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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 2023

The Producer Price Index for final demand increased 0.5 percent in September, seasonally adjusted, the U.S. Bureau of Labor Statistics reported today. Final demand prices rose 0.7 percent in August and 0.6 percent in July. (See table A.) On an unadjusted basis, the index for final demand advanced 2.2 percent for the 12 months ended in September, the largest increase since moving up 2.3 percent for the 12 months ended in April.

Leading the increase in the final demand index in September, prices for final demand goods rose 0.9 percent. The index for final demand services advanced 0.3 percent.

Prices for final demand less foods, energy, and trade services increased 0.2 percent in September, the fourth consecutive advance. For the 12 months ended in September, the index for final demand less foods, energy, and trade services moved up 2.8 percent.

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

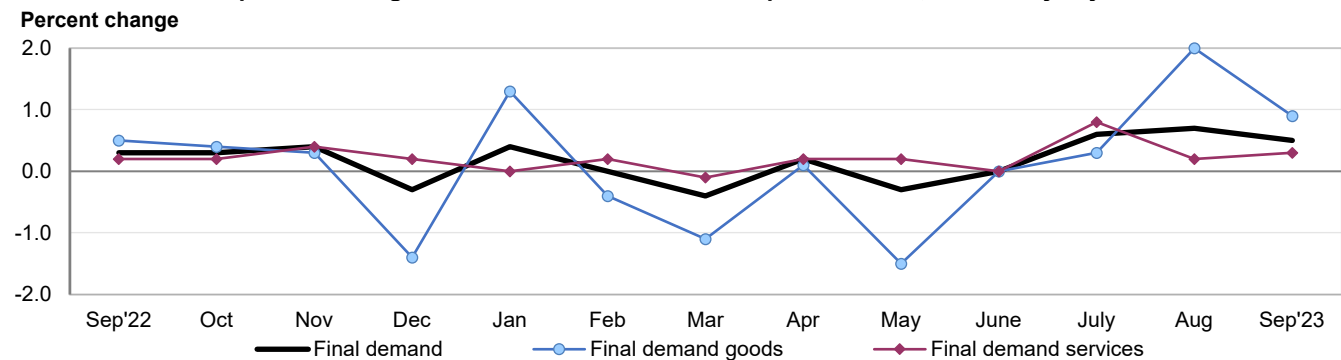
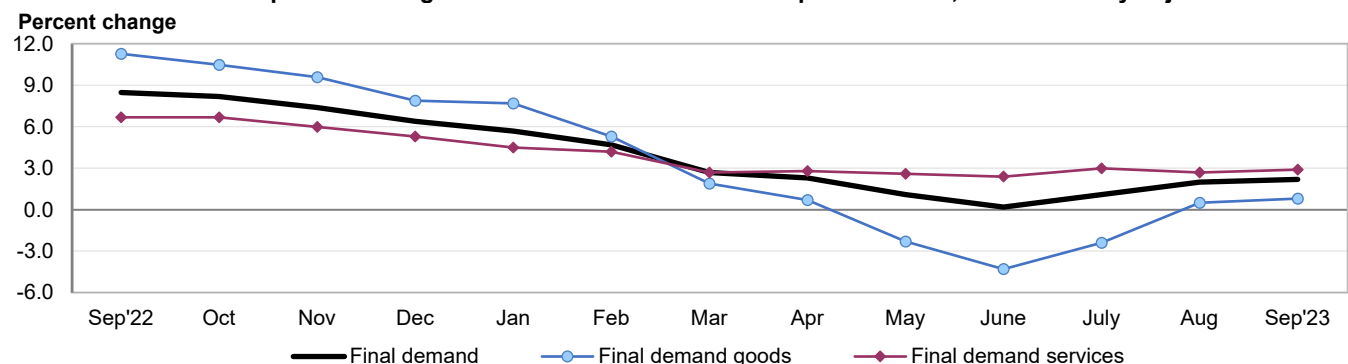


Chart 2. Twelve-month percent changes in selected PPI final demand price indexes, not seasonally adjusted



Final Demand

Final demand goods: The index for final demand goods moved up 0.9 percent in September, the third consecutive increase. Nearly three-quarters of the broad-based September advance is attributable to a 3.3-percent rise in prices for final demand energy. The indexes for final demand foods and for final demand goods less foods and energy moved up 0.9 percent and 0.1 percent, respectively.

Product detail: Over 40 percent of the September increase in prices for final demand goods can be traced to a 5.4-percent rise in the index for gasoline. Prices for jet fuel, processed young chickens, meats, electric power, and diesel fuel also advanced. In contrast, the index for fresh and dry vegetables declined 13.9 percent. Prices for wood pulp and for utility natural gas also fell. (See table 2.)

Final demand services: The index for final demand services advanced 0.3 percent in September following a 0.2-percent rise in August. Over 60 percent of the September increase is attributable to prices for final demand services less trade, transportation, and warehousing, which climbed 0.3 percent. The index for final demand trade services moved up 0.5 percent. (Trade indexes measure changes in margins received by wholesalers and retailers.) Conversely, prices for final demand transportation and warehousing services declined 0.4 percent.

Product detail: A 13.9-percent jump in the index for deposit services (partial) was a major factor in the September rise in prices for final demand services. The indexes for machinery, equipment, parts, and supplies wholesaling; health, beauty, and optical goods retailing; traveler accommodation services; outpatient care (partial); and application software publishing also moved higher. In contrast, prices for airline passenger services fell 2.1 percent. The indexes for automobile retailing (partial) and for bundled wired telecommunications access services also decreased.

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

Month	Total final demand	Final demand less foods, energy, and trade	Final demand goods				Final demand services				Change in final demand from 12 months ago (unadj.)	Change in final demand less foods, energy, and trade from 12 mo. ago (unadj.)
			Total	Foods	Energy	Less foods and energy	Total	Trade	Transportation and warehousing	Other		
2022												
Sept...	0.3	0.3	0.5	1.5	1.0	0.0	0.2	-0.3	-0.2	0.5	8.5	5.6
Oct....	0.3	0.2	0.4	0.7	1.5	0.0	0.2	0.2	0.0	0.2	8.2	5.5
Nov....	0.4	0.4	0.3	3.3	-2.3	0.3	0.4	0.5	-0.4	0.5	7.4	4.9
Dec....	-0.3	0.2	-1.4	-0.9	-6.3	0.1	0.2	0.3	0.0	0.2	6.4	4.7
2023												
Jan... ..	0.4	0.5	1.3	-1.3	5.4	0.6	0.0	-0.8	-0.5	0.5	5.7	4.4
Feb... ..	0.0	0.3	-0.4	-2.3	-0.8	0.3	0.2	-0.2	-0.8	0.4	4.7	4.5
Mar... ..	-0.4	0.1	-1.1	0.2	-6.1	0.2	-0.1	-0.6	-0.7	0.2	2.7	3.7
Apr.....	0.2	0.2	0.1	-0.4	0.7	0.1	0.2	0.4	-2.5	0.5	2.3	3.4
May ¹ ...	-0.3	0.0	-1.5	-1.0	-6.9	0.1	0.2	0.8	-0.5	0.0	1.1	2.9
June ¹ ..	0.0	0.2	0.0	-0.2	0.8	-0.2	0.0	-0.7	0.0	0.3	0.2	2.8
July ¹ ...	0.6	0.3	0.3	0.4	0.8	0.0	0.8	1.6	0.3	0.6	1.1	2.9
Aug. ¹ ..	0.7	0.2	2.0	-0.5	10.3	0.1	0.2	0.2	-0.3	0.3	2.0	2.9
Sept...	0.5	0.2	0.9	0.9	3.3	0.1	0.3	0.5	-0.4	0.3	2.2	2.8

¹ Some of the figures shown above and elsewhere in this release may differ from those previously reported because data for May 2023 through August 2023 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 advanced 0.5 percent, the index for unprocessed goods rose 4.0 percent, and prices for services moved up 0.3 percent. (See tables B and C.)

Processed goods for intermediate demand: The index for processed goods for intermediate demand increased 0.5 percent in September after rising 2.2 percent in August. Most of the September advance is attributable to prices for processed energy goods, which jumped 2.4 percent. The index for processed foods and feeds moved up 1.1 percent, while prices for processed materials less foods and energy were unchanged. For the 12 months ended in September, the index for processed goods for intermediate demand fell 3.7 percent.

Product detail: A major factor in the September increase in prices for processed goods for intermediate demand was the index for diesel fuel, which advanced 2.5 percent. Prices for gasoline, jet fuel, liquefied petroleum gas, processed young chickens, and fatty acids also moved higher. Conversely, the index for steel mill products decreased 3.7 percent. Prices for natural gas to electric utilities and for soybean cake and meal also declined.

Unprocessed goods for intermediate demand: The index for unprocessed goods for intermediate demand rose 4.0 percent in September, the third consecutive increase. Over 70 percent of the September advance can be traced to a 7.5-percent jump in prices for unprocessed energy materials. The index for unprocessed foodstuffs and feedstuffs moved up 3.5 percent. In contrast, prices for unprocessed nonfood materials less energy fell 0.8 percent. For the 12 months ended in September, the index for unprocessed goods for intermediate demand decreased 21.0 percent.

Product detail: Seventy percent of the September rise in prices for unprocessed goods for intermediate demand can be attributed to the index for crude petroleum, which increased 10.1 percent. Prices for raw milk; slaughter chickens; hay, hayseeds, and oilseeds; slaughter cattle; and recyclable paper also advanced. Conversely, the index for nonferrous scrap fell 0.8 percent. Prices for corn and for wheat 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.)
2022										
Sept.....	-0.1	-0.1	2.0	-0.8	12.9	-3.1	1.3	-6.6	-0.6	29.2
Oct.....	-0.2	-0.2	1.5	-0.8	10.1	-9.7	-0.7	-18.1	-4.1	9.3
Nov.....	-0.5	0.8	-1.9	-0.2	7.6	-3.1	0.0	-6.7	-0.7	3.5
Dec.....	-2.5	-0.6	-9.8	-0.4	4.8	1.5	-0.2	5.2	-1.7	10.7
2023										
Jan.....	1.1	0.2	4.9	0.1	3.9	-4.7	-5.8	-7.0	2.1	2.8
Feb.....	-0.4	-2.1	-1.6	0.2	2.1	-4.9	-1.0	-10.9	0.3	-10.4
Mar.....	-1.0	-0.2	-3.9	-0.2	-1.0	-4.7	-0.7	-11.1	-0.9	-16.8
Apr.....	-0.5	-1.1	-2.9	0.2	-3.4	1.1	-1.5	3.7	1.8	-20.3
May ¹	-1.6	-1.8	-7.0	-0.1	-7.2	-5.2	-4.6	-8.0	-2.1	-28.2
June ¹	-0.5	-1.1	-0.5	-0.4	-9.4	-0.9	1.0	-2.7	-1.6	-32.1
July ¹	-0.3	1.3	-0.1	-0.5	-7.6	2.4	-0.8	10.1	-3.1	-24.0
Aug. ¹	2.2	0.8	11.9	-0.1	-4.3	2.1	0.1	5.6	0.0	-26.3
Sept.....	0.5	1.1	2.4	0.0	-3.7	4.0	3.5	7.5	-0.8	-21.0

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Services for intermediate demand: The index for services for intermediate demand increased 0.3 percent in September after no change in August. Nearly 60 percent of the broad-based September advance is attributable to prices for services less trade, transportation, and warehousing for intermediate demand, which rose 0.3 percent. The indexes for transportation and warehousing services for intermediate demand and for trade services for intermediate demand moved up 0.7 percent and 0.2 percent, respectively. For the 12 months ended in September, prices for services for intermediate demand increased 4.1 percent.

Product detail: A 4.0-percent rise in the index for gross rents of retail properties was a major factor in the September advance in prices for services for intermediate demand. The indexes for deposit services (partial); machinery and equipment parts and supplies wholesaling; arrangement of freight and cargo transportation; investment banking; and hardware, building materials, and supplies retailing also rose. In contrast, prices for loan services (partial) decreased 2.0 percent. The indexes for metals, minerals, and ores wholesaling and for airline passenger services also fell.

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

Month	Services for intermediate demand				Total, change from 12 months ago (unadj.)
	Total	Trade	Transportation and warehousing	Other	
2022					
Sept.....	0.5	0.1	-0.4	0.8	6.2
Oct.....	0.4	0.0	0.6	0.5	6.7
Nov.....	0.8	0.9	-1.3	1.2	6.9
Dec.....	0.0	-1.3	0.0	0.4	6.0
2023					
Jan.....	1.0	0.8	0.5	1.1	6.3
Feb.....	0.3	-0.7	0.0	0.7	6.2
Mar.....	-0.3	0.9	-1.0	-0.5	4.5
Apr.....	0.7	0.8	-1.1	1.0	4.4
May ¹	0.2	-0.3	-0.3	0.4	3.9
June ¹	0.0	-0.8	-0.1	0.2	4.3
July ¹	0.6	2.1	0.8	0.2	4.7
Aug. ¹	0.0	-0.2	-0.8	0.3	4.3
Sept.....	0.3	0.2	0.7	0.3	4.1

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Intermediate Demand by Production Flow

Stage 4 intermediate demand: Prices for stage 4 intermediate demand increased 0.4 percent in September, the third consecutive rise. In September, the index for total services inputs to stage 4 intermediate demand advanced 0.5 percent, and prices for total goods inputs moved up 0.3 percent. (See table D.) Increases in the indexes for gross rents of retail properties, deposit services (partial), machinery and equipment parts and supplies wholesaling, gasoline, investment banking, and for commercial and industrial machinery and equipment repair and maintenance outweighed declines in the indexes for loan services (partial); grains; and metals, minerals, and ores wholesaling. For the 12 months ended in September, prices for stage 4 intermediate demand rose 2.4 percent.

Stage 3 intermediate demand: The index for stage 3 intermediate demand advanced 0.9 percent in September after moving up 1.1 percent in August. In September, prices for total goods inputs to stage 3 intermediate demand rose 1.6 percent, and the index for total services inputs increased 0.3 percent. Higher prices for raw milk, slaughter chickens, jet fuel, deposit services (partial), diesel fuel, and arrangement of freight and cargo transportation outweighed declines in the indexes for grains, loan services (partial), and television advertising time sales. For the 12 months ended in September, prices for stage 3 intermediate demand fell 3.2 percent.

Stage 2 intermediate demand: The index for stage 2 intermediate demand rose 1.5 percent in September, the third consecutive increase. In September, prices for total goods inputs to stage 2 intermediate demand jumped 3.4 percent, and the index for total services inputs edged up 0.1 percent. Advances in the indexes for crude petroleum, deposit services (partial), gas fuels, oilseeds, arrangement of freight and cargo transportation, and machinery and equipment parts and supplies wholesaling outweighed decreases in prices for loan services (partial), broadcast and network television advertising time sales, and wood pulp. For the 12 months ended in September, the index for stage 2 intermediate demand declined 6.9 percent.

Stage 1 intermediate demand: The index for stage 1 intermediate demand moved up 0.4 percent in September after advancing 1.4 percent in August. In September, the index for total services inputs to stage 1 intermediate demand rose 0.4 percent, and prices for total goods inputs climbed 0.3 percent. Increases in the indexes for gross rents of retail properties; diesel fuel; hardware, building materials, and supplies retailing; gasoline; investment banking; and traveler accommodation services outweighed decreases in the indexes for grains; metals, minerals, and ores wholesaling; and airline passenger services. For the 12 months ended in September, prices for stage 1 intermediate demand fell 1.0 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
2022												
Sept.....	0.4	0.1	0.7	0.0	-0.1	0.1	-1.9	-4.0	0.3	0.3	0.3	0.2
Oct.....	0.1	-0.1	0.2	-0.1	-0.6	0.5	-4.7	-9.8	0.8	0.1	-0.2	0.4
Nov.....	0.4	-0.2	1.0	-0.4	-1.1	0.3	-1.0	-2.9	0.8	0.1	-0.6	0.9
Dec.....	-0.4	-0.7	0.0	-2.0	-3.8	0.0	1.0	1.5	0.6	-1.8	-3.0	-0.4
2023												
Jan.....	1.0	0.8	1.2	0.2	-0.5	0.9	-0.9	-2.9	0.9	0.7	0.8	0.7
Feb.....	0.0	-0.1	0.2	-0.2	-0.6	0.1	-1.4	-4.6	1.2	-0.3	-0.4	-0.2
Mar.....	-0.3	-0.5	-0.1	-0.7	-1.1	-0.4	-2.5	-4.9	-0.7	-0.4	-1.0	0.2
Apr.....	0.3	-0.2	0.7	-0.2	-1.2	0.7	0.9	1.2	0.7	-0.1	-0.7	0.5
May ¹	-0.2	-0.6	0.2	-1.4	-3.0	-0.1	-1.4	-4.1	0.6	-1.0	-1.8	-0.2
June ¹	-0.1	0.0	-0.1	-0.2	-0.1	-0.2	-1.0	-2.1	-0.2	-0.2	-0.6	0.2
July ¹	0.4	-0.1	0.9	-0.4	-1.4	0.5	1.9	4.1	0.3	0.1	-0.7	0.9
Aug. ¹	0.6	0.8	0.5	1.1	3.3	-0.7	0.7	2.3	-0.4	1.4	2.6	0.3
Sept.....	0.4	0.3	0.5	0.9	1.6	0.3	1.5	3.4	0.1	0.4	0.3	0.4

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

The Producer Price Index for October 2023 is scheduled to be released on Wednesday, November 15, 2023, at 8:30 a.m. (ET).

Technical Note

Brief Explanation of Producer Price Indexes

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

More than 10,000 PPIs for individual products and groups of products are released each month. PPIs are available for the products of virtually every industry in the mining and manufacturing sectors. Over time, new PPIs have been introduced for products of industries in the services and construction sectors of the U.S. economy. As of January 2023, the PPI covered 69 percent of services as measured by 2017 Census revenue, and 17 percent of construction.

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

Final Demand–Intermediate Demand Indexes

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

Compared with finished goods under the SOP system, the PPI for final demand goods includes nearly a 50 percent expansion of coverage. This increase can be traced to the addition of government purchases and exports. For overall final demand, expansion to include final demand services represents an even larger increase in coverage. In December 2022, final demand goods were about 30.7 percent of overall final demand, final demand services were roughly 66.6 percent, and final demand construction was about 2.7 percent of final demand. Within intermediate demand, coverage of services for intermediate demand resulted in about a 45 percent increase in coverage of the intermediate demand portion of the economy.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Comparing the PPI with CPI

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

Commodity Indexes

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

Industry Net-Output Price Indexes

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

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

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

Data Collection

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

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

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

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

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

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

Title	Code	PPI Detailed Report Issue
SIC		
Retail bakeries	5461	July 2000
Miscellaneous food stores	5499	July 2000
New car dealers	5511	July 2000
Gasoline service stations	5541	January 2002
Boat dealers	5551	January 2002
Recreational vehicle dealers	5561	January 2002
Miscellaneous retail	59	January 2001
Security brokers, dealers, and investment bankers	6211	January 2001
Investment advice	6282	January 2003
Life insurance carriers	6311	January 1999
Property and casualty insurance	6331	July 1998
Insurance agencies and brokerages	6412	January 2003
Operators and lessors of nonresidential buildings	6512	January 1996
Real estate agents and managers	6531	January 1996
Prepackaged software	7372	January 1998
Data processing services	7374	January 2002
Home health care services	8082	January 1997
Legal services	8111	January 1997
Engineering design, analysis, and consulting services	8711	January 1997
Architectural design, analysis, and consulting services	8712	January 1997
Premiums for property and casualty insurance	9331	July 1998
NAICS		
New Industrial building construction	236211	January 2008
New warehouse building construction ..	236221	July 2005
New school construction	236222	July 2006
New office construction	236223	January 2007
New health care building construction...	236224	January 2013
Concrete contractors, nonresidential building work	23811X	July 2008
Roofing contractors, nonresidential building work	23816X	July 2008
Electrical contractors, nonresidential building work	23821X	July 2008
Plumbing / HVAC contractors, nonresidential building work	23822X	July 2008
Merchant wholesalers, durable goods ..	423	July 2005
Merchant wholesalers, nondurable goods	424	July 2005
Electronics and appliance stores	443	January 2004
Building material and garden equipment and supplies dealers.....	444	January 2004
Sporting goods, hobby, book, and music stores	451	January 2004
General merchandise stores	452	January 2004
Miscellaneous store retailers	453	January 2004
Pipeline transportation of natural gas....	486210	June 2022
Internet service providers	518111	July 2005
Internet publishing and web search portals	519130	January 2010
Commercial banking	522110	January 2005
Savings institutions	522120	January 2005
Direct health and medical insurance carriers	524114	July 2004

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

Weights

Weights for most commodity groupings of the PPI, as well as, weights for commodity-based aggregate indexes calculated from commodity groupings, such as FD-ID indexes, currently reflect 2017 values of shipments as reported in the *Census of Manufactures* and other sources. From January 2018 to December 2022, PPI weights were derived from 2012 shipment values. Industry indexes now are calculated under the 2022 NAICS structure utilizing 2017 value of shipment weights and 2012 net output ratios. The periodic update of the value weights used to calculate the PPI is done to more accurately reflect changes in production and marketing patterns in the economy.

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

Price Index Reference Base

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

reference base is not used for commodity indexes with a base later than December 1981 or for industry net output indexes and their products. The FD-ID indexes typically have a reference base of November 2009 = 100.

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

Calculating Index Changes

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

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

Index point change

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

Index percent change

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

Seasonally Adjusted and Unadjusted Data

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

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

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

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

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

Since January 1988, the PPI has used Intervention Analysis Seasonal Adjustment methods to enhance the calculation of seasonal factors. With this technique, outlier values that may distort the seasonal pattern are removed from the data prior to applying the standard seasonal factor estimation procedure. For example, a possible economic cause for large price movements for petroleum-based products might have been the COVID-19 pandemic. In this case, intervention techniques allowed for better estimates of seasonally adjusted data. On the whole, very few series have required intervention. Out of over 400 seasonally adjusted commodity series, 69 were subject to intervention in 2023.

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

Producer Price Index Data on the Internet

In 1995, the BLS began posting PPI series, news releases, and technical information to the internet. There were more than 13 million instances of PPI data being downloaded from the BLS website during 2022.

Retrieving PPI data from the PPI Web site

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

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

EXAMPLES

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional information

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

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

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

Grouping	Commodity code		Relative Importance Dec. 2022 ¹	Unadjusted 12-month percent change ² Sept. 2022 to Sept. 2023 ^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	2.2	-0.3	0.0	0.6	0.7	0.5
Final demand goods.....	FD	41	30.653	0.8	-1.5	0.0	0.3	2.0	0.9
Final demand foods.....	FD	411	5.940	-1.2	-1.0	-0.2	0.4	-0.5	0.9
Finished consumer foods ³	FD	4111	4.511	0.1	-1.0	0.2	0.1	-0.3	0.9
Finished consumer foods, crude.....	FD	41113	0.606	-24.2	-16.3	2.1	-1.8	-5.7	-3.5
Finished consumer foods, processed.....	FD	41112	3.905	2.3	0.7	0.0	0.3	0.2	1.2
Government purchased foods.....	FD	4112	0.406	2.0	0.3	-0.3	1.5	0.2	1.6
Foods for export.....	FD	4113	1.023	-8.3	-1.7	-1.8	1.5	-1.5	0.9
Final demand energy.....	FD	412	5.853	-1.0	-6.9	0.8	0.8	10.3	3.3
Finished consumer energy goods ³	FD	4121	4.451	2.1	-6.7	1.2	0.8	9.0	3.0
Government purchased energy.....	FD	4122	0.942	-9.6	-8.0	-0.6	0.3	15.8	3.6
Energy for export.....	FD	4123	0.460	-13.9	-7.7	-1.4	1.7	15.0	5.3
Final demand goods less foods and energy.....	FD	413	18.859	2.0	0.1	-0.2	0.0	0.1	0.1
Finished goods less foods and energy ³	FD	4131	10.768	3.4	0.3	0.0	0.2	0.2	0.2
Finished consumer goods less foods and energy.....	FD	41311	5.731	3.3	0.3	0.0	0.2	0.3	0.2
Nondurable consumer goods less foods and energy.....	FD	413111	3.441	4.2	0.4	0.0	0.2	0.3	0.1
Durable consumer goods.....	FD	413112	2.290	2.1	0.1	-0.1	0.1	0.2	0.3
Private capital equipment.....	FD	41312	5.037	3.6	0.4	0.1	0.3	0.1	0.1
Private capital equipment for manufacturing industries.....	FD	413121	1.222	4.4	0.6	0.2	0.3	0.1	0.1
Private capital equipment for nonmanufacturing industries.....	FD	413122	3.815	3.3	0.3	0.0	0.3	0.1	0.2
Government purchased goods, excluding foods and energy.....	FD	4132	1.967	0.8	-0.1	-0.2	0.0	0.2	0.1
Government purchased goods excluding foods, energy, and capital equipment.....	FD	41321	1.160	-0.1	-0.2	-0.4	-0.2	0.1	0.2
Government purchased capital equipment.....	FD	41322	0.807	2.1	0.1	0.1	0.4	0.2	0.1
Goods for export, excluding foods and energy.....	FD	4133	6.124	-0.2	-0.2	-0.5	-0.3	0.0	0.1
Final demand services.....	FD	42	66.677	2.9	0.2	0.0	0.8	0.2	0.3
Final demand trade services ⁴	FD	423	19.700	2.3	0.8	-0.7	1.6	0.2	0.5
Trade of finished goods ³	FD	4231	17.049	1.8	0.8	-0.5	1.2	0.3	0.4
Trade of personal consumption goods.....	FD	42311	13.855	1.2	0.7	-0.1	0.6	0.3	-0.1
Trade of private capital equipment.....	FD	42312	3.194	4.4	1.2	-2.4	3.9	0.3	2.6
Trade of government purchased goods.....	FD	4232	0.750	5.8	0.9	-1.4	4.2	0.0	1.2
Trade of government purchased goods, excluding capital equipment.....	FD	42321	0.457	4.2	0.1	-0.3	3.4	-0.2	0.0
Trade of government purchased capital equipment.....	FD	42322	0.293	8.6	2.3	-3.3	5.6	0.4	3.2
Trade of exports.....	FD	4233	1.901	5.0	0.6	-2.1	3.9	-0.1	1.3
Final demand transportation and warehousing services.....	FD	422	5.213	-5.7	-0.5	0.0	0.3	-0.3	-0.4
Transportation of passengers for final demand.....	FD	4221	1.275	-0.8	-1.1	2.0	1.7	-2.0	-2.0
Transportation of private passengers.....	FD	42211	0.860	-0.8	-1.1	2.0	1.7	-2.0	-2.0
Transportation of government passengers.....	FD	42212	0.103	-0.8	-1.1	2.0	1.7	-1.9	-2.0
Transportation of passengers for export.....	FD	42213	0.312	-0.8	-1.1	2.1	1.7	-2.0	-2.1
Transportation and warehousing of goods for final demand.....	FD	4222	3.938	-7.3	-0.3	-0.7	-0.2	0.3	0.2
Transportation and warehousing of finished goods ³	FD	42221	2.567	-8.1	-0.4	-0.7	-0.3	0.3	0.2
Transportation and warehousing of personal consumption goods.....	FD	422211	2.063	-7.8	-0.4	-0.7	-0.2	0.3	0.2
Transportation and warehousing of private capital equipment.....	FD	422212	0.504	-9.2	-0.4	-0.8	-0.6	0.2	0.2
Transportation and warehousing of government purchased goods.....	FD	42222	0.233	-5.8	-0.4	-0.7	0.2	0.2	0.3
Transportation and warehousing of exports.....	FD	42223	1.138	-6.0	-0.3	-0.6	-0.2	0.5	0.4
Final demand services less trade, transportation, and warehousing.....	FD	421	41.763	4.2	0.0	0.3	0.6	0.3	0.3
Finished services less trade, transportation, and warehousing ³	FD	4211	36.505	4.0	0.0	0.3	0.5	0.2	0.4
Finished consumer services less trade, transportation, and warehousing.....	FD	42111	32.158	4.0	-0.1	0.3	0.6	0.2	0.4
Private capital investment services less trade, transportation, and warehousing.....	FD	42112	4.347	3.2	0.5	0.4	0.2	0.9	0.1
Government purchased services less trade, transportation, and warehousing.....	FD	4212	2.674	4.0	0.1	0.4	0.6	0.5	0.1
Gov. purchased services less trade, transportation, and warehousing, excl. capital investment.....	FD	42121	2.515	4.1	0.0	0.4	0.6	0.5	0.1
Government purchased capital investment services less trade, transportation, and warehousing.....	FD	42122	0.159	1.9	0.5	0.4	0.1	0.7	-0.2
Services for export less trade, transportation, and warehousing.....	FD	4213	2.584	8.3	0.5	0.5	0.6	0.5	0.3
Final demand construction.....	FD	43	2.670	3.7	0.1	0.0	-1.2	0.1	0.1
Construction for private capital investment.....	FD	431	1.856	3.8	0.1	0.1	-1.3	0.1	0.1
Construction for government.....	FD	432	0.814	3.6	0.1	0.0	-1.1	0.1	0.0
Special Groupings of Final Demand									
Final demand less exports.....	FD	49101	86.458	2.4	-0.3	0.1	0.6	0.8	0.5
Final demand less government.....	FD	49102	92.111	2.3	-0.3	0.0	0.6	0.7	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 2023]

Grouping	Commodity code		Relative Importance Dec. 2022 ¹	Unadjusted 12-month percent change ² Sept. 2022 to Sept. 2023 ^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	87.791	2.6	0.2	-0.1	0.6	0.2	0.3
Final demand less foods and energy ⁵	FD	49104	88.207	2.7	0.2	0.0	0.6	0.2	0.3
Final demand less foods and food and nonalcoholic beverages for immediate consumption ⁵	FD	49105	93.644	2.3	-0.3	0.0	0.6	0.8	0.5
Final demand less foods ⁵	FD	49106	94.060	2.4	-0.3	0.0	0.6	0.8	0.5
Final demand less energy.....	FD	49107	94.147	2.4	0.1	0.0	0.6	0.2	0.3
Final demand less trade services.....	FD	49108	80.300	2.1	-0.6	0.2	0.4	0.9	0.5
Final demand less distributive services ⁶	FD	49109	76.362	2.6	-0.6	0.2	0.4	0.9	0.5
Final demand goods less energy.....	FD	49111	24.799	1.2	-0.2	-0.2	0.1	0.0	0.3
Final demand goods less foods.....	FD	49112	24.712	1.4	-1.6	0.0	0.2	2.5	0.9
Final demand services less trade services.....	FD	49113	46.976	3.1	-0.1	0.3	0.5	0.2	0.3
Final demand distributive services ⁶	FD	49114	23.638	0.7	0.6	-0.7	1.3	0.2	0.5
Final demand goods plus final demand distributive services ⁶	FD	49115	54.290	0.7	-0.6	-0.3	0.7	1.2	0.7
Final demand less foods, energy, and trade services ⁵	FD	49116	68.507	2.8	0.0	0.2	0.3	0.2	0.2
Private and government purchased capital equipment.....	FD	49117	5.844	3.4	0.3	0.1	0.3	0.1	0.1
Private and government purchased capital investment services.....	FD	49118	8.497	3.2	0.8	-0.8	1.7	0.6	1.1
Total private and government purchased capital investment.....	FD	49119	14.341	3.3	0.5	-0.4	0.8	0.4	0.6
Total finished ³	FD	49201	78.567	2.6	-0.3	0.1	0.6	0.7	0.5
Total finished less foods, food and nonalcoholic beverages for immediate consumption, and energy ^{3, 5}	FD	49202	69.193	2.8	0.2	0.1	0.6	0.2	0.3
Total finished less foods and energy ^{3, 5}	FD	49203	69.605	2.8	0.2	0.1	0.6	0.2	0.3
Total finished less foods and food and nonalcoholic beverages for immediate consumption ^{3, 5}	FD	49204	73.644	2.7	-0.2	0.1	0.6	0.7	0.5
Total finished less foods ^{3, 5}	FD	49205	74.056	2.7	-0.2	0.1	0.6	0.7	0.5
Total finished less energy ³	FD	49206	74.116	2.7	0.1	0.1	0.6	0.2	0.3
Finished goods ³	FD	49207	19.730	2.5	-1.6	0.3	0.3	2.1	1.0
Finished goods less energy ³	FD	49208	15.279	2.4	-0.1	0.1	0.2	0.1	0.4
Finished goods, excluding foods ^{3, 5}	FD	49209	15.219	3.2	-1.8	0.4	0.4	2.8	1.1
Finished services ³	FD	49210	56.981	2.7	0.2	0.1	0.7	0.2	0.3
Private capital investment services.....	FD	49211	8.045	3.0	0.7	-0.7	1.6	0.6	1.1
Finished distributive services ^{3, 6}	FD	49212	19.616	0.5	0.7	-0.5	1.0	0.3	0.4
Finished services less trade services ³	FD	49213	39.932	3.1	-0.1	0.3	0.5	0.2	0.3
Finished services less distributive services ^{3, 6}	FD	49214	37.365	3.8	-0.1	0.4	0.6	0.2	0.3
Total private capital investment (goods, services, and construction).....	FD	49215	14.938	3.3	0.5	-0.4	0.8	0.4	0.6
Finished goods plus finished distributive services ^{3, 6}	FD	49216	39.346	1.5	-0.5	-0.1	0.7	1.2	0.7
Total exports.....	FD	49301	13.542	0.5	-0.3	-0.6	0.7	0.4	0.5
Goods for export.....	FD	49302	7.607	-2.1	-0.8	-0.7	0.0	0.6	0.5
Services for export.....	FD	49303	5.935	4.0	0.3	-0.4	1.6	0.2	0.5
Total government purchases.....	FD	49401	7.889	0.9	-0.8	-0.1	0.6	1.9	0.7
Government purchased goods.....	FD	49402	3.315	-2.0	-2.2	-0.3	0.3	4.2	1.3
Government purchased services.....	FD	49403	3.760	3.7	0.2	0.0	1.3	0.3	0.3
Total government purchased capital investment (goods, services, construction).....	FD	49404	2.073	3.5	0.5	-0.4	0.5	0.2	0.5
Government purchases, defense.....	FD	49405	2.344	1.0	-0.9	0.0	1.2	2.3	1.0
Government purchases, non-defense.....	FD	49406	5.545	0.8	-0.8	-0.2	0.4	1.7	0.5
Personal consumption.....	FD	49501	63.629	2.4	-0.5	0.2	0.5	0.8	0.5
Personal consumption goods (finished consumer goods).....	FD	49502	14.693	2.0	-2.3	0.4	0.4	2.8	1.3
Personal consumption goods less energy.....	FD	49503	10.242	1.9	-0.3	0.1	0.2	0.0	0.5
Personal consumption goods less foods.....	FD	49504	10.182	2.9	-2.9	0.5	0.5	4.1	1.5
Personal consumption nondurable goods less foods.....	FD	49508	7.892	3.3	-3.7	0.7	0.6	5.2	1.8
Personal consumption services.....	FD	49505	48.936	2.6	0.1	0.2	0.6	0.2	0.2
Personal consumption less trade services.....	FD	49506	49.774	2.8	-0.8	0.3	0.5	0.9	0.6
Personal consumption less distributive services ⁶	FD	49507	47.711	3.2	-0.8	0.4	0.5	0.9	0.6
Personal consumption less foods and energy.....	FD	49510	54.667	2.7	0.1	0.2	0.5	0.2	0.2
Personal consumption less foods, energy, and trade services ⁴	FD	49511	40.812	3.2	-0.1	0.3	0.5	0.1	0.3
Personal consumption less foods, energy, and distributive services ⁶	FD	49512	38.749	3.8	-0.1	0.3	0.6	0.1	0.3
Personal consumption goods plus personal consumption distributive services ⁶	FD	49509	30.611	1.0	-0.8	0.1	0.4	1.5	0.6
Intermediate Demand by Commodity Type									
Processed goods									
Processed goods for intermediate demand.....	ID6	1	100.000	-3.7	-1.6	-0.5	-0.3	2.2	0.5
Materials and components for manufacturing.....	ID6	11	42.908	-3.9	-0.3	-0.7	-0.8	-0.1	0.0
Materials for manufacturing.....	ID6	111	26.996	-7.1	-0.4	-1.1	-1.4	-0.2	0.0
Materials for food manufacturing.....	ID6	1111	4.432	-3.2	-1.9	-1.6	0.7	0.9	1.3
Materials for nondurable manufacturing.....	ID6	1112	12.302	-9.5	-1.7	-1.7	-1.7	-0.2	0.5
Materials for durable manufacturing.....	ID6	1113	10.262	-5.6	1.8	-0.3	-1.9	-0.6	-1.1
Components for manufacturing.....	ID6	112	15.912	1.7	-0.1	0.0	0.1	0.0	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 2023]

Grouping	Commodity code		Relative Importance Dec. 2022 ¹	Unadjusted 12-month percent change ² Sept. 2022 to Sept. 2023 ^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	0.793	-2.5	-0.2	-0.5	-0.4	-0.2	-0.6
Components for durable manufacturing.....	ID6	1122	15.119	1.9	-0.1	0.0	0.1	0.0	0.1
Materials and components for construction.....	ID6	12	10.348	0.1	-0.2	-0.1	0.3	0.2	0.2
Materials for construction.....	ID6	121	4.574	-0.1	0.1	0.0	0.5	0.4	0.3
Components for construction.....	ID6	122	5.774	0.3	-0.5	-0.2	0.1	0.1	0.2
Processed fuels and lubricants for intermediate demand.....	ID6	13	19.830	-8.4	-7.0	-0.5	-0.1	11.9	2.4
Processed fuels and lubricants to manufacturing industries.....	ID6	131	5.016	-9.9	-4.5	0.3	-0.8	6.7	1.6
Processed fuels and lubricants to nonmanufacturing industries.....	ID6	132	14.814	-7.9	-7.8	-0.7	0.1	13.6	2.6
Containers for intermediate demand.....	ID6	14	3.107	-2.4	0.3	-0.4	-0.2	-0.6	-0.2
Supplies for intermediate demand.....	ID6	15	23.807	-0.6	-0.4	-0.3	0.2	0.1	0.2
Supplies to manufacturing industries.....	ID6	151	3.173	-1.7	0.0	-0.2	-0.2	-0.3	-0.2
Supplies to nonmanufacturing industries.....	ID6	152	20.634	-0.4	-0.5	-0.3	0.3	0.1	0.2
Supplies to nonmanufacturing industries, feeds.....	ID6	1521	2.363	-6.8	-2.9	-0.8	3.0	0.9	0.3
Supplies to nonmanufacturing industries, other than feeds.....	ID6	1522	18.271	0.4	-0.2	-0.2	0.0	0.0	0.2
Unprocessed goods									
Unprocessed goods for intermediate demand.....	ID6	2	100.000	-21.0	-5.2	-0.9	2.4	2.1	4.0
Unprocessed foodstuffs and feedstuffs.....	ID6	21	36.058	-10.6	-4.6	1.0	-0.8	0.1	3.5
Unprocessed nonfood materials.....	ID6	22	63.942	-25.5	-5.6	-2.2	4.6	3.4	4.3
Unprocessed nonfood materials except fuel.....	ID6	221	45.514	-2.8	-6.1	-2.9	2.7	4.3	5.1
Unprocessed nonfood materials except fuel to manufacturing industries.....	ID6	2211	43.610	-3.4	-6.4	-3.0	2.8	4.5	5.3
Unprocessed nonfood materials except fuel to nonmanufacturing industries.....	ID6	2212	1.904	8.4	0.4	0.6	0.2	0.8	0.5
Unprocessed fuel.....	ID6	222	18.428	-65.9	-2.3	1.7	15.4	-1.4	0.4
Unprocessed fuel to manufacturing industries.....	ID6	2221	0.982	-30.8	-2.8	1.0	3.9	1.3	0.8
Unprocessed fuel to nonmanufacturing industries.....	ID6	2222	17.446	-67.7	-2.3	1.8	16.8	-1.6	0.3
Services									
Services for intermediate demand.....	ID6	3	100.000	4.1	0.2	0.0	0.6	0.0	0.3
Trade services for intermediate demand ⁴	ID6	33	18.127	2.4	-0.3	-0.8	2.1	-0.2	0.2
Trade services for manufacturing industries.....	ID6	331	8.929	2.2	-0.8	-1.5	1.8	-0.5	0.1
Trade services for nonmanufacturing industries.....	ID6	332	9.198	2.7	0.1	0.0	2.4	0.1	0.2
Transportation and warehousing services for intermediate demand.....	ID6	32	14.516	-2.1	-0.3	-0.1	0.8	-0.8	0.7
Transportation of passengers for intermediate demand.....	ID6	321	1.069	-0.8	-1.1	2.0	1.7	-1.9	-2.0
Transportation of passengers for manufacturing industries.....	ID6	3211	0.127	-0.8	-1.1	2.0	1.7	-2.0	-2.1
Transportation of passengers for nonmanufacturing industries.....	ID6	3212	0.942	-0.8	-1.1	2.0	1.7	-1.9	-2.0
Transportation and warehousing of goods for intermediate demand.....	ID6	322	13.447	-2.2	-0.3	-0.2	0.7	-0.8	0.9
Transportation and warehousing of goods for manufacturing industries.....	ID6	3221	2.941	-5.5	-0.2	-0.8	0.0	0.3	0.2
Transportation and warehousing of goods for nonmanufacturing industries.....	ID6	3222	10.506	-1.3	-0.3	-0.1	0.9	-1.0	1.1
Services less trade, transportation, and warehousing for intermediate demand.....	ID6	31	67.357	6.0	0.4	0.2	0.2	0.3	0.3
Services less trade, transportation, and warehousing for manufacturing industries.....	ID6	311	2.068	3.9	0.3	0.0	0.3	0.2	0.0
Services less trade, transportation, and warehousing for nonmanufacturing industries.....	ID6	312	65.288	6.1	0.4	0.2	0.2	0.3	0.3
Construction									
Construction for intermediate demand.....	ID6	4	100.000	3.9	1.4	0.1	0.1	0.1	0.0
Special Groupings of Intermediate Demand by Commodity Type									
Processed materials less foods and feeds.....	ID6	9111	90.968	-3.7	-1.6	-0.4	-0.5	2.3	0.5
Processed foods and feeds.....	ID6	9112	9.032	-3.1	-1.8	-1.1	1.3	0.8	1.1
Processed energy goods.....	ID6	9113	19.830	-8.4	-7.0	-0.5	-0.1	11.9	2.4
Processed materials less energy.....	ID6	9118	80.170	-2.4	-0.3	-0.5	-0.4	0.0	0.1
Processed materials less foods and energy.....	ID6	9115	71.138	-2.3	-0.1	-0.4	-0.5	-0.1	0.0
Intermediate distributive services ⁷	ID6	9116	31.574	0.5	-0.3	-0.5	1.5	-0.4	0.5
Processed goods plus intermediate distributive services.....	ID6	9117	-	-2.5	-1.2	-0.5	0.2	1.4	0.5
Unprocessed materials less agricultural products.....	ID6	9211	58.389	-24.6	-5.6	-2.7	6.2	3.8	5.2
Unprocessed energy materials ⁸	ID6	9212	43.623	-31.3	-8.0	-2.7	10.1	5.6	7.5
Unprocessed materials less energy.....	ID6	9213	56.377	-10.4	-3.7	0.0	-1.7	0.1	1.8
Unprocessed nonfood materials less energy ⁹	ID6	9216	20.319	-10.3	-2.1	-1.6	-3.1	0.0	-0.8
Intermediate Demand by Production Flow									
Stage 4 Intermediate Demand									
Stage 4 intermediate demand.....	ID5	4	100.000	2.4	-0.2	-0.1	0.4	0.6	0.4
Inputs to stage 4 goods producers.....	ID5	41	30.237	-0.2	-0.1	-0.4	0.0	0.0	0.1
Goods.....	ID5	411	22.423	-1.7	-0.2	-0.1	-0.3	-0.1	-0.1

See footnotes at end of table.

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

Grouping	Commodity code		Relative Importance Dec. 2022 ¹	Unadjusted 12-month percent change ² Sept. 2022 to Sept. 2023 ^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	3.300	-8.6	-2.1	-0.4	-1.4	0.7	-0.4
Energy.....	ID5	4112	0.220	-5.4	-10.4	4.1	-0.3	4.9	4.7
Goods excluding foods and energy.....	ID5	4113	18.903	-0.4	0.2	-0.1	-0.1	-0.2	-0.1
Services.....	ID5	412	7.814	3.8	0.4	-1.2	1.1	0.3	0.4
Trade services.....	ID5	4123	5.817	4.5	0.5	-1.7	1.4	0.4	0.6
Transportation and warehousing services.....	ID5	4122	0.515	-4.3	-0.7	-0.2	0.1	0.0	-0.1
Transportation of passengers.....	ID5	41221	0.077	-0.8	-1.1	2.1	1.7	-2.0	-2.1
Transportation and warehousing of goods.....	ID5	41222	0.438	-4.9	-0.7	-0.6	-0.2	0.3	0.3
Services less trade, transportation, and warehousing.....	ID5	4121	1.482	3.9	0.1	0.4	0.2	0.1	0.1
Inputs to stage 4 services producers.....	ID5	42	54.970	4.5	0.0	0.1	0.7	0.8	0.5
Goods.....	ID5	421	13.984	0.1	-0.7	0.0	0.1	1.2	0.5
Foods.....	ID5	4211	2.360	-1.5	-0.6	-0.3	1.1	0.6	1.7
Energy.....	ID5	4212	4.133	-1.4	-2.0	0.2	-0.3	4.0	0.8
Goods excluding foods and energy.....	ID5	4213	7.491	1.1	-0.1	0.0	0.1	-0.1	0.1
Services.....	ID5	422	40.934	6.2	0.3	0.1	0.9	0.6	0.5
Trade services.....	ID5	4223	4.078	3.1	0.1	-1.2	2.7	0.0	0.3
Transportation and warehousing services.....	ID5	4222	3.742	1.3	-0.8	-0.1	1.4	-0.7	0.6
Transportation of passengers.....	ID5	42221	0.490	-0.8	-1.1	2.0	1.7	-2.0	-2.0
Transportation and warehousing of goods.....	ID5	42222	3.252	1.6	-0.8	-0.4	1.3	-0.5	1.0
Services less trade, transportation, and warehousing.....	ID5	4221	33.114	7.2	0.4	0.2	0.7	0.8	0.5
Construction.....	ID5	423	0.052	3.9	1.4	0.1	0.1	0.1	0.0
Inputs to stage 4 construction producers.....	ID5	43	14.792	0.2	-1.1	0.1	0.2	1.3	0.5
Goods.....	ID5	431	10.801	0.5	-1.2	0.1	0.1	1.8	0.6
Energy.....	ID5	4312	0.855	-4.1	-12.0	1.5	-1.0	19.1	4.7
Goods excluding foods and energy.....	ID5	4313	9.946	0.9	-0.2	0.0	0.2	0.3	0.2
Services.....	ID5	432	3.991	-0.7	-1.0	0.0	0.5	-0.2	0.2
Trade services.....	ID5	4323	1.692	-0.6	-2.3	0.2	1.0	-0.5	0.2
Transportation and warehousing services.....	ID5	4322	0.725	-8.5	-0.6	-0.6	-0.4	0.2	0.1
Transportation of passengers.....	ID5	43221	0.015	-0.8	-1.1	2.0	1.7	-2.0	-2.1
Transportation and warehousing of goods.....	ID5	43222	0.710	-8.7	-0.6	-0.7	-0.5	0.2	0.2
Services less trade, transportation, and warehousing.....	ID5	4321	1.574	3.1	0.3	0.1	0.3	0.0	0.3
Stage 3 Intermediate Demand									
Stage 3 intermediate demand.....	ID5	3	100.000	-3.2	-1.4	-0.2	-0.4	1.1	0.9
Inputs to stage 3 goods producers.....	ID5	31	45.352	-7.2	-1.8	-0.2	-1.3	0.3	1.0
Goods.....	ID5	311	35.807	-8.5	-1.9	0.0	-1.7	0.6	1.3
Foods.....	ID5	3111	11.906	-11.3	-5.6	1.4	-2.0	2.2	4.3
Energy.....	ID5	3112	1.292	-20.4	-7.1	0.6	-2.2	8.3	3.9
Goods excluding foods and energy.....	ID5	3113	22.609	-6.1	0.1	-0.7	-1.6	-0.5	-0.2
Services.....	ID5	312	9.545	-2.3	-1.4	-0.9	0.4	-0.6	-0.1
Trade services.....	ID5	3123	5.175	-1.2	-2.6	-1.4	0.8	-1.3	-0.4
Transportation and warehousing services.....	ID5	3122	3.002	-6.9	-0.3	-0.6	-0.4	0.2	0.1
Transportation of passengers.....	ID5	31221	0.144	-0.8	-1.1	2.1	1.7	-2.0	-2.1
Transportation and warehousing of goods.....	ID5	31222	2.858	-7.2	-0.2	-0.7	-0.5	0.3	0.3
Services less trade, transportation, and warehousing.....	ID5	3121	1.368	4.4	0.5	0.1	0.4	0.2	0.1
Inputs to stage 3 services producers.....	ID5	32	53.518	0.2	-1.1	-0.1	0.3	1.8	0.8
Goods.....	ID5	321	10.628	-8.1	-6.7	-0.6	-0.4	13.3	2.6
Foods.....	ID5	3211	0.090	-4.1	0.3	-1.4	0.1	1.1	-0.5
Energy.....	ID5	3212	6.619	-11.9	-10.7	-0.9	-0.5	22.7	4.1
Goods excluding foods and energy.....	ID5	3213	3.919	-0.3	-0.5	-0.1	-0.2	0.0	0.0
Services.....	ID5	322	42.317	3.0	0.3	0.0	0.4	-0.7	0.4
Trade services.....	ID5	3223	2.614	2.9	-0.9	0.9	2.8	-0.4	-0.5
Transportation and warehousing services.....	ID5	3222	10.018	-0.2	-0.2	0.3	1.0	-1.6	1.5
Transportation of passengers.....	ID5	32221	0.021	-0.1	0.0	-0.1	0.2	0.1	-0.1
Transportation and warehousing of goods.....	ID5	32222	9.997	-0.2	-0.2	0.3	1.0	-1.7	1.5
Services less trade, transportation, and warehousing.....	ID5	3221	29.685	4.2	0.5	-0.2	0.0	-0.4	0.1
Construction.....	ID5	323	0.573	3.9	1.4	0.1	0.1	0.1	0.0
Inputs to stage 3 construction producers.....	ID5	33	1.131	-0.2	-0.2	0.8	1.4	0.8	1.0
Goods.....	ID5	331	0.566	-2.9	-0.1	0.0	0.2	0.0	0.1
Goods excluding foods and energy.....	ID5	3313	0.566	-2.9	-0.1	0.0	0.2	0.0	0.1
Services.....	ID5	332	0.565	2.5	-0.3	1.7	2.6	1.5	1.9
Trade services.....	ID5	3323	0.521	2.6	-0.4	1.9	2.8	1.6	2.1
Transportation and warehousing services.....	ID5	3322	0.015	-1.5	0.2	-0.8	-0.2	0.7	0.5
Transportation and warehousing of goods.....	ID5	33222	0.015	-1.5	0.2	-0.8	-0.2	0.7	0.5
Services less trade, transportation, and warehousing.....	ID5	3321	0.029	4.0	0.8	-0.2	0.6	0.1	-0.3
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 2023]

Grouping	Commodity code		Relative Importance Dec. 2022 ¹	Unadjusted 12-month percent change ² Sept. 2022 to Sept. 2023 ^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	-6.9	-1.4	-1.0	1.9	0.7	1.5
Inputs to stage 2 goods producers.....	ID5	21	54.274	-15.1	-3.1	-1.9	3.8	1.6	2.7
Goods.....	ID5	211	40.812	-20.0	-4.5	-2.4	4.7	2.5	3.8
Foods.....	ID5	2111	4.355	-10.4	-2.5	-3.2	4.4	-1.1	1.7
Energy.....	ID5	2112	21.042	-31.0	-8.5	-2.9	10.7	5.8	7.6
Goods excluding foods and energy.....	ID5	2113	15.415	-5.1	-0.9	-1.6	-1.1	-0.1	0.1
Services.....	ID5	212	13.197	3.4	0.6	-0.9	1.8	-0.4	0.0
Trade services.....	ID5	2123	5.150	3.2	0.8	-1.7	3.6	-0.9	-0.2
Transportation and warehousing services.....	ID5	2122	4.488	0.0	0.2	-0.7	1.3	0.0	0.1
Transportation of passengers.....	ID5	21221	0.168	-0.8	-1.0	1.9	1.6	-1.9	-2.0
Transportation and warehousing of goods.....	ID5	21222	4.320	0.0	0.2	-0.8	1.3	0.1	0.2
Services less trade, transportation, and warehousing.....	ID5	2121	3.559	7.9	0.7	-0.2	-0.1	-0.3	0.0
Construction.....	ID5	213	0.265	3.9	1.4	0.1	0.1	0.1	0.0
Inputs to stage 2 services producers.....	ID5	22	45.725	4.3	0.4	0.0	-0.1	-0.3	0.1
Goods.....	ID5	221	5.072	-1.9	-1.1	-0.3	-0.1	0.8	0.3
Foods.....	ID5	2211	0.055	-16.4	-2.8	-1.9	-0.3	-1.0	0.3
Energy.....	ID5	2212	0.357	-14.3	-11.9	-1.1	0.8	15.7	2.2
Goods excluding foods and energy.....	ID5	2213	4.660	-0.8	-0.3	-0.2	-0.1	-0.1	0.2
Services.....	ID5	222	39.767	5.2	0.6	0.0	-0.1	-0.4	0.1
Trade services.....	ID5	2223	2.238	0.7	3.6	-0.3	-0.6	1.5	-1.0
Transportation and warehousing services.....	ID5	2222	2.862	-11.5	-0.4	1.2	-0.2	-5.5	2.0
Transportation of passengers.....	ID5	22221	0.390	-0.8	-1.1	2.0	1.7	-2.0	-2.0
Transportation and warehousing of goods.....	ID5	22222	2.472	-13.0	-0.3	1.1	-0.5	-6.2	2.8
Services less trade, transportation, and warehousing.....	ID5	2221	34.667	6.9	0.5	0.0	-0.1	-0.1	0.0
Construction.....	ID5	223	0.886	3.9	1.4	0.1	0.1	0.1	0.0
Stage 1 Intermediate Demand									
Stage 1 intermediate demand.....	ID5	1	100.000	-1.0	-1.0	-0.2	0.1	1.4	0.4
Inputs to stage 1 goods producers.....	ID5	11	33.533	-6.2	-1.5	-0.9	-0.3	0.5	-0.1
Goods.....	ID5	111	24.780	-8.3	-1.5	-0.8	-1.0	1.0	-0.1
Foods.....	ID5	1111	3.351	-19.3	-3.2	-0.4	-2.6	-0.2	-2.3
Energy.....	ID5	1112	3.963	-11.9	-7.5	0.0	0.8	6.7	2.1
Goods excluding foods and energy.....	ID5	1113	17.466	-5.4	0.1	-1.1	-1.1	0.1	-0.2
Services.....	ID5	112	8.752	-0.2	-1.6	-1.0	1.5	-1.0	-0.1
Trade services.....	ID5	1123	5.298	-1.6	-2.5	-1.8	2.0	-1.7	-0.2
Transportation and warehousing services.....	ID5	1122	0.599	-2.6	1.6	-1.0	0.4	0.5	-0.3
Transportation of passengers.....	ID5	11221	0.103	-0.8	-1.1	2.1	1.7	-2.0	-2.1
Transportation and warehousing of goods.....	ID5	11222	0.496	-2.7	2.1	-1.6	0.1	1.0	0.0
Services less trade, transportation, and warehousing.....	ID5	1121	2.855	3.1	-0.3	0.4	0.9	0.0	0.1
Construction.....	ID5	113	0.001	3.9	1.4	0.1	0.1	0.1	0.0
Inputs to stage 1 services producers.....	ID5	12	53.646	2.5	-0.6	0.2	0.4	1.8	0.6
Goods.....	ID5	121	16.434	-2.7	-2.5	-0.5	-0.5	4.8	0.8
Foods.....	ID5	1211	0.115	-26.2	-26.5	-12.8	-0.1	0.4	-1.0
Energy.....	ID5	1212	5.528	-9.9	-7.0	-1.3	-1.4	15.3	2.0
Goods excluding foods and energy.....	ID5	1213	10.791	2.1	0.0	-0.1	0.0	0.1	0.2
Services.....	ID5	122	37.209	5.4	0.2	0.4	0.7	0.6	0.5
Trade services.....	ID5	1223	3.617	3.0	0.2	0.3	1.6	0.1	-0.2
Transportation and warehousing services.....	ID5	1222	4.373	0.3	-0.4	0.4	1.4	-0.4	-0.3
Transportation of passengers.....	ID5	12221	1.342	-0.8	-1.1	2.1	1.7	-2.0	-2.1
Transportation and warehousing of goods.....	ID5	12222	3.031	0.7	-0.1	-0.3	1.2	0.3	0.5
Services less trade, transportation, and warehousing.....	ID5	1221	29.219	6.5	0.3	0.5	0.5	0.8	0.6
Construction.....	ID5	123	0.003	3.9	1.4	0.1	0.1	0.1	0.0
Inputs to stage 1 construction producers.....	ID5	13	12.821	-1.1	-1.1	0.1	0.3	2.2	0.7
Goods.....	ID5	131	9.208	-1.4	-1.3	-0.3	-0.2	2.7	0.5
Energy.....	ID5	1312	0.934	-18.7	-12.9	-2.7	-3.6	30.0	2.7
Goods excluding foods and energy.....	ID5	1313	8.274	1.1	-0.1	0.0	0.1	0.4	0.3
Services.....	ID5	132	3.613	-0.4	-0.7	1.0	1.6	1.0	1.3
Trade services.....	ID5	1323	2.667	2.6	-0.9	1.5	2.3	1.3	1.7
Transportation and warehousing services.....	ID5	1322	0.854	-10.1	-0.3	-0.8	-0.6	0.2	0.1
Transportation and warehousing of goods.....	ID5	13222	0.854	-10.1	-0.3	-0.8	-0.6	0.2	0.1
Services less trade, transportation, and warehousing.....	ID5	1321	0.092	5.0	-0.1	0.0	0.5	0.0	0.9
Special Groupings of Intermediate Demand by Production Flow									
Total goods inputs to stage 4 intermediate demand.....	ID5	9411	47.208	-0.6	-0.6	0.0	-0.1	0.8	0.3
Total services inputs to stage 4 intermediate demand.....	ID5	9412	52.739	5.2	0.2	-0.1	0.9	0.5	0.5
Total construction inputs to stage 4 intermediate demand.....	ID5	9413	0.052	3.9	1.4	0.1	0.1	0.1	0.0
Total foods inputs to stage 4 intermediate demand.....	ID5	9414	5.660	-5.6	-1.5	-0.3	-0.3	0.6	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 2023]

Grouping	Commodity code		Relative Importance Dec. 2022 ¹	Unadjusted 12-month percent change ² Sept. 2022 to Sept. 2023 ^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	5.208	-2.0	-4.1	0.5	-0.4	6.5	1.6
Total goods less foods and energy inputs to stage 4 intermediate demand.	ID5	9416	36.340	0.3	0.0	-0.1	0.0	-0.1	0.0
Total goods inputs to stage 3 intermediate demand.....	ID5	9311	47.001	-8.4	-3.0	-0.1	-1.4	3.3	1.6
Total services inputs to stage 3 intermediate demand.....	ID5	9312	52.427	2.0	-0.1	-0.2	0.5	-0.7	0.3
Total construction inputs to stage 3 intermediate demand.....	ID5	9313	0.573	3.9	1.4	0.1	0.1	0.1	0.0
Total foods inputs to stage 3 intermediate demand.....	ID5	9314	11.996	-11.2	-5.5	1.4	-2.0	2.2	4.2
Total energy goods inputs to stage 3 intermediate demand.....	ID5	9315	7.911	-13.4	-10.1	-0.6	-0.8	20.3	4.0
Total goods less foods and energy inputs to stage 3 intermediate demand.	ID5	9316	27.094	-5.2	0.0	-0.6	-1.3	-0.5	-0.2
Total goods inputs to stage 2 intermediate demand.....	ID5	9211	45.884	-18.2	-4.1	-2.1	4.1	2.3	3.4
Total services inputs to stage 2 intermediate demand.....	ID5	9212	52.964	4.8	0.6	-0.2	0.3	-0.4	0.1
Total construction inputs to stage 2 intermediate demand.....	ID5	9213	1.151	3.9	1.4	0.1	0.1	0.1	0.0
Total foods inputs to stage 2 intermediate demand.....	ID5	9214	4.410	-10.5	-2.5	-3.2	4.4	-1.1	1.7
Total energy goods inputs to stage 2 intermediate demand.....	ID5	9215	21.399	-30.8	-8.6	-2.8	10.5	5.9	7.4
Total goods less foods and energy inputs to stage 2 intermediate demand.	ID5	9216	20.075	-4.1	-0.8	-1.3	-0.9	-0.1	0.1
Total goods inputs to stage 1 intermediate demand.....	ID5	9111	50.422	-5.3	-1.8	-0.6	-0.7	2.6	0.3
Total services inputs to stage 1 intermediate demand.....	ID5	9112	49.574	3.8	-0.2	0.2	0.9	0.3	0.4
Total construction inputs to stage 1 intermediate demand.....	ID5	9117	0.004	3.9	1.4	0.1	0.1	0.1	0.0
Total foods inputs to stage 1 intermediate demand.....	ID5	9114	3.466	-19.6	-3.9	-0.7	-2.6	-0.2	-2.3
Total energy goods inputs to stage 1 intermediate demand.....	ID5	9115	10.425	-11.7	-7.7	-0.9	-0.8	13.2	2.1
Total goods less foods and energy inputs to stage 1 intermediate demand.	ID5	9116	36.531	-1.7	0.0	-0.5	-0.5	0.2	0.0

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 2023]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Sept. 2022 to Sept. 2023 ^P	Apr. to May	May to June ^P	June to July ^P	July to Aug. ^P
Final Demand								
Final demand.....	FD	4	2.2	-0.3	0.0	0.6	0.7	0.5
Final demand goods.....	FD	41	0.8	-1.5	0.0	0.3	2.0	0.9
Final demand foods.....	FD	411	-1.2	-1.0	-0.2	0.4	-0.5	0.9
Fresh fruits and melons ²	01	11	-2.6	-2.5	2.1	-10.2	4.7	0.2
Fresh and dry vegetables ²	01	13	-27.6	-15.8	-0.8	3.5	-11.5	-13.9
Grains.....	01	2	-32.5	-5.5	1.9	-8.7	-2.7	-5.6
Eggs for fresh use ²	01	7107	-41.4	-53.4	33.8	0.3	9.8	8.1
Oilseeds.....	01	8301	-12.7	-1.2	-6.9	9.0	-4.3	4.2
Bakery products ²	02	11	5.0	0.3	0.4	-0.1	0.2	1.0
Milled rice ²	02	13	3.5	-0.8	-0.1	-0.4	-0.9	-2.2
Pasta products ²	02	1402	0.6	0.0	0.0	-2.0	0.0	0.0
Beef and veal.....	02	2101	21.6	7.7	2.1	3.0	-4.6	2.9
Pork.....	02	2104	0.2	-4.1	-0.4	10.7	1.0	2.4
Processed young chickens.....	02	2203	-9.9	-1.9	-0.1	-1.6	0.6	10.8
Processed turkeys ²	02	2206	-37.7	-8.9	-7.4	-3.0	-3.2	-2.5
Finfish and shellfish.....	02	23	-5.8	1.1	-1.9	0.6	-0.9	-1.6
Dairy products.....	02	3	-7.1	-1.3	-2.2	-1.4	2.3	1.3
Processed fruits and vegetables ²	02	4	12.3	1.3	1.0	0.3	0.6	2.6
Confectionery end products ²	02	55	2.6	0.4	0.7	1.3	-1.1	0.4
Soft drinks ²	02	62	4.8	2.6	0.7	-1.8	0.9	-0.8
Roasted coffee ²	02	6301	9.4	0.2	-0.1	0.0	7.5	0.1
Shortening and cooking oils ²	02	78	-12.6	-2.1	-0.7	3.2	-0.3	-1.1
Frozen specialty food ²	02	85	3.3	1.0	-0.5	-0.1	0.2	-0.4
Final demand energy.....	FD	412	-1.0	-6.9	0.8	0.8	10.3	3.3
Liquefied petroleum gas ²	05	32	-25.8	-17.4	-6.1	25.4	6.3	8.0
Residential electric power.....	05	41	5.4	0.4	0.9	-0.1	-0.1	0.8
Residential natural gas.....	05	51	-14.6	-1.3	-0.7	1.7	-1.1	-0.2
Gasoline.....	05	71	6.3	-13.6	3.1	0.3	19.3	5.4
Home heating oil and distillates.....	05	7302	-6.8	-12.3	1.7	15.8	18.1	12.3
No. 2 diesel fuel.....	05	7303	-18.6	-13.6	-4.6	-4.8	39.3	2.5
Final demand goods less foods and energy.....	FD	413	2.0	0.1	-0.2	0.0	0.1	0.1
Alcoholic beverages.....	02	61	3.2	0.3	-0.5	0.1	0.2	0.5
Pet food ²	02	9402	7.5	0.0	0.0	0.0	0.0	0.0
Women's, girls', and infants' apparel ²	03	8106	-1.3	0.1	0.1	0.1	0.0	0.1
Men's and boys' apparel ²	03	8107	2.4	2.3	0.0	-0.5	0.1	0.0
Textile housefurnishings ²	03	82	1.9	0.0	0.1	0.0	-0.3	0.0
Footwear.....	04	3	2.2	0.0	0.4	0.1	-0.1	-0.3
Industrial chemicals.....	06	1	-11.8	-2.0	-2.3	-2.4	-0.4	0.8
Pharmaceutical preparations.....	06	38	2.7	0.0	0.2	0.3	0.4	0.2
Soaps and detergents ²	06	71	9.9	0.0	-0.1	0.1	0.0	0.0
Cleaning and polishing products ²	06	72	2.4	0.0	0.1	-0.2	0.0	0.0
Cosmetics and other toiletries ²	06	75	5.1	0.5	0.4	0.0	0.0	-0.1
Tires ²	07	1201	4.4	-0.2	-0.3	-0.1	0.0	-0.2
Consumer, institutional, and commercial products, n.e.c. ²	07	2B	0.0	-0.1	0.0	0.1	0.1	-0.2
Sanitary paper products ²	09	1501	5.6	0.4	0.3	0.0	-0.4	0.1
Iron and steel scrap.....	10	12	4.0	-5.3	-8.9	2.6	3.1	0.8
Agricultural machinery and equipment.....	11	1	2.8	0.4	-0.3	0.5	0.0	0.0
Construction machinery and equipment ²	11	2	6.1	0.1	0.0	1.6	-0.3	0.0
Metal cutting machine tools ²	11	37	3.5	0.5	0.0	0.5	0.0	0.0
Metal forming machine tools.....	11	38	10.6	1.8	0.2	0.3	0.0	7.8
Tools, dies, jigs, fixtures, and industrial molds ²	11	39	5.1	0.1	0.7	0.1	0.2	0.0
Pumps, compressors, and equipment.....	11	41	7.2	0.9	0.4	1.5	0.5	-0.5
Industrial material handling equipment ²	11	44	4.9	0.5	0.3	0.0	0.0	0.0
Electronic computers and computer equipment ²	11	5	0.4	-0.5	-1.5	-0.2	1.5	-0.2
Textile machinery and equipment ²	11	62	-0.1	0.0	0.0	0.0	0.0	0.0
Paper industries machinery ²	11	64	5.2	0.5	1.7	0.0	-0.3	-0.1
Printing trades machinery and equipment ²	11	65	1.3	0.2	-0.3	0.1	0.6	-0.5
Transformers and power regulators ²	11	74	0.2	0.3	-0.2	0.5	0.4	0.0
Communication and related equipment.....	11	76	2.3	0.0	0.5	0.0	0.3	0.1
Electronic components and accessories.....	11	78	0.1	-1.0	0.2	0.1	0.1	-0.2
X-ray and electromedical equipment ²	11	7905	2.6	0.1	0.0	1.1	0.0	0.0
Oil field and gas field machinery ²	11	91	7.0	0.0	0.0	0.0	0.0	0.3
Mining machinery and equipment ²	11	92	6.7	0.3	0.0	0.3	0.0	0.0
Internal combustion engines ²	11	94	6.6	0.0	0.1	1.8	0.0	-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 2023]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Sept. 2022 to Sept. 2023 ^P	Apr. to May	May to June ^P	June to July ^P	July to Aug. ^P
Household furniture ²	12	1	0.6	-0.3	0.3	0.2	0.0	-0.2
Commercial furniture ²	12	2	3.5	0.5	-0.2	0.7	-0.3	0.2
Floor coverings ²	12	3	1.5	-0.2	-0.4	-0.1	1.4	0.0
Household appliances ²	12	4	2.1	0.7	-0.1	-0.3	1.0	0.1
Home electronic equipment ²	12	5	1.1	0.0	0.0	0.0	0.0	0.0
Lawn and garden equipment excl. garden tractors ²	12	66	2.7	-0.3	0.0	0.0	0.0	0.0
Passenger cars.....	14	1101	-1.7	-0.3	-0.7	0.2	0.3	0.1
Light motor trucks.....	14	1105	3.1	0.1	-0.2	0.3	0.1	0.5
Heavy motor trucks ²	14	1106	1.9	0.1	0.3	0.4	0.0	0.0
Motor vehicles parts ²	14	12	1.2	0.2	-0.1	0.2	0.0	0.1
Truck trailers ²	14	14	-2.4	-0.2	0.0	-0.8	0.0	-0.2
Travel trailers and campers ²	14	16	1.5	0.0	0.0	0.5	0.2	0.1
Aircraft.....	14	21	4.1	0.5	0.3	0.1	0.0	0.1
Ships ²	14	31	2.4	0.8	0.0	0.7	0.0	0.1
Railroad equipment ²	14	4	1.4	0.0	0.0	0.3	0.0	0.0
Toys, games, and children's vehicles ²	15	11	2.3	0.0	0.0	0.0	0.0	0.0
Sporting and athletic goods ²	15	12	10.5	0.4	0.0	0.0	2.2	1.4
Cigarettes ²	15	21	11.2	1.9	0.0	1.1	1.4	0.4
Mobile homes ²	15	5	-2.6	0.4	0.2	0.0	0.0	0.1
Medical, surgical & personal aid devices.....	15	6	2.4	0.2	0.6	-0.1	0.1	0.0
Jewelry, platinum and karat gold ²	15	9402	4.4	1.0	-1.7	-0.5	-0.9	0.6
Costume jewelry and novelties ²	15	9404	7.1	0.9	0.0	0.0	0.0	0.0
Final demand services.....	FD	42	2.9	0.2	0.0	0.8	0.2	0.3
Final demand trade services ³	FD	423	2.3	0.8	-0.7	1.6	0.2	0.5
Machinery and equipment parts and supplies wholesaling ²	57	1102	9.1	2.9	-1.7	0.5	2.3	1.7
Machinery and vehicle wholesaling ²	57	1103	8.0	2.7	-4.0	7.3	0.5	2.8
Professional and commercial equipment wholesaling ²	57	1104	14.2	1.1	-0.6	-1.0	0.4	6.4
Furnishings wholesaling ²	57	2	-4.7	-6.9	0.9	0.4	0.1	-0.9
Chemicals and allied products wholesaling ²	57	5	-5.0	-2.9	-5.0	8.3	-3.0	0.4
Paper and plastics products wholesaling ²	57	6	1.0	0.2	-0.6	-1.8	3.0	-0.1
Apparel wholesaling ²	57	7	12.7	-5.4	3.1	-2.3	5.9	4.8
Food and alcohol wholesaling ²	57	8	5.1	2.2	-2.1	3.8	-1.1	-0.3
Food and alcohol retailing.....	58	1	5.1	1.5	2.2	-2.2	0.2	-0.7
Health, beauty, and optical goods retailing ²	58	2	9.4	1.6	-0.6	0.4	0.4	2.2
Apparel, jewelry, footwear, and accessories retailing.....	58	3	1.6	4.5	-1.9	-1.6	4.1	-2.1
Computer hardware, software, and supplies retailing ²	58	4	-20.5	-0.6	-1.7	-0.2	-0.3	3.1
TV, video, and photographic equipment and supplies retailing.....	58	5	7.1	-9.0	12.9	-8.2	-6.5	12.5
Automobiles retailing (partial).....	58	6101	-27.5	-3.6	-1.8	-2.3	-0.4	-2.7
Automotive parts, including tires, retailing ²	58	6102	1.8	1.3	0.9	0.5	0.9	0.7
RVs, trailers, and campers retailing ²	58	8	-15.9	6.8	-3.7	1.7	-6.4	0.3
Sporting goods, including boats, retailing.....	58	9	-2.8	-1.4	-1.2	-1.9	0.4	0.5
Lawn, garden, and farm equipment and supplies retailing ²	58	A	10.4	-1.1	0.2	2.5	-0.1	1.7
Furniture retailing ²	58	B	4.7	0.9	2.7	-2.8	-3.2	1.1
Flooring and floor coverings retailing ²	58	C	0.8	-0.8	1.5	-0.4	-1.4	0.0
Hardware, building materials, and supplies retailing.....	58	D	7.2	0.7	4.5	6.8	3.2	4.8
Major household appliances retailing.....	58	E	10.3	-4.0	-1.4	-0.1	7.4	3.5
Fuels and lubricants retailing.....	58	F	-13.5	12.1	-1.8	-9.2	5.0	-4.3
Cleaning supplies and paper products retailing ²	58	G	15.2	-1.9	3.6	-3.7	4.1	1.3
Book retailing ²	58	H	-1.2	0.3	0.5	0.9	-0.6	0.5
Final demand transportation and warehousing services.....	FD	422	-5.7	-0.5	0.0	0.3	-0.3	-0.4
Rail transportation of freight and mail ²	30	11	-0.3	-0.9	-0.4	-0.1	0.4	0.6
Truck transportation of freight ²	30	12	-10.4	-0.5	-0.7	-0.6	0.1	0.1
Air transportation of freight ²	30	14	-8.0	-1.3	-1.5	1.2	0.7	-0.7
Courier, messenger, and U.S. postal services.....	30	16	6.0	0.1	-0.1	1.7	1.0	0.6
Rail transportation of passengers.....	30	21	0.0	0.1	-0.2	0.1	0.2	0.0
Airline passenger services.....	30	22	-0.8	-1.1	2.1	1.7	-2.0	-2.1
Final demand services less trade, transportation, and warehousing.....	FD	421	4.2	0.0	0.3	0.6	0.3	0.3
Sales of books.....	33	11	7.2	0.3	0.5	0.6	-0.1	0.9
Sales and subscriptions of periodicals and newspapers.....	33	12	-3.0	0.3	-0.3	0.2	0.9	0.1
Application software publishing ²	34	2	-1.0	1.0	0.0	-1.8	0.1	2.1
Advertising space sales in periodicals, newspapers, directories, and mailing lists ²	36	1	2.5	-0.2	-0.3	0.0	-0.4	-0.4
Residential wired telecommunication services ²	37	11	4.9	1.4	0.2	-0.1	0.5	0.5
Wireless telecommunication services.....	37	2	0.4	0.6	0.2	0.1	-1.1	0.2
Cable and satellite subscriber services.....	37	3	10.0	0.2	1.1	0.1	1.1	0.6
Internet access services ²	37	4	0.3	-0.8	0.6	-0.2	-0.6	-0.2

See footnotes at end of table.

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

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Sept. 2022 to Sept. 2023 ^P	Apr. to May	May to June ^P	June to July ^P	July to Aug. ^P
Bundled wired telecommunications access services ²	37	5	1.3	-1.5	0.0	-0.3	1.0	-3.1
Consumer loans (partial).....	39	12	-0.2	-0.4	-2.6	-0.7	3.3	1.0
Deposit services (partial) ²	39	2	32.2	0.1	5.6	-0.7	-2.3	13.9
Other credit intermediation, incl. trust services (partial) ²	39	3	3.3	1.3	0.0	0.0	2.5	0.0
Securities brokerage, dealing, investment advice, and related services ² ...	40	1	28.2	3.2	0.0	1.7	0.9	-0.2
Portfolio management ²	40	2	7.3	-3.0	-0.3	7.2	1.9	-0.5
Life insurance ²	41	1101	-1.6	-0.5	0.0	-0.3	0.0	-0.4
Disability insurance, including accidental death ²	41	1102	0.0	0.0	0.0	0.0	0.0	0.0
Health and medical insurance.....	41	1103	3.2	-0.1	0.2	0.0	0.5	0.2
Property and casualty insurance ²	41	1104	6.9	0.5	2.1	0.1	0.2	0.3
Annuities ²	41	2	-0.3	0.0	-0.1	0.5	0.0	0.0
Residential property sales and leases, brokerage fees and commissions..	43	21	4.6	1.0	0.8	0.5	1.4	0.3
Passenger car rental.....	44	1	-4.4	-3.1	-2.7	0.5	0.8	1.1
Legal services.....	45	1	5.6	-0.2	0.3	0.7	0.2	0.3
Tax preparation and planning.....	45	2102	6.2	0.6	-0.9	1.7	0.8	-0.2
Architectural and engineering services.....	45	3	3.0	0.3	0.2	0.3	0.1	0.3
Management, scientific, and technical consulting services.....	45	4	3.2	-0.7	2.9	-1.5	0.1	0.0
Arrangement of flights (partial).....	47	1	-0.4	0.1	-0.9	1.6	0.2	0.1
Arrangement of vehicle rentals and lodging ²	47	2	5.1	-1.2	-1.0	-1.1	0.4	-0.2
Arrangement of cruises and tours ²	47	3	13.9	1.9	5.0	1.6	0.8	-0.7
Physician care.....	51	1101	0.7	0.1	0.1	0.0	0.0	0.0
Medical laboratory and diagnostic imaging care ²	51	1102	0.5	0.1	0.0	0.0	0.1	0.0
Home health and hospice care.....	51	1103	6.9	0.1	0.3	0.3	0.9	0.7
Hospital outpatient care ²	51	1104	3.1	0.2	-0.2	1.4	-0.1	0.4
Dental care.....	51	1105	3.0	0.0	0.0	0.1	0.8	0.0
Hospital inpatient care.....	51	2101	3.4	0.3	0.4	0.0	-0.3	0.3
Nursing home care.....	51	2102	5.2	0.2	0.0	1.4	0.1	-0.2
Traveler accommodation services.....	53	11	6.1	-3.0	2.7	0.0	-1.6	2.0
Food and beverages for immediate consumption services (partial) ²	54	1	3.4	0.0	0.1	0.2	0.7	0.4
Motor vehicle repair and maintenance (partial).....	55	2	5.2	0.4	0.4	-0.3	3.6	-2.3
Membership dues and admissions and recreation facility use fees (partial) ²	56	1	4.6	-1.7	-0.1	0.5	-1.4	0.0
Recreational activity instruction fees (partial) ²	56	2	0.3	0.1	0.0	0.2	0.0	0.0
Gaming receipts (partial) ²	56	3	-4.3	0.2	0.0	-1.0	-0.7	0.6
Mining services ²	60	1	2.1	-0.5	-0.1	0.0	0.4	-0.1
Final demand construction.....	FD	43	3.7	0.1	0.0	-1.2	0.1	0.1
New warehouse building construction ²	80	1101	1.3	0.4	0.2	-0.7	0.2	0.0
New school building construction ²	80	1102	3.4	0.0	0.0	-1.1	0.1	0.0
New office building construction ²	80	1103	5.4	0.1	0.0	-1.8	0.2	-0.2
New industrial building construction ²	80	1104	3.3	0.0	0.2	-1.5	0.1	0.8
New health care building construction ²	80	1105	4.3	0.0	-0.1	-0.8	0.1	0.0
Intermediate Demand by Commodity Type								
Processed goods for intermediate demand.....	ID6	1	-3.7	-1.6	-0.5	-0.3	2.2	0.5
Processed foods and feeds.....	ID6	9112	-3.1	-1.8	-1.1	1.3	0.8	1.1
Meats.....	02	21	10.0	1.9	0.9	4.8	-2.1	1.9
Processed poultry.....	02	22	-15.1	-3.3	-0.3	-2.9	1.0	8.1
Dairy products.....	02	3	-7.1	-1.3	-2.2	-1.4	2.3	1.3
Processed fruits and vegetables ²	02	4	12.3	1.3	1.0	0.3	0.6	2.6
Refined sugar and byproducts ²	02	53	8.6	1.1	0.8	0.8	1.4	0.2
Fats and oils ²	02	7	-19.6	-3.4	-5.6	1.3	4.9	0.5
Prepared animal feeds.....	02	9	-4.0	-2.2	-0.9	2.1	0.5	0.7
Processed materials less foods and feeds.....	ID6	9111	-3.7	-1.6	-0.4	-0.5	2.3	0.5
Synthetic fibers ²	03	1	-1.7	-1.4	-0.8	1.3	-2.6	2.2
Processed yarns and threads ²	03	2	-11.6	-1.0	0.3	0.3	-0.2	0.3
Finished fabrics ²	03	4	-1.2	-0.2	-0.2	-0.2	-0.1	0.2
Liquefied petroleum gas ²	05	32	-25.8	-17.4	-6.1	25.4	6.3	8.0
Commercial electric power.....	05	42	3.5	0.8	0.3	-0.2	0.2	0.3
Industrial electric power.....	05	43	4.4	2.2	1.1	-0.7	0.3	-0.1
Commercial natural gas.....	05	52	-25.7	-6.0	-2.4	3.5	-0.2	-1.9
Industrial natural gas.....	05	53	-26.4	-6.5	-2.5	9.7	0.8	-1.3
Natural gas to electric utilities.....	05	54	-22.7	-10.6	-2.6	4.8	0.1	-1.9
Gasoline.....	05	71	6.3	-13.6	3.1	0.3	19.3	5.4
Jet fuel ²	05	7203	-7.4	-11.6	1.8	4.6	23.6	8.2
No. 2 diesel fuel.....	05	7303	-18.6	-13.6	-4.6	-4.8	39.3	2.5
Residual fuels ²	05	74	-11.7	11.2	-9.8	4.5	5.3	7.9

See footnotes at end of table.

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

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Sept. 2022 to Sept. 2023 ^P	Apr. to May	May to June ^P	June to July ^P	July to Aug. ^P
Finished lubricants ²	05	76	0.6	0.1	1.3	-0.3	-0.1	-1.1
Lubricating oil base stocks ²	05	78	-33.3	-12.7	1.6	-1.7	-0.5	0.0
Asphalt.....	05	8102	-25.7	4.6	-0.3	-5.8	0.0	5.2
Basic inorganic chemicals ²	06	13	-7.0	-1.6	-1.2	-3.6	-1.5	0.6
Basic organic chemicals.....	06	14	-12.7	-2.1	-2.5	-2.1	-0.2	0.8
Prepared paint ²	06	21	-0.8	0.1	-0.2	-0.5	0.0	-0.1
Paint materials ²	06	22	5.8	2.1	1.0	-3.8	6.6	0.0
Medicinal and botanical chemicals ²	06	31	0.4	0.0	-0.1	0.0	-0.2	-0.1
Biological products, including diagnostics.....	06	37	4.9	-0.4	0.3	1.1	0.1	0.0
Fats and oils, inedible ²	06	4	-8.9	-4.0	0.5	7.1	3.4	0.1
Nitrogenates.....	06	5201	-40.9	-6.5	-11.2	2.7	2.2	2.4
Phosphates.....	06	5202	-28.2	-4.7	0.2	-18.7	7.4	1.5
Other agricultural chemicals ²	06	53	-14.3	-2.3	-1.3	-0.1	-0.1	-0.6
Plastic resins and materials.....	06	6	-12.0	-1.7	-2.5	-4.3	-1.5	1.3
Industrial gases ²	06	7903	-0.3	2.1	-1.3	1.5	-1.5	0.0
Adhesives and sealants ²	06	7904	2.2	0.1	-0.2	0.0	-0.1	0.0
Synthetic rubber ²	07	1102	-17.1	-1.0	-2.8	-5.6	0.1	1.1
Tires ²	07	1201	4.4	-0.2	-0.3	-0.1	0.0	-0.2
Plastic construction products ²	07	21	-4.2	-0.9	-0.8	-0.1	-0.1	0.8
Unsupported plastic film, sheet, other shapes ²	07	22	-9.5	-0.3	-1.5	-1.5	-0.9	-2.1
Parts for manufacturing from plastics ²	07	26	-3.0	-0.5	-0.1	-0.1	-0.2	-0.3
Plastic packaging products ²	07	2A	-6.1	0.1	-0.4	-0.3	-0.3	0.0
Softwood lumber.....	08	11	-15.2	-2.9	3.9	8.6	-5.5	1.3
Hardwood lumber ²	08	12	-11.6	0.4	-1.7	-1.1	-2.2	1.0
Millwork.....	08	2	-5.5	-0.4	-0.3	-0.1	-1.0	0.2
Plywood ²	08	3	-13.0	-0.8	-0.8	-0.8	1.4	0.1
Paper ²	09	13	-0.2	-0.6	-0.1	-0.8	-0.7	0.4
Paperboard ²	09	14	-6.4	-2.6	0.9	-1.9	-0.5	0.8
Paper boxes and containers ²	09	1503	-2.0	0.6	-1.1	-0.3	-0.5	-0.2
Building paper and board ²	09	2	11.8	6.1	2.5	6.3	13.6	0.0
Commercial printing ²	09	47	4.2	0.3	0.0	0.0	0.2	0.2
Foundry and forge shop products ²	10	15	1.5	-0.3	-0.2	-0.9	0.0	-0.1
Steel mill products ²	10	17	-12.1	5.3	-0.4	-4.7	-1.0	-3.7
Primary nonferrous metals ²	10	22	6.6	3.0	-0.2	2.0	-5.6	2.8
Secondary nonferrous metals ²	10	24	-0.1	-0.5	-2.3	-1.2	-1.4	0.0
Aluminum mill shapes ²	10	2501	-4.2	0.4	-1.0	-1.3	-0.4	-0.9
Copper and brass mill shapes ²	10	2502	2.3	-2.2	-1.9	0.1	0.1	-0.1
Nonferrous wire and cable ²	10	26	0.2	-3.8	-0.1	1.7	0.4	-1.4
Nonferrous foundry shop products.....	10	28	3.0	-0.2	-0.1	0.2	0.3	-0.2
Metal containers ²	10	3	-4.3	0.3	-0.1	0.0	-1.6	0.0
Hardware ²	10	4	2.2	0.0	0.1	0.1	0.0	0.0
Plumbing fixtures and brass fittings.....	10	5	1.8	0.7	0.1	0.6	0.3	0.3
Heating equipment ²	10	6	4.6	-0.4	0.2	0.0	0.1	-0.4
Fabricated structural metal products.....	10	7	-1.4	-0.9	-0.6	0.4	0.1	0.1
Bolts, nuts, screws, rivets, and washers ²	10	81	3.7	0.9	0.5	0.2	-0.3	0.0
Lighting fixtures ²	10	83	3.1	0.4	0.1	0.3	-0.1	0.3
Fabricated ferrous wire products ²	10	88	-7.6	-0.1	-0.8	-1.3	-0.6	-0.3
Other miscellaneous metal products ²	10	89	2.7	-0.1	0.4	0.2	-0.4	0.0
Fluid power equipment.....	11	43	10.8	-0.1	0.3	0.4	-0.4	0.5
Mechanical power transmission equipment ²	11	45	5.5	0.5	0.2	0.0	0.2	0.4
Air conditioning and refrigeration equipment.....	11	48	4.1	0.9	-0.9	0.5	0.6	0.4
Metal valves, except fluid power.....	11	4902	5.4	1.0	0.3	0.1	0.8	0.2
Ball and roller bearings ²	11	4905	2.3	0.0	0.1	0.0	-0.4	0.3
Wiring devices ²	11	71	5.6	-4.1	0.0	-0.8	0.5	0.1
Motors, generators, motor generator sets ²	11	73	5.7	0.0	0.0	1.4	1.0	0.2
Switchgear, switchboard, and industrial controls equip. ²	11	75	6.7	0.1	1.1	0.4	0.4	0.1
Electronic components and accessories.....	11	78	0.1	-1.0	0.2	0.1	0.1	-0.2
Internal combustion engines ²	11	94	6.6	0.0	0.1	1.8	0.0	-0.1
Machine shop products ²	11	95	2.4	0.6	0.1	0.1	0.1	0.0
Flat glass ²	13	11	2.9	-0.6	0.4	-0.7	-1.0	0.4
Cement.....	13	22	10.8	1.1	-0.1	0.4	0.3	1.0
Concrete products.....	13	3	9.1	1.2	0.2	0.0	1.2	0.8
Asphalt felts and coatings ²	13	6	3.0	0.5	1.6	0.9	-1.0	0.6
Paving mixtures and blocks.....	13	94	-1.0	-1.9	-1.1	-0.6	0.8	1.0
Motor vehicle parts ²	14	12	1.2	0.2	-0.1	0.2	0.0	0.1
Aircraft engines and engine parts.....	14	23	2.5	0.1	0.0	0.4	0.1	0.1

See footnotes at end of table.

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

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Sept. 2022 to Sept. 2023 ^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	4.0	0.1	0.0	0.1	0.0	0.0
Medical, surgical, and personal aid devices.....	15	6	2.4	0.2	0.6	-0.1	0.1	0.0
Unprocessed goods for intermediate demand.....	ID6	2	-21.0	-5.2	-0.9	2.4	2.1	4.0
Unprocessed foodstuffs and feedstuffs.....	ID6	21	-10.6	-4.6	1.0	-0.8	0.1	3.5
Wheat ²	01	21	-25.9	-3.3	-3.9	1.7	-7.9	-5.2
Corn.....	01	2202	-35.8	-6.0	3.4	-10.7	-2.0	-6.2
Slaughter cattle.....	01	31	29.9	-0.5	6.0	2.4	1.6	1.7
Slaughter hogs.....	01	32	-19.9	-4.9	12.2	8.5	-2.4	-0.5
Slaughter chickens.....	01	4102	-7.6	-0.4	-0.6	-7.1	0.8	13.5
Slaughter turkeys.....	01	42	-25.5	-2.1	-8.5	-8.3	-10.4	-4.0
Raw milk.....	01	6	-8.2	-5.9	-6.3	-0.4	14.0	12.4
Hay and hayseeds ²	01	81	-23.6	3.4	4.1	0.3	-18.2	5.4
Oilseeds.....	01	8301	-12.7	-1.2	-6.9	9.0	-4.3	4.2
Raw cane sugar and byproducts ²	02	5201	12.6	-2.5	6.8	-2.0	0.6	-0.3
Unprocessed nonfood materials.....	ID6	22	-25.5	-5.6	-2.2	4.6	3.4	4.3
Raw cotton ²	01	51	-25.3	-3.2	0.5	-1.1	4.6	1.6
Hides and skins.....	04	1	-6.1	4.7	-1.7	-6.1	1.7	-0.2
Coal.....	05	1	-5.7	-2.9	0.8	1.3	1.9	0.9
Natural gas ²	05	31	-74.1	-2.0	2.2	23.6	-2.9	0.1
Crude petroleum ²	05	61	2.1	-9.8	-4.2	8.5	8.2	10.1
Logs, bolts, timber, pulpwood, and woodchips ²	08	5	-3.0	0.0	0.1	-0.7	0.4	0.1
Recyclable paper ²	09	12	-26.5	4.2	3.8	-0.2	2.2	6.9
Iron ores ²	10	11	-3.0	-6.4	0.3	-0.7	0.0	0.0
Iron and steel scrap.....	10	12	4.0	-5.3	-8.9	2.6	3.1	0.8
Nonferrous metal ores ²	10	21	-1.5	-1.2	-2.0	-4.2	-3.1	0.5
Copper base scrap ²	10	2301	7.7	-2.7	0.5	-0.1	-0.8	-0.7
Aluminum base scrap.....	10	2302	0.5	7.6	1.0	-0.2	0.3	0.0
Construction sand, gravel, and crushed stone.....	13	21	8.5	0.5	0.6	0.2	0.8	0.5
Services for intermediate demand.....	ID6	3	4.1	0.2	0.0	0.6	0.0	0.3
Trade services for intermediate demand ³	ID6	33	2.4	-0.3	-0.8	2.1	-0.2	0.2
Machinery and equipment parts and supplies wholesaling ²	57	1102	9.1	2.9	-1.7	0.5	2.3	1.7
Building materials, paint, and hardware wholesaling.....	57	3	-7.3	-0.7	-0.5	-1.3	1.5	0.8
Metals, minerals, and ores wholesaling ²	57	4	-4.3	-9.8	-1.7	-3.3	-6.7	-2.3
Chemicals and allied products wholesaling ²	57	5	-5.0	-2.9	-5.0	8.3	-3.0	0.4
Paper and plastics products wholesaling ²	57	6	1.0	0.2	-0.6	-1.8	3.0	-0.1
Food wholesaling ²	57	8101	5.3	2.5	-2.3	4.3	-1.2	-0.3
Automotive parts, including tires, retailing ²	58	6102	1.8	1.3	0.9	0.5	0.9	0.7
Hardware, building material, and supplies retailing.....	58	D	7.2	0.7	4.5	6.8	3.2	4.8
Transportation and warehousing services for intermediate demand.....	ID6	32	-2.1	-0.3	-0.1	0.8	-0.8	0.7
Rail transportation of freight and mail ²	30	11	-0.3	-0.9	-0.4	-0.1	0.4	0.6
Truck transportation of freight ²	30	12	-10.4	-0.5	-0.7	-0.6	0.1	0.1
Water transportation of freight ²	30	13	-2.1	5.6	-2.1	-1.7	1.7	0.6
Air transportation of freight ²	30	14	-8.0	-1.3	-1.5	1.2	0.7	-0.7
U.S. Postal Service ²	30	1601	9.0	0.0	0.0	3.8	0.0	0.0
Courier and messenger services, except air mail.....	30	1602	4.7	0.6	0.1	0.6	1.1	0.7
Air mail and package delivery services, excluding by USPS.....	30	1603	3.0	-0.8	-0.5	0.6	2.2	1.3
Pipeline transportation ²	30	17	1.9	0.2	-1.2	3.8	0.1	-0.2
Transportation of passengers (partial).....	30	2	-0.8	-1.1	2.0	1.7	-2.0	-2.0
Services related to water transportation.....	31	1	2.9	1.4	-0.4	0.1	0.5	0.4
Arrangement of freight and cargo ²	31	31	-30.3	-1.0	2.3	-2.4	-15.0	6.3
Warehousing, storage, and related services ²	32	1	4.9	-2.2	-1.3	1.5	-0.7	1.7
Services less trade, transportation, and warehousing for intermediate demand.....	ID6	31	6.0	0.4	0.2	0.2	0.3	0.3
Network compensation from broadcast TV, cable TV, radio ²	35	-	0.5	0.2	-0.3	0.0	0.0	0.0
Advertising space sales in periodicals and newspapers ²	36	11	2.1	-0.3	-0.3	0.0	-0.5	-0.4
Advertising space sales in directories and mail lists ²	36	12	5.4	0.0	0.0	0.0	0.0	0.0
Television advertising time sales.....	36	2	-22.8	-0.9	-2.1	-1.1	-8.2	-3.8
Radio advertising time sales.....	36	3	-7.0	6.0	-2.7	-7.2	4.6	-1.4
Internet advertising sales ²	36	6	-	0.0	0.0	-0.2	0.0	0.0
Business wired telecommunication services ²	37	12	3.2	0.0	-0.6	1.1	1.0	-0.2
Wireless telecommunication services.....	37	2	0.4	0.6	0.2	0.1	-1.1	0.2
Cable and satellite subscriber services.....	37	3	10.0	0.2	1.1	0.1	1.1	0.6
Bundled wired telecommunication access services ²	37	5	1.3	-1.5	0.0	-0.3	1.0	-3.1
Data processing and related services ²	38	1	1.9	0.1	0.3	0.3	0.1	-0.2
Business loans (partial).....	39	11	28.7	3.4	-1.9	-1.9	-1.6	-3.1

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 2023]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Sept. 2022 to Sept. 2023 ^P	Apr. to May	May to June ^P	June to July ^P	July to Aug. ^P
Deposit services (partial) ²	39	2	32.2	0.1	5.6	-0.7	-2.3	13.9
Other credit intermediation, incl. trust services (partial) ²	39	3	3.3	1.3	0.0	0.0	2.5	0.0
Securities brokerage, dealing, investment advice, and related services ²	40	1	28.2	3.2	0.0	1.7	0.9	-0.2
Portfolio management ²	40	2	7.3	-3.0	-0.3	7.2	1.9	-0.5
Investment banking ²	40	3	7.1	1.4	-0.4	-0.1	1.9	3.9
Life insurance ²	41	1101	-1.6	-0.5	0.0	-0.3	0.0	-0.4
Health and medical insurance.....	41	1103	3.2	-0.1	0.2	0.0	0.5	0.2
Property and casualty insurance ²	41	1104	6.9	0.5	2.1	0.1	0.2	0.3
Annuities ²	41	2	-0.3	0.0	-0.1	0.5	0.0	0.0
Commissions from sales of insurance ²	42	1	0.5	0.1	0.1	-0.5	0.0	0.0
Nonresidential real estate rents ²	43	11	3.3	0.3	1.5	-0.8	3.3	2.3
Nonresidential property sales and leases ²	43	12	-2.1	-0.3	0.3	-0.6	0.3	0.0
Residential property management fees ²	43	22	1.2	0.7	-0.2	0.8	0.1	-0.5
Passenger car rental.....	44	1	-4.4	-3.1	-2.7	0.5	0.8	1.1
Truck, utility trailer, and RV rental and leasing ²	44	2	-0.3	-1.4	2.3	-0.9	-0.7	0.4
Construction, mining, and forestry machinery and equipment rental and leasing ²	44	3	2.9	0.2	-0.2	0.1	-0.1	-0.2
Legal services.....	45	1	5.6	-0.2	0.3	0.7	0.2	0.3
Accounting services (partial).....	45	2	7.8	0.1	-0.5	2.2	0.6	0.0
Architectural and engineering services.....	45	3	3.0	0.3	0.2	0.3	0.1	0.3
Management, scientific, and technical consulting services.....	45	4	3.2	-0.7	2.9	-1.5	0.1	0.0
Advertising and related services (partial) ²	45	5	1.1	0.3	-0.1	0.0	0.0	0.1
Permanent placement services ²	46	1	-0.3	-1.0	-0.5	2.2	-1.2	-0.3
Executive search services ²	46	2	4.3	-0.5	1.1	0.3	1.3	-1.7
Staffing services.....	46	3	0.1	0.0	-0.3	-0.1	-0.1	-0.4
Security guard services ²	48	1	7.3	2.1	0.1	0.2	2.6	-0.1
Janitorial services ²	49	1	2.0	-0.2	0.0	-0.1	0.0	0.0
Waste collection.....	50	1	9.7	0.7	0.5	-0.1	0.2	0.9
Traveler accommodation services.....	53	11	6.1	-3.0	2.7	0.0	-1.6	2.0
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	7.2	-0.4	0.1	0.9	0.0	2.2
Aircraft repair and maintenance.....	55	4	4.9	0.2	0.2	0.5	0.4	0.0
Metal treatment services ²	59	1	5.0	1.1	-0.3	1.0	0.2	-0.4
Construction for intermediate demand.....	ID6	4	3.9	1.4	0.1	0.1	0.1	0.0
Maintenance and repair of non-residential buildings (partial) ²	80	2	3.9	1.4	0.1	0.1	0.1	0.0
Intermediate Demand by Production Flow								
Stage 4 intermediate demand.....	ID5	4	2.4	-0.2	-0.1	0.4	0.6	0.4
Stage 4 intermediate demand goods.....	ID5	9411	-0.6	-0.6	0.0	-0.1	0.8	0.3
Grains.....	01	2	-32.5	-5.5	1.9	-8.7	-2.7	-5.6
Meats.....	02	21	10.0	1.9	0.9	4.8	-2.1	1.9
Unprocessed and packaged fish.....	02	23	-5.8	1.1	-1.9	0.6	-0.9	-1.6
Dairy products.....	02	3	-7.1	-1.3	-2.2	-1.4	2.3	1.3
Commercial electric power.....	05	42	3.5	0.8	0.3	-0.2	0.2	0.3
Industrial electric power.....	05	43	4.4	2.2	1.1	-0.7	0.3	-0.1
Gasoline.....	05	71	6.3	-13.6	3.1	0.3	19.3	5.4
No. 2 diesel fuel.....	05	7303	-18.6	-13.6	-4.6	-4.8	39.3	2.5
Basic organic chemicals.....	06	14	-12.7	-2.1	-2.5	-2.1	-0.2	0.8
Prepared paint ²	06	21	-0.8	0.1	-0.2	-0.5	0.0	-0.1
Medicinal and botanical chemicals ²	06	31	0.4	0.0	-0.1	0.0	-0.2	-0.1
Biological products, including diagnostics.....	06	37	4.9	-0.4	0.3	1.1	0.1	0.0
Pharmaceutical preparations.....	06	38	2.7	0.0	0.2	0.3	0.4	0.2
Plastic construction products ²	07	21	-4.2	-0.9	-0.8	-0.1	-0.1	0.8
Unsupported plastic film, sheet, and other shapes ²	07	22	-9.5	-0.3	-1.5	-1.5	-0.9	-2.1
Parts for manufacturing from plastics ²	07	26	-3.0	-0.5	-0.1	-0.1	-0.2	-0.3
Plastic packaging products ²	07	2A	-6.1	0.1	-0.4	-0.3	-0.3	0.0
Lumber.....	08	1	-13.7	-1.6	1.6	4.8	-4.3	1.2
Millwork.....	08	2	-5.5	-0.4	-0.3	-0.1	-1.0	0.2
Paper boxes and containers ²	09	1503	-2.0	0.6	-1.1	-0.3	-0.5	-0.2
Commercial printing ²	09	47	4.2	0.3	0.0	0.0	0.2	0.2
Steel mill products ²	10	17	-12.1	5.3	-0.4	-4.7	-1.0	-3.7
Nonferrous wire and cable ²	10	26	0.2	-3.8	-0.1	1.7	0.4	-1.4
Fabricated structural metal products.....	10	7	-1.4	-0.9	-0.6	0.4	0.1	0.1
Other miscellaneous metal products ²	10	89	2.7	-0.1	0.4	0.2	-0.4	0.0
Air conditioning and refrigeration equipment.....	11	48	4.1	0.9	-0.9	0.5	0.6	0.4
Wiring devices ²	11	71	5.6	-4.1	0.0	-0.8	0.5	0.1

See footnotes at end of table.

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

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Sept. 2022 to Sept. 2023 ^P	Apr. to May	May to June ^P	June to July ^P	July to Aug. ^P
Electronic components and accessories.....	11	78	0.1	-1.0	0.2	0.1	0.1	-0.2
Miscellaneous electrical machinery and equipment ²	11	79	1.7	0.1	0.1	0.7	0.0	0.0
Internal combustion engines ²	11	94	6.6	0.0	0.1	1.8	0.0	-0.1
Machine shop products ²	11	95	2.4	0.6	0.1	0.1	0.1	0.0
Concrete ingredients and related products.....	13	2	9.1	0.7	0.4	0.2	0.7	0.7
Concrete products.....	13	3	9.1	1.2	0.2	0.0	1.2	0.8
Prepared asphalt, tar roofing and siding products ²	13	61	3.2	0.5	1.9	1.1	-1.2	0.7
Paving mixtures and blocks.....	13	94	-1.0	-1.9	-1.1	-0.6	0.8	1.0
Motor vehicle parts ²	14	12	1.2	0.2	-0.1	0.2	0.0	0.1
Aircraft engines and engine parts.....	14	23	2.5	0.1	0.0	0.4	0.1	0.1
Aircraft parts and auxiliary equipment, n.e.c.....	14	25	4.0	0.1	0.0	0.1	0.0	0.0
Medical, surgical and personal aid devices.....	15	6	2.4	0.2	0.6	-0.1	0.1	0.0
Stage 4 intermediate demand services.....	ID5	9412	5.2	0.2	-0.1	0.9	0.5	0.5
Truck transportation of freight ²	30	12	-10.4	-0.5	-0.7	-0.6	0.1	0.1
Courier, messenger, and U.S. postal services.....	30	16	6.0	0.1	-0.1	1.7	1.0	0.6
Airline passenger services.....	30	22	-0.8	-1.1	2.1	1.7	-2.0	-2.1
Warehousing, storage, and related services ²	32	1	4.9	-2.2	-1.3	1.5	-0.7	1.7
Advertising space sales in periodicals and newspapers ²	36	11	2.1	-0.3	-0.3	0.0	-0.5	-0.4
Data processing and related services ²	38	1	1.9	0.1	0.3	0.3	0.1	-0.2
Business loans (partial).....	39	11	28.7	3.4	-1.9	-1.9	-1.6	-3.1
Deposit services (partial) ²	39	2	32.2	0.1	5.6	-0.7	-2.3	13.9
Securities brokerage, dealing, investment advice, and related services ²	40	1	28.2	3.2	0.0	1.7	0.9	-0.2
Portfolio management ²	40	2	7.3	-3.0	-0.3	7.2	1.9	-0.5
Investment banking ²	40	3	7.1	1.4	-0.4	-0.1	1.9	3.9
Insurance.....	41	11	3.9	0.1	1.0	-0.2	0.3	0.2
Annuities ²	41	2	-0.3	0.0	-0.1	0.5	0.0	0.0
Nonresidential real estate rents ²	43	11	3.3	0.3	1.5	-0.8	3.3	2.3
Nonresidential property sales and leases ²	43	12	-2.1	-0.3	0.3	-0.6	0.3	0.0
Nonresidential property management fees ²	43	13	11.3	-0.1	0.3	2.7	0.8	1.4
Residential property management fees ²	43	22	1.2	0.7	-0.2	0.8	0.1	-0.5
Construction, mining, and forestry machinery and equipment rental and leasing ²	44	3	2.9	0.2	-0.2	0.1	-0.1	-0.2
Legal services.....	45	1	5.6	-0.2	0.3	0.7	0.2	0.3
Advertising agency services ²	45	51	1.1	0.3	-0.1	0.0	0.0	0.1
Accounting services (partial).....	45	2	7.8	0.1	-0.5	2.2	0.6	0.0
Architectural and engineering services.....	45	3	3.0	0.3	0.2	0.3	0.1	0.3
Management, scientific, and technical consulting services.....	45	4	3.2	-0.7	2.9	-1.5	0.1	0.0
Staffing services.....	46	3	0.1	0.0	-0.3	-0.1	-0.1	-0.4
Janitorial services ²	49	1	2.0	-0.2	0.0	-0.1	0.0	0.0
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	7.2	-0.4	0.1	0.9	0.0	2.2
Machinery and equipment parts and supplies wholesaling ²	57	1102	9.1	2.9	-1.7	0.5	2.3	1.7
Building materials, paint, and hardware wholesaling.....	57	3	-7.3	-0.7	-0.5	-1.3	1.5	0.8
Metals, minerals, and ores wholesaling ²	57	4	-4.3	-9.8	-1.7	-3.3	-6.7	-2.3
Chemicals and allied products wholesaling ²	57	5	-5.0	-2.9	-5.0	8.3	-3.0	0.4
Paper and plastics products wholesaling ²	57	6	1.0	0.2	-0.6	-1.8	3.0	-0.1
Food and alcohol wholesaling ²	57	8	5.1	2.2	-2.1	3.8	-1.1	-0.3
Hardware and building materials and supplies retailing.....	58	D	7.2	0.7	4.5	6.8	3.2	4.8
Metal treatment services ²	59	1	5.0	1.1	-0.3	1.0	0.2	-0.4
Stage 3 intermediate demand.....	ID5	3	-3.2	-1.4	-0.2	-0.4	1.1	0.9
Stage 3 intermediate demand goods.....	ID5	9311	-8.4	-3.0	-0.1	-1.4	3.3	1.6
Slaughter cattle.....	01	31	29.9	-0.5	6.0	2.4	1.6	1.7
Slaughter hogs.....	01	32	-19.9	-4.9	12.2	8.5	-2.4	-0.5
Slaughter poultry.....	01	4	-10.1	-0.7	-1.8	-7.2	-0.9	10.9
Raw milk.....	01	6	-8.2	-5.9	-6.3	-0.4	14.0	12.4
Commercial electric power.....	05	42	3.5	0.8	0.3	-0.2	0.2	0.3
Industrial electric power.....	05	43	4.4	2.2	1.1	-0.7	0.3	-0.1
Gasoline.....	05	71	6.3	-13.6	3.1	0.3	19.3	5.4
Jet fuel ²	05	7203	-7.4	-11.6	1.8	4.6	23.6	8.2
No. 2 diesel fuel.....	05	7303	-18.6	-13.6	-4.6	-4.8	39.3	2.5
Finished lubricants ²	05	76	0.6	0.1	1.3	-0.3	-0.1	-1.1
Lubricating oil base stocks ²	05	78	-33.3	-12.7	1.6	-1.7	-0.5	0.0
Asphalt.....	05	8102	-25.7	4.6	-0.3	-5.8	0.0	5.2
Basic inorganic chemicals ²	06	13	-7.0	-1.6	-1.2	-3.6	-1.5	0.6
Basic organic chemicals.....	06	14	-12.7	-2.1	-2.5	-2.1	-0.2	0.8
Paints and allied products ²	06	2	0.3	0.5	0.0	-1.1	1.2	-0.2

See footnotes at end of table.

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

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Sept. 2022 to Sept. 2023 ^P	Apr. to May	May to June ^P	June to July ^P	July to Aug. ^P
Agricultural chemicals and chemical products.....	06	5	-23.4	-3.3	-3.5	-3.5	2.8	1.2
Plastic resins and materials.....	06	6	-12.0	-1.7	-2.5	-4.3	-1.5	1.3
Synthetic rubber ²	07	1102	-17.1	-1.0	-2.8	-5.6	0.1	1.1
Unsupported plastic film, sheet, and other shapes ²	07	22	-9.5	-0.3	-1.5	-1.5	-0.9	-2.1
Paper ²	09	13	-0.2	-0.6	-0.1	-0.8	-0.7	0.4
Paperboard ²	09	14	-6.4	-2.6	0.9	-1.9	-0.5	0.8
Converted paper and paperboard products ²	09	15	0.8	0.2	-0.4	-0.1	-0.4	-0.1
Commercial printing ²	09	47	4.2	0.3	0.0	0.0	0.2	0.2
Foundry and forge shop products ²	10	15	1.5	-0.3	-0.2	-0.9	0.0	-0.1
Steel mill products ²	10	17	-12.1	5.3	-0.4	-4.7	-1.0	-3.7
Nonferrous mill shapes ²	10	25	-1.6	-0.3	-1.1	-1.0	-0.2	-0.5
Nonferrous foundry shop products.....	10	28	3.0	-0.2	-0.1	0.2	0.3	-0.2
Metal containers ²	10	3	-4.3	0.3	-0.1	0.0	-1.6	0.0
Structural, architectural, and pre-engineered metal products.....	10	74	-4.1	-1.7	-1.0	0.3	0.0	-0.3
Bolts, nuts, screws, rivets, and washers ²	10	81	3.7	0.9	0.5	0.2	-0.3	0.0
Other miscellaneous metal products ²	10	89	2.7	-0.1	0.4	0.2	-0.4	0.0
General purpose machinery and equipment.....	11	4	6.0	0.5	0.0	0.3	0.3	0.5
Electrical machinery and equipment.....	11	7	2.2	-0.5	0.3	0.2	0.2	0.0
Construction sand, gravel, and crushed stone.....	13	21	8.5	0.5	0.6	0.2	0.8	0.5
Cement.....	13	22	10.8	1.1	-0.1	0.4	0.3	1.0
Motor vehicle parts ²	14	12	1.2	0.2	-0.1	0.2	0.0	0.1
Aircraft and aircraft equipment.....	14	2	3.7	0.4	0.2	0.2	0.0	0.1
Stage 3 intermediate demand services.....	ID5	9312	2.0	-0.1	-0.2	0.5	-0.7	0.3
Rail transportation of freight and mail ²	30	11	-0.3	-0.9	-0.4	-0.1	0.4	0.6
Courier, messenger, and U.S. postal services.....	30	16	6.0	0.1	-0.1	1.7	1.0	0.6
Arrangement of freight and cargo ²	31	31	-30.3	-1.0	2.3	-2.4	-15.0	6.3
Freight forwarding ²	31	3201	-1.2	0.0	0.0	0.0	0.0	0.1
Warehousing, storage, and related services ²	32	1	4.9	-2.2	-1.3	1.5	-0.7	1.7
Advertising space sales in periodicals, newspapers, directories, and mailing lists ²	36	1	2.5	-0.2	-0.3	0.0	-0.4	-0.4
Wired telephone services ²	37	1	3.5	0.5	-0.3	0.5	0.7	0.1
Bundled wired telecommunications access services ²	37	5	1.3	-1.5	0.0	-0.3	1.0	-3.1
Data processing and related services ²	38	1	1.9	0.1	0.3	0.3	0.1	-0.2
Business loans (partial).....	39	11	28.7	3.4	-1.9	-1.9	-1.6	-3.1
Deposit services (partial) ²	39	2	32.2	0.1	5.6	-0.7	-2.3	13.9
Securities brokerage, dealing, investment advice, and related services ²	40	1	28.2	3.2	0.0	1.7	0.9	-0.2
Insurance.....	41	11	3.9	0.1	1.0	-0.2	0.3	0.2
Nonresidential real estate rents ²	43	11	3.3	0.3	1.5	-0.8	3.3	2.3
Legal services.....	45	1	5.6	-0.2	0.3	0.7	0.2	0.3
Accounting services (partial).....	45	2	7.8	0.1	-0.5	2.2	0.6	0.0
Architectural and engineering services.....	45	3	3.0	0.3	0.2	0.3	0.1	0.3
Management, scientific, and technical consulting services.....	45	4	3.2	-0.7	2.9	-1.5	0.1	0.0
Advertising agency services ²	45	51	1.1	0.3	-0.1	0.0	0.0	0.1
Staffing services.....	46	3	0.1	0.0	-0.3	-0.1	-0.1	-0.4
Aircraft repair maintenance.....	55	4	4.9	0.2	0.2	0.5	0.4	0.0
Machinery and equipment parts and supplies wholesaling ²	57	1102	9.1	2.9	-1.7	0.5	2.3	1.7
Building materials, paint, and hardware wholesaling.....	57	3	-7.3	-0.7	-0.5	-1.3	1.5	0.8
Metals, minerals, and ores wholesaling ²	57	4	-4.3	-9.8	-1.7	-3.3	-6.7	-2.3
Chemicals and allied products wholesaling ²	57	5	-5.0	-2.9	-5.0	8.3	-3.0	0.4
Paper and plastics products wholesaling ²	57	6	1.0	0.2	-0.6	-1.8	3.0	-0.1
Food wholesaling ²	57	8101	5.3	2.5	-2.3	4.3	-1.2	-0.3
Metal treatment services ²	59	1	5.0	1.1	-0.3	1.0	0.2	-0.4
Stage 2 intermediate demand.....	ID5	2	-6.9	-1.4	-1.0	1.9	0.7	1.5
Stage 2 intermediate demand goods.....	ID5	9211	-18.2	-4.1	-2.1	4.1	2.3	3.4
Corn.....	01	2202	-35.8	-6.0	3.4	-10.7	-2.0	-6.2
Oilseeds.....	01	83	-12.7	-1.2	-6.9	9.0	-4.3	4.2
Prepared animal feeds.....	02	9	-4.0	-2.2	-0.9	2.1	0.5	0.7
Coal.....	05	1	-5.7	-2.9	0.8	1.3	1.9	0.9
Natural gas ²	05	31	-74.1	-2.0	2.2	23.6	-2.9	0.1
Liquefied petroleum gas ²	05	32	-25.8	-17.4	-6.1	25.4	6.3	8.0
Crude petroleum ²	05	61	2.1	-9.8	-4.2	8.5	8.2	10.1
No. 2 diesel fuel.....	05	7303	-18.6	-13.6	-4.6	-4.8	39.3	2.5
Industrial chemicals.....	06	1	-11.8	-2.0	-2.3	-2.4	-0.4	0.8
Plastic resins and materials.....	06	6	-12.0	-1.7	-2.5	-4.3	-1.5	1.3
Plastic products ²	07	2	-4.1	-0.2	-0.6	-0.3	-0.2	-0.4
Logs, bolts, timber, pulpwood, and wood chips ²	08	5	-3.0	0.0	0.1	-0.7	0.4	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 2023]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Sept. 2022 to Sept. 2023 ^P	Apr. to May	May to June ^P	June to July ^P	July to Aug. ^P
Paper ²	09	13	-0.2	-0.6	-0.1	-0.8	-0.7	0.4
Paperboard, excluding corrugated paperboard ²	09	1411	-5.7	-2.9	0.8	-2.0	-0.6	0.9
Commercial printing ²	09	47	4.2	0.3	0.0	0.0	0.2	0.2
Iron and steel scrap.....	10	12	4.0	-5.3	-8.9	2.6	3.1	0.8
Steel mill products ²	10	17	-12.1	5.3	-0.4	-4.7	-1.0	-3.7
Nonferrous mill shapes ²	10	25	-1.6	-0.3	-1.1	-1.0	-0.2	-0.5
Electrical machinery and equipment.....	11	7	2.2	-0.5	0.3	0.2	0.2	0.0
Electronic components and accessories.....	11	78	0.1	-1.0	0.2	0.1	0.1	-0.2
Stage 2 intermediate demand services.....	ID5	9212	4.8	0.6	-0.2	0.3	-0.4	0.1
Rail transportation of freight and mail ²	30	11	-0.3	-0.9	-0.4	-0.1	0.4	0.6
Truck transportation of freight ²	30	12	-10.4	-0.5	-0.7	-0.6	0.1	0.1
U.S. Postal Service ²	30	1601	9.0	0.0	0.0	3.8	0.0	0.0
Courier and messenger services, except air.....	30	1602	4.7	0.6	0.1	0.6	1.1	0.7
Air mail and package delivery services, excluding by USPS.....	30	1603	3.0	-0.8	-0.5	0.6	2.2	1.3
Pipeline transportation ²	30	17	1.9	0.2	-1.2	3.8	0.1	-0.2
Airline passenger services.....	30	22	-0.8	-1.1	2.1	1.7	-2.0	-2.1
Arrangement of freight and cargo ²	31	31	-30.3	-1.0	2.3	-2.4	-15.0	6.3
Television advertising time sales.....	36	21	-22.8	-0.9	-2.1	-1.1	-8.2	-3.8
Wireless telecommunication services.....	37	2	0.4	0.6	0.2	0.1	-1.1	0.2
Data processing and related services ²	38	1	1.9	0.1	0.3	0.3	0.1	-0.2
Securities brokerage, dealing, investment advice, and related services ²	40	1	28.2	3.2	0.0	1.7	0.9	-0.2
Portfolio management ²	40	2	7.3	-3.0	-0.3	7.2	1.9	-0.5
Investment banking ²	40	31	7.1	1.4	-0.4	-0.1	1.9	3.9
Insurance.....	41	11	3.9	0.1	1.0	-0.2	0.3	0.2
Commissions from sales of insurance ²	42	11	0.5	0.1	0.1	-0.5	0.0	0.0
Legal services.....	45	1	5.6	-0.2	0.3	0.7	0.2	0.3
Accounting services (partial).....	45	2	7.8	0.1	-0.5	2.2	0.6	0.0
Management, scientific, and technical consulting services.....	45	4	3.2	-0.7	2.9	-1.5	0.1	0.0
Advertising agency services ²	45	51	1.1	0.3	-0.1	0.0	0.0	0.1
Staffing services.....	46	3	0.1	0.0	-0.3	-0.1	-0.1	-0.4
Security guard services ²	48	1	7.3	2.1	0.1	0.2	2.6	-0.1
Janitorial services ²	49	1	2.0	-0.2	0.0	-0.1	0.0	0.0
Traveler accommodation services.....	53	1	6.1	-3.0	2.7	0.0	-1.6	2.0
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	7.2	-0.4	0.1	0.9	0.0	2.2
Hardware and building materials and supplies retailing.....	58	D	7.2	0.7	4.5	6.8	3.2	4.8
Stage 1 intermediate demand.....	ID5	1	-1.0	-1.0	-0.2	0.1	1.4	0.4
Stage 1 intermediate demand goods.....	ID5	9111	-5.3	-1.8	-0.6	-0.7	2.6	0.3
Prepared animal feeds.....	02	9	-4.0	-2.2	-0.9	2.1	0.5	0.7
Commercial electric power.....	05	42	3.5	0.8	0.3	-0.2	0.2	0.3
Industrial electric power.....	05	43	4.4	2.2	1.1	-0.7	0.3	-0.1
Commercial natural gas.....	05	52	-25.7	-6.0	-2.4	3.5	-0.2	-1.9
Industrial natural gas.....	05	53	-26.4	-6.5	-2.5	9.7	0.8	-1.3
Gasoline.....	05	71	6.3	-13.6	3.1	0.3	19.3	5.4
No. 2 diesel fuel.....	05	7303	-18.6	-13.6	-4.6	-4.8	39.3	2.5
Industrial chemicals.....	06	1	-11.8	-2.0	-2.3	-2.4	-0.4	0.8
Prepared paint ²	06	21	-0.8	0.1	-0.2	-0.5	0.0	-0.1
Plastic construction products ²	07	21	-4.2	-0.9	-0.8	-0.1	-0.1	0.8
Recyclable paper ²	09	12	-26.5	4.2	3.8	-0.2	2.2	6.9
Paper ²	09	13	-0.2	-0.6	-0.1	-0.8	-0.7	0.4
Converted paper and paperboard products ²	09	15	0.8	0.2	-0.4	-0.1	-0.4	-0.1
Iron and steel scrap.....	10	12	4.0	-5.3	-8.9	2.6	3.1	0.8
Steel mill products ²	10	17	-12.1	5.3	-0.4	-4.7	-1.0	-3.7
Primary nonferrous metals ²	10	22	6.6	3.0	-0.2	2.0	-5.6	2.8
Nonferrous scrap.....	10	23	-9.1	3.5	-2.7	-1.9	0.2	-0.8
Nonferrous wire and cable ²	10	26	0.2	-3.8	-0.1	1.7	0.4	-1.4
Fabricated structural metal products.....	10	7	-1.4	-0.9	-0.6	0.4	0.1	0.1
General purpose machinery and equipment.....	11	4	6.0	0.5	0.0	0.3	0.3	0.5
Construction sand, gravel, and crushed stone.....	13	21	8.5	0.5	0.6	0.2	0.8	0.5
Stage 1 intermediate demand services.....	ID5	9112	3.8	-0.2	0.2	0.9	0.3	0.4
Truck transportation of freight ²	30	12	-10.4	-0.5	-0.7	-0.6	0.1	0.1
Airline passenger services.....	30	22	-0.8	-1.1	2.1	1.7	-2.0	-2.1
Advertising space sales in periodicals, newspapers, directories, and mailing lists ²	36	1	2.5	-0.2	-0.3	0.0	-0.4	-0.4
Business wired telecommunication services ²	37	12	3.2	0.0	-0.6	1.1	1.0	-0.2
Wireless telecommunication services.....	37	2	0.4	0.6	0.2	0.1	-1.1	0.2

See footnotes at end of table.

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

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Sept. 2022 to Sept. 2023 ^p	Apr. to May	May to June ^p	June to July ^p	July to Aug. ^p
Bundled wired telecommunications access services ²	37	5	1.3	-1.5	0.0	-0.3	1.0	-3.1
Business loans (partial).....	39	11	28.7	3.4	-1.9	-1.9	-1.6	-3.1
Deposit services (partial) ²	39	2	32.2	0.1	5.6	-0.7	-2.3	13.9
Securities brokerage, dealing, investment advice, and related services ²	40	1	28.2	3.2	0.0	1.7	0.9	-0.2
Portfolio management ²	40	2	7.3	-3.0	-0.3	7.2	1.9	-0.5
Investment banking ²	40	3	7.1	1.4	-0.4	-0.1	1.9	3.9
Insurance.....	41	11	3.9	0.1	1.0	-0.2	0.3	0.2
Nonresidential real estate rents ²	43	11	3.3	0.3	1.5	-0.8	3.3	2.3
Architectural and engineering services.....	45	3	3.0	0.3	0.2	0.3	0.1	0.3
Management consulting services.....	45	41	3.2	-0.7	2.9	-1.5	0.1	0.0
Waste collection.....	50	1	9.7	0.7	0.5	-0.1	0.2	0.9
Traveler accommodation services.....	53	11	6.1	-3.0	2.7	0.0	-1.6	2.0
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	7.2	-0.4	0.1	0.9	0.0	2.2
Machinery and equipment parts and supplies wholesaling ²	57	1102	9.1	2.9	-1.7	0.5	2.3	1.7
Building materials, paint, and hardware wholesaling.....	57	3	-7.3	-0.7	-0.5	-1.3	1.5	0.8
Metals, minerals, and ores wholesaling ²	57	4	-4.3	-9.8	-1.7	-3.3	-6.7	-2.3
Chemicals and allied products wholesaling ²	57	5	-5.0	-2.9	-5.0	8.3	-3.0	0.4
Paper and plastics products wholesaling ²	57	6	1.0	0.2	-0.6	-1.8	3.0	-0.1
Hardware and building materials and supplies retailing.....	58	D	7.2	0.7	4.5	6.8	3.2	4.8
Mining services ²	60	1	2.1	-0.5	-0.1	0.0	0.4	-0.1

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

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

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

p Preliminary

"-" Data not available.

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

Table 3. Producer price indexes for Final Demand-Intermediate Demand groupings, seasonally adjusted
 [September 2023, Index base Nov. 2009=100, unless otherwise indicated]

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	May 2023	June 2023 ^p	July 2023 ^p	Aug. 2023 ^p	Sept. 2023 ^p
Final Demand								
Final demand.....		FD	4	140.561	140.575	141.426	142.485	143.211
Final demand goods.....		FD	41	140.921	140.913	141.283	144.055	145.375
Final demand foods.....		FD	411	149.463	149.143	149.788	149.090	150.455
Finished consumer foods ²	00/82	FD	4111	263.239	263.655	263.937	263.168	265.427
Finished consumer foods, crude.....	00/82	FD	41113	251.800	257.104	252.427	238.158	229.723
Finished consumer foods, processed.....	00/82	FD	41112	263.187	263.133	263.887	264.411	267.683
Government purchased foods.....		FD	4112	151.700	151.283	153.482	153.745	156.129
Foods for export.....		FD	4113	152.423	149.609	151.827	149.526	150.875
Final demand energy.....		FD	412	134.044	135.064	136.145	150.227	155.116
Finished consumer energy goods ²	00/82	FD	4121	211.458	213.979	215.721	235.031	242.116
Government purchased energy.....		FD	4122	140.075	139.283	139.690	161.813	167.581
Energy for export.....		FD	4123	122.418	120.709	122.801	141.180	148.601
Final demand goods less foods and energy.....		FD	413	140.794	140.555	140.625	140.823	141.011
Finished goods less foods and energy ²	00/82	FD	4131	246.920	246.998	247.614	248.106	248.517
Finished consumer goods less foods and energy.....	00/82	FD	41311	274.575	274.583	275.142	275.848	276.364
Nondurable consumer goods less foods and energy.....	00/82	FD	413111	355.929	356.090	356.956	358.033	358.545
Durable consumer goods.....	00/82	FD	413112	191.082	190.962	191.236	191.594	192.081
Private capital equipment.....	00/82	FD	41312	211.842	211.979	212.617	212.901	213.201
Private capital equipment for manufacturing industries.....	00/82	FD	413121	227.199	227.551	228.338	228.658	228.844
Private capital equipment for nonmanufacturing industries.....	00/82	FD	413122	207.248	207.321	207.915	208.188	208.522
Government purchased goods, excluding foods and energy.....		FD	4132	136.440	136.189	136.217	136.430	136.607
Government purchased goods excluding foods, energy, and capital equipment.....		FD	41321	146.020	145.457	145.137	145.315	145.574
Government purchased capital equipment.....		FD	41322	122.441	122.567	123.012	123.262	123.339
Goods for export, excluding foods and energy.....		FD	4133	137.899	137.180	136.774	136.817	136.923
Final demand services.....		FD	42	139.132	139.154	140.315	140.633	141.113
Final demand trade services ³		FD	423	151.931	150.881	153.271	153.621	154.450
Trade of finished goods ²		FD	4231	150.492	149.729	151.548	151.966	152.601
Trade of personal consumption goods.....		FD	42311	150.210	150.089	151.017	151.430	151.305
Trade of private capital equipment.....		FD	42312	150.029	146.409	152.189	152.620	156.645
Trade of government purchased goods.....		FD	4232	161.148	158.865	165.565	165.601	167.646
Trade of government purchased goods, excluding capital equipment.....		FD	42321	165.461	165.023	170.623	170.249	170.310
Trade of government purchased capital equipment.....		FD	42322	153.157	148.088	156.403	157.064	162.109
Trade of exports.....		FD	4233	161.959	158.638	164.815	164.639	166.840
Final demand transportation and warehousing services.....		FD	422	148.690	148.719	149.108	148.686	148.151
Transportation of passengers for final demand.....		FD	4221	134.101	136.825	139.126	136.393	133.612
Transportation of private passengers.....		FD	42211	134.106	136.824	139.120	136.393	133.618
Transportation of government passengers.....		FD	42212	133.898	136.590	138.867	136.166	133.416
Transportation of passengers for export.....		FD	42213	134.091	136.841	139.160	136.401	133.597
Transportation and warehousing of goods for final demand.....		FD	4222	153.566	152.531	152.159	152.656	153.015
Transportation and warehousing of finished goods ²		FD	42221	151.718	150.655	150.189	150.581	150.852
Transportation and warehousing of personal consumption goods.....		FD	422211	152.173	151.128	150.757	151.163	151.442
Transportation and warehousing of private capital equipment.....		FD	422212	149.875	148.741	147.888	148.222	148.463
Transportation and warehousing of government purchased goods.....		FD	42222	152.204	151.069	151.345	151.584	151.968
Transportation and warehousing of exports.....		FD	42223	159.260	158.304	158.011	158.809	159.370
Final demand services less trade, transportation, and warehousing.....		FD	421	132.364	132.819	133.557	133.936	134.378
Finished services less trade, transportation, and warehousing ²		FD	4211	132.623	133.058	133.787	134.119	134.594
Finished consumer services less trade, transportation, and warehousing.....		FD	42111	131.921	132.334	133.113	133.334	133.854
Private capital investment services less trade, transportation, and warehousing.....		FD	42112	139.206	139.821	140.164	141.371	141.497
Government purchased services less trade, transportation, and warehousing.....		FD	4212	123.395	123.891	124.642	125.305	125.390
Gov. purchased services less trade, transportation, and warehousing, excl. capital investment.....		FD	42121	123.954	124.456	125.250	125.907	126.013
Government purchased capital investment services less trade, transportation, and warehousing.....		FD	42122	109.459	109.849	109.946	110.670	110.449
Services for export less trade, transportation, and warehousing.....		FD	4213	139.709	140.393	141.257	141.997	142.371
Final demand construction.....		FD	43	176.687	176.745	174.607	174.832	174.931
Construction for private capital investment.....		FD	431	180.975	181.070	178.761	179.021	179.148
Construction for government.....		FD	432	168.673	168.652	166.865	167.019	167.056
Final Demand Special Groupings								
Final demand less exports.....	04/10	FD	49101	138.127	138.273	139.088	140.200	140.917
Final demand less government.....	04/10	FD	49102	138.696	138.724	139.560	140.470	141.168
Final demand less foods, food and nonalcoholic beverages for immediate consumption, and energy ¹	04/10	FD	49103	139.024	138.937	139.820	140.054	140.474
Final demand less foods and energy ⁴	04/10	FD	49104	138.747	138.714	139.551	139.838	140.241
Final demand less foods and food and nonalcoholic beverages for immediate consumption ⁴	04/10	FD	49105	138.266	138.251	139.144	140.288	141.001

See footnotes at end of table.

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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	May 2023	June 2023 ^P	July 2023 ^P	Aug. 2023 ^P	Sept. 2023 ^P
Final demand less foods ⁴	04/10	FD	49106	137.980	138.012	138.862	140.002	140.682
Final demand less energy.....	04/10	FD	49107	139.103	139.055	139.880	140.111	140.567
Final demand less trade services.....	01/10	FD	49108	136.319	136.567	137.069	138.270	138.964
Final demand less distributive services ⁵	01/10	FD	49109	135.743	136.045	136.585	137.817	138.526
Final demand goods less energy.....	01/10	FD	49111	141.183	140.930	141.124	141.125	141.566
Final demand goods less foods.....	04/10	FD	49112	136.087	136.145	136.449	139.882	141.163
Final demand services less trade services.....	04/10	FD	49113	132.733	133.144	133.843	134.145	134.492
Final demand distributive services ⁵	04/10	FD	49114	149.115	148.088	150.011	150.376	151.116
Final demand goods plus final demand distributive services ⁵	04/10	FD	49115	142.279	141.849	142.857	144.591	145.651
Final demand less foods, energy, and trade services ⁴	08/13	FD	49116	127.555	127.768	128.185	128.440	128.718
Private and government purchased capital equipment.....	08/13	FD	49117	127.652	127.741	128.136	128.319	128.487
Private and government purchased capital investment services.....	08/13	FD	49118	133.046	131.970	134.244	135.040	136.578
Total private and government purchased capital investment.....	08/13	FD	49119	134.094	133.598	134.615	135.105	135.943
Total finished ²	01/10	FD	49201	139.187	139.363	140.178	141.147	141.848
Total finished less foods, food and nonalcoholic beverages for immediate consumption, and energy ^{2, 4}	12/10	FD	49202	138.388	138.468	139.301	139.599	140.014
Total finished less foods and energy ^{2, 4}	01/10	FD	49203	139.225	139.305	140.140	140.444	140.862
Total finished less foods and food and nonalcoholic beverages for immediate consumption ^{2, 4}	12/10	FD	49204	137.337	137.510	138.355	139.390	140.055
Total finished less foods ^{2, 4}	01/10	FD	49205	138.721	138.894	139.745	140.790	141.461
Total finished less energy ²	01/10	FD	49206	139.702	139.790	140.588	140.852	141.317
Finished goods ²	00/82	FD	49207	250.389	251.194	252.067	257.373	259.978
Finished goods less energy ²	00/82	FD	49208	250.453	250.622	251.146	251.297	252.204
Finished goods, excluding foods ^{2, 4}	00/82	FD	49209	246.359	247.265	248.290	255.175	257.864
Finished services ²	01/10	FD	49210	137.582	137.667	138.669	138.978	139.437
Private capital investment services.....	04/10	FD	49211	143.131	142.067	144.370	145.234	146.820
Finished distributive services ^{2, 5}	04/10	FD	49212	147.539	146.757	148.268	148.674	149.253
Finished services less trade services ²	04/10	FD	49213	132.578	132.981	133.675	133.944	134.336
Finished services less distributive services ^{2, 5}	04/10	FD	49214	131.788	132.271	133.030	133.292	133.692
Total private capital investment (goods, services, and construction).....	04/10	FD	49215	142.070	141.548	142.684	143.231	144.151
Finished goods plus finished distributive services ²	04/10	FD	49216	143.409	143.265	144.245	145.972	147.003
Total exports.....	04/10	FD	49301	139.403	138.560	139.543	140.130	140.824
Goods for export.....	00/82	FD	49302	232.606	230.893	230.969	232.380	233.517
Services for export.....	04/10	FD	49303	149.169	148.515	150.835	151.112	151.872
Total government purchases.....	04/10	FD	49401	134.605	134.460	135.315	137.864	138.772
Government purchased goods.....	00/82	FD	49402	225.963	225.297	225.903	235.426	238.462
Government purchased services.....	04/10	FD	49403	131.603	131.636	133.353	133.811	134.148
Total government purchased capital investment (goods, services, construction).....	08/13	FD	49404	132.005	131.495	132.108	132.406	133.019
Government purchases, defense.....	05/15	FD	49405	120.626	120.622	122.011	124.785	126.010
Government purchases, non-defense.....	05/15	FD	49406	129.609	129.414	129.948	132.173	132.861
Personal consumption.....	01/10	FD	49501	138.445	138.782	139.523	140.587	141.238
Personal consumption goods (finished consumer goods).....	00/82	FD	49502	266.684	267.779	268.753	276.257	279.870
Personal consumption goods less energy.....	00/82	FD	49503	270.216	270.403	270.842	270.905	272.184
Personal consumption goods less foods.....	00/82	FD	49504	266.272	267.653	268.913	279.871	284.033
Personal consumption nondurable goods less foods.....	00/82	FD	49508	299.089	301.140	302.840	318.532	324.333
Personal consumption services.....	04/10	FD	49505	136.209	136.471	137.269	137.492	137.776
Personal consumption less trade services.....	04/10	FD	49506	134.930	135.379	136.070	137.293	138.135
Personal consumption less distributive services ⁵	04/10	FD	49507	134.538	135.041	135.770	137.023	137.887
Personal consumption less foods and energy.....	04/14	FD	49510	127.726	127.947	128.643	128.865	129.128
Personal consumption less foods, energy, and trade services ³	04/14	FD	49511	124.436	124.758	125.406	125.579	125.957
Personal consumption less foods, energy, and distributive services ⁵	04/14	FD	49512	124.296	124.674	125.367	125.532	125.918
Personal consumption goods plus personal consumption distributive services ⁵	08/13	FD	49509	131.722	131.878	132.461	134.427	135.248
Intermediate Demand by Commodity Type								
Processed goods								
Processed goods for intermediate demand.....	00/82	ID6	1	255.354	254.119	253.325	258.855	260.263
Materials and components for manufacturing.....	00/82	ID6	11	236.093	234.447	232.472	232.210	232.249
Materials for manufacturing.....		ID6	111	147.821	146.187	144.130	143.877	143.892
Materials for food manufacturing.....	00/82	ID6	1111	247.315	243.425	245.170	247.368	250.697
Materials for nondurable manufacturing.....	00/82	ID6	1112	269.385	264.861	260.268	259.797	261.213
Materials for durable manufacturing.....	00/82	ID6	1113	290.413	289.601	284.175	282.474	279.291
Components for manufacturing.....	00/82	ID6	112	187.583	187.550	187.714	187.693	187.745
Components for nondurable manufacturing.....		ID6	1121	147.327	146.584	145.929	145.573	144.687
Components for durable manufacturing.....		ID6	1122	132.321	132.331	132.483	132.484	132.563
Materials and components for construction.....	00/82	ID6	12	349.900	349.599	350.512	351.276	352.139
Materials for construction.....		ID6	121	166.193	166.207	166.969	167.590	168.056
Components for construction.....		ID6	122	178.054	177.769	177.956	178.128	178.521
Processed fuels and lubricants for intermediate demand.....	00/82	ID6	13	234.198	233.075	232.802	260.421	266.553
Processed fuels and lubricants to manufacturing industries.....	00/82	ID6	131	243.585	244.334	242.424	258.635	262.687

See footnotes at end of table.

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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	May 2023	June 2023 ^P	July 2023 ^P	Aug. 2023 ^P	Sept. 2023 ^P
Processed fuels and lubricants to nonmanufacturing industries.....	00/82	ID6	132	231.502	229.779	230.026	261.301	268.102
Containers for intermediate demand.....	00/82	ID6	14	311.602	310.214	309.495	307.624	306.997
Supplies for intermediate demand.....	00/82	ID6	15	251.329	250.630	251.197	251.391	251.786
Supplies to manufacturing industries.....	00/82	ID6	151	247.526	247.016	246.482	245.793	245.382
Supplies to nonmanufacturing industries.....	00/82	ID6	152	249.924	249.202	249.936	250.264	250.781
Supplies to nonmanufacturing industries, feeds.....	00/82	ID6	1521	234.223	232.316	239.278	241.503	242.247
Supplies to nonmanufacturing industries, other than feeds.....	00/82	ID6	1522	253.975	253.411	253.332	253.414	253.905
Unprocessed goods								
Unprocessed goods for intermediate demand.....	00/82	ID6	2	244.914	242.626	248.518	253.758	263.979
Unprocessed foodstuffs and feedstuffs.....	00/82	ID6	21	222.687	225.010	223.278	223.507	231.371
Unprocessed nonfood materials.....	00/82	ID6	22	250.401	244.847	256.047	264.715	276.210
Unprocessed nonfood materials except fuel.....	00/82	ID6	221	322.264	313.007	321.338	335.247	352.299
Unprocessed nonfood materials except fuel to manufacturing industries.....	00/82	ID6	2211	297.886	288.816	296.872	310.257	326.735
Unprocessed nonfood materials except fuel to nonmanufacturing industries.....	00/82	ID6	2212	347.782	349.696	350.440	353.207	355.030
Unprocessed fuel.....	00/82	ID6	222	102.567	104.279	120.369	118.714	119.150
Unprocessed fuel to manufacturing industries.....	00/82	ID6	2221	208.750	210.757	219.058	221.813	223.528
Unprocessed fuel to nonmanufacturing industries.....	00/82	ID6	2222	99.509	101.253	118.240	116.290	116.667
Services								
Services for intermediate demand.....		ID6	3	145.505	145.511	146.399	146.442	146.882
Trade services for intermediate demand ⁵		ID6	33	171.171	169.873	173.428	173.048	173.335
Trade services for manufacturing industries.....	12/12	ID6	331	157.704	155.319	158.097	157.246	157.438
Trade services for nonmanufacturing industries.....	12/12	ID6	332	151.065	151.060	154.675	154.821	155.142
Transportation and warehousing services for intermediate demand.....		ID6	32	154.082	153.979	155.170	153.854	154.915
Transportation of passengers for intermediate demand.....		ID6	321	133.962	136.653	138.929	136.230	133.480
Transportation of passengers for manufacturing industries.....		ID6	3211	134.069	136.817	139.135	136.378	133.575
Transportation of passengers for nonmanufacturing industries.....		ID6	3212	134.010	136.694	138.966	136.273	133.530
Transportation and warehousing of goods for intermediate demand.....		ID6	322	156.283	155.918	157.009	155.820	157.242
Transportation and warehousing of goods for manufacturing industries.....	12/12	ID6	3221	129.577	128.559	128.616	129.017	129.246
Transportation and warehousing of goods for nonmanufacturing industries.....	12/12	ID6	3222	139.692	139.572	140.793	139.329	140.876
Services less trade, transportation, and warehousing for intermediate demand.....		ID6	31	137.037	137.346	137.595	137.976	138.332
Services less trade, transportation, and warehousing for manufacturing industries.....		ID6	311	128.199	128.142	128.557	128.817	128.846
Services less trade, transportation, and warehousing for nonmanufacturing industries.....		ID6	312	137.320	137.641	137.885	138.270	138.637
Construction								
Construction for intermediate demand.....		ID6	4	145.429	145.583	145.735	145.817	145.822
Intermediate Demand by Commodity Type Special Groupings								
Processed materials less foods and feeds.....	00/82	ID6	9111	256.708	255.625	254.444	260.331	261.616
Processed foods and feeds.....	00/82	ID6	9112	242.376	239.662	242.660	244.659	247.282
Processed energy goods.....	00/82	ID6	9113	235.285	234.152	233.879	261.635	267.798
Processed materials less energy.....	00/82	ID6	9118	257.285	256.040	255.126	255.046	255.252
Processed materials less foods and energy.....	00/82	ID6	9115	258.711	257.658	256.242	255.891	255.786
Intermediate distributive services ⁶	04/10	ID6	9116	162.268	161.389	163.833	163.111	163.881
Processed goods plus intermediate distributive services.....	04/10	ID6	9117	145.137	144.410	144.757	146.753	147.520
Unprocessed materials less agricultural products.....	00/82	ID6	9211	251.067	244.368	259.494	269.409	283.419
Unprocessed energy materials ⁷	00/82	ID6	9212	181.521	176.666	194.495	205.371	220.837
Unprocessed materials less energy.....	00/82	ID6	9213	281.025	280.976	276.280	276.475	281.580
Unprocessed nonfood materials less energy ⁸	00/82	ID6	9216	455.375	447.941	434.134	434.217	430.595
Intermediate Demand by Production Flow								
Stage 4 Intermediate Demand								
Stage 4 intermediate demand.....		ID5	4	147.611	147.497	148.142	149.046	149.593
Inputs to stage 4 goods producers.....		ID5	41	146.426	145.847	145.914	145.947	146.031
Goods.....		ID5	411	139.956	139.794	139.351	139.254	139.136
Foods.....		ID5	4111	149.078	148.544	146.479	147.491	146.848
Energy.....		ID5	4112	136.867	142.419	141.956	148.908	155.969
Goods excluding foods and energy.....		ID5	4113	138.696	138.538	138.344	138.012	137.908
Services.....		ID5	412	167.963	165.993	167.758	168.223	168.979
Trade services.....		ID5	4123	180.267	177.287	179.681	180.312	181.343
Transportation and warehousing services.....		ID5	4122	134.780	134.554	134.709	134.654	134.517
Transportation of passengers.....		ID5	41221	134.090	136.840	139.159	136.401	133.596
Transportation and warehousing of goods.....		ID5	41222	143.840	143.013	142.751	143.227	143.607
Services less trade, transportation, and warehousing.....		ID5	4121	129.363	129.896	130.219	130.336	130.521
Inputs to stage 4 services producers.....		ID5	42	144.507	144.580	145.611	146.709	147.437

See footnotes at end of table.

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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	May 2023	June 2023 ^P	July 2023 ^P	Aug. 2023 ^P	Sept. 2023 ^P
Goods.....		ID5	421	144.657	144.656	144.832	146.635	147.438
Foods.....		ID5	4211	145.808	145.380	147.010	147.872	150.319
Energy.....		ID5	4212	138.166	138.380	137.961	143.516	144.652
Goods excluding foods and energy.....		ID5	4213	147.246	147.243	147.320	147.194	147.290
Services.....		ID5	422	144.238	144.336	145.652	146.514	147.217
Trade services.....		ID5	4223	160.459	158.570	162.776	162.789	163.312
Transportation and warehousing services.....		ID5	4222	149.297	149.198	151.261	150.195	151.040
Transportation of passengers.....		ID5	42221	133.585	136.307	138.605	135.874	133.096
Transportation and warehousing of goods.....		ID5	42222	152.589	152.009	154.040	153.254	154.723
Services less trade, transportation, and warehousing.....		ID5	4221	140.945	141.275	142.195	143.343	144.044
Construction.....		ID5	423	145.429	145.583	145.735	145.817	145.822
Inputs to stage 4 construction producers.....		ID5	43	160.683	160.839	161.161	163.183	164.005
Goods.....		ID5	431	164.839	165.041	165.199	168.152	169.180
Energy.....		ID5	4312	142.077	144.213	142.795	170.023	177.947
Goods excluding foods and energy.....		ID5	4313	170.905	170.922	171.243	171.807	172.160
Services.....		ID5	432	149.984	150.022	150.747	150.464	150.776
Trade services.....		ID5	4323	167.484	167.784	169.439	168.623	168.948
Transportation and warehousing services.....		ID5	4322	146.304	145.360	144.739	144.981	145.167
Transportation of passengers.....		ID5	43221	139.778	142.639	145.052	142.182	139.264
Transportation and warehousing of goods.....		ID5	43222	147.238	146.197	145.498	145.818	146.080
Services less trade, transportation, and warehousing.....		ID5	4321	131.085	131.279	131.689	131.674	132.010
Stage 3 Intermediate Demand								
Stage 3 intermediate demand.....		ID5	3	145.532	145.303	144.738	146.396	147.731
Inputs to stage 3 goods producers.....		ID5	31	156.130	155.795	153.844	154.374	155.940
Goods.....		ID5	311	151.721	151.704	149.101	150.032	152.039
Foods.....		ID5	3111	161.987	164.281	161.032	164.643	171.705
Energy.....		ID5	3112	132.320	133.153	130.167	141.021	146.576
Goods excluding foods and energy.....		ID5	3113	152.726	151.696	149.325	148.514	148.152
Services.....		ID5	312	162.631	161.090	161.755	160.722	160.496
Trade services.....		ID5	3123	170.174	167.806	169.214	167.063	166.456
Transportation and warehousing services.....		ID5	3122	148.775	147.906	147.296	147.571	147.791
Transportation of passengers.....		ID5	31221	142.768	145.695	148.163	145.227	142.243
Transportation and warehousing of goods.....		ID5	31222	148.897	147.818	147.036	147.490	147.889
Services less trade, transportation, and warehousing.....		ID5	3121	133.762	133.849	134.395	134.641	134.829
Inputs to stage 3 services producers.....		ID5	32	136.659	136.488	136.882	139.359	140.511
Goods.....		ID5	321	119.524	118.815	118.364	134.048	137.486
Foods.....		ID5	3211	157.330	155.096	155.233	157.016	156.180
Energy.....		ID5	3212	115.285	114.257	113.671	139.511	145.171
Goods excluding foods and energy.....		ID5	3213	135.671	135.473	135.203	135.221	135.254
Services.....		ID5	322	140.968	140.935	141.555	140.584	141.149
Trade services.....		ID5	3223	191.516	193.326	198.818	198.009	197.103
Transportation and warehousing services.....		ID5	3222	160.463	160.896	162.488	159.811	162.231
Transportation of passengers.....		ID5	32221	104.357	104.277	104.496	104.562	104.414
Transportation and warehousing of goods.....		ID5	32222	160.955	161.390	162.990	160.298	162.732
Services less trade, transportation, and warehousing.....		ID5	3221	133.073	132.801	132.862	132.345	132.493
Construction.....		ID5	323	145.429	145.583	145.735	145.817	145.822
Inputs to stage 3 construction producers.....		ID5	33	137.079	138.205	140.208	141.267	142.750
Goods.....		ID5	331	133.972	133.913	134.230	134.235	134.403
Goods excluding foods and energy.....		ID5	3313	170.713	170.637	171.040	171.047	171.262
Services.....		ID5	332	158.949	161.638	165.910	168.364	171.606
Trade services.....		ID5	3323	162.894	165.957	170.680	173.369	176.992
Transportation and warehousing services.....		ID5	3322	114.059	113.099	112.842	113.657	114.178
Transportation and warehousing of goods.....		ID5	33222	120.394	119.380	119.109	119.969	120.519
Services less trade, transportation, and warehousing.....		ID5	3321	125.796	125.532	126.231	126.412	126.041
Stage 2 Intermediate Demand								
Stage 2 intermediate demand.....		ID5	2	133.531	132.202	134.676	135.629	137.634
Inputs to stage 2 goods producers.....		ID5	21	120.433	118.085	122.610	124.620	128.020
Goods.....		ID5	211	115.027	112.313	117.557	120.442	125.010
Foods.....		ID5	2111	160.081	154.895	161.754	159.943	162.684
Energy.....		ID5	2112	80.167	77.874	86.236	91.206	98.093
Goods excluding foods and energy.....		ID5	2113	146.419	144.010	142.436	142.266	142.380
Services.....		ID5	212	150.048	148.630	151.314	150.655	150.587
Trade services.....		ID5	2123	168.768	165.927	171.835	170.321	169.909
Transportation and warehousing services.....		ID5	2122	166.669	165.468	167.652	167.668	167.858
Transportation of passengers.....		ID5	21221	134.557	137.179	139.407	136.777	134.089
Transportation and warehousing of goods.....		ID5	21222	168.545	167.156	169.341	169.486	169.816
Services less trade, transportation, and warehousing.....		ID5	2121	137.169	136.963	136.837	136.399	136.463
Construction.....		ID5	213	145.429	145.583	145.735	145.817	145.822

See footnotes at end of table.

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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	May 2023	June 2023 ^P	July 2023 ^P	Aug. 2023 ^P	Sept. 2023 ^P
Inputs to stage 2 services producers.....		ID5	22	145.105	145.094	144.928	144.532	144.728
Goods.....		ID5	221	144.113	143.730	143.625	144.825	145.306
Foods.....		ID5	2211	117.919	115.713	115.336	114.233	114.584
Energy.....		ID5	2212	143.513	141.960	143.077	165.533	169.125
Goods excluding foods and energy.....		ID5	2213	144.813	144.531	144.348	144.180	144.459
Services.....		ID5	222	144.797	144.829	144.649	144.047	144.212
Trade services.....		ID5	2223	183.925	183.335	182.177	184.990	183.149
Transportation and warehousing services.....		ID5	2222	144.922	146.672	146.380	138.266	141.074
Transportation of passengers.....		ID5	22221	134.521	137.257	139.568	136.823	134.030
Transportation and warehousing of goods.....		ID5	22222	147.406	148.982	148.206	139.067	142.924
Services less trade, transportation, and warehousing.....		ID5	2221	143.826	143.759	143.631	143.422	143.485
Construction.....		ID5	223	145.429	145.583	145.735	145.817	145.822
Stage 1 Intermediate Demand								
Stage 1 intermediate demand.....		ID5	1	144.121	143.830	144.009	146.068	146.586
Inputs to stage 1 goods producers.....		ID5	11	145.204	143.914	143.427	144.098	143.891
Goods.....		ID5	111	143.669	142.461	140.993	142.465	142.253
Foods.....		ID5	1111	155.179	154.617	150.543	150.223	146.700
Energy.....		ID5	1112	120.236	120.251	121.174	129.347	132.013
Goods excluding foods and energy.....		ID5	1113	151.044	149.401	147.761	147.954	147.605
Services.....		ID5	112	153.313	151.740	154.014	152.440	152.240
Trade services.....		ID5	1123	168.132	165.146	168.367	165.472	165.130
Transportation and warehousing services.....		ID5	1122	156.743	155.187	155.766	156.532	155.986
Transportation of passengers.....		ID5	11221	134.064	136.814	139.133	136.375	133.570
Transportation and warehousing of goods.....		ID5	11222	160.581	157.969	158.108	159.744	159.768
Services less trade, transportation, and warehousing.....		ID5	1121	109.219	109.671	110.632	110.631	110.691
Construction.....		ID5	113	145.429	145.583	145.735	145.817	145.822
Inputs to stage 1 services producers.....		ID5	12	142.711	142.930	143.451	146.067	146.884
Goods.....		ID5	121	143.068	142.327	141.681	148.464	149.668
Foods.....		ID5	1211	150.825	131.567	131.437	131.964	130.690
Energy.....		ID5	1212	146.425	144.497	142.430	164.172	167.521
Goods excluding foods and energy.....		ID5	1213	149.279	149.190	149.178	149.286	149.556
Services.....		ID5	122	141.903	142.527	143.537	144.384	145.035
Trade services.....		ID5	1223	171.691	172.258	175.036	175.255	174.986
Transportation and warehousing services.....		ID5	1222	141.467	142.076	144.026	143.469	143.072
Transportation of passengers.....		ID5	12221	133.984	136.732	139.050	136.293	133.491
Transportation and warehousing of goods.....		ID5	12222	160.534	160.074	162.037	162.589	163.426
Services less trade, transportation, and warehousing.....		ID5	1221	137.385	138.010	138.701	139.799	140.682
Construction.....		ID5	123	145.429	145.583	145.735	145.817	145.822
Inputs to stage 1 construction producers.....		ID5	13	159.048	159.176	159.654	163.200	164.416
Goods.....		ID5	131	161.565	161.144	160.806	165.144	165.981
Energy.....		ID5	1312	125.330	121.954	117.598	152.839	157.031
Goods excluding foods and energy.....		ID5	1313	168.573	168.506	168.649	169.314	169.758
Services.....		ID5	132	153.888	155.360	157.842	159.468	161.619
Trade services.....		ID5	1323	161.260	163.698	167.405	169.572	172.454
Transportation and warehousing services.....		ID5	1322	121.370	120.397	119.647	119.897	120.032
Transportation and warehousing of goods.....		ID5	13222	125.542	124.536	123.760	124.018	124.158
Services less trade, transportation, and warehousing.....		ID5	1321	137.760	137.703	138.408	138.347	139.646
Intermediate Demand by Production Flow Special Groupings								
Total goods inputs to stage 4 intermediate demand.....	04/10	ID5	9411	143.310	143.272	143.141	144.217	144.602
Total services inputs to stage 4 intermediate demand.....	04/10	ID5	9412	147.859	147.677	149.010	149.734	150.414
Total construction inputs to stage 4 intermediate demand.....	04/10	ID5	9413	144.224	144.377	144.528	144.609	144.614
Total foods inputs to stage 4 intermediate demand.....	04/10	ID5	9414	144.436	143.958	143.492	144.418	145.088
Total energy goods inputs to stage 4 intermediate demand.....	04/10	ID5	9415	127.313	127.957	127.425	135.729	137.947
Total goods less foods and energy inputs to stage 4 intermediate demand.....	04/10	ID5	9416	146.703	146.619	146.604	146.529	146.574
Total goods inputs to stage 3 intermediate demand.....	04/10	ID5	9311	136.278	136.093	134.176	138.617	140.848
Total services inputs to stage 3 intermediate demand.....	04/10	ID5	9312	143.623	143.366	144.023	143.082	143.537
Total construction inputs to stage 3 intermediate demand.....	04/10	ID5	9313	144.224	144.377	144.528	144.609	144.614
Total foods inputs to stage 3 intermediate demand.....	04/10	ID5	9314	144.142	146.149	143.283	146.483	152.708
Total energy goods inputs to stage 3 intermediate demand.....	04/10	ID5	9315	115.607	114.874	113.943	137.064	142.600
Total goods less foods and energy inputs to stage 3 intermediate demand.....	04/10	ID5	9316	143.983	143.140	141.236	140.599	140.323
Total goods inputs to stage 2 intermediate demand.....	04/10	ID5	9211	112.363	110.010	114.473	117.053	120.998
Total services inputs to stage 2 intermediate demand.....	04/10	ID5	9212	146.520	146.207	146.706	146.089	146.199
Total construction inputs to stage 2 intermediate demand.....	04/10	ID5	9213	144.224	144.377	144.528	144.609	144.614
Total foods inputs to stage 2 intermediate demand.....	04/10	ID5	9214	160.477	155.304	162.091	160.278	162.999
Total energy goods inputs to stage 2 intermediate demand.....	04/10	ID5	9215	79.199	76.962	85.069	90.129	96.837
Total goods less foods and energy inputs to stage 2 intermediate demand.....	04/10	ID5	9216	137.711	135.908	134.730	134.570	134.713
Total goods inputs to stage 1 intermediate demand.....	04/10	ID5	9111	130.156	129.340	128.450	131.769	132.160

See footnotes at end of table.

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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	May 2023	June 2023 ^p	July 2023 ^p	Aug. 2023 ^p	Sept. 2023 ^p
Total services inputs to stage 1 intermediate demand.....	04/10	ID5	9112	143.905	144.197	145.518	145.989	146.585
Total construction inputs to stage 1 intermediate demand.....	04/10	ID5	9117	144.224	144.377	144.528	144.609	144.614
Total foods inputs to stage 1 intermediate demand.....	04/10	ID5	9114	145.835	144.872	141.132	140.851	137.590
Total energy goods inputs to stage 1 intermediate demand.....	04/10	ID5	9115	129.248	128.032	127.025	143.795	146.830
Total goods less foods and energy inputs to stage 1 intermediate demand.....	04/10	ID5	9116	127.761	127.065	126.426	126.646	126.650

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.