total goods inputs to stage 1 intermediate demand.....	04/10	ID5	9111	142.223	145.596	141.159	139.059	139.924

See footnotes at end of table.

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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	May 2022	June 2022 ^p	July 2022 ^p	Aug. 2022 ^p	Sept. 2022 ^p
Total services inputs to stage 1 intermediate demand.....	04/10	ID5	9112	141.922	140.934	140.459	141.403	141.999
Total construction inputs to stage 1 intermediate demand.....	04/10	ID5	9117	139.535	140.900	142.570	142.746	143.320
Total foods inputs to stage 1 intermediate demand.....	04/10	ID5	9114	169.970	170.981	161.831	164.722	172.932
Total energy goods inputs to stage 1 intermediate demand.....	04/10	ID5	9115	169.691	186.422	168.416	160.572	166.566
Total goods less foods and energy inputs to stage 1 intermediate demand.....	04/10	ID5	9116	131.508	131.651	131.106	130.136	129.186

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.