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PRODUCER PRICE INDEXES – OCTOBER 2022

The Producer Price Index for final demand increased 0.2 percent in October, seasonally adjusted, the U.S. Bureau of Labor Statistics reported today. Final demand prices rose 0.2 percent in September and were unchanged in August. (See table A.) On an unadjusted basis, the index for final demand advanced 8.0 percent for the 12 months ended in October.

In October, the rise in the index for final demand can be attributed to a 0.6-percent advance in prices for final demand goods. In contrast, the index for final demand services decreased 0.1 percent.

Prices for final demand less foods, energy, and trade services advanced 0.2 percent in October following a 0.3-percent rise in September. For the 12 months ended in October, the index for final demand less foods, energy, and trade services increased 5.4 percent.

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

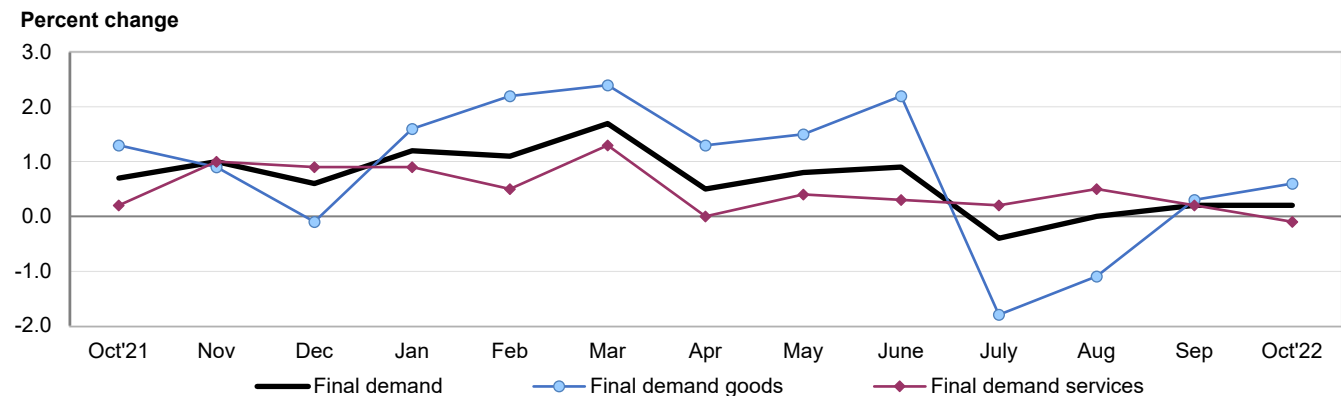
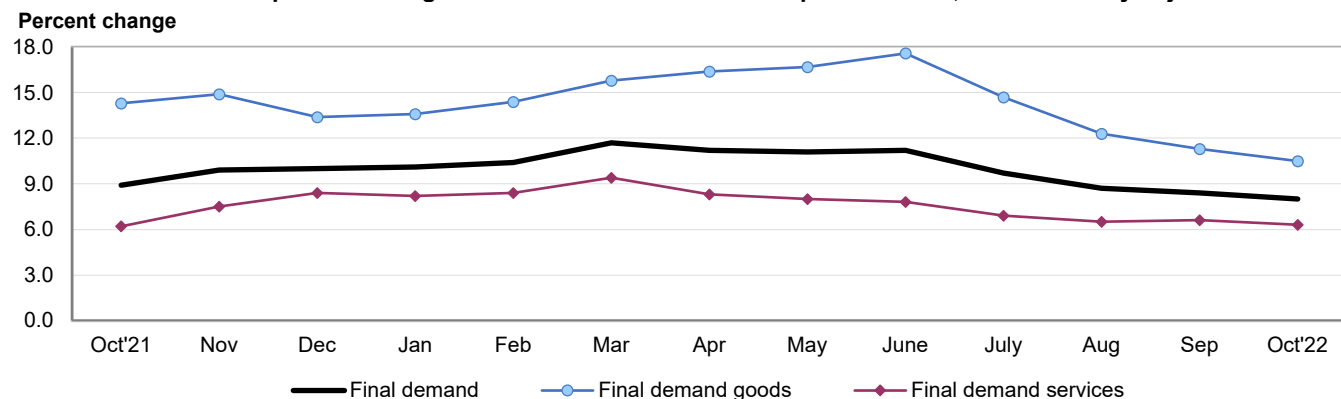


Chart 2. Twelve-month percent changes in selected PPI final demand price indexes, not seasonally adjusted



Final Demand

Final demand goods: The index for final demand goods moved up 0.6 percent in October, the largest advance since a 2.2-percent rise in June. Most of the October increase can be traced to a 2.7-percent jump in prices for final demand energy. The index for final demand foods advanced 0.5 percent. Conversely, prices for final demand goods less foods and energy decreased 0.1 percent.

Product detail: In October, 60 percent of the increase in prices for final demand goods is attributable to the index for gasoline, which rose 5.7 percent. Prices for diesel fuel, fresh and dry vegetables, residential electric power, chicken eggs, and oil field and gas field machinery also advanced. In contrast, the index for passenger cars declined 1.5 percent. (In accordance with usual practice, most new-model-year passenger cars and light motor trucks were introduced into the PPI in October. See *Report on Quality Changes for 2023 Model Vehicles* at www.bls.gov/web/ppi/ppimotveh.htm.) Prices for gas fuels and for processed young chickens also fell. (See table 2.)

Final demand services: The index for final demand services fell 0.1 percent in October, the first decline since moving down 0.2 percent in November 2020. Leading the October decrease, margins for final demand trade services fell 0.5 percent. (Trade indexes measure changes in margins received by wholesalers and retailers.) Prices for final demand transportation and warehousing services moved down 0.2 percent. Conversely, the index for final demand services less trade, transportation, and warehousing increased 0.2 percent.

Product detail: A major factor in the October decrease in prices for final demand services was the index for fuels and lubricants retailing, which fell 7.7 percent. The indexes for portfolio management, long-distance motor carrying, automobile retailing (partial), and professional and commercial equipment wholesaling also moved lower. In contrast, prices for hospital inpatient care increased 0.8 percent. The indexes for services related to securities brokerage and dealing (partial), apparel wholesaling, and airline passenger services also rose.

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

Month	Total final demand	Final demand less foods, energy, and trade	Final demand goods				Final demand services				Change in final demand from 12 months ago (unadj.)	Change in final demand less foods, energy, and trade from 12 mo. ago (unadj.)
			Total	Foods	Energy	Less foods and energy	Total	Trade	Transportation and warehousing	Other		
2021												
Oct....	0.7	0.4	1.3	-0.1	5.0	0.7	0.2	0.5	1.1	-0.1	8.9	6.2
Nov....	1.0	0.8	0.9	1.3	0.9	0.8	1.0	1.3	2.8	0.6	9.9	7.0
Dec....	0.6	0.4	-0.1	-0.2	-1.4	0.4	0.9	1.9	1.6	0.3	10.0	7.0
2022												
Jan... ..	1.2	0.8	1.6	1.8	4.1	0.8	0.9	1.3	0.0	0.8	10.1	6.9
Feb... ..	1.1	0.2	2.2	1.9	7.2	0.8	0.5	1.7	2.0	-0.3	10.4	6.7
Mar... ..	1.7	1.0	2.4	2.4	6.6	1.1	1.3	2.3	5.6	0.4	11.7	7.1
Apr.... .	0.5	0.4	1.3	1.5	1.5	1.1	0.0	0.1	2.1	-0.2	11.2	6.8
May... ..	0.8	0.5	1.5	0.4	4.8	0.7	0.4	0.6	2.5	0.1	11.1	6.8
June ¹ ..	0.9	0.3	2.2	-0.1	8.9	0.5	0.3	0.3	0.8	0.2	11.2	6.4
July ¹ ...	-0.4	0.2	-1.8	1.3	-9.1	0.1	0.2	0.7	-0.5	0.0	9.7	5.8
Aug. ¹ ..	0.0	0.2	-1.1	-0.1	-5.4	0.2	0.5	1.1	-1.1	0.3	8.7	5.6
Sept. ¹ ..	0.2	0.3	0.3	1.3	0.6	0.0	0.2	-0.3	-0.4	0.5	8.4	5.6
Oct.... .	0.2	0.2	0.6	0.5	2.7	-0.1	-0.1	-0.5	-0.2	0.2	8.0	5.4

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

Intermediate Demand by Commodity Type

Within intermediate demand in October, prices for processed goods fell 0.2 percent, the index for unprocessed goods declined 11.7 percent, and prices for services rose 0.3 percent. (See tables B and C.)

Processed goods for intermediate demand: Prices for processed goods for intermediate demand moved down 0.2 percent in October after no change in September. Leading the decrease, the index for processed materials less foods and energy fell 0.8 percent. Prices for processed foods and feeds declined 0.5 percent. Conversely, the index for processed energy goods advanced 1.7 percent. For the 12 months ended in October, prices for processed goods for intermediate demand rose 10.1 percent.

Product detail: A major factor in the October decrease in prices for processed goods for intermediate demand was the index for cold rolled steel sheet and strip, which dropped 16.5 percent. Prices for utility natural gas, primary basic organic chemicals, plastic resins and materials, liquefied petroleum gas, and processed young chickens also fell. In contrast, the index for diesel fuel advanced 9.5 percent. Prices for agricultural chemicals and chemical products and for flour and flour-base mixes and doughs also moved higher.

Unprocessed goods for intermediate demand: The index for unprocessed goods for intermediate demand fell 11.7 percent in October, the largest decrease since moving down 14.4 percent in April 2020. The broad-based October decline was led by prices for unprocessed energy materials, which dropped 19.8 percent. The indexes for unprocessed nonfood materials less energy and for unprocessed foodstuffs and feedstuffs also moved lower, 5.3 percent and 3.1 percent, respectively. For the 12 months ended in October, prices for unprocessed goods for intermediate demand rose 9.7 percent.

Product detail: A major factor in the October decrease in prices for unprocessed goods for intermediate demand was the index for natural gas, which dropped 37.8 percent. Prices for corn, raw milk, slaughter barrows and gilts, oilseeds, and recyclable paper also moved lower. Conversely, the index for crude petroleum increased 2.0 percent. Prices for ungraded chicken eggs and for coal also rose.

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

Month	Processed goods for intermediate demand					Unprocessed goods for intermediate demand				
	Total	Foods and feeds	Energy goods	Less foods and energy	Total, change from 12 months ago (unadj.)	Total	Food-stuffs and feed-stuffs	Energy materials	Nonfood materials less energy	Total, change from 12 months ago (unadj.)
2021										
Oct.....	2.4	-0.4	6.7	1.6	25.7	6.0	-2.2	17.7	-1.5	55.5
Nov.....	1.5	0.1	2.5	1.4	26.6	2.3	1.3	2.3	3.4	49.6
Dec.....	-0.1	0.1	-2.7	0.6	24.4	-4.8	3.8	-12.1	-1.8	40.0
2022										
Jan.....	2.2	2.6	4.7	1.5	24.8	3.1	2.9	4.2	1.1	36.4
Feb.....	1.5	2.1	5.8	0.4	23.3	9.8	5.4	18.2	1.5	33.5
Mar.....	2.3	2.1	7.3	0.9	22.1	2.9	7.7	-4.3	9.7	43.3
Apr.....	2.0	3.2	4.4	1.2	22.0	5.5	4.2	9.3	1.3	50.1
May.....	2.3	1.1	4.5	1.8	21.6	5.4	0.2	14.6	-4.2	46.4
June ¹	2.0	0.0	8.8	0.1	21.9	4.8	-0.4	11.1	-2.0	50.3
July ¹	-2.3	0.2	-8.8	-0.4	17.2	-9.2	-1.7	-14.3	-7.2	32.5
Aug. ¹	-1.5	-0.1	-4.5	-0.7	14.3	4.5	-1.7	10.9	0.4	36.9
Sept. ¹	0.0	-0.4	2.2	-0.7	13.0	-0.9	1.1	-2.3	-0.2	32.1
Oct.....	-0.2	-0.5	1.7	-0.8	10.1	-11.7	-3.1	-19.8	-5.3	9.7

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Services for intermediate demand: The index for services for intermediate demand increased 0.3 percent in October, the fourth consecutive rise. Leading the October advance, prices for services less trade, transportation, and warehousing for intermediate demand climbed 0.5 percent. The index for transportation and warehousing services for intermediate demand moved up 0.6 percent. In contrast, margins for trade services for intermediate demand fell 0.3 percent. For the 12 months ended in October, the index for services for intermediate demand increased 6.5 percent, the largest advance since rising 7.9 percent in May.

Product detail: Over half of the October rise in the index for services for intermediate demand can be attributed to a 6.0-percent increase in prices for business loans (partial). The indexes for services related to securities brokerage and dealing (partial); arrangement of freight and cargo transportation; television advertising time sales; building materials, paint, and hardware wholesaling; and metals, minerals, and ores wholesaling also advanced. Conversely, margins for machinery and equipment parts and supplies wholesaling fell 0.9 percent. Prices for gross rents for retail properties and for long-distance motor carrying also decreased.

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

Month	Services for intermediate demand				Total, change from 12 months ago (unadj.)
	Total	Trade	Transportation and warehousing	Other	
2021					
Oct.....	0.0	0.6	0.5	-0.3	7.4
Nov.....	0.6	-0.6	1.0	0.9	8.1
Dec.....	0.8	1.5	1.6	0.5	8.3
2022					
Jan.....	0.8	1.4	0.6	0.6	7.9
Feb.....	0.2	1.4	0.4	-0.2	7.8
Mar.....	1.3	4.4	2.1	0.0	8.4
Apr.....	0.9	1.0	1.7	0.6	8.0
May.....	0.5	0.6	0.6	0.4	7.9
June ¹	-0.3	-0.7	0.1	-0.3	6.3
July ¹	0.3	0.0	1.0	0.2	5.9
Aug. ¹	0.6	-0.8	-0.3	1.4	6.1
Sept. ¹	0.4	-0.2	-0.9	0.9	6.2
Oct.....	0.3	-0.3	0.6	0.5	6.5

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Intermediate Demand by Production Flow

Stage 4 intermediate demand: The index for stage 4 intermediate demand was unchanged in October following a 0.3-percent increase in September. In October, prices for total services inputs to stage 4 intermediate demand rose 0.1 percent. In contrast, prices for total goods inputs moved down 0.2 percent. (See table D.) Increases in the indexes for services related to securities brokerage and dealing (partial); diesel fuel; business loans (partial); gasoline; and building materials, paint, and hardware wholesaling offset declines in the indexes for corn, machinery and equipment parts and supplies wholesaling, portfolio management, gross rents for retail properties, and cold rolled steel sheet and strip. For the 12 months ended in October, prices for stage 4 intermediate demand advanced 7.7 percent.

Stage 3 intermediate demand: The index for stage 3 intermediate demand declined 0.5 percent in October following no change in the previous month. In October, prices for total goods inputs to stage 3 intermediate demand moved down 1.5 percent. Conversely, the index for total services inputs increased 0.5 percent. Decreases in prices for raw milk, corn, slaughter barrows and gilts, cold rolled steel sheet and strip, primary basic organic chemicals, and slaughter chickens outweighed advances in the indexes for arrangement of freight and cargo transportation, diesel fuel, and ungraded chicken eggs. For the 12 months ended in October, prices for stage 3 intermediate demand rose 9.1 percent.

Stage 2 intermediate demand: The index for stage 2 intermediate demand declined 5.3 percent in October after falling 0.6 percent in September. In October, prices for total goods inputs to stage 2 intermediate demand dropped 10.9 percent. In contrast, the index for total services inputs advanced 0.8 percent. Decreases in the indexes for gas fuels, oilseeds, primary basic organic chemicals, fuels and lubricants retailing, recyclable paper, and prepared animal feeds outweighed increases in prices for business loans (partial), crude petroleum, and coal. For the 12 months ended in October, prices for stage 2 intermediate demand rose 7.3 percent.

Stage 1 intermediate demand: The index for stage 1 intermediate demand was unchanged in October following a 0.3-percent increase in September. In October, prices for total services inputs to stage 1 intermediate demand advanced 0.3 percent. Conversely, the index for total goods inputs declined 0.3 percent. Increases in the indexes for services related to securities brokerage and dealing (partial); diesel fuel; gasoline; building materials, paint, and hardware wholesaling; and traveler accommodation services offset decreases in prices for corn, primary basic organic chemicals, cold rolled steel sheet and strip, utility natural gas, and gross rents for retail properties. For the 12 months ended in October, the index for stage 1 intermediate demand rose 9.2 percent.

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

Month	Stage 4 intermediate demand			Stage 3 intermediate demand			Stage 2 intermediate demand			Stage 1 intermediate demand		
	Total	Goods inputs	Services inputs	Total	Goods inputs	Services inputs	Total	Goods inputs	Services inputs	Total	Goods inputs	Services inputs
2021												
Oct.....	0.6	1.3	0.0	1.0	1.9	0.2	3.7	7.9	-0.1	1.1	2.5	-0.3
Nov.....	1.1	1.5	0.7	0.8	1.2	0.4	1.2	1.7	0.7	1.3	2.0	0.5
Dec.....	0.7	0.5	0.8	0.8	0.7	0.9	-2.2	-5.6	1.2	0.4	0.0	0.8
2022												
Jan.....	1.5	2.1	1.0	1.6	2.6	0.7	1.4	2.7	0.1	1.4	1.8	1.0
Feb.....	0.6	1.2	0.0	1.4	2.6	0.1	4.3	8.4	0.3	1.0	1.6	0.2
Mar.....	1.2	1.6	0.8	3.1	4.5	1.6	0.8	0.3	1.3	2.8	3.3	2.2
Apr.....	1.0	1.2	0.7	2.5	3.7	1.3	2.8	4.7	0.7	1.7	2.4	0.9
May.....	0.9	1.4	0.4	1.7	2.6	0.6	3.6	6.8	0.3	1.5	2.3	0.7
June ¹	0.4	1.1	-0.3	0.5	1.4	-0.5	2.9	5.4	0.0	1.0	2.4	-0.6
July ¹	-0.4	-0.9	0.0	-1.4	-3.0	0.5	-4.1	-8.4	1.0	-1.9	-3.2	-0.5
Aug. ¹	0.3	-0.1	0.7	-1.6	-3.2	0.1	3.1	4.7	1.4	-0.6	-1.5	0.5
Sept. ¹	0.3	0.0	0.6	0.0	0.0	0.0	-0.6	-1.6	0.4	0.3	0.4	0.1
Oct.....	0.0	-0.2	0.1	-0.5	-1.5	0.5	-5.3	-10.9	0.8	0.0	-0.3	0.3

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The Producer Price Index for November 2022 is scheduled to be released on Friday, December 9, 2022, at 8:30 a.m. (ET).

Recalculated Seasonal Adjustment Factors and Relative Importance Figures to be Available on February 14, 2023

Each year with the release of PPI data for January, seasonal adjustment factors and relative importance figures are recalculated to reflect price movements from the just-completed calendar year. The following information relating to the seasonal-factor update will be available on February 14, 2023 (2 workdays prior to the release of PPI data for January 2023 on February 16, 2023):

- Direct seasonal factors for PPI commodity indexes for the year 2023,
- Recalculated seasonal factors for the last 5 years (2018-2022) for PPI commodity indexes,
- Recalculated seasonal factors for the last 5 years (2018-2022) for PPI Final Demand-Intermediate Demand indexes,
- Recalculated seasonal index data for the last 5 years (2018-2022) for Final Demand-Intermediate Demand and commodity indexes. This revision to seasonally adjusted indexes for the previous 5 years will be posted to the PPI database on the BLS website.

In addition, the following relative importance tables, which include values for December 2022, will be available on February 14, 2023:

- Final demand by individual commodities
- Final demand by component series
- Individual commodities of intermediate demand by commodity type
- Component series of intermediate demand by commodity type
- Individual commodities of intermediate demand by production flow
- Component series of intermediate demand by production flow
- Commodities, all levels
- Wherever-provided services and construction

This information will be available on the PPI website at www.bls.gov/ppi or by contacting the PPI Section of Index Analysis and Public Information at ppi-info@bls.gov or (202) 691-7705.

PPI Weights to be Updated to Reflect 2017 Census Shipment Values

With the release of January 2023 Producer Price Index (PPI) data on February 16, 2023, the Bureau of Labor Statistics will update PPI value weights to more accurately reflect recent production and marketing patterns. The updated weights will be constructed using 2017 value of shipments data from the Census of Manufactures, the Census of Mining, the Census of Services, and the Census of Agriculture. These data were collected in accordance with the North American Product Classification System (NAPCS). From January 2018 through December 2022, PPI weights have been based on 2012 North American Industry Classification System (NAICS) shipment values.

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

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

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

Commodity and FD-ID relative importance figures for December 2022 will be released on February 14, 2023, two business days prior to the release of January 2023 PPI data. This information will be available on the PPI website at www.bls.gov/ppi/tables/. Following the January 2023 PPI data release, a concordance between Census product codes and PPI commodity codes will be available upon request by contacting the PPI Section of Index Analysis and Public Information at ppi-info@bls.gov or (202) 691-7705.

Technical Note

Brief Explanation of Producer Price Indexes

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

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

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

Final Demand–Intermediate Demand Indexes

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Comparing the PPI with CPI

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

Commodity Indexes

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

Industry Net-Output Price Indexes

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

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

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

Data Collection

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

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

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

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

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

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

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

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

Weights

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

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

Price Index Reference Base

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

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

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

Calculating Index Changes

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

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

Index point change

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

Index percent change

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

Seasonally Adjusted and Unadjusted Data

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

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

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

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

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

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

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

Producer Price Index Data on the Internet

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

Retrieving PPI data from the PPI Web site

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

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

EXAMPLES

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional information

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

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

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

Grouping	Commodity code		Relative Importance Dec. 2021 ¹	Unadjusted 12-month percent change ² Oct. 2021 to Oct. 2022 ^P	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			May to June	June to July ^P	July to Aug. ^P	Aug. to Sept. ^P	Sept. to Oct. ^P
Final Demand									
Final demand.....	FD	4	100.000	8.0	0.9	-0.4	0.0	0.2	0.2
Final demand goods.....	FD	41	33.128	10.5	2.2	-1.8	-1.1	0.3	0.6
Final demand foods.....	FD	411	5.743	12.7	-0.1	1.3	-0.1	1.3	0.5
Finished consumer foods ³	FD	4111	4.425	13.0	-0.4	2.3	-0.4	1.1	1.1
Finished consumer foods, crude.....	FD	41113	0.460	47.4	-7.9	14.2	-7.7	11.5	15.6
Finished consumer foods, processed.....	FD	41112	3.965	9.3	0.5	1.0	0.5	0.0	-0.7
Government purchased foods.....	FD	4112	0.407	9.3	0.2	1.6	0.1	-0.2	0.2
Foods for export.....	FD	4113	0.911	12.6	0.8	-3.4	1.2	2.5	-2.0
Final demand energy.....	FD	412	5.972	21.8	8.9	-9.1	-5.4	0.6	2.7
Finished consumer energy goods ³	FD	4121	4.773	17.3	9.3	-9.4	-5.0	0.0	3.0
Government purchased energy.....	FD	4122	0.834	38.1	7.6	-8.3	-6.7	3.0	2.4
Energy for export.....	FD	4123	0.365	43.0	7.5	-7.4	-6.9	1.8	-0.1
Final demand goods less foods and energy.....	FD	413	21.412	6.6	0.5	0.1	0.2	0.0	-0.1
Finished goods less foods and energy ³	FD	4131	12.084	8.1	0.7	0.5	0.5	0.3	0.2
Finished consumer goods less foods and energy.....	FD	41311	6.448	7.7	0.7	0.6	0.5	0.2	0.2
Nondurable consumer goods less foods and energy.....	FD	413111	4.061	8.2	0.8	0.6	0.7	0.3	0.3
Durable consumer goods.....	FD	413112	2.387	6.7	0.5	0.5	0.3	0.1	-0.1
Private capital equipment.....	FD	41312	5.636	8.5	0.7	0.5	0.5	0.3	0.3
Private capital equipment for manufacturing industries.....	FD	413121	1.256	10.4	0.6	0.5	0.4	0.4	0.3
Private capital equipment for nonmanufacturing industries.....	FD	413122	4.380	8.0	0.8	0.5	0.5	0.3	0.3
Government purchased goods, excluding foods and energy.....	FD	4132	2.255	8.0	0.7	0.4	0.0	0.0	0.0
Government purchased goods excluding foods, energy, and capital equipment.....	FD	41321	1.338	10.3	0.8	0.5	-0.1	0.0	-0.1
Government purchased capital equipment.....	FD	41322	0.917	4.6	0.5	0.3	0.2	-0.1	0.1
Goods for export, excluding foods and energy.....	FD	4133	7.073	3.8	0.0	-0.7	-0.3	-0.4	-0.6
Final demand services.....	FD	42	65.132	6.3	0.3	0.2	0.5	0.2	-0.1
Final demand trade services ⁴	FD	423	20.434	11.1	0.3	0.7	1.1	-0.3	-0.5
Trade of finished goods ³	FD	4231	17.549	10.9	0.3	0.7	1.3	-0.4	-0.6
Trade of personal consumption goods.....	FD	42311	14.295	10.4	0.6	0.7	1.6	-0.6	-0.5
Trade of private capital equipment.....	FD	42312	3.254	13.5	-0.6	0.7	0.1	0.4	-0.8
Trade of government purchased goods.....	FD	4232	0.761	13.8	0.1	1.1	0.0	0.5	-0.2
Trade of government purchased goods, excluding capital equipment.....	FD	42321	0.474	12.1	1.0	1.0	-0.2	0.3	-0.2
Trade of government purchased capital equipment.....	FD	42322	0.287	16.8	-1.3	1.4	0.3	0.8	-0.3
Trade of exports.....	FD	4233	2.124	11.1	-0.2	0.9	-0.2	0.4	-0.3
Final demand transportation and warehousing services.....	FD	422	4.396	16.1	0.8	-0.5	-1.1	-0.4	-0.2
Transportation of passengers for final demand.....	FD	4221	1.113	30.5	3.9	-2.9	0.7	-0.3	2.1
Transportation of private passengers.....	FD	42211	0.752	30.4	3.9	-2.9	0.7	-0.3	2.1
Transportation of government passengers.....	FD	42212	0.090	30.1	3.9	-2.9	0.7	-0.3	2.1
Transportation of passengers for export.....	FD	42213	0.271	30.9	3.9	-2.9	0.7	-0.3	2.1
Transportation and warehousing of goods for final demand.....	FD	4222	3.283	11.5	-0.3	0.3	-1.7	-0.4	-1.1
Transportation and warehousing of finished goods ³	FD	42221	2.160	11.4	-0.3	0.3	-1.8	-0.5	-1.1
Transportation and warehousing of personal consumption goods.....	FD	422211	1.734	11.4	-0.3	0.3	-1.7	-0.5	-1.1
Transportation and warehousing of private capital equipment.....	FD	422212	0.426	11.8	-0.3	0.1	-1.9	-0.6	-1.3
Transportation and warehousing of government purchased goods.....	FD	42222	0.198	10.8	0.1	0.9	-1.6	-0.2	-0.9
Transportation and warehousing of exports.....	FD	42223	0.925	11.6	-0.3	0.2	-1.5	-0.3	-1.0
Final demand services less trade, transportation, and warehousing.....	FD	421	40.301	3.0	0.2	0.0	0.3	0.5	0.2
Finished services less trade, transportation, and warehousing ³	FD	4211	35.337	3.0	0.3	0.1	0.2	0.5	0.2
Finished consumer services less trade, transportation, and warehousing.....	FD	42111	31.663	2.6	0.2	0.1	0.2	0.5	0.3
Private capital investment services less trade, transportation, and warehousing.....	FD	42112	3.674	6.7	0.7	0.1	0.5	0.7	-0.2
Government purchased services less trade, transportation, and warehousing.....	FD	4212	2.482	2.3	-0.3	-0.3	0.7	0.4	0.0
Gov. purchased services less trade, transportation, and warehousing, excl. capital investment.....	FD	42121	2.376	2.4	-0.3	-0.3	0.8	0.4	0.0
Government purchased capital investment services less trade, transportation, and warehousing.....	FD	42122	0.106	0.1	0.1	0.3	-0.4	0.6	-0.2
Services for export less trade, transportation, and warehousing.....	FD	4213	2.482	2.7	-0.7	-0.2	1.4	0.8	0.3
Final demand construction.....	FD	43	1.740	19.6	0.6	5.2	0.2	0.3	2.9
Construction for private capital investment.....	FD	431	1.133	20.7	0.6	5.5	0.2	0.3	2.9
Construction for government.....	FD	432	0.606	17.4	0.5	4.6	0.1	0.3	2.8
Special Groupings of Final Demand									
Final demand less exports.....	FD	49101	85.849	8.1	1.0	-0.3	0.0	0.3	0.3
Final demand less government.....	FD	49102	92.367	7.7	0.9	-0.4	0.0	0.2	0.2

See footnotes at end of table.

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

Grouping	Commodity code		Relative Importance Dec. 2021 ¹	Unadjusted 12-month percent change ² Oct. 2021 to Oct. 2022 ^P	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			May to June	June to July ^P	July to Aug. ^P	Aug. to Sept. ^P	Sept. to Oct. ^P
Final demand less foods, food and nonalcoholic beverages for immediate consumption, and energy ⁵	FD	49103	87.780	6.8	0.3	0.3	0.4	0.1	0.0
Final demand less foods and energy ⁵	FD	49104	88.285	6.7	0.3	0.3	0.4	0.2	0.0
Final demand less foods and food and nonalcoholic beverages for immediate consumption ⁵	FD	49105	93.752	7.8	1.0	-0.5	-0.1	0.2	0.2
Final demand less foods ⁵	FD	49106	94.257	7.7	1.0	-0.5	0.0	0.2	0.2
Final demand less energy.....	FD	49107	94.028	7.0	0.3	0.4	0.4	0.2	0.0
Final demand less trade services.....	FD	49108	79.566	7.2	1.1	-0.7	-0.4	0.4	0.4
Final demand less distributive services ⁶	FD	49109	76.283	7.0	1.2	-0.7	-0.3	0.4	0.5
Final demand goods less energy.....	FD	49111	27.155	7.9	0.3	0.4	0.1	0.3	0.1
Final demand goods less foods.....	FD	49112	27.384	10.1	2.7	-2.4	-1.3	0.1	0.6
Final demand services less trade services.....	FD	49113	44.697	4.2	0.2	0.0	0.2	0.4	0.2
Final demand distributive services ⁶	FD	49114	23.717	11.1	0.2	0.6	0.7	-0.3	-0.6
Final demand goods plus final demand distributive services ⁶	FD	49115	56.844	10.8	1.4	-0.8	-0.3	0.1	0.1
Final demand less foods, energy, and trade services ⁵	FD	49116	67.851	5.4	0.3	0.2	0.2	0.3	0.2
Private and government purchased capital equipment.....	FD	49117	6.553	8.0	0.7	0.5	0.4	0.2	0.3
Private and government purchased capital investment services.....	FD	49118	7.747	10.0	0.0	0.4	0.2	0.5	-0.5
Total private and government purchased capital investment.....	FD	49119	14.300	10.2	0.4	1.0	0.3	0.4	0.2
Total finished ³	FD	49201	78.213	7.8	1.0	-0.3	0.1	0.2	0.3
Total finished less foods, food and nonalcoholic beverages for immediate consumption, and energy ^{3, 5}	FD	49202	68.515	6.9	0.4	0.4	0.5	0.2	0.0
Total finished less foods and energy ^{3, 5}	FD	49203	69.015	6.7	0.4	0.4	0.5	0.2	0.0
Total finished less foods and food and nonalcoholic beverages for immediate consumption ^{3, 5}	FD	49204	73.288	7.6	1.1	-0.5	0.1	0.2	0.3
Total finished less foods ^{3, 5}	FD	49205	73.788	7.5	1.1	-0.4	0.1	0.2	0.3
Total finished less energy ³	FD	49206	73.440	7.1	0.3	0.5	0.5	0.2	0.1
Finished goods ³	FD	49207	21.282	11.2	2.7	-1.8	-1.1	0.4	1.1
Finished goods less energy ³	FD	49208	16.509	9.4	0.4	1.0	0.3	0.5	0.5
Finished goods, excluding foods ^{3, 5}	FD	49209	16.857	10.8	3.5	-2.9	-1.3	0.2	1.1
Finished services ³	FD	49210	55.798	6.2	0.3	0.2	0.5	0.2	-0.1
Private capital investment services.....	FD	49211	7.354	9.9	0.1	0.3	0.2	0.5	-0.5
Finished distributive services ^{3, 6}	FD	49212	19.709	11.0	0.3	0.6	1.0	-0.4	-0.6
Finished services less trade services ³	FD	49213	38.249	4.0	0.3	0.0	0.1	0.4	0.2
Finished services less distributive services ^{3, 6}	FD	49214	36.089	3.6	0.4	0.0	0.3	0.5	0.3
Total private capital investment (goods, services, and construction).....	FD	49215	14.123	10.2	0.4	0.8	0.3	0.4	0.1
Finished goods plus finished distributive services ^{3, 6}	FD	49216	40.991	11.1	1.6	-0.7	-0.1	0.0	0.3
Total exports.....	FD	49301	14.151	7.3	0.3	-0.9	-0.2	0.2	-0.4
Goods for export.....	FD	49302	8.349	6.5	0.6	-1.5	-0.6	0.0	-0.7
Services for export.....	FD	49303	5.802	8.4	-0.2	0.1	0.3	0.4	0.0
Total government purchases.....	FD	49401	7.633	11.3	1.3	-0.7	-0.8	0.6	0.6
Government purchased goods.....	FD	49402	3.496	15.6	2.7	-2.2	-2.0	0.8	0.7
Government purchased services.....	FD	49403	3.531	5.9	0.0	0.0	0.4	0.4	0.0
Total government purchased capital investment (goods, services, construction).....	FD	49404	1.916	10.2	0.2	1.9	0.2	0.2	0.9
Government purchases, defense.....	FD	49405	2.357	10.2	0.7	-0.8	-1.3	0.5	0.2
Government purchases, non-defense.....	FD	49406	5.276	11.9	1.7	-0.7	-0.5	0.6	0.7
Personal consumption.....	FD	49501	64.090	7.2	1.1	-0.5	0.0	0.2	0.4
Personal consumption goods (finished consumer goods).....	FD	49502	15.646	12.2	3.4	-2.6	-1.6	0.4	1.4
Personal consumption goods less energy.....	FD	49503	10.873	9.9	0.2	1.3	0.2	0.6	0.6
Personal consumption goods less foods.....	FD	49504	11.221	11.9	4.8	-4.4	-2.1	0.1	1.5
Personal consumption nondurable goods less foods.....	FD	49508	8.834	13.2	5.8	-5.5	-2.7	0.1	1.8
Personal consumption services.....	FD	49505	48.444	5.6	0.4	0.2	0.6	0.1	0.0
Personal consumption less trade services.....	FD	49506	49.795	6.3	1.3	-0.9	-0.5	0.4	0.6
Personal consumption less distributive services ⁶	FD	49507	48.061	6.2	1.4	-0.9	-0.4	0.5	0.7
Personal consumption less foods and energy.....	FD	49510	54.892	5.8	0.4	0.3	0.6	0.1	0.0
Personal consumption less foods, energy, and trade services ⁴	FD	49511	40.597	4.3	0.3	0.1	0.2	0.4	0.2
Personal consumption less foods, energy, and distributive services ⁶	FD	49512	38.863	3.9	0.4	0.1	0.3	0.4	0.3
Personal consumption goods plus personal consumption distributive services ⁶	FD	49509	31.675	11.3	1.9	-1.0	-0.2	-0.1	0.4
Intermediate Demand by Commodity Type									
Processed goods									
Processed goods for intermediate demand.....	ID6	1	100.000	10.1	2.0	-2.3	-1.5	0.0	-0.2
Materials and components for manufacturing.....	ID6	11	45.927	2.1	-0.2	-0.9	-1.4	-1.1	-1.2
Materials for manufacturing.....	ID6	111	30.390	-1.0	-0.6	-1.5	-2.3	-1.8	-1.8
Materials for food manufacturing.....	ID6	1111	4.084	10.5	-0.4	-0.6	-0.8	-1.0	0.1
Materials for nondurable manufacturing.....	ID6	1112	13.045	4.3	0.6	-0.6	-2.8	-0.5	-1.2
Materials for durable manufacturing.....	ID6	1113	13.261	-9.9	-1.9	-2.8	-2.4	-3.4	-3.3
Components for manufacturing.....	ID6	112	15.537	8.0	0.7	0.3	0.3	0.2	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
[October 2022]

Grouping	Commodity code		Relative Importance Dec. 2021 ¹	Unadjusted 12-month percent change ² Oct. 2021 to Oct. 2022 ^P	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			May to June	June to July ^P	July to Aug. ^P	Aug. to Sept. ^P	Sept. to Oct. ^P
Components for nondurable manufacturing.....	ID6	1121	0.800	9.8	1.3	0.6	0.7	-0.3	-0.2
Components for durable manufacturing.....	ID6	1122	14.737	7.9	0.6	0.3	0.3	0.2	0.1
Materials and components for construction.....	ID6	12	9.074	12.2	-0.2	0.2	0.3	-0.4	-0.4
Materials for construction.....	ID6	121	3.869	11.3	-1.6	0.0	0.4	-0.5	-0.5
Components for construction.....	ID6	122	5.205	12.8	0.9	0.4	0.3	-0.3	-0.3
Processed fuels and lubricants for intermediate demand.....	ID6	13	18.757	27.8	8.8	-8.8	-4.5	2.2	1.7
Processed fuels and lubricants to manufacturing industries.....	ID6	131	4.683	24.9	5.0	-3.6	-2.2	1.6	0.7
Processed fuels and lubricants to nonmanufacturing industries.....	ID6	132	14.074	28.7	10.0	-10.3	-5.2	2.4	2.1
Containers for intermediate demand.....	ID6	14	2.795	14.5	1.0	0.0	1.3	0.2	-0.4
Supplies for intermediate demand.....	ID6	15	23.448	9.8	0.5	0.4	0.4	0.0	-0.3
Supplies to manufacturing industries.....	ID6	151	3.227	7.7	0.3	0.3	0.6	0.0	-0.6
Supplies to nonmanufacturing industries.....	ID6	152	20.221	10.2	0.5	0.4	0.3	0.0	-0.2
Supplies to nonmanufacturing industries, feeds.....	ID6	1521	1.743	14.4	0.8	1.2	1.8	1.3	-1.9
Supplies to nonmanufacturing industries, other than feeds.....	ID6	1522	18.478	9.8	0.5	0.3	0.2	-0.1	-0.1
Unprocessed goods									
Unprocessed goods for intermediate demand.....	ID6	2	100.000	9.7	4.8	-9.2	4.5	-0.9	-11.7
Unprocessed foodstuffs and feedstuffs.....	ID6	21	32.603	21.1	-0.4	-1.7	-1.7	1.1	-3.1
Unprocessed nonfood materials.....	ID6	22	67.398	4.9	7.1	-12.3	7.4	-1.7	-15.4
Unprocessed nonfood materials except fuel.....	ID6	221	44.822	4.0	5.5	-11.5	-2.8	-2.8	-1.7
Unprocessed nonfood materials except fuel to manufacturing industries.....	ID6	2211	42.852	3.6	5.6	-12.0	-3.0	-2.9	-1.8
Unprocessed nonfood materials except fuel to nonmanufacturing industries.....	ID6	2212	1.970	11.8	2.2	1.0	0.9	0.5	0.3
Unprocessed fuel.....	ID6	222	22.576	6.6	9.8	-13.6	24.3	-0.4	-32.5
Unprocessed fuel to manufacturing industries.....	ID6	2221	1.143	46.6	8.2	-2.7	6.4	1.4	-10.3
Unprocessed fuel to nonmanufacturing industries.....	ID6	2222	21.433	4.6	9.9	-14.2	25.3	-0.5	-33.7
Services									
Services for intermediate demand.....	ID6	3	100.000	6.5	-0.3	0.3	0.6	0.4	0.3
Trade services for intermediate demand ⁴	ID6	33	22.377	7.7	-0.7	0.0	-0.8	-0.2	-0.3
Trade services for manufacturing industries.....	ID6	331	11.472	6.9	-0.7	0.1	-1.0	0.1	-0.1
Trade services for nonmanufacturing industries.....	ID6	332	10.905	8.6	-0.7	-0.1	-0.6	-0.6	-0.5
Transportation and warehousing services for intermediate demand.....	ID6	32	13.264	8.8	0.1	1.0	-0.3	-0.9	0.6
Transportation of passengers for intermediate demand.....	ID6	321	0.984	30.1	3.9	-2.9	0.7	-0.3	2.1
Transportation of passengers for manufacturing industries.....	ID6	3211	0.116	30.9	3.9	-2.9	0.7	-0.3	2.1
Transportation of passengers for nonmanufacturing industries.....	ID6	3212	0.868	29.9	3.9	-2.8	0.7	-0.3	2.1
Transportation and warehousing of goods for intermediate demand.....	ID6	322	12.280	7.2	-0.3	1.4	-0.4	-0.9	0.5
Transportation and warehousing of goods for manufacturing industries.....	ID6	3221	2.498	11.7	0.0	0.7	-1.1	0.1	-0.9
Transportation and warehousing of goods for nonmanufacturing industries.....	ID6	3222	9.782	6.1	-0.3	1.6	-0.2	-1.2	0.9
Services less trade, transportation, and warehousing for intermediate demand.....	ID6	31	64.359	5.6	-0.3	0.2	1.4	0.9	0.5
Services less trade, transportation, and warehousing for manufacturing industries.....	ID6	311	2.040	5.6	0.2	0.5	0.4	0.1	0.3
Services less trade, transportation, and warehousing for nonmanufacturing industries.....	ID6	312	62.318	5.6	-0.3	0.2	1.4	0.9	0.5
Construction									
Construction for intermediate demand.....	ID6	4	100.000	12.4	1.0	1.2	0.1	0.3	1.5
Special Groupings of Intermediate Demand by Commodity Type									
Processed materials less foods and feeds.....	ID6	9111	92.100	10.0	2.2	-2.5	-1.6	0.0	-0.2
Processed foods and feeds.....	ID6	9112	7.900	10.9	0.0	0.2	-0.1	-0.4	-0.5
Processed energy goods.....	ID6	9113	18.757	27.8	8.8	-8.8	-4.5	2.2	1.7
Processed materials less energy.....	ID6	9118	81.243	5.8	0.1	-0.3	-0.6	-0.6	-0.8
Processed materials less foods and energy.....	ID6	9115	73.343	5.3	0.1	-0.4	-0.7	-0.7	-0.8
Intermediate distributive services ⁷	ID6	9116	34.657	7.5	-0.6	0.5	-0.7	-0.5	0.0
Processed goods plus intermediate distributive services.....	ID6	9117	-	9.3	1.3	-1.6	-1.2	-0.2	-0.2
Unprocessed materials less agricultural products.....	ID6	9211	62.340	3.6	7.5	-12.4	8.1	-2.4	-16.4
Unprocessed energy materials ⁸	ID6	9212	42.130	9.9	11.1	-14.3	10.9	-2.3	-19.8
Unprocessed materials less energy.....	ID6	9213	57.870	10.0	-0.9	-4.0	-0.9	0.7	-3.8
Unprocessed nonfood materials less energy ⁹	ID6	9216	25.267	-4.7	-2.0	-7.2	0.4	-0.2	-5.3
Intermediate Demand by Production Flow									
Stage 4 Intermediate Demand									
Stage 4 intermediate demand.....	ID5	4	100.000	7.7	0.4	-0.4	0.3	0.3	0.0
Inputs to stage 4 goods producers.....	ID5	41	32.865	7.7	0.3	-0.3	-0.3	0.2	-0.4
Goods.....	ID5	411	23.183	7.6	0.3	-0.7	0.1	0.1	-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
[October 2022]

Grouping	Commodity code		Relative Importance Dec. 2021 ¹	Unadjusted 12-month percent change ² Oct. 2021 to Oct. 2022 ^P	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			May to June	June to July ^P	July to Aug. ^P	Aug. to Sept. ^P	Sept. to Oct. ^P
Foods.....	ID5	4111	3.188	15.6	-0.1	-2.8	0.6	1.9	-0.5
Energy.....	ID5	4112	0.189	24.3	6.3	-8.0	-3.3	0.3	1.7
Goods excluding foods and energy.....	ID5	4113	19.806	6.2	0.4	-0.2	0.1	-0.3	-0.5
Services.....	ID5	412	9.682	7.9	0.1	0.5	-1.2	0.6	-0.2
Trade services.....	ID5	4123	7.732	8.2	0.1	0.5	-1.5	0.7	-0.3
Transportation and warehousing services.....	ID5	4122	0.475	11.8	0.8	0.0	-0.8	-0.3	-0.4
Transportation of passengers.....	ID5	41221	0.066	30.9	3.9	-2.9	0.7	-0.3	2.1
Transportation and warehousing of goods.....	ID5	41222	0.409	8.9	0.3	0.5	-1.1	-0.3	-0.9
Services less trade, transportation, and warehousing.....	ID5	4121	1.475	5.2	0.3	0.5	0.5	0.2	0.1
Inputs to stage 4 services producers.....	ID5	42	52.483	6.9	0.3	-0.2	1.1	0.6	0.1
Goods.....	ID5	421	13.894	11.0	2.1	-0.7	0.1	0.3	-0.1
Foods.....	ID5	4211	2.353	4.9	0.2	1.2	-0.5	-1.3	-1.7
Energy.....	ID5	4212	3.737	18.8	6.2	-3.3	-0.3	1.6	0.3
Goods excluding foods and energy.....	ID5	4213	7.804	9.1	0.6	0.2	0.5	0.1	0.1
Services.....	ID5	422	38.503	5.3	-0.3	0.0	1.5	0.7	0.2
Trade services.....	ID5	4223	4.524	11.0	0.6	0.7	0.0	0.6	-0.2
Transportation and warehousing services.....	ID5	4222	3.277	9.0	1.1	1.7	-0.8	-0.4	0.6
Transportation of passengers.....	ID5	42221	0.421	30.6	3.9	-2.9	0.7	-0.3	2.1
Transportation and warehousing of goods.....	ID5	42222	2.856	6.0	0.6	2.4	-1.0	-0.4	0.4
Services less trade, transportation, and warehousing.....	ID5	4221	30.702	4.1	-0.6	-0.3	2.0	0.9	0.2
Construction.....	ID5	423	0.086	12.4	1.0	1.2	0.1	0.3	1.5
Inputs to stage 4 construction producers.....	ID5	43	14.650	10.8	0.6	-1.4	-0.9	-0.4	0.2
Goods.....	ID5	431	10.502	13.2	1.3	-1.7	-0.7	-0.3	0.2
Energy.....	ID5	4312	0.844	27.9	13.9	-14.7	-10.1	0.2	4.7
Goods excluding foods and energy.....	ID5	4313	9.658	11.8	-0.2	0.0	0.4	-0.4	-0.3
Services.....	ID5	432	4.148	5.0	-1.2	-0.7	-1.5	-0.6	0.1
Trade services.....	ID5	4323	2.051	2.8	-2.7	-1.5	-2.9	-1.0	0.6
Transportation and warehousing services.....	ID5	4322	0.612	11.4	-0.1	0.0	-1.8	-0.6	-1.1
Transportation of passengers.....	ID5	43221	0.013	30.8	3.9	-2.9	0.7	-0.3	2.1
Transportation and warehousing of goods.....	ID5	43222	0.599	11.0	-0.2	0.1	-1.8	-0.6	-1.2
Services less trade, transportation, and warehousing.....	ID5	4321	1.485	5.5	0.7	0.2	0.7	0.1	0.0
Stage 3 Intermediate Demand									
Stage 3 intermediate demand.....	ID5	3	100.000	9.1	0.5	-1.4	-1.6	0.0	-0.5
Inputs to stage 3 goods producers.....	ID5	31	49.802	6.6	-0.3	-1.3	-2.1	-0.7	-2.2
Goods.....	ID5	311	40.208	6.6	0.0	-1.6	-2.4	-0.8	-2.7
Foods.....	ID5	3111	11.423	22.2	-0.6	-1.1	-2.6	0.5	-4.2
Energy.....	ID5	3112	1.551	31.2	6.7	-9.0	-4.9	-0.7	-2.2
Goods excluding foods and energy.....	ID5	3113	27.234	-0.8	-0.3	-1.2	-2.1	-1.4	-2.1
Services.....	ID5	312	9.594	6.7	-1.4	-0.3	-1.0	-0.4	0.1
Trade services.....	ID5	3123	5.774	4.2	-2.4	-0.7	-1.3	-0.5	0.6
Transportation and warehousing services.....	ID5	3122	2.538	12.5	0.1	0.3	-1.3	-0.4	-1.0
Transportation of passengers.....	ID5	31221	0.120	30.9	3.9	-2.9	0.7	-0.3	2.1
Transportation and warehousing of goods.....	ID5	31222	2.418	11.6	-0.1	0.4	-1.4	-0.4	-1.1
Services less trade, transportation, and warehousing.....	ID5	3121	1.282	7.1	0.4	0.7	0.5	0.1	0.2
Inputs to stage 3 services producers.....	ID5	32	48.823	11.7	1.5	-1.4	-1.1	0.7	1.2
Goods.....	ID5	321	10.251	31.2	6.0	-7.3	-5.7	2.5	2.5
Foods.....	ID5	3211	0.088	13.6	0.5	1.3	2.9	1.5	-1.1
Energy.....	ID5	3212	6.099	44.8	8.5	-10.5	-8.3	3.9	3.8
Goods excluding foods and energy.....	ID5	3213	4.064	9.6	0.7	0.0	-0.2	0.0	0.0
Services.....	ID5	322	37.657	6.2	-0.2	0.8	0.5	0.1	0.7
Trade services.....	ID5	3223	2.600	14.0	0.6	0.8	-0.1	0.2	0.0
Transportation and warehousing services.....	ID5	3222	8.909	4.4	-0.6	1.6	0.3	-1.8	1.6
Transportation of passengers.....	ID5	32221	0.022	3.1	1.8	0.0	0.3	-0.3	0.0
Transportation and warehousing of goods.....	ID5	32222	8.887	4.4	-0.6	1.6	0.3	-1.8	1.6
Services less trade, transportation, and warehousing.....	ID5	3221	26.148	6.1	-0.1	0.5	0.6	0.7	0.5
Construction.....	ID5	323	0.915	12.4	1.0	1.2	0.1	0.3	1.5
Inputs to stage 3 construction producers.....	ID5	33	1.376	5.2	-2.4	-2.5	-1.8	-1.0	-0.4
Goods.....	ID5	331	0.574	10.6	-1.4	-0.6	0.3	-0.7	-0.5
Goods excluding foods and energy.....	ID5	3313	0.574	10.6	-1.4	-0.6	0.3	-0.7	-0.5
Services.....	ID5	332	0.802	1.6	-3.1	-3.7	-3.3	-1.2	-0.4
Trade services.....	ID5	3323	0.760	1.2	-3.3	-3.9	-3.5	-1.3	-0.4
Transportation and warehousing services.....	ID5	3322	0.015	11.9	0.8	1.3	0.1	0.0	-0.8
Transportation and warehousing of goods.....	ID5	33222	0.015	11.9	0.8	1.3	0.1	0.0	-0.8
Services less trade, transportation, and warehousing.....	ID5	3321	0.027	8.1	0.5	0.8	1.1	0.0	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
 [October 2022]

Grouping	Commodity code		Relative Importance Dec. 2021 ¹	Unadjusted 12-month percent change ² Oct. 2021 to Oct. 2022 ^P	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			May to June	June to July ^P	July to Aug. ^P	Aug. to Sept. ^P	Sept. to Oct. ^P
Stage 2 intermediate demand.....	ID5	2	100.000	7.3	2.9	-4.1	3.1	-0.6	-5.3
Inputs to stage 2 goods producers.....	ID5	21	55.017	6.3	4.7	-7.3	4.4	-1.4	-9.7
Goods.....	ID5	211	42.903	5.6	5.7	-9.2	5.3	-1.7	-12.0
Foods.....	ID5	2111	3.172	15.1	1.9	-4.8	3.0	2.9	-4.4
Energy.....	ID5	2112	20.215	7.8	10.7	-14.3	10.3	-2.5	-19.8
Goods excluding foods and energy.....	ID5	2113	19.516	1.4	-0.7	-1.8	-1.3	-1.5	-1.6
Services.....	ID5	212	11.646	9.6	0.3	1.3	1.0	0.2	0.2
Trade services.....	ID5	2123	5.347	9.1	0.1	1.4	1.1	-0.9	-0.3
Transportation and warehousing services.....	ID5	2122	3.332	10.2	0.4	1.3	0.2	0.9	0.0
Transportation of passengers.....	ID5	21221	0.156	28.9	3.8	-2.8	0.7	-0.3	2.0
Transportation and warehousing of goods.....	ID5	21222	3.176	9.4	0.2	1.6	0.2	1.0	-0.1
Services less trade, transportation, and warehousing.....	ID5	2121	2.967	9.8	0.6	1.2	1.5	1.6	1.0
Construction.....	ID5	213	0.468	12.4	1.0	1.2	0.1	0.3	1.5
Inputs to stage 2 services producers.....	ID5	22	44.982	8.4	0.2	0.7	1.2	0.4	0.8
Goods.....	ID5	221	5.753	10.5	1.7	-1.2	-0.2	-0.1	-0.2
Foods.....	ID5	2211	0.032	12.8	0.1	0.3	0.7	-0.2	-1.0
Energy.....	ID5	2212	0.393	28.5	13.8	-15.1	-4.1	2.3	0.8
Goods excluding foods and energy.....	ID5	2213	5.328	9.2	0.6	0.2	0.2	-0.3	-0.2
Services.....	ID5	222	37.664	8.0	-0.1	0.9	1.5	0.5	0.9
Trade services.....	ID5	2223	2.497	14.8	0.1	3.9	3.6	-3.1	-2.9
Transportation and warehousing services.....	ID5	2222	3.167	2.9	-1.8	0.5	2.0	-5.3	4.0
Transportation of passengers.....	ID5	22221	0.356	30.6	3.9	-2.9	0.7	-0.3	2.1
Transportation and warehousing of goods.....	ID5	22222	2.811	-0.4	-2.6	1.1	2.1	-6.0	4.3
Services less trade, transportation, and warehousing.....	ID5	2221	32.000	8.0	0.0	0.7	1.3	1.4	1.0
Construction.....	ID5	223	1.565	12.4	1.0	1.2	0.1	0.3	1.5
Stage 1 Intermediate Demand									
Stage 1 intermediate demand.....	ID5	1	100.000	9.2	1.0	-1.9	-0.6	0.3	0.0
Inputs to stage 1 goods producers.....	ID5	11	35.307	4.8	0.5	-2.8	-1.1	-0.4	-1.3
Goods.....	ID5	111	25.965	5.0	1.2	-3.6	-1.4	-0.3	-1.9
Foods.....	ID5	1111	3.181	17.5	0.8	-5.4	2.0	5.2	-3.9
Energy.....	ID5	1112	3.712	22.9	9.5	-9.8	-1.3	1.7	-1.0
Goods excluding foods and energy.....	ID5	1113	19.072	-0.4	-0.5	-1.7	-2.1	-1.8	-1.7
Services.....	ID5	112	9.341	4.1	-1.3	-0.5	-0.2	-0.6	0.2
Trade services.....	ID5	1123	6.053	3.1	-2.3	-0.3	-0.8	-1.1	0.4
Transportation and warehousing services.....	ID5	1122	0.488	19.9	1.6	0.9	0.8	0.3	-0.4
Transportation of passengers.....	ID5	11221	0.084	30.9	3.9	-2.9	0.7	-0.3	2.1
Transportation and warehousing of goods.....	ID5	11222	0.404	17.8	1.2	1.6	0.8	0.5	-0.8
Services less trade, transportation, and warehousing.....	ID5	1121	2.800	3.3	0.2	-1.2	1.0	0.2	-0.2
Construction.....	ID5	113	0.001	12.4	1.0	1.2	0.1	0.3	1.5
Inputs to stage 1 services producers.....	ID5	12	51.790	11.4	1.4	-1.3	0.1	0.8	0.9
Goods.....	ID5	121	17.196	20.1	4.2	-3.3	-1.9	1.4	1.6
Foods.....	ID5	1211	0.051	107.1	-9.1	-2.9	-3.4	-5.6	20.4
Energy.....	ID5	1212	5.758	34.8	9.7	-9.0	-5.7	3.6	3.9
Goods excluding foods and energy.....	ID5	1213	11.387	11.9	0.7	0.6	0.6	0.1	0.1
Services.....	ID5	122	34.589	7.0	-0.2	-0.1	1.2	0.4	0.5
Trade services.....	ID5	1223	3.797	11.7	0.3	0.8	-0.4	0.3	-1.1
Transportation and warehousing services.....	ID5	1222	3.611	14.9	1.2	0.4	-0.3	-0.2	0.7
Transportation of passengers.....	ID5	12221	1.098	30.9	3.9	-2.9	0.7	-0.3	2.1
Transportation and warehousing of goods.....	ID5	12222	2.513	8.4	-0.1	2.0	-0.7	-0.2	0.1
Services less trade, transportation, and warehousing.....	ID5	1221	27.181	5.3	-0.4	-0.3	1.6	0.6	0.6
Construction.....	ID5	123	0.005	12.4	1.0	1.2	0.1	0.3	1.5
Inputs to stage 1 construction producers.....	ID5	13	12.903	12.0	0.6	-2.1	-1.5	0.1	0.3
Goods.....	ID5	131	8.482	16.8	2.4	-1.6	-0.8	0.7	0.7
Energy.....	ID5	1312	0.827	55.0	11.9	-12.5	-9.1	6.2	7.5
Goods excluding foods and energy.....	ID5	1313	7.655	12.4	0.9	0.3	0.5	0.0	-0.3
Services.....	ID5	132	4.421	3.0	-2.7	-3.1	-3.0	-1.0	-0.5
Trade services.....	ID5	1323	3.756	1.6	-3.1	-3.6	-3.3	-1.1	-0.4
Transportation and warehousing services.....	ID5	1322	0.609	12.2	-0.4	-0.1	-2.0	-0.7	-1.3
Transportation and warehousing of goods.....	ID5	13222	0.609	12.2	-0.4	-0.1	-2.0	-0.7	-1.3
Services less trade, transportation, and warehousing.....	ID5	1321	0.056	8.4	1.2	0.0	2.6	0.0	0.0
Special Groupings of Intermediate Demand by Production Flow									
Total goods inputs to stage 4 intermediate demand.....	ID5	9411	47.579	9.8	1.1	-0.9	-0.1	0.0	-0.2
Total services inputs to stage 4 intermediate demand.....	ID5	9412	52.333	5.8	-0.3	0.0	0.7	0.6	0.1
Total construction inputs to stage 4 intermediate demand.....	ID5	9413	0.086	12.4	1.0	1.2	0.1	0.3	1.5
Total foods inputs to stage 4 intermediate demand.....	ID5	9414	5.541	10.9	0.0	-1.2	0.1	0.6	-1.0

See footnotes at end of table.

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

Grouping	Commodity code		Relative Importance Dec. 2021 ¹	Unadjusted 12-month percent change ² Oct. 2021 to Oct. 2022 ^p	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			May to June	June to July ^p	July to Aug. ^p	Aug. to Sept. ^p	Sept. to Oct. ^p
Total energy goods inputs to stage 4 intermediate demand.....	ID5	9415	4.770	20.7	7.8	-6.0	-2.5	1.3	1.2
Total goods less foods and energy inputs to stage 4 intermediate demand.	ID5	9416	37.268	8.2	0.3	-0.1	0.2	-0.2	-0.3
Total goods inputs to stage 3 intermediate demand.....	ID5	9311	51.033	11.9	1.4	-3.0	-3.2	0.0	-1.5
Total services inputs to stage 3 intermediate demand.....	ID5	9312	48.053	6.2	-0.5	0.5	0.1	0.0	0.5
Total construction inputs to stage 3 intermediate demand.....	ID5	9313	0.915	12.4	1.0	1.2	0.1	0.3	1.5
Total foods inputs to stage 3 intermediate demand.....	ID5	9314	11.511	22.1	-0.6	-1.1	-2.6	0.5	-4.2
Total energy goods inputs to stage 3 intermediate demand.....	ID5	9315	7.650	42.2	8.1	-10.2	-7.7	3.0	2.7
Total goods less foods and energy inputs to stage 3 intermediate demand.	ID5	9316	31.872	0.7	-0.2	-1.0	-1.8	-1.2	-1.8
Total goods inputs to stage 2 intermediate demand.....	ID5	9211	48.656	6.1	5.4	-8.4	4.7	-1.6	-10.9
Total services inputs to stage 2 intermediate demand.....	ID5	9212	49.310	8.3	0.0	1.0	1.4	0.4	0.8
Total construction inputs to stage 2 intermediate demand.....	ID5	9213	2.033	12.4	1.0	1.2	0.1	0.3	1.5
Total foods inputs to stage 2 intermediate demand.....	ID5	9214	3.204	15.1	1.9	-4.8	3.0	2.9	-4.4
Total energy goods inputs to stage 2 intermediate demand.....	ID5	9215	20.608	8.1	10.8	-14.3	10.0	-2.4	-19.5
Total goods less foods and energy inputs to stage 2 intermediate demand.	ID5	9216	24.844	3.1	-0.4	-1.4	-1.0	-1.2	-1.3
Total goods inputs to stage 1 intermediate demand.....	ID5	9111	51.643	11.8	2.4	-3.2	-1.5	0.4	-0.3
Total services inputs to stage 1 intermediate demand.....	ID5	9112	48.351	6.1	-0.6	-0.5	0.5	0.1	0.3
Total construction inputs to stage 1 intermediate demand.....	ID5	9117	0.006	12.4	1.0	1.2	0.1	0.3	1.5
Total foods inputs to stage 1 intermediate demand.....	ID5	9114	3.232	19.0	0.6	-5.3	1.9	5.0	-3.4
Total energy goods inputs to stage 1 intermediate demand.....	ID5	9115	10.297	32.4	9.9	-9.6	-4.6	3.2	2.6
Total goods less foods and energy inputs to stage 1 intermediate demand.	ID5	9116	38.114	5.8	0.1	-0.6	-0.7	-0.8	-0.9

¹ Comprehensive relative importance figures are initially computed after the publication of December indexes and are recalculated after final December indexes are available. Individual items and subtotals may not add exactly to totals because of rounding differences.

² All indexes are subject to revision for 4 months after their originally scheduled publication to incorporate late reports and corrections by survey respondents. In addition, seasonally adjusted indexes are subject to change for up to 5 years due to the recalculation of seasonal factors published each January.

³ PPI defines Total finished as including only the personal consumption and private capital investment portions of final demand.

⁴ Trade indexes measure changes in margins received by wholesalers and retailers.

⁵ The PPI definition of foods does not include food and beverages for immediate consumption. PPI defines food and beverages for immediate consumption as the service of preparing meals, snacks, and beverages to customer order for immediate on-premises and off-premises consumption.

⁶ Distributive services include transportation, warehousing, and trade of goods.

⁷ Includes intermediate trade, transportation, and warehousing services.

⁸ Includes crude petroleum.

⁹ Excludes crude petroleum.

p Preliminary

"/" Data not available.

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

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Oct. 2021 to Oct. 2022 ^P	May to June	June to July ^P	July to Aug. ^P	Aug. to Sept. ^P
Final Demand								
Final demand.....	FD	4	8.0	0.9	-0.4	0.0	0.2	0.2
Final demand goods.....	FD	41	10.5	2.2	-1.8	-1.1	0.3	0.6
Final demand foods.....	FD	411	12.7	-0.1	1.3	-0.1	1.3	0.5
Fresh fruits and melons ²	01	11	34.5	-1.6	2.0	0.2	-1.2	11.5
Fresh and dry vegetables ²	01	13	45.8	0.0	12.7	1.7	15.7	22.4
Grains.....	01	2	28.8	1.9	-11.8	3.2	10.5	-5.7
Eggs for fresh use ²	01	7107	157.9	-23.8	44.2	-25.0	16.6	15.0
Oilseeds.....	01	8301	13.4	4.8	-13.6	5.1	5.4	-9.5
Bakery products ²	02	11	14.1	0.4	1.9	1.6	0.7	0.2
Milled rice ²	02	13	21.3	1.1	3.6	1.9	2.1	1.6
Pasta products ²	02	1402	37.4	0.0	4.7	0.0	1.1	3.0
Beef and veal.....	02	2101	-15.9	1.7	9.5	-0.4	-4.5	-2.1
Pork.....	02	2104	1.2	-2.4	-0.3	1.9	4.8	-0.2
Processed young chickens.....	02	2203	-9.2	1.3	-1.1	-3.3	-3.8	-12.5
Processed turkeys.....	02	2206	39.9	-2.0	1.9	1.7	0.5	1.9
Finfish and shellfish.....	02	23	-4.0	-1.1	1.8	-1.2	2.3	-0.6
Dairy products.....	02	3	17.9	0.5	-0.5	-2.1	-1.5	0.8
Processed fruits and vegetables ²	02	4	16.5	0.5	2.2	0.8	2.7	1.1
Confectionery end products ²	02	55	7.5	0.2	1.6	0.6	0.4	0.6
Soft drinks ²	02	62	14.7	0.7	0.8	5.5	2.2	0.0
Roasted coffee ²	02	6301	13.0	2.2	-1.9	2.1	-3.9	1.8
Shortening and cooking oils ²	02	78	3.4	-0.2	-9.6	-1.1	-1.9	-4.4
Frozen specialty food ²	02	85	16.2	0.4	1.4	0.3	1.7	0.1
Final demand energy.....	FD	412	21.8	8.9	-9.1	-5.4	0.6	2.7
Liquefied petroleum gas ²	05	32	-27.6	0.9	-11.3	-4.2	-8.7	-16.7
Residential electric power.....	05	41	14.1	1.3	0.6	1.7	0.1	2.0
Residential natural gas.....	05	51	19.0	6.3	-2.5	0.8	3.1	-2.1
Gasoline.....	05	71	17.9	17.3	-17.5	-12.1	-1.5	5.7
Home heating oil and distillates.....	05	7302	62.2	3.6	-11.3	-5.9	1.3	9.4
No. 2 diesel fuel.....	05	7303	61.5	13.0	-14.9	-10.8	8.3	9.5
Final demand goods less foods and energy.....	FD	413	6.6	0.5	0.1	0.2	0.0	-0.1
Alcoholic beverages.....	02	61	5.3	0.4	-0.4	0.3	0.3	0.7
Pet food ²	02	9402	13.9	4.5	0.5	0.9	0.2	0.1
Women's, girls', and infants' apparel ²	03	8106	1.2	0.0	0.1	0.1	0.1	-0.1
Men's and boys' apparel ²	03	8107	11.2	0.1	0.5	0.0	1.5	0.0
Textile housefurnishings ²	03	82	3.5	0.2	1.0	-0.9	0.3	1.4
Footwear.....	04	3	13.7	0.2	1.5	1.4	3.8	0.8
Industrial chemicals.....	06	1	4.9	0.8	0.5	-5.3	-1.0	-0.9
Pharmaceutical preparations.....	06	38	2.3	0.2	0.6	0.3	0.3	0.3
Soaps and detergents ²	06	71	11.0	0.7	0.4	0.8	1.0	0.2
Cleaning and polishing products ²	06	72	7.7	0.4	0.1	1.5	0.2	0.0
Cosmetics and other toiletries ²	06	75	6.8	0.8	0.2	0.5	0.2	0.6
Tires ²	07	1201	15.1	0.6	1.8	0.7	0.5	0.9
Consumer, institutional, and commercial products, n.e.c. ²	07	2B	20.8	1.7	0.9	0.8	-0.6	-0.2
Sanitary paper products ²	09	1501	14.2	1.5	1.6	0.3	1.5	1.7
Iron and steel scrap ²	10	12	-27.2	-10.2	-12.6	-8.0	-3.4	-4.6
Agricultural machinery and equipment.....	11	1	16.5	1.7	0.3	0.8	1.0	1.8
Construction machinery and equipment ²	11	2	10.1	1.0	0.4	2.6	0.1	0.2
Metal cutting machine tools ²	11	37	3.9	0.2	0.0	0.3	0.0	0.4
Metal forming machine tools.....	11	38	6.2	0.6	0.3	1.4	0.1	0.2
Tools, dies, jigs, fixtures, and industrial molds ²	11	39	8.5	0.5	0.4	0.5	0.4	0.6
Pumps, compressors, and equipment.....	11	41	16.2	1.1	1.5	0.5	1.0	0.7
Industrial material handling equipment ²	11	44	11.5	0.7	0.8	0.5	0.1	0.2
Electronic computers and computer equipment ²	11	5	4.6	-0.4	0.5	-0.2	-0.6	-0.3
Textile machinery and equipment ²	11	62	6.0	0.0	0.0	0.0	0.0	0.0
Paper industries machinery ²	11	64	9.8	1.8	0.0	1.0	1.2	-0.1
Printing trades machinery and equipment ²	11	65	5.5	0.2	0.1	0.2	0.4	0.6
Transformers and power regulators ²	11	74	24.1	4.0	1.9	0.1	0.1	-2.7
Communication and related equipment.....	11	76	4.1	0.6	0.5	0.1	0.0	0.2
Electronic components and accessories.....	11	78	4.5	0.7	0.0	-0.3	0.2	0.7
X-ray and electromedical equipment ²	11	7905	4.3	0.3	1.3	0.0	0.1	0.0
Oil field and gas field machinery ²	11	91	9.7	0.4	0.0	0.0	0.3	4.8
Mining machinery and equipment ²	11	92	16.6	0.1	0.0	0.3	2.7	0.0
Office and store machines and equipment ²	11	93	2.2	0.0	0.0	0.0	0.0	0.0

See footnotes at end of table.

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

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Oct. 2021 to Oct. 2022 ^P	May to June	June to July ^P	July to Aug. ^P	Aug. to Sept. ^P
Household furniture ²	12	1	8.9	0.4	2.0	0.4	0.2	-0.4
Commercial furniture ²	12	2	12.3	2.2	-0.3	0.8	0.9	0.3
Floor coverings ²	12	3	0.4	0.5	0.6	1.4	0.3	0.0
Household appliances ²	12	4	10.5	0.6	0.1	0.4	-0.1	-0.3
Home electronic equipment ²	12	5	8.2	0.4	0.2	0.0	1.7	0.2
Lawn and garden equipment excl. garden tractors ²	12	66	9.5	1.4	0.2	0.4	-0.1	-0.1
Passenger cars.....	14	1101	2.2	0.5	0.2	0.4	0.1	-1.5
Light motor trucks.....	14	1105	6.2	0.3	0.7	0.2	0.1	0.6
Heavy motor trucks ²	14	1106	2.7	0.4	0.0	0.1	-0.1	0.2
Motor vehicles parts ²	14	12	4.5	0.5	0.3	0.5	0.2	0.0
Truck trailers ²	14	14	21.5	0.6	0.7	0.1	0.2	0.5
Travel trailers and campers ²	14	16	11.4	0.1	0.1	0.2	1.1	0.6
Aircraft.....	14	21	4.9	0.5	0.3	0.3	0.1	0.3
Ships ²	14	31	3.4	0.1	0.1	0.0	-0.3	0.0
Railroad equipment ²	14	4	2.5	0.0	0.0	0.3	0.2	0.0
Toys, games, and children's vehicles ²	15	11	4.8	0.0	0.0	0.0	0.0	1.2
Sporting and athletic goods.....	15	12	15.4	4.8	0.1	-0.2	-1.2	0.4
Cigarettes ²	15	21	10.2	0.0	0.8	2.0	0.8	0.0
Mobile homes ²	15	5	11.9	1.0	0.1	-1.3	-1.0	-1.0
Medical, surgical & personal aid devices.....	15	6	3.8	0.2	0.1	0.1	0.1	0.3
Jewelry, platinum and karat gold ²	15	9402	7.4	-0.1	-2.8	1.7	-1.5	-0.4
Costume jewelry and novelties ²	15	9404	6.5	-0.4	1.1	0.0	0.0	0.0
Final demand services.....	FD	42	6.3	0.3	0.2	0.5	0.2	-0.1
Final demand trade services ³	FD	423	11.1	0.3	0.7	1.1	-0.3	-0.5
Machinery and equipment parts and supplies wholesaling ²	57	1102	9.6	1.4	1.0	-2.4	1.5	-0.9
Machinery and vehicle wholesaling ²	57	1103	25.0	-1.9	2.0	1.3	1.4	0.2
Professional and commercial equipment wholesaling ²	57	1104	-7.4	1.1	-0.5	-2.6	-1.8	-2.5
Furnishings wholesaling ²	57	2	15.4	-2.0	2.4	1.5	0.7	1.5
Chemicals and allied products wholesaling ²	57	5	6.8	-0.4	0.2	6.0	-1.0	-0.9
Paper and plastics products wholesaling ²	57	6	22.0	0.8	-1.5	-0.7	4.3	-0.7
Apparel wholesaling ²	57	7	11.9	2.8	0.7	1.9	3.4	5.1
Food and alcohol wholesaling ²	57	8	10.5	0.8	2.3	1.9	-1.0	0.7
Food and alcohol retailing.....	58	1	20.5	4.8	1.4	1.0	2.4	1.1
Health, beauty, and optical goods retailing ²	58	2	2.3	-3.0	1.7	1.0	-3.9	-1.1
Apparel, jewelry, footwear, and accessories retailing.....	58	3	2.6	-0.2	-5.3	3.1	1.3	-1.9
Computer hardware, software, and supplies retailing ²	58	4	-1.7	7.0	-2.6	-5.1	0.0	-0.4
TV, video, and photographic equipment and supplies retailing ²	58	5	-19.9	12.6	-5.2	-12.2	-2.1	0.4
Automobiles retailing (partial).....	58	6101	5.0	-2.1	-1.7	-2.0	-0.2	-3.8
Automotive parts, including tires, retailing ²	58	6102	17.1	3.5	2.6	0.4	1.3	0.8
RVs, trailers, and campers retailing ²	58	8	-31.9	-15.7	-4.3	-1.6	-8.9	-0.8
Sporting goods, including boats, retailing.....	58	9	7.6	-2.2	0.5	2.4	0.9	3.5
Lawn, garden, and farm equipment and supplies retailing ²	58	A	24.6	4.5	0.1	7.7	0.7	-3.7
Furniture retailing ²	58	B	-3.9	-6.4	-0.6	-3.1	0.0	-3.6
Flooring and floor coverings retailing ²	58	C	15.0	0.7	-1.6	-1.6	-3.7	2.7
Hardware, building materials, and supplies retailing.....	58	D	-4.8	-5.6	-7.1	-5.9	-2.3	-0.9
Major household appliances retailing.....	58	E	10.2	-0.8	0.8	-3.9	1.2	-0.1
Fuels and lubricants retailing.....	58	F	20.9	-2.2	10.0	12.6	-8.9	-7.7
Cleaning supplies and paper products retailing ²	58	G	20.9	1.2	10.1	-1.2	-1.0	-1.9
Book retailing ²	58	H	4.6	0.7	2.0	2.4	-0.5	0.8
Final demand transportation and warehousing services.....	FD	422	16.1	0.8	-0.5	-1.1	-0.4	-0.2
Rail transportation of freight and mail ²	30	11	8.7	0.5	1.2	-0.4	0.0	-0.7
Truck transportation of freight ²	30	12	11.8	-0.5	-0.2	-2.2	-0.7	-1.4
Air transportation of freight ²	30	14	5.0	2.7	-0.7	-1.5	-1.4	-0.8
Courier, messenger, and U.S. postal services.....	30	16	8.3	-0.1	2.2	-0.3	0.4	0.4
Rail transportation of passengers.....	30	21	2.1	1.7	0.1	0.2	-0.3	-0.1
Airline passenger services.....	30	22	30.9	3.9	-2.9	0.7	-0.3	2.1
Final demand services less trade, transportation, and warehousing.....	FD	421	3.0	0.2	0.0	0.3	0.5	0.2
Sales of books ²	33	11	7.5	0.0	0.7	0.1	-1.0	1.1
Sales and subscriptions of periodicals and newspapers.....	33	12	6.1	0.1	0.5	-0.4	6.0	-0.2
Application software publishing ²	34	2	1.3	0.3	0.7	-1.4	1.9	-0.5
Advertising space sales in periodicals, newspapers, directories, and mailing lists ²	36	1	0.2	0.3	-0.8	0.2	-0.5	0.6
Residential wired telecommunication services.....	37	11	4.4	0.1	0.4	0.9	2.4	0.2
Wireless telecommunication services.....	37	2	1.9	0.3	0.0	0.6	0.0	0.0
Cable and satellite subscriber services.....	37	3	6.8	0.7	1.0	0.3	1.1	0.6
Internet access services ²	37	4	-0.9	-0.5	0.1	-0.3	0.2	-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
 [October 2022]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Oct. 2021 to Oct. 2022 ^P	May to June	June to July ^P	July to Aug. ^P	Aug. to Sept. ^P
Bundled wired telecommunications access services ²	37	5	5.3	-0.5	2.7	0.4	1.7	1.3
Consumer loans (partial).....	39	12	7.3	0.4	1.3	4.4	-0.9	-0.1
Deposit services (partial) ²	39	2	-3.2	1.8	0.3	-1.2	4.2	1.5
Other credit intermediation, incl. trust services (partial) ²	39	3	-4.7	0.3	0.2	-4.8	0.5	-0.1
Securities brokerage, dealing, investment advice, and related services ² ...	40	1	15.8	-4.5	0.1	9.5	-1.9	3.9
Portfolio management ²	40	2	-12.6	-2.6	-7.1	2.2	1.6	-1.9
Life insurance ²	41	1101	3.2	0.0	0.4	0.0	0.0	0.1
Disability insurance, including accidental death ²	41	1102	-0.4	0.0	-0.3	0.0	0.0	0.0
Health and medical insurance.....	41	1103	2.0	0.2	-0.1	0.2	0.2	0.1
Property and casualty insurance ²	41	1104	2.8	0.5	0.8	0.1	0.4	-0.1
Annuities ²	41	2	-2.3	-0.6	-0.3	0.0	-0.1	-0.6
Residential property sales and leases, brokerage fees and commissions..	43	21	8.4	0.7	0.5	1.1	0.1	-0.5
Passenger car rental.....	44	1	3.3	-3.8	-2.5	3.7	-0.7	2.7
Legal services.....	45	1	4.9	0.0	0.4	0.4	0.8	0.4
Tax preparation and planning.....	45	2102	4.6	2.7	1.5	0.9	0.4	-0.8
Architectural and engineering services.....	45	3	5.4	0.8	0.1	0.4	0.1	0.0
Management, scientific, and technical consulting services.....	45	4	-0.6	-0.2	1.1	0.0	-0.3	-0.8
Arrangement of flights (partial).....	47	1	10.9	0.6	1.7	-0.4	0.0	-0.9
Arrangement of vehicle rentals and lodging ²	47	2	3.0	-0.6	-1.3	-0.6	-0.2	-0.3
Arrangement of cruises and tours ²	47	3	1.3	5.7	1.5	0.1	-5.3	5.4
Physician care.....	51	1101	0.6	0.1	0.0	0.0	0.2	0.3
Medical laboratory and diagnostic imaging care ²	51	1102	-0.3	0.0	-0.1	-0.1	0.0	0.0
Home health and hospice care.....	51	1103	2.5	0.1	-0.1	0.2	0.1	1.1
Hospital outpatient care ²	51	1104	2.4	0.7	0.7	-0.6	-0.2	-0.4
Dental care.....	51	1105	2.9	0.2	0.0	0.0	0.1	-0.1
Hospital inpatient care.....	51	2101	4.5	0.6	0.7	-0.1	0.3	0.8
Nursing home care.....	51	2102	4.3	0.2	1.7	0.7	0.5	-0.1
Traveler accommodation services.....	53	11	16.8	5.6	-0.6	-3.4	2.7	2.4
Food and beverages for immediate consumption services (partial) ²	54	1	-1.8	0.7	0.7	0.3	-1.0	-0.3
Motor vehicle repair and maintenance (partial).....	55	2	4.6	0.2	0.4	0.4	0.4	0.1
Membership dues and admissions and recreation facility use fees (partial) ²	56	1	4.5	0.2	0.6	-0.3	0.4	0.9
Recreational activity instruction fees (partial) ²	56	2	1.4	0.0	0.1	0.0	0.0	0.0
Gaming receipts (partial) ²	56	3	2.9	-1.3	2.2	-2.3	5.4	-0.2
Mining services ²	60	1	11.7	1.0	-0.9	0.9	1.6	0.2
Final demand construction.....	FD	43	19.6	0.6	5.2	0.2	0.3	2.9
New warehouse building construction ²	80	1101	20.5	-0.2	5.6	0.0	0.2	2.1
New school building construction ²	80	1102	17.9	0.2	5.6	0.1	0.3	3.3
New office building construction ²	80	1103	21.2	1.1	5.0	0.3	0.2	2.6
New industrial building construction ²	80	1104	22.1	0.7	5.9	0.2	0.4	2.9
New health care building construction ²	80	1105	19.4	0.2	5.9	0.1	0.2	3.6
Intermediate Demand by Commodity Type								
Processed goods for intermediate demand.....	ID6	1	10.1	2.0	-2.3	-1.5	0.0	-0.2
Processed foods and feeds.....	ID6	9112	10.9	0.0	0.2	-0.1	-0.4	-0.5
Meats.....	02	21	-6.0	-0.9	4.3	0.9	-0.5	-0.7
Processed poultry.....	02	22	-2.1	1.7	-1.1	-2.6	-6.9	-10.3
Dairy products.....	02	3	17.9	0.5	-0.5	-2.1	-1.5	0.8
Processed fruits and vegetables ²	02	4	16.5	0.5	2.2	0.8	2.7	1.1
Refined sugar and byproducts ²	02	53	10.5	0.2	0.5	0.7	4.5	0.1
Fats and oils ²	02	7	6.5	-0.6	-7.3	-1.4	-0.7	-3.2
Prepared animal feeds ²	02	9	14.2	1.2	0.0	1.1	0.3	-2.1
Processed materials less foods and feeds.....	ID6	9111	10.0	2.2	-2.5	-1.6	0.0	-0.2
Synthetic fibers ²	03	1	5.8	0.4	1.7	1.0	1.0	0.4
Processed yarns and threads ²	03	2	15.2	0.4	1.2	0.5	-2.9	-3.7
Finished fabrics ²	03	4	10.5	0.6	0.6	0.7	0.1	-0.1
Liquefied petroleum gas ²	05	32	-27.6	0.9	-11.3	-4.2	-8.7	-16.7
Commercial electric power.....	05	42	14.4	4.8	1.8	2.3	0.4	-0.6
Industrial electric power.....	05	43	12.9	-0.1	3.2	1.1	2.2	-0.1
Commercial natural gas.....	05	52	24.2	8.5	-2.3	3.3	3.0	-4.5
Industrial natural gas.....	05	53	23.1	11.1	-9.8	10.2	2.3	-7.8
Natural gas to electric utilities.....	05	54	7.6	15.8	-19.1	6.8	0.1	-9.0
Gasoline.....	05	71	17.9	17.3	-17.5	-12.1	-1.5	5.7
Jet fuel ²	05	7203	54.1	-0.8	-6.3	-11.1	2.1	-1.1
No. 2 diesel fuel.....	05	7303	61.5	13.0	-14.9	-10.8	8.3	9.5
Residual fuels ²	05	74	2.8	6.3	-4.2	-16.7	-2.1	-9.9

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
 [October 2022]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Oct. 2021 to Oct. 2022 ^P	May to June	June to July ^P	July to Aug. ^P	Aug. to Sept. ^P
Finished lubricants ²	05	76	22.7	6.0	3.1	0.8	2.7	1.3
Lubricating oil base stocks ²	05	78	28.8	11.2	2.9	-0.8	-5.5	-2.8
Asphalt.....	05	8102	20.4	1.7	-5.0	-6.1	-7.2	-11.9
Basic inorganic chemicals ²	06	13	30.2	1.4	4.4	0.3	1.1	1.3
Basic organic chemicals.....	06	14	1.3	0.7	-0.1	-6.1	-1.4	-1.3
Prepared paint ²	06	21	22.4	1.4	1.8	0.3	0.8	0.5
Paint materials ²	06	22	20.1	0.8	1.9	3.1	2.0	-1.1
Medicinal and botanical chemicals ²	06	31	1.5	0.4	0.0	0.1	0.4	-0.1
Biological products, including diagnostics.....	06	37	4.9	0.3	0.4	0.5	0.3	-0.1
Fats and oils, inedible ²	06	4	7.3	2.2	-7.7	0.9	-1.1	-1.1
Nitrogenates.....	06	5201	36.3	-3.9	-8.7	1.9	-0.5	2.0
Phosphates.....	06	5202	7.9	-5.6	-2.0	-0.4	0.3	0.3
Other agricultural chemicals ²	06	53	38.6	2.8	0.7	0.3	1.0	2.8
Plastic resins and materials.....	06	6	-8.3	1.1	-2.8	-4.2	0.1	-3.4
Industrial gases ²	06	7903	23.9	0.6	2.8	-0.5	0.5	0.0
Adhesives and sealants ²	06	7904	20.0	3.1	0.7	1.8	0.7	0.2
Synthetic rubber ²	07	1102	3.8	2.0	4.0	0.1	-1.1	-1.7
Tires ²	07	1201	15.1	0.6	1.8	0.7	0.5	0.9
Plastic construction products ²	07	21	13.5	1.0	1.1	0.3	-0.4	-0.8
Unsupported plastic film, sheet, other shapes ²	07	22	8.5	2.1	0.7	0.9	-1.1	-0.1
Parts for manufacturing from plastics ²	07	26	8.8	1.6	0.4	0.5	0.4	0.2
Plastic packaging products ²	07	2A	9.5	1.3	1.3	1.8	0.0	-1.7
Softwood lumber.....	08	11	4.4	-23.5	1.5	-5.5	-3.1	-1.7
Hardwood lumber ²	08	12	-11.8	-3.4	0.5	-4.2	-4.4	-5.4
Millwork.....	08	2	12.0	-0.7	-0.2	1.3	-1.2	-0.7
Plywood ²	08	3	12.4	-2.4	-6.6	-2.4	-1.7	-1.4
Paper ²	09	13	10.9	1.0	1.0	1.1	0.9	0.6
Paperboard ²	09	14	11.6	2.9	0.7	0.0	0.1	0.2
Paper boxes and containers ²	09	1503	15.6	0.4	0.5	2.4	0.3	0.3
Building paper and board ²	09	2	-2.9	-12.2	-12.1	5.7	-5.8	0.3
Commercial printing ²	09	47	18.5	1.0	0.0	1.1	0.6	0.2
Foundry and forge shop products ²	10	15	14.6	0.1	0.9	-1.4	0.0	-0.6
Steel mill products ²	10	17	-22.9	-1.7	-3.8	-4.8	-6.7	-6.6
Primary nonferrous metals ²	10	22	-18.4	-2.0	-9.6	1.6	-4.8	-2.7
Secondary nonferrous metals ²	10	24	-3.2	-3.3	-6.0	2.4	-4.3	-2.3
Aluminum mill shapes ²	10	2501	-9.3	-5.9	-4.3	-4.0	-1.3	-3.3
Copper and brass mill shapes ²	10	2502	-11.5	0.1	-10.7	0.1	1.1	-4.9
Nonferrous wire and cable ²	10	26	1.2	-1.3	-2.8	-0.1	-1.0	-0.3
Nonferrous foundry shop products.....	10	28	11.9	0.2	0.6	0.0	1.3	-0.4
Metal containers ²	10	3	21.4	1.4	-1.3	0.1	0.3	-1.8
Hardware ²	10	4	6.7	0.2	1.2	0.5	0.0	0.2
Plumbing fixtures and brass fittings.....	10	5	11.3	0.3	0.5	-0.2	0.7	0.8
Heating equipment ²	10	6	13.3	0.4	0.3	0.5	0.1	0.3
Fabricated structural metal products.....	10	7	11.0	0.4	-0.7	0.1	-0.3	-0.1
Bolts, nuts, screws, rivets, and washers ²	10	81	16.8	0.3	1.1	2.7	0.3	-0.8
Lighting fixtures ²	10	83	8.0	0.8	0.3	0.2	0.9	0.0
Fabricated ferrous wire products ²	10	88	16.0	0.7	0.5	0.3	-0.7	2.3
Other miscellaneous metal products ²	10	89	8.3	0.6	0.3	-0.1	0.0	0.2
Fluid power equipment.....	11	43	12.5	1.2	1.5	0.3	0.6	0.0
Mechanical power transmission equipment ²	11	45	14.2	0.4	0.9	1.7	1.5	0.8
Air conditioning and refrigeration equipment ²	11	48	21.3	2.2	1.4	-0.3	0.5	0.0
Metal valves, except fluid power.....	11	4902	14.2	0.2	0.3	2.2	0.4	0.6
Ball and roller bearings ²	11	4905	7.4	2.6	1.8	0.0	-1.3	-0.4
Wiring devices ²	11	71	14.3	3.0	-0.6	1.0	-0.1	0.0
Motors, generators, motor generator sets ²	11	73	15.6	0.6	0.9	0.9	1.9	0.0
Switchgear, switchboard, and industrial controls equip. ²	11	75	19.8	3.0	0.9	1.9	0.2	0.1
Electronic components and accessories.....	11	78	4.5	0.7	0.0	-0.3	0.2	0.7
Internal combustion engines ²	11	94	7.1	0.0	0.1	0.9	0.1	0.5
Machine shop products ²	11	95	5.4	0.8	0.0	1.1	0.1	0.0
Flat glass ²	13	11	10.0	0.4	0.9	1.4	0.2	1.4
Cement.....	13	22	13.4	0.4	2.7	1.0	0.9	2.7
Concrete products.....	13	3	14.1	1.5	1.7	1.2	1.0	0.4
Asphalt felts and coatings ²	13	6	14.5	1.5	-0.2	0.5	0.7	-0.2
Paving mixtures and blocks.....	13	94	20.7	2.5	2.9	0.7	0.1	-0.5
Motor vehicle parts ²	14	12	4.5	0.5	0.3	0.5	0.2	0.0
Aircraft engines and engine parts.....	14	23	4.5	0.6	0.4	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
 [October 2022]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Oct. 2021 to Oct. 2022 ^P	May to June	June to July ^P	July to Aug. ^P	Aug. to Sept. ^P
Aircraft parts and auxiliary equipment, n.e.c.....	14	25	2.4	0.6	0.0	0.0	1.2	0.0
Medical, surgical, and personal aid devices.....	15	6	3.8	0.2	0.1	0.1	0.1	0.3
Unprocessed goods for intermediate demand.....	ID6	2	9.7	4.8	-9.2	4.5	-0.9	-11.7
Unprocessed foodstuffs and feedstuffs.....	ID6	21	21.1	-0.4	-1.7	-1.7	1.1	-3.1
Wheat ²	01	21	15.6	-4.1	-22.7	-2.8	9.4	3.8
Corn.....	01	2202	34.0	3.8	-8.5	4.7	11.8	-8.8
Slaughter cattle.....	01	31	16.3	5.0	-1.5	4.0	-0.4	-0.4
Slaughter hogs.....	01	32	1.9	-4.0	23.2	6.2	-12.3	-13.2
Slaughter chickens.....	01	4102	20.1	2.0	-1.9	-9.0	0.4	-4.7
Slaughter turkeys.....	01	42	31.6	5.3	6.7	1.7	-0.1	5.3
Raw milk.....	01	6	19.1	-1.2	-4.2	-7.7	-2.1	-7.6
Hay and hayseeds ²	01	81	25.6	0.3	7.4	-8.7	5.1	0.5
Oilseeds.....	01	8301	13.4	4.8	-13.6	5.1	5.4	-9.5
Raw cane sugar and byproducts ²	02	5201	15.0	-0.6	1.2	3.3	0.0	1.5
Unprocessed nonfood materials.....	ID6	22	4.9	7.1	-12.3	7.4	-1.7	-15.4
Raw cotton ²	01	51	-9.9	-0.1	-23.8	4.7	-0.2	-15.2
Hides and skins.....	04	1	-20.7	1.9	-0.9	-3.3	0.7	5.5
Coal.....	05	1	71.9	8.5	4.5	-2.7	2.6	4.5
Natural gas ²	05	31	-2.5	10.2	-16.2	29.3	-0.8	-37.8
Crude petroleum ²	05	61	12.9	12.7	-15.6	-6.0	-5.6	2.0
Logs, bolts, timber, pulpwood, and woodchips ²	08	5	4.1	0.8	0.1	-0.5	-0.3	-0.4
Recyclable paper ²	09	12	-67.4	0.4	3.1	-11.0	-29.9	-39.5
Iron ores.....	10	11	11.9	6.6	4.1	-0.2	0.5	1.0
Iron and steel scrap ²	10	12	-27.2	-10.2	-12.6	-8.0	-3.4	-4.6
Nonferrous metal ores ²	10	21	-5.6	-1.6	-9.6	3.7	-2.3	-4.6
Copper base scrap ²	10	2301	-17.3	-2.7	-15.2	3.0	1.2	-2.9
Aluminum base scrap.....	10	2302	-21.6	-0.7	-24.7	9.7	-3.3	-8.1
Construction sand, gravel, and crushed stone.....	13	21	11.9	2.4	0.8	0.8	0.4	0.3
Services for intermediate demand.....	ID6	3	6.5	-0.3	0.3	0.6	0.4	0.3
Trade services for intermediate demand ³	ID6	33	7.7	-0.7	0.0	-0.8	-0.2	-0.3
Machinery and equipment parts and supplies wholesaling ²	57	1102	9.6	1.4	1.0	-2.4	1.5	-0.9
Building materials, paint, and hardware wholesaling.....	57	3	7.0	0.2	1.8	-1.8	-2.1	3.0
Metals, minerals, and ores wholesaling ²	57	4	-15.0	-9.9	-4.7	-7.5	-2.7	1.5
Chemicals and allied products wholesaling ²	57	5	6.8	-0.4	0.2	6.0	-1.0	-0.9
Paper and plastics products wholesaling ²	57	6	22.0	0.8	-1.5	-0.7	4.3	-0.7
Food wholesaling ²	57	8101	9.1	0.7	2.7	2.0	-1.5	0.5
Automotive parts, including tires, retailing ²	58	6102	17.1	3.5	2.6	0.4	1.3	0.8
Hardware, building material, and supplies retailing.....	58	D	-4.8	-5.6	-7.1	-5.9	-2.3	-0.9
Transportation and warehousing services for intermediate demand.....	ID6	32	8.8	0.1	1.0	-0.3	-0.9	0.6
Rail transportation of freight and mail ²	30	11	8.7	0.5	1.2	-0.4	0.0	-0.7
Truck transportation of freight ²	30	12	11.8	-0.5	-0.2	-2.2	-0.7	-1.4
Water transportation of freight ²	30	13	26.2	1.0	2.5	2.0	0.6	-1.1
Air transportation of freight ²	30	14	5.0	2.7	-0.7	-1.5	-1.4	-0.8
U.S. Postal Service.....	30	1601	4.8	0.1	5.0	0.2	0.1	1.0
Courier and messenger services, except air mail.....	30	1602	9.3	0.6	0.3	0.0	0.4	0.0
Air mail and package delivery services, excluding by USPS.....	30	1603	14.8	-2.2	0.2	-1.9	1.0	-0.2
Pipeline transportation ²	30	17	-	-0.1	2.9	0.0	3.0	0.0
Transportation of passengers (partial).....	30	2	30.4	3.9	-2.9	0.7	-0.3	2.1
Services related to water transportation.....	31	1	4.2	0.0	-0.2	0.3	-0.4	0.1
Arrangement of freight and cargo ²	31	31	-6.3	-5.1	2.2	4.5	-12.7	9.8
Warehousing, storage, and related services ²	32	1	5.7	4.1	3.3	-3.9	1.3	-1.2
Services less trade, transportation, and warehousing for intermediate demand.....	ID6	31	5.6	-0.3	0.2	1.4	0.9	0.5
Network compensation from broadcast TV, cable TV, radio ²	35	-	4.5	1.1	0.0	0.3	0.0	0.0
Advertising space sales in periodicals and newspapers ²	36	11	0.3	0.4	-0.9	0.2	-0.7	0.7
Advertising space sales in directories and mail lists ²	36	12	0.1	0.0	0.0	0.0	0.0	0.0
Television advertising time sales.....	36	2	5.8	-7.3	0.5	-4.9	-1.5	4.1
Radio advertising time sales.....	36	3	1.3	-3.1	-6.6	-1.7	5.0	-3.3
Internet advertising space sales, excluding Internet ads sold by print publishers ²	36	5	16.6	3.3	-2.6	1.1	0.5	2.1
Business wired telecommunication services ²	37	12	1.4	0.7	0.5	0.4	0.0	-0.3
Wireless telecommunication services.....	37	2	1.9	0.3	0.0	0.6	0.0	0.0
Cable and satellite subscriber services.....	37	3	6.8	0.7	1.0	0.3	1.1	0.6
Bundled wired telecommunication access services ²	37	5	5.3	-0.5	2.7	0.4	1.7	1.3
Data processing and related services ²	38	1	-1.4	-0.4	-0.1	-0.1	-0.2	0.1
Business loans (partial).....	39	11	56.5	3.2	9.1	10.2	8.8	6.0

See footnotes at end of table.

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

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Oct. 2021 to Oct. 2022 ^P	May to June	June to July ^P	July to Aug. ^P	Aug. to Sept. ^P
Deposit services (partial) ²	39	2	-3.2	1.8	0.3	-1.2	4.2	1.5
Other credit intermediation, incl. trust services (partial) ²	39	3	-4.7	0.3	0.2	-4.8	0.5	-0.1
Securities brokerage, dealing, investment advice, and related services ²	40	1	15.8	-4.5	0.1	9.5	-1.9	3.9
Portfolio management ²	40	2	-12.6	-2.6	-7.1	2.2	1.6	-1.9
Investment banking ²	40	3	-7.6	-6.1	0.0	-5.0	5.9	0.0
Life insurance ²	41	1101	3.2	0.0	0.4	0.0	0.0	0.1
Health and medical insurance.....	41	1103	2.0	0.2	-0.1	0.2	0.2	0.1
Property and casualty insurance ²	41	1104	2.8	0.5	0.8	0.1	0.4	-0.1
Annuities ²	41	2	-2.3	-0.6	-0.3	0.0	-0.1	-0.6
Commissions from sales of insurance ²	42	1	0.0	0.0	0.0	0.0	0.0	0.0
Nonresidential real estate rents ²	43	11	5.2	-1.1	-0.2	5.2	1.4	-1.7
Nonresidential property sales and leases ²	43	12	4.5	0.4	0.7	0.2	0.1	0.0
Residential property management fees ²	43	22	2.8	0.0	0.3	0.3	0.5	-0.5
Passenger car rental.....	44	1	3.3	-3.8	-2.5	3.7	-0.7	2.7
Truck, utility trailer, and RV rental and leasing ²	44	2	3.7	2.0	-0.2	1.6	-0.4	0.0
Construction, mining, and forestry machinery and equipment rental and leasing ²	44	3	7.1	1.5	-0.3	3.0	0.0	0.0
Legal services.....	45	1	4.9	0.0	0.4	0.4	0.8	0.4
Accounting services (partial).....	45	2	4.8	0.3	-0.2	2.0	0.6	-0.5
Architectural and engineering services.....	45	3	5.4	0.8	0.1	0.4	0.1	0.0
Management, scientific, and technical consulting services.....	45	4	-0.6	-0.2	1.1	0.0	-0.3	-0.8
Advertising and related services (partial) ²	45	5	11.7	0.1	0.3	0.1	0.0	0.0
Permanent placement services ²	46	1	8.9	0.6	1.2	-1.0	2.3	1.0
Executive search services ²	46	2	5.2	-0.1	-1.4	-0.1	-1.4	5.0
Staffing services.....	46	3	4.6	0.2	-0.3	-0.1	0.1	-0.2
Security guard services ²	48	1	7.9	2.1	0.1	-0.1	2.5	0.3
Janitorial services ²	49	1	7.6	0.0	0.3	-0.1	0.0	0.2
Waste collection.....	50	1	9.9	0.8	2.6	0.6	0.5	0.8
Traveler accommodation services.....	53	11	16.8	5.6	-0.6	-3.4	2.7	2.4
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	10.9	0.8	0.4	2.4	0.0	-0.1
Aircraft repair and maintenance.....	55	4	2.6	0.2	0.4	0.2	0.1	0.2
Metal treatment services ²	59	1	8.5	0.0	1.2	0.3	0.0	0.4
Construction for intermediate demand.....	ID6	4	12.4	1.0	1.2	0.1	0.3	1.5
Maintenance and repair of non-residential buildings (partial) ²	80	2	12.4	1.0	1.2	0.1	0.3	1.5
Intermediate Demand by Production Flow								
Stage 4 intermediate demand.....	ID5	4	7.7	0.4	-0.4	0.3	0.3	0.0
Stage 4 intermediate demand goods.....	ID5	9411	9.8	1.1	-0.9	-0.1	0.0	-0.2
Grains.....	01	2	28.8	1.9	-11.8	3.2	10.5	-5.7
Meats.....	02	21	-6.0	-0.9	4.3	0.9	-0.5	-0.7
Unprocessed and packaged fish.....	02	23	-4.0	-1.1	1.8	-1.2	2.3	-0.6
Dairy products.....	02	3	17.9	0.5	-0.5	-2.1	-1.5	0.8
Commercial electric power.....	05	42	14.4	4.8	1.8	2.3	0.4	-0.6
Industrial electric power.....	05	43	12.9	-0.1	3.2	1.1	2.2	-0.1
Gasoline.....	05	71	17.9	17.3	-17.5	-12.1	-1.5	5.7
No. 2 diesel fuel.....	05	7303	61.5	13.0	-14.9	-10.8	8.3	9.5
Basic organic chemicals.....	06	14	1.3	0.7	-0.1	-6.1	-1.4	-1.3
Prepared paint ²	06	21	22.4	1.4	1.8	0.3	0.8	0.5
Medicinal and botanical chemicals ²	06	31	1.5	0.4	0.0	0.1	0.4	-0.1
Biological products, including diagnostics.....	06	37	4.9	0.3	0.4	0.5	0.3	-0.1
Pharmaceutical preparations.....	06	38	2.3	0.2	0.6	0.3	0.3	0.3
Plastic construction products ²	07	21	13.5	1.0	1.1	0.3	-0.4	-0.8
Unsupported plastic film, sheet, and other shapes ²	07	22	8.5	2.1	0.7	0.9	-1.1	-0.1
Parts for manufacturing from plastics ²	07	26	8.8	1.6	0.4	0.5	0.4	0.2
Plastic packaging products ²	07	2A	9.5	1.3	1.3	1.8	0.0	-1.7
Lumber.....	08	1	-1.5	-17.7	1.2	-5.1	-3.6	-2.9
Millwork.....	08	2	12.0	-0.7	-0.2	1.3	-1.2	-0.7
Paper boxes and containers ²	09	1503	15.6	0.4	0.5	2.4	0.3	0.3
Commercial printing ²	09	47	18.5	1.0	0.0	1.1	0.6	0.2
Steel mill products ²	10	17	-22.9	-1.7	-3.8	-4.8	-6.7	-6.6
Nonferrous wire and cable ²	10	26	1.2	-1.3	-2.8	-0.1	-1.0	-0.3
Fabricated structural metal products.....	10	7	11.0	0.4	-0.7	0.1	-0.3	-0.1
Other miscellaneous metal products ²	10	89	8.3	0.6	0.3	-0.1	0.0	0.2
Air conditioning and refrigeration equipment ²	11	48	21.3	2.2	1.4	-0.3	0.5	0.0
Wiring devices ²	11	71	14.3	3.0	-0.6	1.0	-0.1	0.0

See footnotes at end of table.

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

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Oct. 2021 to Oct. 2022 ^P	May to June	June to July ^P	July to Aug. ^P	Aug. to Sept. ^P
Electronic components and accessories.....	11	78	4.5	0.7	0.0	-0.3	0.2	0.7
Miscellaneous electrical machinery and equipment ²	11	79	6.9	0.3	1.4	0.9	0.2	0.1
Internal combustion engines ²	11	94	7.1	0.0	0.1	0.9	0.1	0.5
Machine shop products ²	11	95	5.4	0.8	0.0	1.1	0.1	0.0
Concrete ingredients and related products.....	13	2	12.3	1.9	1.3	0.9	0.5	0.9
Concrete products.....	13	3	14.1	1.5	1.7	1.2	1.0	0.4
Prepared asphalt, tar roofing and siding products ²	13	61	15.2	1.5	-0.4	0.2	0.8	-0.3
Paving mixtures and blocks.....	13	94	20.7	2.5	2.9	0.7	0.1	-0.5
Motor vehicle parts ²	14	12	4.5	0.5	0.3	0.5	0.2	0.0
Aircraft engines and engine parts.....	14	23	4.5	0.6	0.4	0.7	0.4	0.1
Aircraft parts and auxiliary equipment, n.e.c.....	14	25	2.4	0.6	0.0	0.0	1.2	0.0
Medical, surgical and personal aid devices.....	15	6	3.8	0.2	0.1	0.1	0.1	0.3
Stage 4 intermediate demand services.....	ID5	9412	5.8	-0.3	0.0	0.7	0.6	0.1
Truck transportation of freight ²	30	12	11.8	-0.5	-0.2	-2.2	-0.7	-1.4
Courier, messenger, and U.S. postal services.....	30	16	8.3	-0.1	2.2	-0.3	0.4	0.4
Airline passenger services.....	30	22	30.9	3.9	-2.9	0.7	-0.3	2.1
Warehousing, storage, and related services ²	32	1	5.7	4.1	3.3	-3.9	1.3	-1.2
Advertising space sales in periodicals and newspapers ²	36	11	0.3	0.4	-0.9	0.2	-0.7	0.7
Data processing and related services ²	38	1	-1.4	-0.4	-0.1	-0.1	-0.2	0.1
Business loans (partial).....	39	11	56.5	3.2	9.1	10.2	8.8	6.0
Deposit services (partial) ²	39	2	-3.2	1.8	0.3	-1.2	4.2	1.5
Securities brokerage, dealing, investment advice, and related services ²	40	1	15.8	-4.5	0.1	9.5	-1.9	3.9
Portfolio management ²	40	2	-12.6	-2.6	-7.1	2.2	1.6	-1.9
Investment banking ²	40	3	-7.6	-6.1	0.0	-5.0	5.9	0.0
Insurance.....	41	11	2.5	0.3	0.3	0.2	0.3	0.0
Annuities ²	41	2	-2.3	-0.6	-0.3	0.0	-0.1	-0.6
Nonresidential real estate rents ²	43	11	5.2	-1.1	-0.2	5.2	1.4	-1.7
Nonresidential property sales and leases ²	43	12	4.5	0.4	0.7	0.2	0.1	0.0
Nonresidential property management fees ²	43	13	10.5	0.8	1.2	-2.0	0.3	6.4
Residential property management fees ²	43	22	2.8	0.0	0.3	0.3	0.5	-0.5
Construction, mining, and forestry machinery and equipment rental and leasing ²	44	3	7.1	1.5	-0.3	3.0	0.0	0.0
Legal services.....	45	1	4.9	0.0	0.4	0.4	0.8	0.4
Advertising agency services ²	45	51	11.7	0.1	0.3	0.1	0.0	0.0
Accounting services (partial).....	45	2	4.8	0.3	-0.2	2.0	0.6	-0.5
Architectural and engineering services.....	45	3	5.4	0.8	0.1	0.4	0.1	0.0
Management, scientific, and technical consulting services.....	45	4	-0.6	-0.2	1.1	0.0	-0.3	-0.8
Staffing services.....	46	3	4.6	0.2	-0.3	-0.1	0.1	-0.2
Janitorial services ²	49	1	7.6	0.0	0.3	-0.1	0.0	0.2
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	10.9	0.8	0.4	2.4	0.0	-0.1
Machinery and equipment parts and supplies wholesaling ²	57	1102	9.6	1.4	1.0	-2.4	1.5	-0.9
Building materials, paint, and hardware wholesaling.....	57	3	7.0	0.2	1.8	-1.8	-2.1	3.0
Metals, minerals, and ores wholesaling ²	57	4	-15.0	-9.9	-4.7	-7.5	-2.7	1.5
Chemicals and allied products wholesaling ²	57	5	6.8	-0.4	0.2	6.0	-1.0	-0.9
Paper and plastics products wholesaling ²	57	6	22.0	0.8	-1.5	-0.7	4.3	-0.7
Food and alcohol wholesaling ²	57	8	10.5	0.8	2.3	1.9	-1.0	0.7
Hardware and building materials and supplies retailing.....	58	D	-4.8	-5.6	-7.1	-5.9	-2.3	-0.9
Metal treatment services ²	59	1	8.5	0.0	1.2	0.3	0.0	0.4
Stage 3 intermediate demand.....	ID5	3	9.1	0.5	-1.4	-1.6	0.0	-0.5
Stage 3 intermediate demand goods.....	ID5	9311	11.9	1.4	-3.0	-3.2	0.0	-1.5
Slaughter cattle.....	01	31	16.3	5.0	-1.5	4.0	-0.4	-0.4
Slaughter hogs.....	01	32	1.9	-4.0	23.2	6.2	-12.3	-13.2
Slaughter poultry.....	01	4	22.0	2.5	-0.7	-7.2	0.3	-3.0
Raw milk.....	01	6	19.1	-1.2	-4.2	-7.7	-2.1	-7.6
Commercial electric power.....	05	42	14.4	4.8	1.8	2.3	0.4	-0.6
Industrial electric power.....	05	43	12.9	-0.1	3.2	1.1	2.2	-0.1
Gasoline.....	05	71	17.9	17.3	-17.5	-12.1	-1.5	5.7
Jet fuel ²	05	7203	54.1	-0.8	-6.3	-11.1	2.1	-1.1
No. 2 diesel fuel.....	05	7303	61.5	13.0	-14.9	-10.8	8.3	9.5
Finished lubricants ²	05	76	22.7	6.0	3.1	0.8	2.7	1.3
Lubricating oil base stocks ²	05	78	28.8	11.2	2.9	-0.8	-5.5	-2.8
Asphalt.....	05	8102	20.4	1.7	-5.0	-6.1	-7.2	-11.9
Basic inorganic chemicals ²	06	13	30.2	1.4	4.4	0.3	1.1	1.3
Basic organic chemicals.....	06	14	1.3	0.7	-0.1	-6.1	-1.4	-1.3
Paints and allied products ²	06	2	21.4	1.3	1.7	0.9	1.1	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
 [October 2022]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Oct. 2021 to Oct. 2022 ^P	May to June	June to July ^P	July to Aug. ^P	Aug. to Sept. ^P
Agricultural chemicals and chemical products.....	06	5	26.3	-2.6	-3.1	2.1	1.4	1.3
Plastic resins and materials.....	06	6	-8.3	1.1	-2.8	-4.2	0.1	-3.4
Synthetic rubber ²	07	1102	3.8	2.0	4.0	0.1	-1.1	-1.7
Unsupported plastic film, sheet, and other shapes ²	07	22	8.5	2.1	0.7	0.9	-1.1	-0.1
Paper ²	09	13	10.9	1.0	1.0	1.1	0.9	0.6
Paperboard ²	09	14	11.6	2.9	0.7	0.0	0.1	0.2
Converted paper and paperboard products ²	09	15	14.3	1.0	1.0	1.3	0.5	0.8
Commercial printing ²	09	47	18.5	1.0	0.0	1.1	0.6	0.2
Foundry and forge shop products ²	10	15	14.6	0.1	0.9	-1.4	0.0	-0.6
Steel mill products ²	10	17	-22.9	-1.7	-3.8	-4.8	-6.7	-6.6
Nonferrous mill shapes ²	10	25	-7.1	-3.3	-4.8	-2.4	-0.5	-3.7
Nonferrous foundry shop products.....	10	28	11.9	0.2	0.6	0.0	1.3	-0.4
Metal containers ²	10	3	21.4	1.4	-1.3	0.1	0.3	-1.8
Structural, architectural, and pre-engineered metal products.....	10	74	9.5	0.4	-1.2	-0.3	-0.7	-0.8
Bolts, nuts, screws, rivets, and washers ²	10	81	16.8	0.3	1.1	2.7	0.3	-0.8
Other miscellaneous metal products ²	10	89	8.3	0.6	0.3	-0.1	0.0	0.2
General purpose machinery and equipment.....	11	4	14.3	1.0	1.2	0.6	0.4	0.4
Electrical machinery and equipment.....	11	7	7.3	0.9	0.5	0.4	0.2	0.2
Construction sand, gravel, and crushed stone.....	13	21	11.9	2.4	0.8	0.8	0.4	0.3
Cement.....	13	22	13.4	0.4	2.7	1.0	0.9	2.7
Motor vehicle parts ²	14	12	4.5	0.5	0.3	0.5	0.2	0.0
Aircraft and aircraft equipment.....	14	2	4.3	0.5	0.2	0.3	0.4	0.2
Stage 3 intermediate demand services.....	ID5	9312	6.2	-0.5	0.5	0.1	0.0	0.5
Rail transportation of freight and mail ²	30	11	8.7	0.5	1.2	-0.4	0.0	-0.7
Courier, messenger, and U.S. postal services.....	30	16	8.3	-0.1	2.2	-0.3	0.4	0.4
Arrangement of freight and cargo ²	31	31	-6.3	-5.1	2.2	4.5	-12.7	9.8
Freight forwarding ²	31	3201	5.2	-1.5	0.1	-0.1	-0.2	0.3
Warehousing, storage, and related services ²	32	1	5.7	4.1	3.3	-3.9	1.3	-1.2
Advertising space sales in periodicals, newspapers, directories, and mailing lists ²	36	1	0.2	0.3	-0.8	0.2	-0.5	0.6
Wired telephone services ²	37	1	2.1	0.4	0.3	0.4	0.7	0.0
Bundled wired telecommunications access services ²	37	5	5.3	-0.5	2.7	0.4	1.7	1.3
Data processing and related services ²	38	1	-1.4	-0.4	-0.1	-0.1	-0.2	0.1
Business loans (partial).....	39	11	56.5	3.2	9.1	10.2	8.8	6.0
Deposit services (partial) ²	39	2	-3.2	1.8	0.3	-1.2	4.2	1.5
Securities brokerage, dealing, investment advice, and related services ²	40	1	15.8	-4.5	0.1	9.5	-1.9	3.9
Insurance.....	41	11	2.5	0.3	0.3	0.2	0.3	0.0
Nonresidential real estate rents ²	43	11	5.2	-1.1	-0.2	5.2	1.4	-1.7
Legal services.....	45	1	4.9	0.0	0.4	0.4	0.8	0.4
Accounting services (partial).....	45	2	4.8	0.3	-0.2	2.0	0.6	-0.5
Architectural and engineering services.....	45	3	5.4	0.8	0.1	0.4	0.1	0.0
Management, scientific, and technical consulting services.....	45	4	-0.6	-0.2	1.1	0.0	-0.3	-0.8
Advertising agency services ²	45	51	11.7	0.1	0.3	0.1	0.0	0.0
Staffing services.....	46	3	4.6	0.2	-0.3	-0.1	0.1	-0.2
Aircraft repair maintenance.....	55	4	2.6	0.2	0.4	0.2	0.1	0.2
Machinery and equipment parts and supplies wholesaling ²	57	1102	9.6	1.4	1.0	-2.4	1.5	-0.9
Building materials, paint, and hardware wholesaling.....	57	3	7.0	0.2	1.8	-1.8	-2.1	3.0
Metals, minerals, and ores wholesaling ²	57	4	-15.0	-9.9	-4.7	-7.5	-2.7	1.5
Chemicals and allied products wholesaling ²	57	5	6.8	-0.4	0.2	6.0	-1.0	-0.9
Paper and plastics products wholesaling ²	57	6	22.0	0.8	-1.5	-0.7	4.3	-0.7
Food wholesaling ²	57	8101	9.1	0.7	2.7	2.0	-1.5	0.5
Metal treatment services ²	59	1	8.5	0.0	1.2	0.3	0.0	0.4
Stage 2 intermediate demand.....	ID5	2	7.3	2.9	-4.1	3.1	-0.6	-5.3
Stage 2 intermediate demand goods.....	ID5	9211	6.1	5.4	-8.4	4.7	-1.6	-10.9
Corn.....	01	2202	34.0	3.8	-8.5	4.7	11.8	-8.8
Oilseeds.....	01	83	13.4	4.8	-13.6	5.1	5.4	-9.5
Prepared animal feeds ²	02	9	14.2	1.2	0.0	1.1	0.3	-2.1
Coal.....	05	1	71.9	8.5	4.5	-2.7	2.6	4.5
Natural gas ²	05	31	-2.5	10.2	-16.2	29.3	-0.8	-37.8
Liquefied petroleum gas ²	05	32	-27.6	0.9	-11.3	-4.2	-8.7	-16.7
Crude petroleum ²	05	61	12.9	12.7	-15.6	-6.0	-5.6	2.0
No. 2 diesel fuel.....	05	7303	61.5	13.0	-14.9	-10.8	8.3	9.5
Industrial chemicals.....	06	1	4.9	0.8	0.5	-5.3	-1.0	-0.9
Plastic resins and materials.....	06	6	-8.3	1.1	-2.8	-4.2	0.1	-3.4
Plastic products ²	07	2	11.4	1.5	0.9	0.8	-0.3	-0.8
Logs, bolts, timber, pulpwood, and wood chips ²	08	5	4.1	0.8	0.1	-0.5	-0.3	-0.4

See footnotes at end of table.

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

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Oct. 2021 to Oct. 2022 ^P	May to June	June to July ^P	July to Aug. ^P	Aug. to Sept. ^P
Paper ²	09	13	10.9	1.0	1.0	1.1	0.9	0.6
Paperboard, excluding corrugated paperboard ²	09	1411	11.6	2.6	0.7	-0.1	0.1	0.3
Commercial printing ²	09	47	18.5	1.0	0.0	1.1	0.6	0.2
Iron and steel scrap ²	10	12	-27.2	-10.2	-12.6	-8.0	-3.4	-4.6
Steel mill products ²	10	17	-22.9	-1.7	-3.8	-4.8	-6.7	-6.6
Nonferrous mill shapes ²	10	25	-7.1	-3.3	-4.8	-2.4	-0.5	-3.7
Electrical machinery and equipment.....	11	7	7.3	0.9	0.5	0.4	0.2	0.2
Electronic components and accessories.....	11	78	4.5	0.7	0.0	-0.3	0.2	0.7
Stage 2 intermediate demand services.....	ID5	9212	8.3	0.0	1.0	1.4	0.4	0.8
Rail transportation of freight and mail ²	30	11	8.7	0.5	1.2	-0.4	0.0	-0.7
Truck transportation of freight ²	30	12	11.8	-0.5	-0.2	-2.2	-0.7	-1.4
U.S. Postal Service.....	30	1601	4.8	0.1	5.0	0.2	0.1	1.0
Courier and messenger services, except air.....	30	1602	9.3	0.6	0.3	0.0	0.4	0.0
Air mail and package delivery services, excluding by USPS.....	30	1603	14.8	-2.2	0.2	-1.9	1.0	-0.2
Pipeline transportation ²	30	17	-	-0.1	2.9	0.0	3.0	0.0
Airline passenger services.....	30	22	30.9	3.9	-2.9	0.7	-0.3	2.1
Arrangement of freight and cargo ²	31	31	-6.3	-5.1	2.2	4.5	-12.7	9.8
Television advertising time sales.....	36	21	5.8	-7.3	0.5	-4.9	-1.5	4.1
Wireless telecommunication services.....	37	2	1.9	0.3	0.0	0.6	0.0	0.0
Data processing and related services ²	38	1	-1.4	-0.4	-0.1	-0.1	-0.2	0.1
Securities brokerage, dealing, investment advice, and related services ²	40	1	15.8	-4.5	0.1	9.5	-1.9	3.9
Portfolio management ²	40	2	-12.6	-2.6	-7.1	2.2	1.6	-1.9
Investment banking ²	40	31	-7.6	-6.1	0.0	-5.0	5.9	0.0
Insurance.....	41	11	2.5	0.3	0.3	0.2	0.3	0.0
Commissions from sales of insurance ²	42	11	0.0	0.0	0.0	0.0	0.0	0.0
Legal services.....	45	1	4.9	0.0	0.4	0.4	0.8	0.4
Accounting services (partial).....	45	2	4.8	0.3	-0.2	2.0	0.6	-0.5
Management, scientific, and technical consulting services.....	45	4	-0.6	-0.2	1.1	0.0	-0.3	-0.8
Advertising agency services ²	45	51	11.7	0.1	0.3	0.1	0.0	0.0
Staffing services.....	46	3	4.6	0.2	-0.3	-0.1	0.1	-0.2
Security guard services ²	48	1	7.9	2.1	0.1	-0.1	2.5	0.3
Janitorial services ²	49	1	7.6	0.0	0.3	-0.1	0.0	0.2
Traveler accommodation services.....	53	1	16.8	5.6	-0.6	-3.4	2.7	2.4
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	10.9	0.8	0.4	2.4	0.0	-0.1
Hardware and building materials and supplies retailing.....	58	D	-4.8	-5.6	-7.1	-5.9	-2.3	-0.9
Stage 1 intermediate demand.....	ID5	1	9.2	1.0	-1.9	-0.6	0.3	0.0
Stage 1 intermediate demand goods.....	ID5	9111	11.8	2.4	-3.2	-1.5	0.4	-0.3
Prepared animal feeds ²	02	9	14.2	1.2	0.0	1.1	0.3	-2.1
Commercial electric power.....	05	42	14.4	4.8	1.8	2.3	0.4	-0.6
Industrial electric power.....	05	43	12.9	-0.1	3.2	1.1	2.2	-0.1
Commercial natural gas.....	05	52	24.2	8.5	-2.3	3.3	3.0	-4.5
Industrial natural gas.....	05	53	23.1	11.1	-9.8	10.2	2.3	-7.8
Gasoline.....	05	71	17.9	17.3	-17.5	-12.1	-1.5	5.7
No. 2 diesel fuel.....	05	7303	61.5	13.0	-14.9	-10.8	8.3	9.5
Industrial chemicals.....	06	1	4.9	0.8	0.5	-5.3	-1.0	-0.9
Prepared paint ²	06	21	22.4	1.4	1.8	0.3	0.8	0.5
Plastic construction products ²	07	21	13.5	1.0	1.1	0.3	-0.4	-0.8
Recyclable paper ²	09	12	-67.4	0.4	3.1	-11.0	-29.9	-39.5
Paper ²	09	13	10.9	1.0	1.0	1.1	0.9	0.6
Converted paper and paperboard products ²	09	15	14.3	1.0	1.0	1.3	0.5	0.8
Iron and steel scrap ²	10	12	-27.2	-10.2	-12.6	-8.0	-3.4	-4.6
Steel mill products ²	10	17	-22.9	-1.7	-3.8	-4.8	-6.7	-6.6
Primary nonferrous metals ²	10	22	-18.4	-2.0	-9.6	1.6	-4.8	-2.7
Nonferrous scrap.....	10	23	-11.9	-5.3	-9.5	5.4	-1.5	-4.6
Nonferrous wire and cable ²	10	26	1.2	-1.3	-2.8	-0.1	-1.0	-0.3
Fabricated structural metal products.....	10	7	11.0	0.4	-0.7	0.1	-0.3	-0.1
General purpose machinery and equipment.....	11	4	14.3	1.0	1.2	0.6	0.4	0.4
Construction sand, gravel, and crushed stone.....	13	21	11.9	2.4	0.8	0.8	0.4	0.3
Stage 1 intermediate demand services.....	ID5	9112	6.1	-0.6	-0.5	0.5	0.1	0.3
Truck transportation of freight ²	30	12	11.8	-0.5	-0.2	-2.2	-0.7	-1.4
Airline passenger services.....	30	22	30.9	3.9	-2.9	0.7	-0.3	2.1
Advertising space sales in periodicals, newspapers, directories, and mailing lists ²	36	1	0.2	0.3	-0.8	0.2	-0.5	0.6
Business wired telecommunication services ²	37	12	1.4	0.7	0.5	0.4	0.0	-0.3
Wireless telecommunication services.....	37	2	1.9	0.3	0.0	0.6	0.0	0.0

See footnotes at end of table.

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

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		Oct. 2021 to Oct. 2022 ^p	May to June	June to July ^p	July to Aug. ^p	Aug. to Sept. ^p
Bundled wired telecommunications access services ²	37	5	5.3	-0.5	2.7	0.4	1.7	1.3
Business loans (partial).....	39	11	56.5	3.2	9.1	10.2	8.8	6.0
Deposit services (partial) ²	39	2	-3.2	1.8	0.3	-1.2	4.2	1.5
Securities brokerage, dealing, investment advice, and related services ²	40	1	15.8	-4.5	0.1	9.5	-1.9	3.9
Portfolio management ²	40	2	-12.6	-2.6	-7.1	2.2	1.6	-1.9
Investment banking ²	40	3	-7.6	-6.1	0.0	-5.0	5.9	0.0
Insurance.....	41	11	2.5	0.3	0.3	0.2	0.3	0.0
Nonresidential real estate rents ²	43	11	5.2	-1.1	-0.2	5.2	1.4	-1.7
Architectural and engineering services.....	45	3	5.4	0.8	0.1	0.4	0.1	0.0
Management consulting services.....	45	41	-0.6	-0.2	1.1	0.0	-0.3	-0.8
Waste collection.....	50	1	9.9	0.8	2.6	0.6	0.5	0.8
Traveler accommodation services.....	53	11	16.8	5.6	-0.6	-3.4	2.7	2.4
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	10.9	0.8	0.4	2.4	0.0	-0.1
Machinery and equipment parts and supplies wholesaling ²	57	1102	9.6	1.4	1.0	-2.4	1.5	-0.9
Building materials, paint, and hardware wholesaling.....	57	3	7.0	0.2	1.8	-1.8	-2.1	3.0
Metals, minerals, and ores wholesaling ²	57	4	-15.0	-9.9	-4.7	-7.5	-2.7	1.5
Chemicals and allied products wholesaling ²	57	5	6.8	-0.4	0.2	6.0	-1.0	-0.9
Paper and plastics products wholesaling ²	57	6	22.0	0.8	-1.5	-0.7	4.3	-0.7
Hardware and building materials and supplies retailing.....	58	D	-4.8	-5.6	-7.1	-5.9	-2.3	-0.9
Mining services ²	60	1	11.7	1.0	-0.9	0.9	1.6	0.2

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

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

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

p Preliminary

"-" Data not available.

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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	June 2022	July 2022 ^p	Aug. 2022 ^p	Sept. 2022 ^p	Oct. 2022 ^p
Final Demand								
Final demand.....		FD	4	140.361	139.795	139.729	140.075	140.390
Final demand goods.....		FD	41	147.596	144.932	143.407	143.895	144.766
Final demand foods.....		FD	411	148.249	150.156	150.036	151.942	152.772
Finished consumer foods ²	00/82	FD	4111	256.694	262.545	261.570	264.567	267.538
Finished consumer foods, crude.....	00/82	FD	41113	259.653	296.428	273.685	305.252	352.902
Finished consumer foods, processed.....	00/82	FD	41112	256.938	259.480	260.841	260.775	258.951
Government purchased foods.....		FD	4112	150.130	152.588	152.815	152.474	152.716
Foods for export.....		FD	4113	164.098	158.492	160.449	164.495	161.190
Final demand energy.....		FD	412	180.138	163.756	154.862	155.783	159.971
Finished consumer energy goods ²	00/82	FD	4121	273.538	247.792	235.323	235.320	242.395
Government purchased energy.....		FD	4122	209.366	192.048	179.168	184.611	189.089
Energy for export.....		FD	4123	197.252	182.559	169.946	172.977	172.818
Final demand goods less foods and energy.....		FD	413	137.849	137.993	138.246	138.243	138.160
Finished goods less foods and energy ²	00/82	FD	4131	237.100	238.380	239.555	240.175	240.754
Finished consumer goods less foods and energy.....	00/82	FD	41311	264.086	265.595	266.995	267.626	268.072
Nondurable consumer goods less foods and energy.....	00/82	FD	413111	339.195	341.208	343.496	344.575	345.720
Durable consumer goods.....	00/82	FD	413112	186.427	187.424	187.952	188.143	187.922
Private capital equipment.....	00/82	FD	41312	203.041	204.065	204.990	205.574	206.244
Private capital equipment for manufacturing industries.....	00/82	FD	413121	215.752	216.932	217.717	218.488	219.089
Private capital equipment for nonmanufacturing industries.....	00/82	FD	413122	199.219	200.198	201.160	201.692	202.379
Government purchased goods, excluding foods and energy.....		FD	4132	135.043	135.638	135.703	135.643	135.595
Government purchased goods excluding foods, energy, and capital equipment.....		FD	41321	145.320	146.096	145.992	145.971	145.810
Government purchased capital equipment.....		FD	41322	120.206	120.562	120.840	120.733	120.827
Goods for export, excluding foods and energy.....		FD	4133	139.212	138.168	137.741	137.127	136.308
Final demand services.....		FD	42	135.926	136.215	136.883	137.154	137.078
Final demand trade services ³		FD	423	148.750	149.786	151.453	151.029	150.242
Trade of finished goods ²		FD	4231	147.553	148.520	150.478	149.883	149.038
Trade of personal consumption goods.....		FD	42311	147.017	147.979	150.331	149.465	148.711
Trade of private capital equipment.....		FD	42312	148.261	149.243	149.453	150.050	148.819
Trade of government purchased goods.....		FD	4232	155.832	157.599	157.564	158.330	158.005
Trade of government purchased goods, excluding capital equipment.....		FD	42321	161.520	163.110	162.745	163.278	163.000
Trade of government purchased capital equipment.....		FD	42322	145.753	147.773	148.240	149.352	148.959
Trade of exports.....		FD	4233	157.320	158.690	158.428	159.077	158.621
Final demand transportation and warehousing services.....		FD	422	159.831	158.965	157.264	156.632	156.266
Transportation of passengers for final demand.....		FD	4221	138.098	134.098	135.031	134.576	137.390
Transportation of private passengers.....		FD	42211	138.093	134.104	135.035	134.581	137.387
Transportation of government passengers.....		FD	42212	137.846	133.903	134.827	134.374	137.146
Transportation of passengers for export.....		FD	42213	138.127	134.080	135.020	134.565	137.412
Transportation and warehousing of goods for final demand.....		FD	4222	167.463	167.976	165.143	164.442	162.691
Transportation and warehousing of finished goods ²		FD	42221	166.740	167.228	164.284	163.458	161.625
Transportation and warehousing of personal consumption goods.....		FD	422211	166.702	167.282	164.387	163.602	161.828
Transportation and warehousing of private capital equipment.....		FD	422212	166.903	167.018	163.878	162.889	160.812
Transportation and warehousing of government purchased goods.....		FD	42222	161.871	163.342	160.781	160.465	158.972
Transportation and warehousing of exports.....		FD	42223	171.574	171.929	169.282	168.784	167.162
Final demand services less trade, transportation, and warehousing.....		FD	421	127.763	127.822	128.263	128.943	129.222
Finished services less trade, transportation, and warehousing ²		FD	4211	128.375	128.488	128.807	129.474	129.763
Finished consumer services less trade, transportation, and warehousing.....		FD	42111	127.616	127.732	128.004	128.644	128.993
Private capital investment services less trade, transportation, and warehousing.....		FD	42112	135.418	135.508	136.237	137.139	136.906
Government purchased services less trade, transportation, and warehousing.....		FD	4212	119.543	119.217	120.057	120.555	120.565
Gov. purchased services less trade, transportation, and warehousing, excl. capital investment.....		FD	42121	119.991	119.636	120.540	121.032	121.054
Government purchased capital investment services less trade, transportation, and warehousing.....		FD	42122	107.991	108.262	107.791	108.394	108.163
Services for export less trade, transportation, and warehousing.....		FD	4213	129.084	128.771	130.567	131.636	132.077
Final demand construction.....		FD	43	160.079	168.401	168.684	169.149	173.974
Construction for private capital investment.....		FD	431	163.025	172.033	172.349	172.799	177.740
Construction for government.....		FD	432	154.515	161.589	161.811	162.304	166.911
Final Demand Special Groupings								
Final demand less exports.....	04/10	FD	49101	137.583	137.132	137.108	137.461	137.920
Final demand less government.....	04/10	FD	49102	138.134	137.613	137.633	137.936	138.207
Final demand less foods, food and nonalcoholic beverages for immediate consumption, and energy ¹	04/10	FD	49103	135.713	136.116	136.666	136.849	136.870
Final demand less foods and energy ⁴	04/10	FD	49104	135.416	135.808	136.362	136.568	136.577
Final demand less foods and food and nonalcoholic beverages for immediate consumption ⁴	04/10	FD	49105	138.336	137.587	137.489	137.722	138.028

See footnotes at end of table.

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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	June 2022	July 2022 ^P	Aug. 2022 ^P	Sept. 2022 ^P	Oct. 2022 ^P
Final demand less foods ⁴	04/10	FD	49106	137.857	137.157	137.096	137.347	137.628
Final demand less energy.....	04/10	FD	49107	135.887	136.365	136.880	137.184	137.240
Final demand less trade services.....	01/10	FD	49108	136.856	135.913	135.435	135.959	136.532
Final demand less distributive services ⁵	01/10	FD	49109	135.727	134.730	134.338	134.908	135.566
Final demand goods less energy.....	01/10	FD	49111	138.744	139.243	139.419	139.803	139.906
Final demand goods less foods.....	04/10	FD	49112	144.063	140.571	138.807	139.007	139.866
Final demand services less trade services.....	04/10	FD	49113	129.618	129.594	129.840	130.397	130.617
Final demand distributive services ⁵	04/10	FD	49114	148.420	149.370	150.431	149.980	149.084
Final demand goods plus final demand distributive services ⁵	04/10	FD	49115	145.947	144.757	144.281	144.389	144.545
Final demand less foods, energy, and trade services ⁴	08/13	FD	49116	124.406	124.608	124.842	125.200	125.416
Private and government purchased capital equipment.....	08/13	FD	49117	122.752	123.336	123.857	124.146	124.509
Private and government purchased capital investment services.....	08/13	FD	49118	130.953	131.440	131.712	132.345	131.666
Total private and government purchased capital investment.....	08/13	FD	49119	129.538	130.771	131.150	131.618	131.883
Total finished ²	01/10	FD	49201	138.170	137.771	137.849	138.161	138.592
Total finished less foods, food and nonalcoholic beverages for immediate consumption, and energy ^{2, 4}	12/10	FD	49202	134.676	135.186	135.878	136.136	136.201
Total finished less foods and energy ^{2, 4}	01/10	FD	49203	135.500	136.016	136.707	136.956	137.020
Total finished less foods and food and nonalcoholic beverages for immediate consumption ^{2, 4}	12/10	FD	49204	136.532	135.910	136.021	136.261	136.622
Total finished less foods ^{2, 4}	01/10	FD	49205	137.883	137.270	137.385	137.617	137.977
Total finished less energy ²	01/10	FD	49206	135.953	136.631	137.249	137.582	137.740
Finished goods ²	00/82	FD	49207	259.747	254.946	252.182	253.138	255.910
Finished goods less energy ²	00/82	FD	49208	241.719	244.167	244.789	246.016	247.206
Finished goods, excluding foods ^{2, 4}	00/82	FD	49209	259.446	252.021	248.824	249.269	251.980
Finished services ²	01/10	FD	49210	134.513	134.829	135.529	135.751	135.669
Private capital investment services.....	04/10	FD	49211	141.098	141.568	141.868	142.533	141.782
Finished distributive services ^{2, 5}	04/10	FD	49212	146.661	147.562	148.990	148.383	147.456
Finished services less trade services ²	04/10	FD	49213	129.514	129.556	129.729	130.295	130.535
Finished services less distributive services ^{2, 5}	04/10	FD	49214	127.753	127.773	128.103	128.740	129.085
Total private capital investment (goods, services, and construction).....	04/10	FD	49215	137.479	138.622	139.044	139.570	139.713
Finished goods plus finished distributive services ²	04/10	FD	49216	145.822	144.807	144.646	144.649	145.045
Total exports.....	04/10	FD	49301	141.399	140.182	139.874	140.136	139.518
Goods for export.....	00/82	FD	49302	243.354	239.676	238.339	238.403	236.659
Services for export.....	04/10	FD	49303	144.874	145.027	145.426	146.037	146.007
Total government purchases.....	04/10	FD	49401	138.670	137.691	136.646	137.432	138.188
Government purchased goods.....	00/82	FD	49402	251.332	245.799	240.996	242.948	244.647
Government purchased services.....	04/10	FD	49403	128.310	128.365	128.873	129.353	129.302
Total government purchased capital investment (goods, services, construction).....	08/13	FD	49404	125.921	128.253	128.481	128.743	129.944
Government purchases, defense.....	05/15	FD	49405	126.877	125.862	124.191	124.836	125.096
Government purchases, non-defense.....	05/15	FD	49406	132.573	131.586	130.865	131.676	132.626
Personal consumption.....	01/10	FD	49501	138.225	137.482	137.483	137.747	138.242
Personal consumption goods (finished consumer goods).....	00/82	FD	49502	284.318	276.848	272.391	273.513	277.242
Personal consumption goods less energy.....	00/82	FD	49503	261.635	264.978	265.380	267.009	268.521
Personal consumption goods less foods.....	00/82	FD	49504	293.405	280.574	274.735	275.087	279.096
Personal consumption nondurable goods less foods.....	00/82	FD	49508	339.491	320.860	312.353	312.775	318.561
Personal consumption services.....	04/10	FD	49505	132.988	133.279	134.035	134.191	134.209
Personal consumption less trade services.....	04/10	FD	49506	135.509	134.316	133.693	134.256	135.082
Personal consumption less distributive services ⁵	04/10	FD	49507	134.636	133.387	132.834	133.439	134.345
Personal consumption less foods and energy.....	04/14	FD	49510	124.496	124.820	125.522	125.686	125.726
Personal consumption less foods, energy, and trade services ³	04/14	FD	49511	121.134	121.275	121.498	121.977	122.258
Personal consumption less foods, energy, and distributive services ⁵	04/14	FD	49512	120.285	120.411	120.745	121.272	121.627
Personal consumption goods plus personal consumption distributive services ⁵	08/13	FD	49509	135.505	134.088	133.805	133.700	134.232
Intermediate Demand by Commodity Type								
Processed goods								
Processed goods for intermediate demand.....	00/82	ID6	1	280.999	274.448	270.421	270.347	269.704
Materials and components for manufacturing.....	00/82	ID6	11	250.482	248.324	244.756	242.093	239.246
Materials for manufacturing.....		ID6	111	164.121	161.695	157.900	155.119	152.255
Materials for food manufacturing.....	00/82	ID6	1111	262.924	261.454	259.298	256.826	257.160
Materials for nondurable manufacturing.....	00/82	ID6	1112	302.476	300.804	292.425	290.912	287.486
Materials for durable manufacturing.....	00/82	ID6	1113	322.667	313.647	306.102	295.636	285.777
Components for manufacturing.....	00/82	ID6	112	183.153	183.791	184.371	184.690	184.792
Components for nondurable manufacturing.....		ID6	1121	146.840	147.778	148.823	148.313	148.053
Components for durable manufacturing.....		ID6	1122	129.057	129.486	129.867	130.129	130.217
Materials and components for construction.....	00/82	ID6	12	350.844	351.551	352.698	351.280	349.828
Materials for construction.....		ID6	121	168.342	168.293	169.003	168.094	167.215
Components for construction.....		ID6	122	177.204	177.862	178.318	177.779	177.188
Processed fuels and lubricants for intermediate demand.....	00/82	ID6	13	326.382	297.783	284.441	290.776	295.845
Processed fuels and lubricants to manufacturing industries.....	00/82	ID6	131	306.248	295.143	288.594	293.130	295.215

See footnotes at end of table.

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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	June 2022	July 2022 ^P	Aug. 2022 ^P	Sept. 2022 ^P	Oct. 2022 ^P
Processed fuels and lubricants to nonmanufacturing industries.....	00/82	ID6	132	333.557	299.175	283.583	290.519	296.575
Containers for intermediate demand.....	00/82	ID6	14	309.386	309.524	313.573	314.333	313.128
Supplies for intermediate demand.....	00/82	ID6	15	251.371	252.403	253.290	253.254	252.529
Supplies to manufacturing industries.....	00/82	ID6	151	246.635	247.433	248.797	248.815	247.251
Supplies to nonmanufacturing industries.....	00/82	ID6	152	250.112	251.173	251.978	251.933	251.346
Supplies to nonmanufacturing industries, feeds.....	00/82	ID6	1521	250.071	253.036	257.495	260.776	255.868
Supplies to nonmanufacturing industries, other than feeds.....	00/82	ID6	1522	252.108	252.986	253.430	253.051	252.893
Unprocessed goods								
Unprocessed goods for intermediate demand.....	00/82	ID6	2	361.003	327.692	342.590	339.546	299.986
Unprocessed foodstuffs and feedstuffs.....	00/82	ID6	21	264.029	259.466	254.977	257.837	249.878
Unprocessed nonfood materials.....	00/82	ID6	22	412.115	361.341	388.253	381.502	322.840
Unprocessed nonfood materials except fuel.....	00/82	ID6	221	435.575	385.367	374.484	364.090	358.034
Unprocessed nonfood materials except fuel to manufacturing industries.....	00/82	ID6	2211	409.749	360.580	349.822	339.605	333.642
Unprocessed nonfood materials except fuel to nonmanufacturing industries.....	00/82	ID6	2212	319.111	322.359	325.133	326.601	327.654
Unprocessed fuel.....	00/82	ID6	222	349.342	301.870	375.109	373.567	252.103
Unprocessed fuel to manufacturing industries.....	00/82	ID6	2221	318.336	309.844	329.721	334.211	299.647
Unprocessed fuel to nonmanufacturing industries.....	00/82	ID6	2222	361.201	310.032	388.568	386.620	256.467
Services								
Services for intermediate demand.....		ID6	3	139.362	139.738	140.620	141.162	141.649
Trade services for intermediate demand ⁵		ID6	33	170.657	170.677	169.234	168.859	168.403
Trade services for manufacturing industries.....	12/12	ID6	331	155.414	155.643	154.025	154.218	154.134
Trade services for nonmanufacturing industries.....	12/12	ID6	332	152.335	152.142	151.158	150.290	149.551
Transportation and warehousing services for intermediate demand.....		ID6	32	157.791	159.417	158.969	157.588	158.597
Transportation of passengers for intermediate demand.....		ID6	321	137.908	133.967	134.891	134.438	137.209
Transportation of passengers for manufacturing industries.....		ID6	3211	138.101	134.058	134.998	134.543	137.387
Transportation of passengers for nonmanufacturing industries.....		ID6	3212	137.946	134.018	134.940	134.486	137.249
Transportation and warehousing of goods for intermediate demand.....		ID6	322	159.954	162.182	161.585	160.105	160.922
Transportation and warehousing of goods for manufacturing industries.....	12/12	ID6	3221	136.844	137.778	136.317	136.410	135.171
Transportation and warehousing of goods for nonmanufacturing industries.....	12/12	ID6	3222	141.749	143.992	143.724	142.038	143.296
Services less trade, transportation, and warehousing for intermediate demand.....		ID6	31	127.608	127.870	129.625	130.749	131.409
Services less trade, transportation, and warehousing for manufacturing industries.....		ID6	311	122.736	123.379	123.883	124.062	124.429
Services less trade, transportation, and warehousing for nonmanufacturing industries.....		ID6	312	127.753	128.002	129.800	130.958	131.628
Construction								
Construction for intermediate demand.....		ID6	4	142.077	143.754	143.918	144.417	146.624
Intermediate Demand by Commodity Type Special Groupings								
Processed materials less foods and feeds.....	00/82	ID6	9111	283.543	276.333	271.944	271.957	271.368
Processed foods and feeds.....	00/82	ID6	9112	254.732	255.224	255.075	254.079	252.869
Processed energy goods.....	00/82	ID6	9113	327.897	299.166	285.762	292.126	297.219
Processed materials less energy.....	00/82	ID6	9118	265.833	264.935	263.314	261.623	259.547
Processed materials less foods and energy.....	00/82	ID6	9115	266.678	265.617	263.826	262.057	259.885
Intermediate distributive services ⁶	04/10	ID6	9116	163.667	164.458	163.339	162.585	162.582
Processed goods plus intermediate distributive services.....	04/10	ID6	9117	155.775	153.354	151.443	151.215	150.957
Unprocessed materials less agricultural products.....	00/82	ID6	9211	419.850	367.771	397.520	387.824	324.190
Unprocessed energy materials ⁷	00/82	ID6	9212	362.114	310.496	344.329	336.517	269.743
Unprocessed materials less energy.....	00/82	ID6	9213	326.668	313.734	310.793	312.964	301.002
Unprocessed nonfood materials less energy ⁸	00/82	ID6	9216	513.334	476.160	478.160	477.439	452.176
Intermediate Demand by Production Flow								
Stage 4 Intermediate Demand								
Stage 4 intermediate demand.....		ID5	4	145.809	145.173	145.647	146.116	146.048
Inputs to stage 4 goods producers.....		ID5	41	147.055	146.577	146.157	146.467	145.877
Goods.....		ID5	411	142.164	141.238	141.375	141.456	140.792
Foods.....		ID5	4111	161.159	156.631	157.542	160.559	159.758
Energy.....		ID5	4112	188.688	173.644	167.858	168.285	171.103
Goods excluding foods and energy.....		ID5	4113	138.948	138.686	138.758	138.395	137.721
Services.....		ID5	412	163.533	164.291	162.316	163.268	162.872
Trade services.....		ID5	4123	174.788	175.649	172.956	174.208	173.693
Transportation and warehousing services.....		ID5	4122	141.875	141.847	140.666	140.177	139.581
Transportation of passengers.....		ID5	41221	138.126	134.079	135.019	134.564	137.411
Transportation and warehousing of goods.....		ID5	41222	152.004	152.762	151.087	150.559	149.250
Services less trade, transportation, and warehousing.....		ID5	4121	124.247	124.834	125.397	125.620	125.745
Inputs to stage 4 services producers.....		ID5	42	139.121	138.834	140.334	141.179	141.344

See footnotes at end of table.

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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	June 2022	July 2022 ^P	Aug. 2022 ^P	Sept. 2022 ^P	Oct. 2022 ^P
Goods.....		ID5	421	148.089	147.078	147.226	147.644	147.453
Foods.....		ID5	4211	153.260	155.057	154.354	152.280	149.746
Energy.....		ID5	4212	151.019	146.110	145.623	147.926	148.385
Goods excluding foods and energy.....		ID5	4213	144.477	144.713	145.444	145.586	145.733
Services.....		ID5	422	135.738	135.708	137.697	138.696	138.983
Trade services.....		ID5	4223	156.588	157.669	157.615	158.534	158.188
Transportation and warehousing services.....		ID5	4222	146.790	149.234	148.031	147.509	148.397
Transportation of passengers.....		ID5	42221	137.578	133.579	134.511	134.058	136.871
Transportation and warehousing of goods.....		ID5	42222	148.906	152.543	150.944	150.407	150.943
Services less trade, transportation, and warehousing.....		ID5	4221	131.302	130.876	133.449	134.607	134.917
Construction.....		ID5	423	142.077	143.754	143.918	144.417	146.624
Inputs to stage 4 construction producers.....		ID5	43	167.680	165.264	163.799	163.140	163.415
Goods.....		ID5	431	172.552	169.586	168.457	167.889	168.193
Energy.....		ID5	4312	236.960	202.183	181.776	182.195	190.746
Goods excluding foods and energy.....		ID5	4313	170.284	170.352	171.078	170.399	169.907
Services.....		ID5	432	155.286	154.192	151.931	151.060	151.265
Trade services.....		ID5	4323	177.929	175.193	170.159	168.375	169.440
Transportation and warehousing services.....		ID5	4322	161.811	161.855	158.954	158.022	156.221
Transportation of passengers.....		ID5	43221	143.976	139.768	140.746	140.272	143.232
Transportation and warehousing of goods.....		ID5	43222	163.104	163.262	160.242	159.293	157.356
Services less trade, transportation, and warehousing.....		ID5	4321	126.748	126.985	127.867	127.983	127.985
Stage 3 Intermediate Demand								
Stage 3 intermediate demand.....		ID5	3	157.357	155.177	152.663	152.639	151.854
Inputs to stage 3 goods producers.....		ID5	31	175.173	172.868	169.157	167.987	164.292
Goods.....		ID5	311	174.175	171.463	167.333	166.043	161.481
Foods.....		ID5	3111	199.063	196.806	191.647	192.543	184.474
Energy.....		ID5	3112	212.155	193.074	183.574	182.333	178.341
Goods excluding foods and energy.....		ID5	3113	165.866	163.938	160.470	158.240	154.978
Services.....		ID5	312	166.572	166.127	164.420	163.834	164.003
Trade services.....		ID5	3123	172.212	170.988	168.848	168.088	169.041
Transportation and warehousing services.....		ID5	3122	160.408	160.810	158.786	158.163	156.651
Transportation of passengers.....		ID5	31221	147.063	142.757	143.758	143.273	146.302
Transportation and warehousing of goods.....		ID5	31222	160.917	161.591	159.395	158.765	156.992
Services less trade, transportation, and warehousing.....		ID5	3121	127.537	128.412	129.029	129.203	129.483
Inputs to stage 3 services producers.....		ID5	32	142.758	140.721	139.204	140.165	141.782
Goods.....		ID5	321	165.678	153.579	144.867	148.555	152.312
Foods.....		ID5	3211	153.985	156.007	160.526	162.863	161.041
Energy.....		ID5	3212	191.404	171.387	157.088	163.178	169.430
Goods excluding foods and energy.....		ID5	3213	135.777	135.831	135.618	135.566	135.510
Services.....		ID5	322	135.259	136.296	137.002	137.116	138.042
Trade services.....		ID5	3223	188.917	190.420	190.288	190.626	190.546
Transportation and warehousing services.....		ID5	3222	162.042	164.637	165.200	162.195	164.750
Transportation of passengers.....		ID5	32221	104.669	104.668	104.931	104.610	104.586
Transportation and warehousing of goods.....		ID5	32222	162.541	165.150	165.716	162.696	165.265
Services less trade, transportation, and warehousing.....		ID5	3221	125.208	125.811	126.619	127.533	128.112
Construction.....		ID5	323	142.077	143.754	143.918	144.417	146.624
Inputs to stage 3 construction producers.....		ID5	33	149.399	145.730	143.066	141.624	141.012
Goods.....		ID5	331	139.573	138.681	139.071	138.117	137.440
Goods excluding foods and energy.....		ID5	3313	177.849	176.712	177.209	175.994	175.132
Services.....		ID5	332	179.017	172.410	166.708	164.637	163.996
Trade services.....		ID5	3323	185.219	177.943	171.675	169.420	168.734
Transportation and warehousing services.....		ID5	3322	114.034	115.541	115.603	115.615	114.718
Transportation and warehousing of goods.....		ID5	33222	120.367	121.958	122.023	122.036	121.089
Services less trade, transportation, and warehousing.....		ID5	3321	118.974	119.869	121.187	121.219	121.535
Stage 2 Intermediate Demand								
Stage 2 intermediate demand.....		ID5	2	152.627	146.318	150.832	149.873	141.892
Inputs to stage 2 goods producers.....		ID5	21	161.374	149.532	156.184	154.014	139.037
Goods.....		ID5	211	170.419	154.796	162.955	160.107	140.872
Foods.....		ID5	2111	179.880	171.191	176.336	181.455	173.412
Energy.....		ID5	2112	161.541	138.471	152.719	148.927	119.475
Goods excluding foods and energy.....		ID5	2113	157.263	154.362	152.377	150.129	147.750
Services.....		ID5	212	142.226	144.110	145.549	145.822	146.041
Trade services.....		ID5	2123	162.101	164.396	166.285	164.757	164.287
Transportation and warehousing services.....		ID5	2122	163.773	165.862	166.211	167.735	167.802
Transportation of passengers.....		ID5	21221	138.399	134.584	135.491	135.037	137.719
Transportation and warehousing of goods.....		ID5	21222	165.133	167.697	167.998	169.678	169.530
Services less trade, transportation, and warehousing.....		ID5	2121	121.797	123.261	125.051	127.007	128.327
Construction.....		ID5	213	142.077	143.754	143.918	144.417	146.624

See footnotes at end of table.

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

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	June 2022	July 2022 ^P	Aug. 2022 ^P	Sept. 2022 ^P	Oct. 2022 ^P
Inputs to stage 2 services producers.....		ID5	22	136.169	137.071	138.725	139.331	140.467
Goods.....		ID5	221	150.444	148.656	148.421	148.308	148.062
Foods.....		ID5	2211	135.217	135.648	136.633	136.403	135.029
Energy.....		ID5	2212	235.658	200.161	191.919	196.297	197.910
Goods excluding foods and energy.....		ID5	2213	145.609	145.892	146.145	145.754	145.400
Services.....		ID5	222	133.547	134.805	136.791	137.503	138.794
Trade services.....		ID5	2223	172.982	179.811	186.298	180.593	175.273
Transportation and warehousing services.....		ID5	2222	164.688	165.562	168.795	159.895	166.305
Transportation of passengers.....		ID5	22221	138.535	134.516	135.453	134.997	137.824
Transportation and warehousing of goods.....		ID5	22222	170.174	171.973	175.650	165.128	172.236
Services less trade, transportation, and warehousing.....		ID5	2221	130.262	131.229	132.870	134.717	136.024
Construction.....		ID5	223	142.077	143.754	143.918	144.417	146.624
Stage 1 Intermediate Demand								
Stage 1 intermediate demand.....		ID5	1	151.253	148.338	147.519	147.955	147.998
Inputs to stage 1 goods producers.....		ID5	11	160.512	156.073	154.358	153.772	151.697
Goods.....		ID5	111	164.456	158.598	156.315	155.865	152.884
Foods.....		ID5	1111	181.143	171.354	174.746	183.880	176.737
Energy.....		ID5	1112	167.017	150.584	148.601	151.179	149.699
Goods excluding foods and energy.....		ID5	1113	165.261	162.424	159.046	156.240	153.534
Services.....		ID5	112	153.978	153.222	152.983	152.021	152.315
Trade services.....		ID5	1123	171.001	170.433	169.116	167.221	167.941
Transportation and warehousing services.....		ID5	1122	156.177	157.649	158.869	159.420	158.742
Transportation of passengers.....		ID5	11221	138.099	134.053	134.993	134.538	137.384
Transportation and warehousing of goods.....		ID5	11222	159.155	161.638	162.906	163.640	162.317
Services less trade, transportation, and warehousing.....		ID5	1121	106.938	105.638	106.689	106.912	106.735
Construction.....		ID5	113	142.077	143.754	143.918	144.417	146.624
Inputs to stage 1 services producers.....		ID5	12	143.879	141.997	142.093	143.202	144.427
Goods.....		ID5	121	159.415	154.097	151.221	153.326	155.751
Foods.....		ID5	1211	200.188	194.368	187.764	177.227	213.446
Energy.....		ID5	1212	207.855	189.154	178.391	184.849	191.975
Goods excluding foods and energy.....		ID5	1213	144.432	145.338	146.163	146.330	146.426
Services.....		ID5	122	135.803	135.643	137.224	137.833	138.456
Trade services.....		ID5	1223	168.190	169.569	168.896	169.452	167.611
Transportation and warehousing services.....		ID5	1222	142.540	143.043	142.658	142.336	143.394
Transportation of passengers.....		ID5	12221	138.017	133.974	134.913	134.458	137.302
Transportation and warehousing of goods.....		ID5	12222	160.060	163.204	162.025	161.744	161.896
Services less trade, transportation, and warehousing.....		ID5	1221	130.061	129.634	131.727	132.459	133.310
Construction.....		ID5	123	142.077	143.754	143.918	144.417	146.624
Inputs to stage 1 construction producers.....		ID5	13	171.301	167.684	165.133	165.379	165.927
Goods.....		ID5	131	170.791	168.038	166.747	167.972	169.222
Energy.....		ID5	1312	224.163	196.183	178.284	189.282	203.534
Goods excluding foods and energy.....		ID5	1313	166.548	167.038	167.890	167.861	167.438
Services.....		ID5	132	172.342	167.019	161.982	160.295	159.458
Trade services.....		ID5	1323	179.553	173.055	167.416	165.543	164.898
Transportation and warehousing services.....		ID5	1322	136.633	136.552	133.762	132.861	131.070
Transportation and warehousing of goods.....		ID5	13222	141.329	141.245	138.360	137.427	135.575
Services less trade, transportation, and warehousing.....		ID5	1321	129.128	129.124	132.539	132.558	132.532
Intermediate Demand by Production Flow Special Groupings								
Total goods inputs to stage 4 intermediate demand.....	04/10	ID5	9411	146.858	145.538	145.436	145.491	145.163
Total services inputs to stage 4 intermediate demand.....	04/10	ID5	9412	141.158	141.176	142.177	143.020	143.187
Total construction inputs to stage 4 intermediate demand.....	04/10	ID5	9413	140.900	142.563	142.726	143.220	145.410
Total foods inputs to stage 4 intermediate demand.....	04/10	ID5	9414	154.304	152.495	152.718	153.560	152.059
Total energy goods inputs to stage 4 intermediate demand.....	04/10	ID5	9415	152.342	143.137	139.601	141.377	143.060
Total goods less foods and energy inputs to stage 4 intermediate demand.....	04/10	ID5	9416	146.113	146.033	146.391	146.067	145.612
Total goods inputs to stage 3 intermediate demand.....	04/10	ID5	9311	163.298	158.419	153.397	153.400	151.143
Total services inputs to stage 3 intermediate demand.....	04/10	ID5	9312	140.002	140.654	140.828	140.784	141.543
Total construction inputs to stage 3 intermediate demand.....	04/10	ID5	9313	140.900	142.563	142.726	143.220	145.410
Total foods inputs to stage 3 intermediate demand.....	04/10	ID5	9314	176.834	174.857	170.339	171.147	164.013
Total energy goods inputs to stage 3 intermediate demand.....	04/10	ID5	9315	190.859	171.408	158.189	162.953	167.401
Total goods less foods and energy inputs to stage 3 intermediate demand.....	04/10	ID5	9316	154.542	153.003	150.229	148.434	145.825
Total goods inputs to stage 2 intermediate demand.....	04/10	ID5	9211	160.294	146.758	153.714	151.267	134.790
Total services inputs to stage 2 intermediate demand.....	04/10	ID5	9212	135.986	137.384	139.260	139.881	140.945
Total construction inputs to stage 2 intermediate demand.....	04/10	ID5	9213	140.900	142.563	142.726	143.220	145.410
Total foods inputs to stage 2 intermediate demand.....	04/10	ID5	9214	180.374	171.746	176.870	181.953	173.945
Total energy goods inputs to stage 2 intermediate demand.....	04/10	ID5	9215	158.994	136.266	149.956	146.337	117.862
Total goods less foods and energy inputs to stage 2 intermediate demand.....	04/10	ID5	9216	145.772	143.723	142.333	140.614	138.807
Total goods inputs to stage 1 intermediate demand.....	04/10	ID5	9111	145.628	141.022	138.949	139.572	139.184

See footnotes at end of table.

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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	June 2022	July 2022 ^p	Aug. 2022 ^p	Sept. 2022 ^p	Oct. 2022 ^p
Total services inputs to stage 1 intermediate demand.....	04/10	ID5	9112	141.001	140.315	141.012	141.138	141.577
Total construction inputs to stage 1 intermediate demand.....	04/10	ID5	9117	140.900	142.563	142.726	143.220	145.410
Total foods inputs to stage 1 intermediate demand.....	04/10	ID5	9114	170.960	161.819	164.819	173.036	167.156
Total energy goods inputs to stage 1 intermediate demand.....	04/10	ID5	9115	186.440	168.519	160.751	165.933	170.266
Total goods less foods and energy inputs to stage 1 intermediate demand.....	04/10	ID5	9116	131.692	130.906	129.944	128.883	127.778

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

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

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

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

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

⁶ Includes intermediate trade, transportation, and warehousing services.

⁷ Includes crude petroleum.

⁸ Excludes crude petroleum.

p Preliminary

“-” Data not available.