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PRODUCER PRICE INDEXES – JUNE 2023

The Producer Price Index for final demand increased 0.1 percent in June, seasonally adjusted, the U.S. Bureau of Labor Statistics reported today. Final demand prices declined 0.4 percent in May and edged up 0.1 percent in April. (See table A.) On an unadjusted basis, the index for final demand advanced 0.1 percent for the 12 months ended in June.

In June, the increase in final demand prices can be traced to a 0.2-percent rise in the index for final demand services. Prices for final demand goods were unchanged.

The index for final demand less foods, energy, and trade services moved up 0.1 percent in June after no change in May. For the 12 months ended in June, prices for final demand less foods, energy, and trade services advanced 2.6 percent.

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

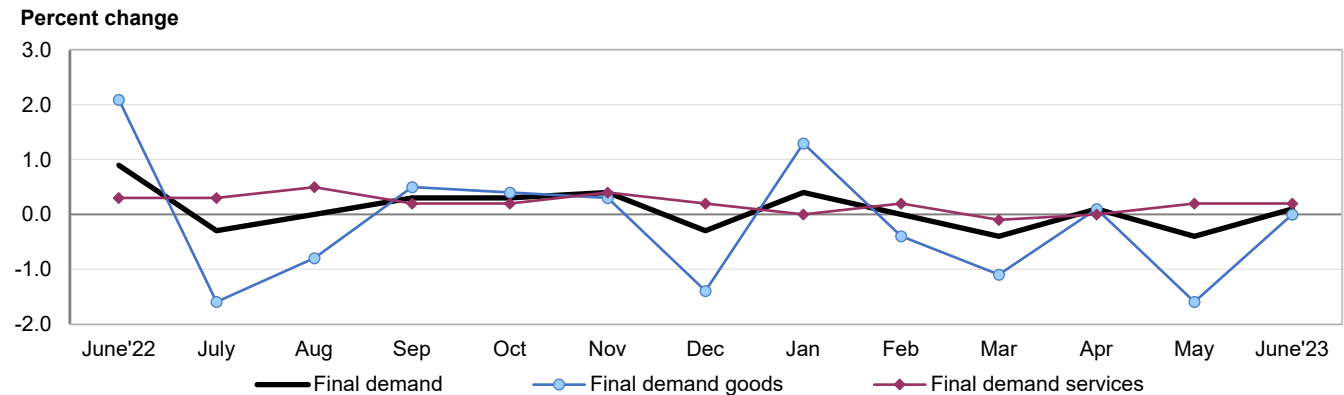
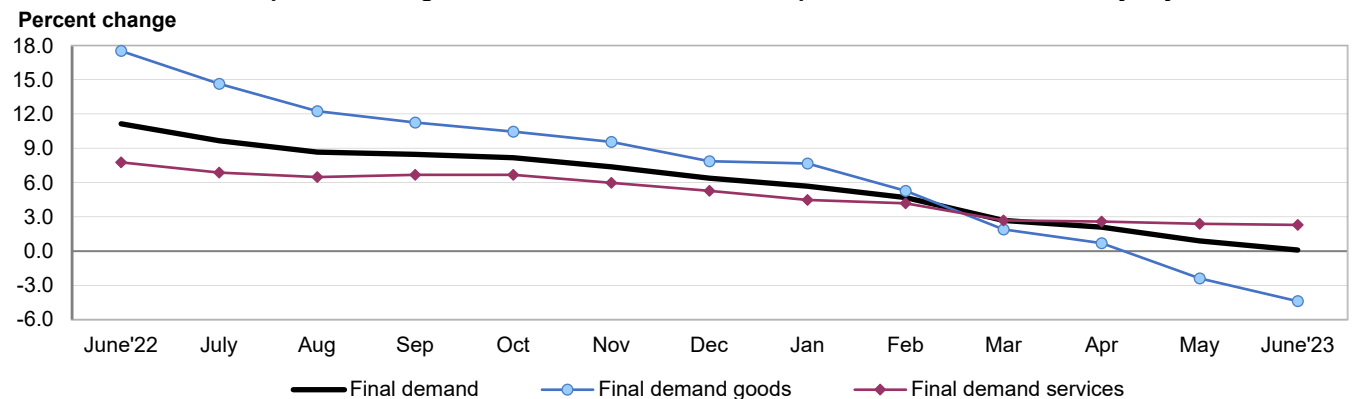


Chart 2. Twelve-month percent changes in selected PPI final demand price indexes, not seasonally adjusted



Final Demand

Final demand services: The index for final demand services increased 0.2 percent in June, the same as in May. Leading the June advance, prices for final demand services less trade, transportation, and warehousing moved up 0.3 percent. Margins for final demand trade services rose 0.2 percent. (Trade indexes measure changes in margins received by wholesalers and retailers.) In contrast, the index for final demand transportation and warehousing services decreased 0.9 percent.

Product detail: A 5.4-percent advance in the index for deposit services (partial) was a major factor in the June increase in prices for final demand services. The indexes for food and alcohol retailing, traveler accommodation services, insurance, hospital inpatient care, and airline passenger services also moved higher. Conversely, prices for truck transportation of freight declined 2.1 percent. The indexes for food and alcohol wholesaling and for residential real estate loans (partial) also fell. (See table 2.)

Final demand goods: Prices for final demand goods were unchanged in June after decreasing 1.6 percent in May. In June, a 0.7-percent rise in the index for final demand energy offset falling prices for final demand goods less foods and energy and for final demand foods, which declined 0.2 percent and 0.1 percent, respectively.

Product detail: Within the index for final demand goods in June, prices for gasoline rose 3.4 percent. The indexes for electric power; beef and veal; chicken eggs; and medical, surgical, and personal aid devices also moved higher. In contrast, prices for iron and steel scrap dropped 10.8 percent. The indexes for diesel fuel, oilseeds, industrial chemicals, and residual fuels also decreased.

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

Month	Total final demand	Final demand less foods, energy, and trade	Final demand goods				Final demand services				Change in final demand from 12 months ago (unadj.)	Change in final demand less foods, energy, and trade from 12 mo. ago (unadj.)
			Total	Foods	Energy	Less foods and energy	Total	Trade	Transportation and warehousing	Other		
2022												
June...	0.9	0.3	2.1	-0.1	8.4	0.5	0.3	0.5	0.8	0.1	11.2	6.4
July...	-0.3	0.2	-1.6	1.3	-8.3	0.2	0.3	0.8	-0.3	0.1	9.7	5.8
Aug...	0.0	0.2	-0.8	-0.2	-4.4	0.2	0.5	1.0	-1.1	0.4	8.7	5.6
Sept...	0.3	0.3	0.5	1.5	1.0	0.0	0.2	-0.3	-0.2	0.5	8.5	5.6
Oct....	0.3	0.2	0.4	0.7	1.5	0.0	0.2	0.2	0.0	0.2	8.2	5.5
Nov....	0.4	0.4	0.3	3.3	-2.3	0.3	0.4	0.5	-0.4	0.5	7.4	4.9
Dec....	-0.3	0.2	-1.4	-0.9	-6.3	0.1	0.2	0.3	0.0	0.2	6.4	4.7
2023												
Jan. ...	0.4	0.5	1.3	-1.3	5.4	0.6	0.0	-0.8	-0.5	0.5	5.7	4.4
Feb. ¹ ..	0.0	0.3	-0.4	-2.3	-0.8	0.3	0.2	-0.2	-0.8	0.4	4.7	4.5
Mar. ¹ ..	-0.4	0.1	-1.1	0.2	-6.1	0.2	-0.1	-0.6	-0.7	0.2	2.7	3.7
Apr. ¹ ..	0.1	0.1	0.1	-0.4	0.5	0.2	0.0	-0.2	-2.4	0.4	2.1	3.3
May ¹ ..	-0.4	0.0	-1.6	-1.4	-6.8	0.1	0.2	0.7	-0.5	0.0	0.9	2.8
June...	0.1	0.1	0.0	-0.1	0.7	-0.2	0.2	0.2	-0.9	0.3	0.1	2.6

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

Intermediate Demand by Commodity Type

Within intermediate demand in June, the index for processed goods fell 0.6 percent, prices for unprocessed goods decreased 2.1 percent, and the index for services was unchanged. (See tables B and C.)

Processed goods for intermediate demand: Prices for processed goods for intermediate demand moved down 0.6 percent in June, the fifth consecutive decline. Over half of the broad-based decrease in June can be traced to the index for processed materials less foods and energy, which fell 0.4 percent. Prices for processed energy goods and for processed foods and feeds also moved lower, declining 0.9 percent and 1.0 percent, respectively. For the 12 months ended in June, the index for processed goods for intermediate demand fell 9.4 percent, the largest 12-month decrease since dropping 12.0 percent in September 2009.

Product detail: In June, a major factor in the decline in prices for processed goods for intermediate demand was the index for industrial chemicals, which fell 3.5 percent. Prices for diesel fuel, plastic resins and materials, fats and oils, utility natural gas, and residual fuels also decreased. Conversely, the index for gasoline rose 3.4 percent. Prices for beef and veal and for cold rolled steel sheet and strip also advanced.

Unprocessed goods for intermediate demand: The index for unprocessed goods for intermediate demand moved down 2.1 percent in June after dropping 5.0 percent in May. Leading the June decline, prices for unprocessed energy materials decreased 5.0 percent. The index for unprocessed nonfood materials less energy moved down 2.4 percent. In contrast, prices for unprocessed foodstuffs and feedstuffs increased 0.9 percent. For the 12 months ended in June, the index for unprocessed goods for intermediate demand declined 32.2 percent, the largest 12-month decrease since dropping 35.0 percent in August 2009.

Product detail: Nearly three-quarters of the June decline in the index for unprocessed goods for intermediate demand is attributable to prices for crude petroleum, which fell 5.9 percent. The indexes for iron and steel scrap, raw milk, natural gas, oilseeds, and nonferrous metal ores also moved lower. Conversely, prices for slaughter steers and heifers advanced 8.3 percent. The indexes for coal and for construction sand, gravel, and crushed stone 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.)
2022										
June.....	1.9	0.1	8.4	0.1	21.9	4.8	-0.7	11.1	-1.8	50.3
July.....	-2.1	0.5	-8.0	-0.4	17.2	-8.8	-1.1	-14.2	-5.9	32.5
Aug.....	-1.2	-0.2	-3.7	-0.6	14.3	4.8	-0.9	10.9	0.5	36.9
Sept.....	-0.1	-0.1	2.0	-0.8	12.9	-3.1	1.3	-6.6	-0.6	29.2
Oct.....	-0.2	-0.2	1.5	-0.8	10.1	-9.7	-0.7	-18.1	-4.1	9.3
Nov.....	-0.5	0.8	-1.9	-0.2	7.6	-3.1	0.0	-6.7	-0.7	3.5
Dec.....	-2.5	-0.6	-9.8	-0.4	4.8	1.5	-0.2	5.2	-1.7	10.7
2023										
Jan.....	1.1	0.2	4.9	0.1	3.9	-4.7	-5.8	-7.0	2.1	2.8
Feb. ¹	-0.4	-2.1	-1.6	0.2	2.1	-4.9	-1.0	-10.9	0.3	-10.4
Mar. ¹	-1.0	-0.2	-3.9	-0.2	-1.0	-4.7	-0.7	-11.1	-0.9	-16.8
Apr. ¹	-0.5	-1.1	-3.1	0.3	-3.4	1.8	-1.5	5.7	1.7	-19.7
May ¹	-1.5	-2.1	-6.9	0.0	-7.2	-5.0	-4.6	-7.0	-2.6	-27.6
June.....	-0.6	-1.0	-0.9	-0.4	-9.4	-2.1	0.9	-5.0	-2.4	-32.2

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Services for intermediate demand: The index for services for intermediate demand was unchanged in June after rising 0.3 percent in May. In June, prices for services less trade, transportation, and warehousing for intermediate demand inched up 0.1 percent. Offsetting this increase, the index for transportation and warehousing services for intermediate demand declined 0.4 percent, and margins for trade services for intermediate demand edged down 0.1 percent. For the 12 months ended in June, prices for services for intermediate demand advanced 4.4 percent.

Product detail: Within services for intermediate demand in June, prices for deposit services (partial) advanced 5.4 percent. The indexes for gross rents for retail properties, insurance, chemicals and allied products wholesaling, and arrangement of freight and cargo transportation also moved higher. In contrast, prices for truck transportation of freight fell 2.1 percent. The indexes for business loans (partial), food and alcohol wholesaling, gross rents for office buildings, and staffing services also decreased.

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

Month	Services for intermediate demand				Total, change from 12 months ago (unadj.)
	Total	Trade	Transportation and warehousing	Other	
2022					
June.....	-0.3	-0.5	0.1	-0.3	6.3
July.....	0.3	0.2	1.1	0.1	5.9
Aug.....	0.6	-0.9	-0.3	1.3	6.0
Sept.....	0.5	0.1	-0.4	0.8	6.2
Oct.....	0.4	0.0	0.6	0.5	6.7
Nov.....	0.8	0.9	-1.3	1.2	6.9
Dec.....	0.0	-1.3	0.0	0.4	6.0
2023					
Jan.....	1.0	0.8	0.5	1.1	6.3
Feb. ¹	0.3	-0.7	0.0	0.7	6.2
Mar. ¹	-0.3	1.0	-0.9	-0.5	4.6
Apr. ¹	0.7	1.2	-1.1	1.0	4.5
May ¹	0.3	0.4	-0.6	0.4	4.1
June.....	0.0	-0.1	-0.4	0.1	4.4

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Intermediate Demand by Production Flow

Stage 4 intermediate demand: The index for stage 4 intermediate demand was unchanged in June after moving down 0.1 percent in May. In June, prices for both total goods inputs and for total services inputs to stage 4 intermediate demand also were unchanged. (See table D.) Increases in the indexes for gross rents for retail properties, gasoline, deposit services (partial), insurance, and chemicals and allied products wholesaling offset declines in the indexes for business loans (partial), food and alcohol wholesaling, gross rents for office buildings, diesel fuel, and machinery and equipment parts and supplies wholesaling. For the 12 months ended in June, prices for stage 4 intermediate demand advanced 1.4 percent.

Stage 3 intermediate demand: The index for stage 3 intermediate demand fell 0.2 percent in June, the fifth consecutive decrease. In June, prices for total goods inputs to stage 3 intermediate demand declined 0.3 percent, and the index for total services inputs inched down 0.1 percent. Lower prices for raw milk, diesel fuel, industrial chemicals, business loans (partial), slaughter poultry, and cable network advertising time sales outweighed increases in the indexes for slaughter steers and heifers, slaughter hogs, and arrangement of freight and cargo transportation. For the 12 months ended in June, prices for stage 3 intermediate demand fell 7.5 percent, the largest 12-month decrease since dropping 8.1 percent in May 2020.

Stage 2 intermediate demand: The index for stage 2 intermediate demand declined 1.4 percent in June after falling 1.2 percent in May. In June, prices for total goods inputs to stage 2 intermediate demand moved down 3.2 percent, and the index for total services inputs decreased 0.2 percent. Lower prices for crude petroleum, gas fuels, business loans (partial), industrial chemicals, oilseeds, and iron and steel scrap outweighed advances in the indexes for deposit services (partial), arrangement of freight and cargo transportation, and coal. For the 12 months ended in June, prices for stage 2 intermediate demand declined 13.4 percent, the largest 12-month decrease since dropping 13.5 percent in April 2015.

Stage 1 intermediate demand: The index for stage 1 intermediate demand moved down 0.2 percent in June, the fifth straight decline. In June, prices for total goods inputs to stage 1 intermediate demand fell 0.8 percent. Conversely, the index for total services inputs advanced 0.3 percent. Decreasing prices for diesel fuel, industrial chemicals, iron and steel scrap, residual fuels, truck transportation of freight, and fats and oils outweighed increases in the indexes for gross rents for retail properties, traveler accommodation services, and corn. For the 12 months ended in June, prices for stage 1 intermediate demand declined 4.7 percent, the largest 12-month decrease since dropping 5.8 percent in June 2020.

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
2022												
June.....	0.3	1.0	-0.3	0.5	1.4	-0.5	2.9	5.3	0.1	1.0	2.4	-0.6
July.....	-0.4	-0.8	0.0	-1.2	-2.6	0.4	-4.1	-8.2	0.9	-1.6	-2.8	-0.3
Aug.....	0.3	0.0	0.6	-1.3	-2.6	0.1	3.0	4.8	1.2	-0.4	-1.2	0.5
Sept.....	0.4	0.1	0.7	0.0	-0.1	0.1	-1.9	-4.0	0.3	0.3	0.3	0.2
Oct.....	0.1	-0.1	0.2	-0.1	-0.6	0.5	-4.7	-9.8	0.8	0.1	-0.2	0.4
Nov.....	0.4	-0.2	1.0	-0.4	-1.1	0.3	-1.0	-2.9	0.8	0.1	-0.6	0.9
Dec.....	-0.4	-0.7	0.0	-2.0	-3.8	0.0	1.0	1.5	0.6	-1.8	-3.0	-0.4
2023												
Jan.....	1.0	0.8	1.2	0.2	-0.5	0.9	-0.9	-2.9	0.9	0.7	0.8	0.7
Feb. ¹	0.0	-0.1	0.2	-0.2	-0.6	0.1	-1.4	-4.6	1.2	-0.3	-0.4	-0.2
Mar. ¹	-0.2	-0.5	0.0	-0.7	-1.1	-0.4	-2.5	-4.9	-0.7	-0.4	-1.0	0.2
Apr. ¹	0.3	-0.2	0.8	-0.2	-1.2	0.7	1.2	1.9	0.8	-0.1	-0.7	0.6
May ¹	-0.1	-0.6	0.3	-1.3	-2.9	0.1	-1.2	-3.7	0.6	-0.9	-1.8	0.0
June.....	0.0	0.0	0.0	-0.2	-0.3	-0.1	-1.4	-3.2	-0.2	-0.2	-0.8	0.3

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The Producer Price Index for July 2023 is scheduled to be released on Friday, August 11, 2023, at 8:30 a.m. (ET).

Resampling of Industries – June 2023

Effective with the release of data for June 2023, the Producer Price Index (PPI) includes data for 10 resampled industries classified according to the 2022 North American Industry Classification System (NAICS). The Bureau of Labor Statistics periodically updates the sample of producers providing data for the PPI to reflect current conditions more accurately when the structure, membership, technology, or product mix of an industry shifts. The first results of this systematic process were published in July 1986. Subsequent efforts have been completed at regular intervals.

For information on index additions, deletions, and recodes effective June 2023, see the current issue of the *PPI Detailed Report* online at www.bls.gov/ppi/detailed-report/ppi-detailed-report-june-2023.pdf, or contact the PPI Section of Index Analysis and Public Information at ppi-info@bls.gov or (202) 691-7705.

NAICS

<i>Code</i>	<i>Industry</i>
213118	Support activities for metal and nonmetallic minerals mining*
236221	New warehouse building construction
321215	Engineered wood member manufacturing
327310	Cement manufacturing
327410	Lime manufacturing
331318	Other aluminum rolling, drawing, and extruding
333120	Construction machinery manufacturing
333310	Commercial and service industry machinery manufacturing
337214	Office furniture, except wood, manufacturing
621512	Diagnostic imaging centers

* PPI-constructed NAICS code 213118 combines data formerly included under NAICS 213114 (Support activities for metal mining) and NAICS 213115 (Support activities for nonmetallic minerals, except fuels, mining).

Technical Note

Brief Explanation of Producer Price Indexes

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

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

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

Final Demand–Intermediate Demand Indexes

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Comparing the PPI with CPI

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

Commodity Indexes

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

Industry Net-Output Price Indexes

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

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

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

Data Collection

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

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

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

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

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

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

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

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

Weights

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

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

Price Index Reference Base

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

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

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

Calculating Index Changes

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

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

Index point change

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

Index percent change

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

Seasonally Adjusted and Unadjusted Data

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

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

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

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

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

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

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

Producer Price Index Data on the Internet

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

Retrieving PPI data from the PPI Web site

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

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

EXAMPLES

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

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

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

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

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

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

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

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

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

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

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

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

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

Additional information

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

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

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

Grouping	Commodity code		Relative Importance Dec. 2022 ¹	Unadjusted 12-month percent change ² June 2022 to June 2023 ^P	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			Jan. to Feb.	Feb. to Mar. ^P	Mar. to Apr. ^P	Apr. to May ^P	May to June ^P
Final Demand									
Final demand.....	FD	4	100.000	0.1	0.0	-0.4	0.1	-0.4	0.1
Final demand goods.....	FD	41	30.653	-4.4	-0.4	-1.1	0.1	-1.6	0.0
Final demand foods.....	FD	411	5.940	0.2	-2.3	0.2	-0.4	-1.4	-0.1
Finished consumer foods ³	FD	4111	4.511	2.2	-2.7	0.7	-0.5	-1.3	0.3
Finished consumer foods, crude.....	FD	41113	0.606	-2.3	-18.8	4.0	2.1	-16.3	2.1
Finished consumer foods, processed.....	FD	41112	3.905	2.0	-0.6	0.4	-0.8	0.3	0.1
Government purchased foods.....	FD	4112	0.406	0.0	-1.4	0.3	-1.0	-0.4	0.0
Foods for export.....	FD	4113	1.023	-8.7	-1.2	-1.9	0.1	-2.1	-1.8
Final demand energy.....	FD	412	5.853	-23.9	-0.8	-6.1	0.5	-6.8	0.7
Finished consumer energy goods ³	FD	4121	4.451	-20.6	0.0	-6.6	2.1	-6.6	1.2
Government purchased energy.....	FD	4122	0.942	-32.8	-3.2	-4.9	-4.6	-8.0	-0.9
Energy for export.....	FD	4123	0.460	-37.8	-3.8	-2.2	-5.2	-6.8	-1.8
Final demand goods less foods and energy.....	FD	413	18.859	2.0	0.3	0.2	0.2	0.1	-0.2
Finished goods less foods and energy ³	FD	4131	10.768	4.3	0.3	0.3	0.1	0.3	0.1
Finished consumer goods less foods and energy.....	FD	41311	5.731	4.1	0.4	0.3	0.0	0.3	0.0
Nondurable consumer goods less foods and energy.....	FD	413111	3.441	5.0	0.7	0.3	0.1	0.3	0.1
Durable consumer goods.....	FD	413112	2.290	2.7	0.1	0.2	-0.1	0.2	0.0
Private capital equipment.....	FD	41312	5.037	4.5	0.2	0.4	0.1	0.3	0.1
Private capital equipment for manufacturing industries.....	FD	413121	1.222	5.3	0.3	0.4	0.1	0.5	0.2
Private capital equipment for nonmanufacturing industries.....	FD	413122	3.815	4.2	0.2	0.4	0.1	0.3	0.1
Government purchased goods, excluding foods and energy.....	FD	4132	1.967	0.9	0.2	0.0	0.0	-0.1	-0.2
Government purchased goods excluding foods, energy, and capital equipment.....	FD	41321	1.160	0.1	0.2	-0.2	0.0	-0.3	-0.4
Government purchased capital equipment.....	FD	41322	0.807	2.0	0.2	0.3	0.0	0.1	0.2
Goods for export, excluding foods and energy.....	FD	4133	6.124	-1.5	0.4	0.1	0.4	-0.3	-0.6
Final demand services.....	FD	42	66.677	2.3	0.2	-0.1	0.0	0.2	0.2
Final demand trade services ⁴	FD	423	19.700	1.5	-0.2	-0.6	-0.2	0.7	0.2
Trade of finished goods ³	FD	4231	17.049	1.5	-0.1	-0.7	-0.2	0.7	0.3
Trade of personal consumption goods.....	FD	42311	13.855	2.5	0.0	-0.9	0.4	0.9	0.3
Trade of private capital equipment.....	FD	42312	3.194	-2.7	-0.5	0.3	-2.6	-0.2	0.2
Trade of government purchased goods.....	FD	4232	0.750	1.1	-0.3	-0.4	0.1	0.3	-0.4
Trade of government purchased goods, excluding capital equipment.....	FD	42321	0.457	2.3	-0.4	0.0	2.1	0.4	-0.7
Trade of government purchased capital equipment.....	FD	42322	0.293	-1.0	-0.2	-0.9	-3.3	0.1	0.0
Trade of exports.....	FD	4233	1.901	1.7	-0.7	0.5	-0.2	0.5	-0.2
Final demand transportation and warehousing services.....	FD	422	5.213	-7.7	-0.8	-0.7	-2.4	-0.5	-0.9
Transportation of passengers for final demand.....	FD	4221	1.275	-1.1	-1.2	1.3	-3.0	-0.8	1.1
Transportation of private passengers.....	FD	42211	0.860	-1.1	-1.2	1.3	-3.0	-0.8	1.1
Transportation of government passengers.....	FD	42212	0.103	-1.1	-1.2	1.3	-3.0	-0.8	1.1
Transportation of passengers for export.....	FD	42213	0.312	-1.1	-1.2	1.3	-3.1	-0.8	1.1
Transportation and warehousing of goods for final demand.....	FD	4222	3.938	-9.8	-0.7	-1.4	-2.2	-0.4	-1.6
Transportation and warehousing of finished goods ³	FD	42221	2.567	-10.6	-0.7	-1.4	-2.4	-0.4	-1.7
Transportation and warehousing of personal consumption goods.....	FD	422211	2.063	-10.3	-0.7	-1.4	-2.4	-0.4	-1.7
Transportation and warehousing of private capital equipment.....	FD	422212	0.504	-11.9	-0.8	-1.5	-2.6	-0.5	-1.9
Transportation and warehousing of government purchased goods.....	FD	42222	0.233	-7.6	-0.4	-1.2	-2.0	-0.6	-1.5
Transportation and warehousing of exports.....	FD	42223	1.138	-8.4	-0.5	-1.3	-1.9	-0.3	-1.4
Final demand services less trade, transportation, and warehousing.....	FD	421	41.763	3.9	0.4	0.2	0.4	0.0	0.3
Finished services less trade, transportation, and warehousing ³	FD	4211	36.505	3.7	0.4	0.3	0.4	0.0	0.4
Finished consumer services less trade, transportation, and warehousing.....	FD	42111	32.158	3.7	0.4	0.3	0.5	-0.1	0.3
Private capital investment services less trade, transportation, and warehousing.....	FD	42112	4.347	3.1	0.0	0.3	-0.1	0.5	0.5
Government purchased services less trade, transportation, and warehousing.....	FD	4212	2.674	3.5	0.2	0.0	0.6	0.0	0.3
Gov. purchased services less trade, transportation, and warehousing, excl. capital investment.....	FD	42121	2.515	3.6	0.2	0.0	0.7	0.0	0.3
Government purchased capital investment services less trade, transportation, and warehousing.....	FD	42122	0.159	1.8	0.6	0.0	-0.5	0.3	0.7
Services for export less trade, transportation, and warehousing.....	FD	4213	2.584	8.3	1.7	-0.8	0.8	0.5	0.2
Final demand construction.....	FD	43	2.670	10.3	0.0	0.1	-0.2	0.1	0.0
Construction for private capital investment.....	FD	431	1.856	10.9	0.0	0.1	-0.2	0.1	0.0
Construction for government.....	FD	432	0.814	9.1	0.1	0.2	-0.3	0.1	0.0
Special Groupings of Final Demand									
Final demand less exports.....	FD	49101	86.458	0.5	0.0	-0.4	0.1	-0.4	0.2
Final demand less government.....	FD	49102	92.111	0.4	0.0	-0.4	0.1	-0.3	0.2

See footnotes at end of table.

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

Grouping	Commodity code		Relative Importance Dec. 2022 ¹	Unadjusted 12-month percent change ² June 2022 to June 2023 ^P	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			Jan. to Feb.	Feb. to Mar. ^P	Mar. to Apr. ^P	Apr. to May ^P	May to June ^P
Final demand less foods, food and nonalcoholic beverages for immediate consumption, and energy ⁵	FD	49103	87.791	2.4	0.2	0.0	0.1	0.1	0.1
Final demand less foods and energy ⁵	FD	49104	88.207	2.4	0.2	0.0	0.1	0.1	0.1
Final demand less foods and food and nonalcoholic beverages for immediate consumption ⁵	FD	49105	93.644	0.0	0.1	-0.5	0.1	-0.4	0.1
Final demand less foods ⁵	FD	49106	94.060	0.1	0.1	-0.4	0.1	-0.3	0.2
Final demand less energy.....	FD	49107	94.147	2.3	0.0	0.0	0.0	0.0	0.1
Final demand less trade services.....	FD	49108	80.300	-0.3	0.0	-0.3	0.1	-0.6	0.1
Final demand less distributive services ⁶	FD	49109	76.362	0.2	0.0	-0.3	0.2	-0.6	0.2
Final demand goods less energy.....	FD	49111	24.799	1.5	-0.3	0.2	0.0	-0.3	-0.2
Final demand goods less foods.....	FD	49112	24.712	-5.3	0.0	-1.4	0.2	-1.6	0.0
Final demand services less trade services.....	FD	49113	46.976	2.6	0.3	0.1	0.1	-0.1	0.2
Final demand distributive services ⁶	FD	49114	23.638	-0.3	-0.3	-0.7	-0.5	0.5	-0.1
Final demand goods plus final demand distributive services ⁶	FD	49115	54.290	-2.8	-0.3	-0.9	-0.2	-0.7	0.0
Final demand less foods, energy, and trade services ⁵	FD	49116	68.507	2.6	0.3	0.1	0.1	0.0	0.1
Private and government purchased capital equipment.....	FD	49117	5.844	4.1	0.2	0.4	0.1	0.3	0.1
Private and government purchased capital investment services.....	FD	49118	8.497	0.0	-0.2	0.2	-1.3	0.2	0.2
Total private and government purchased capital investment.....	FD	49119	14.341	2.7	0.0	0.2	-0.6	0.2	0.2
Total finished ³	FD	49201	78.567	0.9	0.0	-0.4	0.1	-0.3	0.3
Total finished less foods, food and nonalcoholic beverages for immediate consumption, and energy ^{3, 5}	FD	49202	69.193	2.8	0.2	0.0	0.1	0.2	0.2
Total finished less foods and energy ^{3, 5}	FD	49203	69.605	2.8	0.2	0.0	0.1	0.2	0.2
Total finished less foods and food and nonalcoholic beverages for immediate consumption ^{3, 5}	FD	49204	73.644	0.7	0.1	-0.4	0.2	-0.3	0.3
Total finished less foods ^{3, 5}	FD	49205	74.056	0.8	0.2	-0.4	0.2	-0.3	0.3
Total finished less energy ³	FD	49206	74.116	2.8	0.0	0.1	0.0	0.1	0.2
Finished goods ³	FD	49207	19.730	-3.1	-0.4	-1.3	0.4	-1.7	0.4
Finished goods less energy ³	FD	49208	15.279	3.6	-0.5	0.4	-0.1	-0.2	0.1
Finished goods, excluding foods ^{3, 5}	FD	49209	15.219	-4.4	0.2	-1.9	0.7	-1.8	0.4
Finished services ³	FD	49210	56.981	2.3	0.1	-0.1	0.1	0.2	0.3
Private capital investment services.....	FD	49211	8.045	-0.1	-0.2	0.2	-1.2	0.2	0.2
Finished distributive services ^{3, 6}	FD	49212	19.616	0.0	-0.2	-0.8	-0.5	0.6	0.0
Finished services less trade services ³	FD	49213	39.932	2.6	0.3	0.2	0.2	-0.1	0.2
Finished services less distributive services ^{3, 6}	FD	49214	37.365	3.5	0.3	0.3	0.3	-0.1	0.4
Total private capital investment (goods, services, and construction).....	FD	49215	14.938	2.6	0.0	0.3	-0.7	0.2	0.2
Finished goods plus finished distributive services ^{3, 6}	FD	49216	39.346	-1.7	-0.3	-1.1	0.0	-0.6	0.2
Total exports.....	FD	49301	13.542	-2.0	0.1	-0.4	-0.1	-0.4	-0.5
Goods for export.....	FD	49302	7.607	-5.1	-0.1	-0.3	0.0	-0.9	-0.8
Services for export.....	FD	49303	5.935	2.4	0.4	-0.4	-0.3	0.3	-0.2
Total government purchases.....	FD	49401	7.889	-3.2	-0.4	-0.6	-0.5	-1.0	-0.1
Government purchased goods.....	FD	49402	3.315	-10.2	-1.0	-1.4	-1.4	-2.3	-0.3
Government purchased services.....	FD	49403	3.760	2.2	0.0	-0.1	0.2	0.0	0.1
Total government purchased capital investment (goods, services, construction).....	FD	49404	2.073	4.1	0.1	0.1	-0.6	0.1	0.1
Government purchases, defense.....	FD	49405	2.344	-5.3	-0.5	-0.5	-1.4	-1.2	0.1
Government purchases, non-defense.....	FD	49406	5.545	-2.4	-0.4	-0.7	-0.1	-0.9	-0.2
Personal consumption.....	FD	49501	63.629	0.5	0.0	-0.5	0.3	-0.4	0.3
Personal consumption goods (finished consumer goods).....	FD	49502	14.693	-5.6	-0.6	-1.9	0.5	-2.4	0.5
Personal consumption goods less energy.....	FD	49503	10.242	3.2	-0.9	0.5	-0.2	-0.4	0.1
Personal consumption goods less foods.....	FD	49504	10.182	-8.3	0.2	-2.9	1.0	-2.8	0.5
Personal consumption nondurable goods less foods.....	FD	49508	7.892	-10.7	0.3	-3.8	1.3	-3.7	0.7
Personal consumption services.....	FD	49505	48.936	2.7	0.2	-0.1	0.3	0.2	0.3
Personal consumption less trade services.....	FD	49506	49.774	-0.1	0.0	-0.4	0.3	-0.8	0.3
Personal consumption less distributive services ⁶	FD	49507	47.711	0.3	0.0	-0.4	0.4	-0.8	0.4
Personal consumption less foods and energy.....	FD	49510	54.667	2.9	0.2	-0.1	0.2	0.2	0.2
Personal consumption less foods, energy, and trade services ⁴	FD	49511	40.812	3.0	0.3	0.2	0.2	-0.1	0.2
Personal consumption less foods, energy, and distributive services ⁶	FD	49512	38.749	3.7	0.4	0.3	0.3	-0.1	0.3
Personal consumption goods plus personal consumption distributive services ⁶	FD	49509	30.611	-2.5	-0.4	-1.4	0.3	-0.8	0.2
Intermediate Demand by Commodity Type									
Processed goods									
Processed goods for intermediate demand.....	ID6	1	100.000	-9.4	-0.4	-1.0	-0.5	-1.5	-0.6
Materials and components for manufacturing.....	ID6	11	42.908	-6.3	0.0	-0.4	0.3	-0.2	-0.7
Materials for manufacturing.....	ID6	111	26.996	-10.8	-0.1	-0.8	0.3	-0.3	-1.2
Materials for food manufacturing.....	ID6	1111	4.432	-7.9	-2.3	0.0	-1.1	-2.5	-1.5
Materials for nondurable manufacturing.....	ID6	1112	12.302	-12.2	-0.2	-1.7	-0.1	-1.4	-1.8
Materials for durable manufacturing.....	ID6	1113	10.262	-10.2	1.0	-0.1	1.3	1.9	-0.4
Components for manufacturing.....	ID6	112	15.912	2.5	0.3	0.2	0.3	-0.1	0.0

See footnotes at end of table.

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

Grouping	Commodity code		Relative Importance Dec. 2022 ¹	Unadjusted 12-month percent change ² June 2022 to June 2023 ^P	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			Jan. to Feb.	Feb. to Mar. ^P	Mar. to Apr. ^P	Apr. to May ^P	May to June ^P
Components for nondurable manufacturing.....	ID6	1121	0.793	-0.8	0.1	-0.3	0.2	-0.3	-0.8
Components for durable manufacturing.....	ID6	1122	15.119	2.7	0.3	0.2	0.3	-0.1	0.1
Materials and components for construction.....	ID6	12	10.348	0.0	-0.1	0.4	0.1	-0.1	0.0
Materials for construction.....	ID6	121	4.574	-1.2	0.0	0.1	0.1	0.0	0.1
Components for construction.....	ID6	122	5.774	0.9	-0.2	0.6	0.1	-0.2	-0.2
Processed fuels and lubricants for intermediate demand.....	ID6	13	19.830	-27.9	-1.6	-3.9	-3.1	-6.9	-0.9
Processed fuels and lubricants to manufacturing industries.....	ID6	131	5.016	-20.2	-3.4	-0.7	-5.0	-4.4	-0.1
Processed fuels and lubricants to nonmanufacturing industries.....	ID6	132	14.814	-30.3	-1.0	-5.0	-2.5	-7.7	-1.1
Containers for intermediate demand.....	ID6	14	3.107	0.5	-0.3	-0.8	-0.2	0.4	-0.2
Supplies for intermediate demand.....	ID6	15	23.807	-0.1	-0.2	-0.1	-0.2	-0.4	-0.3
Supplies to manufacturing industries.....	ID6	151	3.173	0.0	0.1	0.0	0.0	-0.1	-0.3
Supplies to nonmanufacturing industries.....	ID6	152	20.634	-0.1	-0.2	-0.1	-0.2	-0.4	-0.3
Supplies to nonmanufacturing industries, feeds.....	ID6	1521	2.363	-6.1	-2.3	-1.3	-1.5	-2.6	-0.8
Supplies to nonmanufacturing industries, other than feeds.....	ID6	1522	18.271	0.6	0.1	0.1	0.0	-0.1	-0.2
Unprocessed goods									
Unprocessed goods for intermediate demand.....	ID6	2	100.000	-32.2	-4.9	-4.7	1.8	-5.0	-2.1
Unprocessed foodstuffs and feedstuffs.....	ID6	21	36.058	-13.6	-1.0	-0.7	-1.5	-4.6	0.9
Unprocessed nonfood materials.....	ID6	22	63.942	-40.5	-7.2	-7.2	4.0	-5.2	-3.9
Unprocessed nonfood materials except fuel.....	ID6	221	45.514	-29.1	1.8	-4.1	6.5	-6.4	-4.1
Unprocessed nonfood materials except fuel to manufacturing industries.....	ID6	2211	43.610	-30.5	1.9	-4.3	6.8	-6.7	-4.3
Unprocessed nonfood materials except fuel to nonmanufacturing industries.....	ID6	2212	1.904	-9.0	0.9	0.0	0.1	0.1	0.4
Unprocessed fuel.....	ID6	222	18.428	-67.8	-31.8	-20.0	-8.0	1.6	-2.9
Unprocessed fuel to manufacturing industries.....	ID6	2221	0.982	-28.7	-9.8	-7.9	1.6	1.6	0.5
Unprocessed fuel to nonmanufacturing industries.....	ID6	2222	17.446	-69.7	-33.3	-21.0	-8.9	1.6	-3.3
Services									
Services for intermediate demand.....	ID6	3	100.000	4.4	0.3	-0.3	0.7	0.3	0.0
Trade services for intermediate demand ⁴	ID6	33	18.127	1.4	-0.7	1.0	1.2	0.4	-0.1
Trade services for manufacturing industries.....	ID6	331	8.929	3.0	-0.8	2.0	1.0	0.3	-0.2
Trade services for nonmanufacturing industries.....	ID6	332	9.198	-0.2	-0.7	0.0	1.3	0.5	-0.1
Transportation and warehousing services for intermediate demand.....	ID6	32	14.516	-2.9	0.0	-0.9	-1.1	-0.6	-0.4
Transportation of passengers for intermediate demand.....	ID6	321	1.069	-1.1	-1.2	1.3	-3.0	-0.8	1.1
Transportation of passengers for manufacturing industries.....	ID6	3211	0.127	-1.1	-1.2	1.3	-3.1	-0.8	1.1
Transportation of passengers for nonmanufacturing industries.....	ID6	3212	0.942	-1.1	-1.2	1.3	-3.0	-0.8	1.1
Transportation and warehousing of goods for intermediate demand.....	ID6	322	13.447	-3.0	0.0	-1.1	-0.9	-0.5	-0.5
Transportation and warehousing of goods for manufacturing industries.....	ID6	3221	2.941	-6.6	-0.4	-1.1	-1.7	-0.3	-1.3
Transportation and warehousing of goods for nonmanufacturing industries.....	ID6	3222	10.506	-2.0	0.2	-1.1	-0.7	-0.6	-0.3
Services less trade, transportation, and warehousing for intermediate demand.....	ID6	31	67.357	7.2	0.7	-0.5	1.0	0.4	0.1
Services less trade, transportation, and warehousing for manufacturing industries.....	ID6	311	2.068	4.1	0.3	0.2	0.5	0.1	-0.2
Services less trade, transportation, and warehousing for nonmanufacturing industries.....	ID6	312	65.288	7.3	0.7	-0.6	1.0	0.4	0.1
Construction									
Construction for intermediate demand.....	ID6	4	100.000	2.5	0.2	0.4	0.1	1.4	0.1
Special Groupings of Intermediate Demand by Commodity Type									
Processed materials less foods and feeds.....	ID6	9111	90.968	-9.7	-0.2	-1.1	-0.5	-1.5	-0.5
Processed foods and feeds.....	ID6	9112	9.032	-6.0	-2.1	-0.2	-1.1	-2.1	-1.0
Processed energy goods.....	ID6	9113	19.830	-27.9	-1.6	-3.9	-3.1	-6.9	-0.9
Processed materials less energy.....	ID6	9118	80.170	-3.5	-0.1	-0.2	0.1	-0.2	-0.5
Processed materials less foods and energy.....	ID6	9115	71.138	-3.2	0.2	-0.2	0.3	0.0	-0.4
Intermediate distributive services ⁷	ID6	9116	31.574	-0.5	-0.4	0.1	0.3	0.0	-0.3
Processed goods plus intermediate distributive services.....	ID6	9117	-	-6.9	-0.4	-0.7	-0.3	-1.1	-0.5
Unprocessed materials less agricultural products.....	ID6	9211	58.389	-41.9	-7.7	-7.2	4.3	-5.2	-4.6
Unprocessed energy materials ⁸	ID6	9212	43.623	-50.9	-10.9	-11.1	5.7	-7.0	-5.0
Unprocessed materials less energy.....	ID6	9213	56.377	-13.6	-0.5	-0.8	-0.3	-3.9	-0.4
Unprocessed nonfood materials less energy ⁹	ID6	9216	20.319	-13.6	0.3	-0.9	1.7	-2.6	-2.4
Intermediate Demand by Production Flow									
Stage 4 Intermediate Demand									
Stage 4 intermediate demand.....	ID5	4	100.000	1.4	0.0	-0.2	0.3	-0.1	0.0
Inputs to stage 4 goods producers.....	ID5	41	30.237	-0.3	-0.1	0.3	0.0	0.0	-0.2
Goods.....	ID5	411	22.423	-1.6	0.0	-0.3	0.0	-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
[June 2023]

Grouping	Commodity code		Relative Importance Dec. 2022 ¹	Unadjusted 12-month percent change ² June 2022 to June 2023 ^P	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			Jan. to Feb.	Feb. to Mar. ^P	Mar. to Apr. ^P	Apr. to May ^P	May to June ^P
Foods.....	ID5	4111	3.300	-7.9	-1.2	-2.2	-0.3	-2.3	-0.3
Energy.....	ID5	4112	0.220	-24.3	-0.7	6.3	-14.4	-10.4	4.0
Goods excluding foods and energy.....	ID5	4113	18.903	-0.2	0.3	0.0	0.2	0.2	-0.1
Services.....	ID5	412	7.814	3.2	-0.6	2.2	0.0	0.8	-0.4
Trade services.....	ID5	4123	5.817	3.8	-0.9	3.0	0.0	1.1	-0.5
Transportation and warehousing services.....	ID5	4122	0.515	-5.5	-0.9	-0.6	-1.5	-0.7	-0.7
Transportation of passengers.....	ID5	41221	0.077	-1.1	-1.2	1.3	-3.1	-0.8	1.1
Transportation and warehousing of goods.....	ID5	41222	0.438	-6.3	-0.8	-1.0	-1.2	-0.6	-1.1
Services less trade, transportation, and warehousing.....	ID5	4121	1.482	4.2	0.5	-0.1	0.7	0.1	0.1
Inputs to stage 4 services producers.....	ID5	42	54.970	3.9	0.1	-0.6	0.5	0.0	0.0
Goods.....	ID5	421	13.984	-2.2	-0.5	-0.8	-0.7	-0.8	-0.1
Foods.....	ID5	4211	2.360	-5.5	-1.6	0.1	-1.4	-1.1	-0.1
Energy.....	ID5	4212	4.133	-7.8	-0.7	-2.8	-1.5	-1.9	-0.1
Goods excluding foods and energy.....	ID5	4213	7.491	1.9	0.1	0.1	-0.1	-0.1	0.0
Services.....	ID5	422	40.934	6.3	0.3	-0.5	1.0	0.3	0.1
Trade services.....	ID5	4223	4.078	3.3	-0.8	0.7	1.2	0.7	-0.3
Transportation and warehousing services.....	ID5	4222	3.742	1.0	0.4	-0.5	-0.8	-1.2	-0.3
Transportation of passengers.....	ID5	42221	0.490	-1.1	-1.2	1.3	-3.0	-0.8	1.1
Transportation and warehousing of goods.....	ID5	42222	3.252	1.4	0.6	-0.7	-0.4	-1.3	-0.5
Services less trade, transportation, and warehousing.....	ID5	4221	33.114	7.3	0.5	-0.6	1.1	0.4	0.1
Construction.....	ID5	423	0.052	2.5	0.2	0.4	0.1	1.4	0.1
Inputs to stage 4 construction producers.....	ID5	43	14.792	-3.6	0.0	-0.2	0.3	-0.9	0.1
Goods.....	ID5	431	10.801	-3.9	0.1	-0.4	0.3	-1.0	0.2
Energy.....	ID5	4312	0.855	-37.3	0.4	-7.7	2.9	-12.0	1.5
Goods excluding foods and energy.....	ID5	4313	9.946	0.8	0.1	0.3	0.1	0.0	0.1
Services.....	ID5	432	3.991	-2.7	-0.3	0.4	0.4	-0.6	0.0
Trade services.....	ID5	4323	1.692	-3.6	-0.6	1.4	1.2	-1.4	0.6
Transportation and warehousing services.....	ID5	4322	0.725	-11.1	-0.9	-1.4	-2.4	-0.6	-1.7
Transportation of passengers.....	ID5	43221	0.015	-1.1	-1.2	1.3	-3.1	-0.8	1.1
Transportation and warehousing of goods.....	ID5	43222	0.710	-11.4	-0.9	-1.4	-2.4	-0.6	-1.8
Services less trade, transportation, and warehousing.....	ID5	4321	1.574	3.6	0.3	0.1	0.7	0.2	0.1
Stage 3 Intermediate Demand									
Stage 3 intermediate demand.....	ID5	3	100.000	-7.5	-0.2	-0.7	-0.2	-1.3	-0.2
Inputs to stage 3 goods producers.....	ID5	31	45.352	-10.3	-0.2	-0.1	-0.4	-1.6	-0.1
Goods.....	ID5	311	35.807	-12.4	-0.2	-0.3	-0.6	-1.9	-0.1
Foods.....	ID5	3111	11.906	-16.1	-1.7	-0.2	-2.2	-5.6	1.2
Energy.....	ID5	3112	1.292	-36.4	-2.3	2.5	-7.0	-7.0	0.6
Goods excluding foods and energy.....	ID5	3113	22.609	-8.4	0.8	-0.6	0.6	0.2	-0.7
Services.....	ID5	312	9.545	-1.3	-0.4	0.7	0.4	-0.6	-0.2
Trade services.....	ID5	3123	5.175	1.5	-0.4	1.8	1.6	-0.9	0.3
Transportation and warehousing services.....	ID5	3122	3.002	-8.5	-0.8	-1.1	-2.1	-0.5	-1.3
Transportation of passengers.....	ID5	31221	0.144	-1.1	-1.2	1.3	-3.1	-0.8	1.1
Transportation and warehousing of goods.....	ID5	31222	2.858	-8.9	-0.7	-1.3	-2.1	-0.5	-1.5
Services less trade, transportation, and warehousing.....	ID5	3121	1.368	4.8	0.4	0.2	0.7	0.3	0.1
Inputs to stage 3 services producers.....	ID5	32	53.518	-4.7	-0.3	-1.2	0.0	-1.1	-0.3
Goods.....	ID5	321	10.628	-28.2	-2.2	-3.5	-3.2	-6.7	-1.1
Foods.....	ID5	3211	0.090	1.0	-1.7	-1.0	-2.6	0.4	-1.3
Energy.....	ID5	3212	6.619	-39.9	-3.4	-5.4	-5.1	-10.7	-1.6
Goods excluding foods and energy.....	ID5	3213	3.919	-0.4	0.1	-0.3	-0.1	-0.5	-0.3
Services.....	ID5	322	42.317	3.9	0.2	-0.7	0.8	0.2	-0.1
Trade services.....	ID5	3223	2.614	1.3	0.3	-1.2	2.6	-0.6	-0.4
Transportation and warehousing services.....	ID5	3222	10.018	-1.2	0.2	-1.1	-0.4	-0.5	0.0
Transportation of passengers.....	ID5	32221	0.021	-0.1	0.0	0.2	-0.3	0.0	-0.1
Transportation and warehousing of goods.....	ID5	32222	9.997	-1.2	0.2	-1.1	-0.4	-0.5	0.0
Services less trade, transportation, and warehousing.....	ID5	3221	29.685	5.9	0.2	-0.5	1.1	0.5	-0.2
Construction.....	ID5	323	0.573	2.5	0.2	0.4	0.1	1.4	0.1
Inputs to stage 3 construction producers.....	ID5	33	1.131	-7.1	-1.2	-0.1	-0.4	-0.2	0.8
Goods.....	ID5	331	0.566	-3.8	-0.2	-0.4	-0.2	-0.1	0.1
Goods excluding foods and energy.....	ID5	3313	0.566	-3.8	-0.2	-0.4	-0.2	-0.1	0.1
Services.....	ID5	332	0.565	-9.1	-2.1	0.2	-0.7	-0.3	1.5
Trade services.....	ID5	3323	0.521	-9.7	-2.3	0.3	-0.7	-0.3	1.7
Transportation and warehousing services.....	ID5	3322	0.015	-0.3	-0.3	-0.8	-0.1	-0.3	-0.3
Transportation and warehousing of goods.....	ID5	33222	0.015	-0.3	-0.3	-0.8	-0.1	-0.3	-0.3
Services less trade, transportation, and warehousing.....	ID5	3321	0.029	5.2	0.0	0.0	0.4	0.3	-0.1
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
 [June 2023]

Grouping	Commodity code		Relative Importance Dec. 2022 ¹	Unadjusted 12-month percent change ² June 2022 to June 2023 ^P	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			Jan. to Feb.	Feb. to Mar. ^P	Mar. to Apr. ^P	Apr. to May ^P	May to June ^P
Stage 2 intermediate demand.....	ID5	2	100.000	-13.4	-1.4	-2.5	1.2	-1.2	-1.4
Inputs to stage 2 goods producers.....	ID5	21	54.274	-26.6	-3.7	-4.1	1.9	-2.7	-2.7
Goods.....	ID5	211	40.812	-33.9	-5.1	-5.5	2.2	-4.0	-3.6
Foods.....	ID5	2111	4.355	-12.8	-0.8	-2.9	-0.4	-2.3	-3.2
Energy.....	ID5	2112	21.042	-51.7	-10.3	-11.0	4.7	-7.5	-5.2
Goods excluding foods and energy.....	ID5	2113	15.415	-8.4	0.3	-0.1	0.4	-0.8	-2.1
Services.....	ID5	212	13.197	5.1	0.3	-0.2	1.0	0.8	-0.7
Trade services.....	ID5	2123	5.150	4.2	-1.0	0.3	2.5	1.5	-1.1
Transportation and warehousing services.....	ID5	2122	4.488	1.1	0.5	-0.4	-0.8	0.0	-0.5
Transportation of passengers.....	ID5	21221	0.168	-1.0	-1.1	1.3	-2.9	-0.8	1.0
Transportation and warehousing of goods.....	ID5	21222	4.320	1.3	0.6	-0.4	-0.7	0.0	-0.6
Services less trade, transportation, and warehousing.....	ID5	2121	3.559	11.7	2.0	-0.7	1.0	0.6	-0.2
Construction.....	ID5	213	0.265	2.5	0.2	0.4	0.1	1.4	0.1
Inputs to stage 2 services producers.....	ID5	22	45.725	6.1	1.3	-0.8	0.6	0.4	-0.1
Goods.....	ID5	221	5.072	-4.4	-0.3	-0.6	-0.3	-1.1	-0.5
Foods.....	ID5	2211	0.055	-14.2	-2.2	-2.7	-0.9	-2.8	-1.9
Energy.....	ID5	2212	0.357	-38.5	-1.7	-6.8	-2.9	-11.9	-1.3
Goods excluding foods and energy.....	ID5	2213	4.660	-0.8	-0.1	0.0	-0.1	-0.2	-0.4
Services.....	ID5	222	39.767	7.9	1.5	-0.9	0.7	0.6	-0.1
Trade services.....	ID5	2223	2.238	5.3	-0.6	-3.5	0.6	3.7	-0.7
Transportation and warehousing services.....	ID5	2222	2.862	-11.3	-0.9	-2.3	-1.8	-0.8	0.9
Transportation of passengers.....	ID5	22221	0.390	-1.1	-1.2	1.3	-3.0	-0.8	1.1
Transportation and warehousing of goods.....	ID5	22222	2.472	-12.9	-0.8	-2.9	-1.5	-0.8	0.9
Services less trade, transportation, and warehousing.....	ID5	2221	34.667	9.8	1.8	-0.6	0.9	0.5	-0.1
Construction.....	ID5	223	0.886	2.5	0.2	0.4	0.1	1.4	0.1
Stage 1 Intermediate Demand									
Stage 1 intermediate demand.....	ID5	1	100.000	-4.7	-0.3	-0.4	-0.1	-0.9	-0.2
Inputs to stage 1 goods producers.....	ID5	11	33.533	-9.6	-0.2	-0.7	-0.3	-1.3	-0.6
Goods.....	ID5	111	24.780	-13.3	-0.1	-1.2	-0.8	-1.6	-1.0
Foods.....	ID5	1111	3.351	-14.6	-0.8	-4.4	-0.8	-3.2	-0.3
Energy.....	ID5	1112	3.963	-27.4	-1.6	-0.8	-7.3	-7.5	-0.2
Goods excluding foods and energy.....	ID5	1113	17.466	-9.7	0.3	-0.7	0.6	0.0	-1.3
Services.....	ID5	112	8.752	1.6	-0.4	0.7	1.2	-0.5	0.3
Trade services.....	ID5	1123	5.298	1.5	-0.9	1.3	1.8	-0.7	0.4
Transportation and warehousing services.....	ID5	1122	0.599	0.5	0.6	-1.2	-0.7	0.6	0.0
Transportation of passengers.....	ID5	11221	0.103	-1.1	-1.2	1.3	-3.1	-0.8	1.1
Transportation and warehousing of goods.....	ID5	11222	0.496	0.5	1.0	-1.7	-0.2	0.9	-0.3
Services less trade, transportation, and warehousing.....	ID5	1121	2.855	2.3	0.4	0.0	0.5	-0.3	0.2
Construction.....	ID5	113	0.001	2.5	0.2	0.4	0.1	1.4	0.1
Inputs to stage 1 services producers.....	ID5	12	53.646	-0.8	-0.3	-0.3	0.2	-0.7	0.0
Goods.....	ID5	121	16.434	-10.7	-0.8	-1.2	-0.7	-2.5	-0.7
Foods.....	ID5	1211	0.115	-34.4	-16.3	6.2	3.0	-26.6	-12.7
Energy.....	ID5	1212	5.528	-29.9	-2.1	-3.6	-2.6	-7.0	-1.9
Goods excluding foods and energy.....	ID5	1213	10.791	3.4	0.1	0.0	0.3	0.0	-0.1
Services.....	ID5	122	37.209	4.8	-0.1	0.0	0.6	0.1	0.3
Trade services.....	ID5	1223	3.617	2.3	0.1	0.3	1.0	0.3	0.0
Transportation and warehousing services.....	ID5	1222	4.373	-0.6	-0.4	-0.2	-1.5	-0.4	-0.1
Transportation of passengers.....	ID5	12221	1.342	-1.1	-1.2	1.3	-3.1	-0.8	1.1
Transportation and warehousing of goods.....	ID5	12222	3.031	-0.3	-0.1	-0.8	-0.8	-0.2	-0.6
Services less trade, transportation, and warehousing.....	ID5	1221	29.219	6.0	0.0	0.0	0.8	0.2	0.3
Construction.....	ID5	123	0.003	2.5	0.2	0.4	0.1	1.4	0.1
Inputs to stage 1 construction producers.....	ID5	13	12.821	-6.9	-0.8	0.0	-0.5	-1.1	0.0
Goods.....	ID5	131	9.208	-5.5	-0.4	-0.1	-0.4	-1.2	-0.3
Energy.....	ID5	1312	0.934	-45.5	-3.8	-3.8	-5.6	-13.0	-3.8
Goods excluding foods and energy.....	ID5	1313	8.274	1.4	0.0	0.3	0.1	0.0	0.0
Services.....	ID5	132	3.613	-9.4	-1.7	0.3	-0.7	-0.6	0.7
Trade services.....	ID5	1323	2.667	-7.8	-2.0	0.9	-0.2	-0.6	1.5
Transportation and warehousing services.....	ID5	1322	0.854	-13.0	-0.8	-1.7	-2.8	-0.4	-2.0
Transportation and warehousing of goods.....	ID5	13222	0.854	-13.0	-0.8	-1.7	-2.8	-0.4	-2.0
Services less trade, transportation, and warehousing.....	ID5	1321	0.092	6.6	-0.2	0.5	1.0	-0.2	0.0
Special Groupings of Intermediate Demand by Production Flow									
Total goods inputs to stage 4 intermediate demand.....	ID5	9411	47.208	-2.3	-0.1	-0.5	-0.2	-0.6	0.0
Total services inputs to stage 4 intermediate demand.....	ID5	9412	52.739	4.9	0.2	0.0	0.8	0.3	0.0
Total construction inputs to stage 4 intermediate demand.....	ID5	9413	0.052	2.5	0.2	0.4	0.1	1.4	0.1
Total foods inputs to stage 4 intermediate demand.....	ID5	9414	5.660	-6.9	-1.3	-1.2	-0.7	-1.8	-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
[June 2023]

Grouping	Commodity code		Relative Importance Dec. 2022 ¹	Unadjusted 12-month percent change ² June 2022 to June 2023 ^p	Seasonally adjusted 1-month percent change ²				
	Group code	Item code			Jan. to Feb.	Feb. to Mar. ^p	Mar. to Apr. ^p	Apr. to May ^p	May to June ^p
Total energy goods inputs to stage 4 intermediate demand.....	ID5	9415	5.208	-15.2	-0.5	-3.4	-1.3	-4.0	0.3
Total goods less foods and energy inputs to stage 4 intermediate demand.	ID5	9416	36.340	0.5	0.2	0.1	0.1	0.1	0.0
Total goods inputs to stage 3 intermediate demand.....	ID5	9311	47.001	-16.3	-0.6	-1.1	-1.2	-2.9	-0.3
Total services inputs to stage 3 intermediate demand.....	ID5	9312	52.427	2.5	0.1	-0.4	0.7	0.1	-0.1
Total construction inputs to stage 3 intermediate demand.....	ID5	9313	0.573	2.5	0.2	0.4	0.1	1.4	0.1
Total foods inputs to stage 3 intermediate demand.....	ID5	9314	11.996	-16.0	-1.7	-0.2	-2.2	-5.5	1.1
Total energy goods inputs to stage 3 intermediate demand.....	ID5	9315	7.911	-39.4	-3.2	-4.1	-5.4	-10.1	-1.2
Total goods less foods and energy inputs to stage 3 intermediate demand.	ID5	9316	27.094	-7.3	0.6	-0.5	0.5	0.1	-0.6
Total goods inputs to stage 2 intermediate demand.....	ID5	9211	45.884	-31.2	-4.6	-4.9	1.9	-3.7	-3.2
Total services inputs to stage 2 intermediate demand.....	ID5	9212	52.964	7.2	1.2	-0.7	0.8	0.6	-0.2
Total construction inputs to stage 2 intermediate demand.....	ID5	9213	1.151	2.5	0.2	0.4	0.1	1.4	0.1
Total foods inputs to stage 2 intermediate demand.....	ID5	9214	4.410	-12.8	-0.8	-2.9	-0.4	-2.3	-3.2
Total energy goods inputs to stage 2 intermediate demand.....	ID5	9215	21.399	-51.5	-10.2	-10.9	4.5	-7.6	-5.1
Total goods less foods and energy inputs to stage 2 intermediate demand.	ID5	9216	20.075	-6.8	0.2	-0.1	0.3	-0.6	-1.7
Total goods inputs to stage 1 intermediate demand.....	ID5	9111	50.422	-11.1	-0.4	-1.0	-0.7	-1.8	-0.8
Total services inputs to stage 1 intermediate demand.....	ID5	9112	49.574	2.8	-0.2	0.2	0.6	0.0	0.3
Total construction inputs to stage 1 intermediate demand.....	ID5	9117	0.004	2.5	0.2	0.4	0.1	1.4	0.1
Total foods inputs to stage 1 intermediate demand.....	ID5	9114	3.466	-15.2	-1.3	-4.1	-0.7	-4.0	-0.6
Total energy goods inputs to stage 1 intermediate demand.....	ID5	9115	10.425	-30.8	-2.1	-2.6	-4.6	-7.7	-1.4
Total goods less foods and energy inputs to stage 1 intermediate demand.	ID5	9116	36.531	-3.5	0.2	-0.2	0.4	0.0	-0.6

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
[June 2023]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		June 2022 to June 2023 ^P	Jan. to Feb.	Feb. to Mar. ^P	Mar. to Apr. ^P	Apr. to May ^P
Final Demand								
Final demand.....	FD	4	0.1	0.0	-0.4	0.1	-0.4	0.1
Final demand goods.....	FD	41	-4.4	-0.4	-1.1	0.1	-1.6	0.0
Final demand foods.....	FD	411	0.2	-2.3	0.2	-0.4	-1.4	-0.1
Fresh fruits and melons ²	01	11	4.6	-6.7	-3.2	2.4	-2.5	2.1
Fresh and dry vegetables ²	01	13	21.7	-13.7	-7.5	35.1	-15.8	-0.8
Grains.....	01	2	-20.3	0.8	-7.4	2.7	-5.5	2.0
Eggs for fresh use ²	01	7107	-37.8	-41.3	33.2	-35.8	-53.4	33.8
Oilseeds.....	01	8301	-20.6	0.6	-4.2	0.5	-1.2	-6.9
Bakery products ²	02	11	8.5	0.5	0.5	0.1	0.2	0.5
Milled rice ²	02	13	15.1	0.7	0.4	-0.3	-0.8	-0.5
Pasta products ²	02	1402	8.5	1.3	0.0	-8.4	0.0	0.0
Beef and veal.....	02	2101	14.8	-1.3	1.4	-3.1	0.7	4.0
Pork.....	02	2104	-8.3	-2.3	3.2	-6.5	-3.9	-0.6
Processed young chickens.....	02	2203	-21.7	-2.2	2.2	-1.3	-0.6	-0.4
Processed turkeys ²	02	2206	-29.2	-2.2	-10.7	-6.8	-8.9	-8.2
Finfish and shellfish.....	02	23	-2.5	0.2	0.6	-1.4	1.6	-2.2
Dairy products.....	02	3	-11.3	-2.0	-1.8	-0.2	-1.3	-2.0
Processed fruits and vegetables ²	02	4	14.1	1.0	0.7	0.2	1.4	0.1
Confectionery end products ²	02	55	5.3	0.4	0.2	0.3	0.3	1.6
Soft drinks ²	02	62	16.3	-0.8	0.0	-0.9	3.3	0.6
Roasted coffee ²	02	6301	5.9	-0.2	-0.4	0.3	0.2	-0.1
Shortening and cooking oils ²	02	78	-20.8	-2.4	-2.2	-0.8	-2.8	-2.1
Frozen specialty food ²	02	85	8.1	0.0	1.0	0.2	0.8	0.0
Final demand energy.....	FD	412	-23.9	-0.8	-6.1	0.5	-6.8	0.7
Liquefied petroleum gas ²	05	32	-65.3	1.4	-11.4	-9.9	-15.7	-8.1
Residential electric power.....	05	41	7.7	0.7	-1.1	-0.1	0.5	0.9
Residential natural gas.....	05	51	-13.1	-8.6	-7.3	-5.1	-1.3	-0.9
Gasoline.....	05	71	-36.4	2.8	-11.6	8.1	-13.6	3.4
Home heating oil and distillates.....	05	7302	-46.5	-17.7	-4.1	-7.8	-12.3	1.3
No. 2 diesel fuel.....	05	7303	-49.2	-4.6	-6.3	-3.6	-13.6	-6.0
Final demand goods less foods and energy.....	FD	413	2.0	0.3	0.2	0.2	0.1	-0.2
Alcoholic beverages.....	02	61	3.8	0.0	0.0	0.1	0.7	0.0
Pet food ²	02	9402	9.2	0.1	5.7	0.0	0.0	0.0
Women's, girls', and infants' apparel ²	03	8106	-1.0	-1.6	0.0	0.0	0.2	0.4
Men's and boys' apparel ²	03	8107	5.6	-0.2	0.1	0.0	2.3	0.0
Textile housefurnishings ²	03	82	2.7	0.0	0.2	-0.1	0.0	0.1
Footwear.....	04	3	8.5	0.8	-0.6	0.5	0.0	0.4
Industrial chemicals.....	06	1	-17.3	0.4	-2.8	-0.5	-2.2	-3.5
Pharmaceutical preparations.....	06	38	2.6	0.4	0.0	0.2	0.0	0.1
Soaps and detergents ²	06	71	12.3	0.4	0.1	0.1	0.0	-0.1
Cleaning and polishing products ²	06	72	4.4	1.3	0.2	0.3	0.0	0.1
Cosmetics and other toiletries ²	06	75	5.7	1.8	0.6	0.2	0.0	0.4
Tires ²	07	1201	8.2	0.0	0.0	0.3	-0.2	-0.3
Consumer, institutional, and commercial products, n.e.c. ²	07	2B	1.3	0.2	-0.3	0.2	0.1	0.0
Sanitary paper products ²	09	1501	8.0	0.4	0.0	0.0	0.3	-0.4
Iron and steel scrap.....	10	12	-20.6	11.1	3.1	5.6	-6.1	-10.8
Agricultural machinery and equipment.....	11	1	4.8	-0.2	0.3	0.4	0.4	0.0
Construction machinery and equipment ²	11	2	7.9	0.3	0.3	0.3	0.1	0.0
Metal cutting machine tools ²	11	37	3.8	1.1	0.1	0.0	0.5	0.0
Metal forming machine tools.....	11	38	5.4	-0.1	0.1	0.1	1.7	0.2
Tools, dies, jigs, fixtures, and industrial molds ²	11	39	4.4	0.1	0.1	0.2	0.1	0.8
Pumps, compressors, and equipment.....	11	41	9.1	-0.2	0.4	-0.1	1.2	0.4
Industrial material handling equipment ²	11	44	6.1	0.6	0.0	0.0	0.4	0.1
Electronic computers and computer equipment ²	11	5	-1.0	0.2	-0.1	-0.9	-1.0	-1.6
Textile machinery and equipment ²	11	62	-0.1	0.0	0.0	0.0	0.0	0.0
Paper industries machinery ²	11	64	8.5	0.0	0.4	0.1	0.5	2.0
Printing trades machinery and equipment ²	11	65	2.0	-0.1	0.2	0.3	0.5	-0.4
Transformers and power regulators ²	11	74	2.4	0.2	0.6	0.3	0.3	0.8
Communication and related equipment.....	11	76	2.8	-0.1	0.3	0.4	0.0	0.5
Electronic components and accessories.....	11	78	-0.2	0.1	0.0	-0.4	-1.2	0.3
X-ray and electromedical equipment ²	11	7905	3.0	0.0	0.0	0.0	0.3	0.0
Oil field and gas field machinery ²	11	91	7.0	0.0	0.3	0.3	0.0	0.0
Mining machinery and equipment ²	11	92	9.7	0.0	0.0	4.1	0.1	0.1
Internal combustion engines ²	11	94	5.9	0.0	0.0	0.3	-0.1	0.1

See footnotes at end of table.

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

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		June 2022 to June 2023 ^P	Jan. to Feb.	Feb. to Mar. ^P	Mar. to Apr. ^P	Apr. to May ^P
Household furniture ²	12	1	3.5	0.0	0.2	-0.3	-0.1	0.2
Commercial furniture ²	12	2	4.3	0.6	0.5	-0.2	0.4	-0.3
Floor coverings ²	12	3	2.8	0.1	-0.3	0.5	-0.2	-0.3
Household appliances ²	12	4	2.7	0.3	-0.4	0.2	1.7	0.1
Home electronic equipment ²	12	5	3.1	0.7	0.0	0.0	0.0	0.0
Lawn and garden equipment excl. garden tractors ²	12	66	4.2	0.1	0.0	0.3	0.0	-0.2
Passenger cars.....	14	1101	-1.7	0.2	-0.4	-0.8	-0.3	-0.7
Light motor trucks.....	14	1105	3.9	-0.1	0.5	-0.4	0.1	-0.1
Heavy motor trucks ²	14	1106	1.6	0.6	0.0	0.1	0.1	0.3
Motor vehicles parts ²	14	12	1.9	-0.1	0.3	0.2	0.1	0.0
Truck trailers ²	14	14	-0.5	-0.6	0.0	0.5	-0.2	0.0
Travel trailers and campers ²	14	16	2.1	0.0	0.1	0.0	0.0	0.0
Aircraft.....	14	21	4.4	0.4	0.6	0.5	0.5	0.3
Ships ²	14	31	1.3	-0.4	0.6	0.1	0.8	0.0
Railroad equipment ²	14	4	1.8	0.1	0.8	0.0	0.0	0.0
Toys, games, and children's vehicles ²	15	11	2.2	0.0	0.1	0.0	0.0	0.0
Sporting and athletic goods ²	15	12	6.1	1.3	-0.4	-0.3	0.4	0.0
Cigarettes ²	15	21	11.8	2.1	0.0	0.0	1.9	0.0
Mobile homes ²	15	5	-4.7	-0.6	-0.2	0.0	0.5	0.2
Medical, surgical & personal aid devices.....	15	6	3.6	0.0	0.3	-0.2	0.4	0.8
Jewelry, platinum and karat gold ²	15	9402	2.4	-2.0	0.9	1.5	1.1	-1.9
Costume jewelry and novelties ²	15	9404	8.3	0.9	0.0	1.1	0.9	0.0
Final demand services.....	FD	42	2.3	0.2	-0.1	0.0	0.2	0.2
Final demand trade services ³	FD	423	1.5	-0.2	-0.6	-0.2	0.7	0.2
Machinery and equipment parts and supplies wholesaling ²	57	1102	5.0	-1.3	5.3	-2.8	2.6	-0.6
Machinery and vehicle wholesaling ²	57	1103	-1.7	-0.4	-2.3	-3.6	0.0	-0.1
Professional and commercial equipment wholesaling ²	57	1104	4.3	0.9	5.0	-2.9	0.4	0.7
Furnishings wholesaling ²	57	2	2.4	-0.5	1.1	0.9	-4.9	-0.1
Chemicals and allied products wholesaling ²	57	5	7.2	-3.4	-2.4	3.1	0.5	1.7
Paper and plastics products wholesaling ²	57	6	3.0	0.5	0.5	0.4	0.2	0.5
Apparel wholesaling ²	57	7	4.8	4.5	-5.6	7.5	-6.1	-1.2
Food and alcohol wholesaling ²	57	8	5.7	-0.7	0.6	3.2	2.3	-2.3
Food and alcohol retailing.....	58	1	12.1	3.0	1.1	-1.0	1.5	2.3
Health, beauty, and optical goods retailing ²	58	2	6.4	0.6	-1.0	-0.6	1.6	0.7
Apparel, jewelry, footwear, and accessories retailing.....	58	3	1.6	-1.6	0.8	-4.1	4.5	-0.2
Computer hardware, software, and supplies retailing ²	58	4	-27.5	-15.1	2.2	-2.3	-0.6	-0.9
TV, video, and photographic equipment and supplies retailing.....	58	5	-20.7	-12.7	6.8	1.3	-8.7	-0.2
Automobiles retailing (partial).....	58	6101	-24.5	0.4	-0.8	-2.4	-1.2	1.2
Automotive parts, including tires, retailing ²	58	6102	2.7	-0.9	-1.9	-3.8	0.7	0.2
RVs, trailers, and campers retailing ²	58	8	-18.7	-4.1	9.1	-2.2	9.3	1.5
Sporting goods, including boats, retailing.....	58	9	-2.8	-0.5	-0.4	3.1	-2.9	-2.9
Lawn, garden, and farm equipment and supplies retailing ²	58	A	15.2	0.6	12.4	1.5	-2.1	1.1
Furniture retailing ²	58	B	2.2	5.8	-2.6	2.1	1.0	-0.7
Flooring and floor coverings retailing ²	58	C	-6.8	1.7	0.9	-0.1	-0.5	-1.5
Hardware, building materials, and supplies retailing.....	58	D	-17.1	-5.0	0.5	-2.5	0.5	3.6
Major household appliances retailing.....	58	E	-3.0	12.2	-8.4	3.3	-4.0	-1.3
Fuels and lubricants retailing.....	58	F	9.2	-1.0	-12.9	-1.1	12.2	-0.9
Cleaning supplies and paper products retailing ²	58	G	20.9	7.9	-0.1	6.0	-1.9	2.5
Book retailing ²	58	H	1.5	-4.3	-0.8	0.1	0.1	1.7
Final demand transportation and warehousing services.....	FD	422	-7.7	-0.8	-0.7	-2.4	-0.5	-0.9
Rail transportation of freight and mail ²	30	11	-0.4	-0.9	-0.2	-0.2	-0.9	-0.4
Truck transportation of freight ²	30	12	-13.7	-0.9	-1.6	-3.0	-0.5	-2.1
Air transportation of freight ²	30	14	-10.9	0.7	-2.8	0.3	-0.4	-1.3
Courier, messenger, and U.S. postal services.....	30	16	5.3	0.1	-0.4	0.1	0.1	0.0
Rail transportation of passengers.....	30	21	-0.1	0.1	0.1	-0.1	0.1	-0.2
Airline passenger services.....	30	22	-1.1	-1.2	1.3	-3.1	-0.8	1.1
Final demand services less trade, transportation, and warehousing.....	FD	421	3.9	0.4	0.2	0.4	0.0	0.3
Sales of books.....	33	11	7.8	0.2	0.2	1.1	0.3	0.5
Sales and subscriptions of periodicals and newspapers.....	33	12	1.8	0.5	-0.5	0.0	0.3	-0.3
Application software publishing ²	34	2	0.4	-0.7	0.5	-0.4	0.7	0.8
Advertising space sales in periodicals, newspapers, directories, and mailing lists ²	36	1	3.4	0.6	0.9	0.0	0.0	0.0
Residential wired telecommunication services ²	37	11	7.4	0.2	0.4	1.3	1.4	0.2
Wireless telecommunication services.....	37	2	1.0	0.2	0.1	0.1	-0.2	0.2
Cable and satellite subscriber services.....	37	3	12.6	-0.5	1.5	0.7	0.2	1.8
Internet access services ²	37	4	0.5	0.3	0.8	-0.1	-1.1	0.3

See footnotes at end of table.

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

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		June 2022 to June 2023 ^P	Jan. to Feb.	Feb. to Mar. ^P	Mar. to Apr. ^P	Apr. to May ^P
Bundled wired telecommunications access services ²	37	5	9.0	-0.4	1.3	0.0	-1.6	0.2
Consumer loans (partial).....	39	12	1.4	3.2	-4.7	3.0	-0.4	-2.7
Deposit services (partial) ²	39	2	23.2	-2.1	3.0	0.6	0.1	5.4
Other credit intermediation, incl. trust services (partial) ²	39	3	-3.4	1.7	0.0	0.2	1.3	0.0
Securities brokerage, dealing, investment advice, and related services ² ...	40	1	34.4	4.5	-0.3	-0.4	3.2	-0.4
Portfolio management ²	40	2	-4.9	-0.2	-3.9	4.0	-3.0	-0.3
Life insurance ²	41	1101	0.1	0.0	0.0	0.0	0.0	0.0
Disability insurance, including accidental death ²	41	1102	-0.3	0.0	0.0	0.0	0.0	0.0
Health and medical insurance.....	41	1103	3.0	0.3	0.2	0.2	0.1	0.2
Property and casualty insurance ²	41	1104	7.3	0.0	0.3	0.4	0.5	2.0
Annuities ²	41	2	-0.2	0.0	0.3	0.2	0.0	-0.1
Residential property sales and leases, brokerage fees and commissions..	43	21	3.0	-0.5	0.5	0.3	1.1	0.7
Passenger car rental.....	44	1	-8.4	-1.4	-1.0	2.5	-4.3	-3.0
Legal services.....	45	1	6.0	1.0	0.3	0.2	-0.2	0.3
Tax preparation and planning.....	45	2102	6.7	0.5	0.3	0.3	0.6	-0.9
Architectural and engineering services.....	45	3	3.3	0.4	0.0	0.7	0.2	0.2
Management, scientific, and technical consulting services.....	45	4	3.2	0.6	-2.2	2.5	0.2	0.1
Arrangement of flights (partial).....	47	1	4.8	1.0	0.7	0.2	0.1	-0.9
Arrangement of vehicle rentals and lodging ²	47	2	7.2	1.2	0.7	1.8	-1.2	-1.0
Arrangement of cruises and tours ²	47	3	7.8	-6.6	-1.9	1.9	1.9	5.0
Physician care.....	51	1101	0.8	0.2	0.1	0.1	0.1	0.1
Medical laboratory and diagnostic imaging care ²	51	1102	0.0	-0.1	0.0	0.0	0.0	0.0
Home health and hospice care.....	51	1103	4.5	0.4	0.4	1.0	0.1	0.1
Hospital outpatient care ²	51	1104	1.8	0.8	0.2	0.7	0.2	0.0
Dental care.....	51	1105	3.3	1.9	0.1	0.0	0.0	0.0
Hospital inpatient care.....	51	2101	4.5	0.2	0.6	0.3	0.3	0.6
Nursing home care.....	51	2102	6.4	0.8	0.5	0.2	0.1	-0.4
Traveler accommodation services.....	53	11	2.8	-3.1	6.2	1.0	-2.9	2.3
Food and beverages for immediate consumption services (partial) ²	54	1	2.1	0.6	0.1	0.4	0.0	0.0
Motor vehicle repair and maintenance (partial).....	55	2	5.3	0.0	1.0	0.4	0.4	0.0
Membership dues and admissions and recreation facility use fees (partial) ²	56	1	6.4	0.8	0.3	0.2	-1.7	0.1
Recreational activity instruction fees (partial) ²	56	2	0.3	0.0	0.0	0.0	0.1	0.0
Gaming receipts (partial) ²	56	3	1.8	0.6	0.4	-1.7	0.2	0.0
Mining services ²	60	1	4.0	0.5	1.1	-0.7	-0.3	-0.4
Final demand construction.....	FD	43	10.3	0.0	0.1	-0.2	0.1	0.0
New warehouse building construction ²	80	1101	7.9	-0.3	-0.2	-0.3	0.4	0.2
New school building construction ²	80	1102	10.8	0.0	0.2	-0.4	0.0	0.0
New office building construction ²	80	1103	13.2	0.1	0.2	0.2	0.1	-0.1
New industrial building construction ²	80	1104	9.7	0.2	0.2	-1.1	0.0	0.0
New health care building construction ²	80	1105	11.5	0.1	0.1	-0.4	0.0	-0.1
Intermediate Demand by Commodity Type								
Processed goods for intermediate demand.....	ID6	1	-9.4	-0.4	-1.0	-0.5	-1.5	-0.6
Processed foods and feeds.....	ID6	9112	-6.0	-2.1	-0.2	-1.1	-2.1	-1.0
Meats.....	02	21	5.1	-1.0	1.9	-3.2	-0.9	1.6
Processed poultry.....	02	22	-26.6	-3.6	1.0	-1.8	-2.6	-0.3
Dairy products.....	02	3	-11.3	-2.0	-1.8	-0.2	-1.3	-2.0
Processed fruits and vegetables ²	02	4	14.1	1.0	0.7	0.2	1.4	0.1
Refined sugar and byproducts ²	02	53	12.4	2.4	0.4	0.1	1.3	0.9
Fats and oils ²	02	7	-28.3	-6.1	-4.4	-5.1	-3.7	-6.0
Prepared animal feeds.....	02	9	-3.2	-1.9	0.0	-1.4	-1.9	-0.9
Processed materials less foods and feeds.....	ID6	9111	-9.7	-0.2	-1.1	-0.5	-1.5	-0.5
Synthetic fibers ²	03	1	2.5	-0.9	-0.3	0.0	-1.2	-0.8
Processed yarns and threads ²	03	2	-13.7	-0.2	-0.2	-1.0	-1.0	0.3
Finished fabrics ²	03	4	0.5	0.3	0.0	-0.1	-0.2	-0.1
Liquefied petroleum gas ²	05	32	-65.3	1.4	-11.4	-9.9	-15.7	-8.1
Commercial electric power.....	05	42	7.1	1.7	-2.7	-0.1	0.8	0.1
Industrial electric power.....	05	43	9.5	-3.8	-0.8	-1.6	2.2	0.7
Commercial natural gas.....	05	52	-23.6	-11.0	-9.9	-6.4	-6.0	-2.3
Industrial natural gas.....	05	53	-29.9	-10.5	-7.8	-6.9	-6.2	-1.6
Natural gas to electric utilities.....	05	54	-35.4	1.4	-6.3	-5.7	-10.6	-2.3
Gasoline.....	05	71	-36.4	2.8	-11.6	8.1	-13.6	3.4
Jet fuel ²	05	7203	-43.8	-5.3	-6.1	-12.7	-11.6	1.6
No. 2 diesel fuel.....	05	7303	-49.2	-4.6	-6.3	-3.6	-13.6	-6.0
Residual fuels ²	05	74	-42.1	-5.4	13.2	-1.0	11.2	-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
[June 2023]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		June 2022 to June 2023 ^P	Jan. to Feb.	Feb. to Mar. ^P	Mar. to Apr. ^P	Apr. to May ^P
Finished lubricants ²	05	76	9.0	0.3	0.1	-0.9	0.1	1.3
Lubricating oil base stocks ²	05	78	-34.7	3.3	-3.0	-2.0	-12.7	0.7
Asphalt.....	05	8102	-34.0	-2.9	3.3	9.7	4.6	0.5
Basic inorganic chemicals ²	06	13	3.3	-0.2	-0.4	-1.6	-1.2	-1.2
Basic organic chemicals.....	06	14	-20.5	0.6	-3.3	-0.3	-2.4	-4.1
Prepared paint ²	06	21	3.1	0.1	-0.2	0.2	0.2	0.0
Paint materials ²	06	22	10.3	-2.5	3.2	-0.5	1.9	0.7
Medicinal and botanical chemicals ²	06	31	1.1	-0.4	0.5	0.1	0.0	-0.2
Biological products, including diagnostics.....	06	37	5.0	1.0	0.4	0.8	-0.2	0.4
Fats and oils, inedible ²	06	4	-23.6	-5.4	-2.5	-3.1	-4.1	1.6
Nitrogenates.....	06	5201	-41.0	-12.1	-9.9	-9.0	-6.5	2.9
Phosphates.....	06	5202	-20.2	-2.5	-5.0	2.0	-4.7	0.2
Other agricultural chemicals ²	06	53	-9.7	1.2	0.0	-0.3	-0.3	0.6
Plastic resins and materials.....	06	6	-12.7	1.4	0.2	2.3	-0.8	-1.8
Industrial gases ²	06	7903	2.9	0.0	1.0	-0.8	1.2	0.0
Adhesives and sealants ²	06	7904	5.6	0.8	0.3	0.7	0.0	0.0
Synthetic rubber ²	07	1102	-10.0	1.7	-1.2	1.2	-1.0	-2.8
Tires ²	07	1201	8.2	0.0	0.0	0.3	-0.2	-0.3
Plastic construction products ²	07	21	-3.5	-1.1	0.1	-0.2	-0.7	-1.0
Unsupported plastic film, sheet, other shapes ²	07	22	-6.3	-0.2	-1.5	0.1	-0.4	-2.8
Parts for manufacturing from plastics ²	07	26	-1.3	-1.7	-0.1	-0.4	-0.6	-0.3
Plastic packaging products ²	07	2A	-2.0	-0.6	-0.2	0.0	0.3	-0.4
Softwood lumber.....	08	11	-20.8	-0.8	-4.1	6.2	-2.9	3.9
Hardwood lumber ²	08	12	-15.6	-1.7	-1.3	-0.8	1.0	-1.1
Millwork.....	08	2	-4.7	0.0	-0.8	-1.2	-0.6	-0.3
Plywood ²	08	3	-19.5	-1.6	-1.0	-0.3	-0.8	0.1
Paper ²	09	13	2.8	0.7	-0.4	0.7	-0.9	-0.4
Paperboard ²	09	14	-3.3	-1.0	-0.9	-0.9	-0.2	-0.6
Paper boxes and containers ²	09	1503	3.0	-0.3	-0.8	-0.5	0.7	-0.3
Building paper and board ²	09	2	-21.2	-0.8	0.8	2.1	6.1	0.4
Commercial printing ²	09	47	5.6	0.1	0.4	-0.3	0.0	0.0
Foundry and forge shop products ²	10	15	1.8	0.6	0.1	1.0	-0.2	-0.3
Steel mill products ²	10	17	-18.0	2.3	0.9	3.6	5.1	-0.6
Primary nonferrous metals ²	10	22	-4.5	1.5	-5.2	0.9	4.4	-0.3
Secondary nonferrous metals ²	10	24	-5.9	0.6	0.3	-0.4	-0.6	-2.8
Aluminum mill shapes ²	10	2501	-10.7	1.7	0.0	-1.8	0.6	-1.3
Copper and brass mill shapes ²	10	2502	-8.5	2.0	0.1	-0.9	-2.1	-3.1
Nonferrous wire and cable ²	10	26	-3.4	-2.8	-0.8	0.0	-1.8	-1.8
Nonferrous foundry shop products.....	10	28	4.2	0.9	-0.3	0.8	-0.2	-0.3
Metal containers ²	10	3	-3.4	-0.3	-0.3	0.2	0.3	-0.2
Hardware ²	10	4	4.1	0.1	0.2	0.0	0.0	0.2
Plumbing fixtures and brass fittings.....	10	5	2.3	-0.8	0.4	-0.6	0.7	0.3
Heating equipment ²	10	6	6.3	-0.1	1.1	0.3	-0.4	0.8
Fabricated structural metal products.....	10	7	-2.0	-0.3	0.4	0.2	-0.5	-0.7
Bolts, nuts, screws, rivets, and washers ²	10	81	7.5	1.7	0.3	0.4	0.3	0.6
Lighting fixtures ²	10	83	4.2	0.1	1.5	0.0	0.5	0.2
Fabricated ferrous wire products ²	10	88	-6.4	-2.9	-0.6	0.3	0.0	-0.9
Other miscellaneous metal products ²	10	89	3.7	0.9	-0.3	0.1	-0.1	0.4
Fluid power equipment.....	11	43	13.0	0.7	0.4	6.5	-0.1	0.4
Mechanical power transmission equipment ²	11	45	8.3	-0.1	0.0	0.2	0.1	0.2
Air conditioning and refrigeration equipment.....	11	48	5.0	0.1	1.7	0.0	0.6	-0.8
Metal valves, except fluid power.....	11	4902	7.3	-0.1	0.1	-0.1	1.3	0.1
Ball and roller bearings ²	11	4905	3.2	-0.1	2.3	-0.2	0.0	0.1
Wiring devices ²	11	71	12.3	0.5	0.5	0.2	0.0	0.7
Motors, generators, motor generator sets ²	11	73	7.0	1.4	0.0	0.5	0.0	0.0
Switchgear, switchboard, and industrial controls equip. ²	11	75	9.5	0.2	0.2	0.6	0.1	1.5
Electronic components and accessories.....	11	78	-0.2	0.1	0.0	-0.4	-1.2	0.3
Internal combustion engines ²	11	94	5.9	0.0	0.0	0.3	-0.1	0.1
Machine shop products ²	11	95	5.2	0.5	0.1	0.2	0.5	0.2
Flat glass ²	13	11	8.5	3.6	-0.1	-0.3	-0.6	0.7
Cement.....	13	22	13.3	1.3	0.7	-1.2	0.6	0.0
Concrete products.....	13	3	11.3	0.5	0.7	0.1	0.9	0.6
Asphalt felts and coatings ²	13	6	3.4	-0.2	0.1	1.8	0.5	1.6
Paving mixtures and blocks.....	13	94	1.6	1.9	1.2	-1.0	-1.9	-1.1
Motor vehicle parts ²	14	12	1.9	-0.1	0.3	0.2	0.1	0.0
Aircraft engines and engine parts.....	14	23	3.3	0.4	0.1	0.3	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
[June 2023]

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		June 2022 to June 2023 ^P	Jan. to Feb.	Feb. to Mar. ^P	Mar. to Apr. ^P	Apr. to May ^P
Aircraft parts and auxiliary equipment, n.e.c.....	14	25	5.4	1.9	1.0	0.0	0.1	0.0
Medical, surgical, and personal aid devices.....	15	6	3.6	0.0	0.3	-0.2	0.4	0.8
Unprocessed goods for intermediate demand.....	ID6	2	-32.2	-4.9	-4.7	1.8	-5.0	-2.1
Unprocessed foodstuffs and feedstuffs.....	ID6	21	-13.6	-1.0	-0.7	-1.5	-4.6	0.9
Wheat ²	01	21	-31.5	5.9	-9.3	4.0	-3.3	-3.9
Corn.....	01	2202	-18.4	-0.2	-7.5	2.4	-6.0	3.4
Slaughter cattle.....	01	31	26.0	-0.6	4.1	8.0	-0.5	6.0
Slaughter hogs.....	01	32	-12.3	-0.1	-3.3	-8.0	-4.9	12.2
Slaughter chickens.....	01	4102	-19.3	5.6	1.8	-0.1	-0.4	-0.6
Slaughter turkeys.....	01	42	-1.6	-2.7	-0.9	-2.4	-2.2	-11.6
Raw milk.....	01	6	-34.0	-5.3	-3.3	-3.8	-5.9	-7.0
Hay and hayseeds ²	01	81	-8.9	10.5	-5.0	-15.3	3.4	4.1
Oilseeds.....	01	8301	-20.6	0.6	-4.2	0.5	-1.2	-6.9
Raw cane sugar and byproducts ²	02	5201	19.6	1.3	2.3	-0.2	-2.5	6.8
Unprocessed nonfood materials.....	ID6	22	-40.5	-7.2	-7.2	4.0	-5.2	-3.9
Raw cotton ²	01	51	-43.4	-2.4	-5.1	-0.3	-3.2	0.5
Hides and skins.....	04	1	-6.1	0.3	4.9	3.0	4.7	-1.7
Coal.....	05	1	0.4	0.8	-4.0	4.2	1.6	1.3
Natural gas ²	05	31	-76.8	-38.7	-25.5	-13.4	1.6	-5.3
Crude petroleum ²	05	61	-42.6	3.3	-7.1	11.2	-10.0	-5.9
Logs, bolts, timber, pulpwood, and woodchips ²	08	5	-2.9	-0.9	-1.0	-0.7	0.0	0.6
Recyclable paper ²	09	12	-56.5	7.4	-0.4	6.3	4.0	-1.3
Iron ores ²	10	11	-7.2	1.0	-0.5	-1.3	-11.1	0.0
Iron and steel scrap.....	10	12	-20.6	11.1	3.1	5.6	-6.1	-10.8
Nonferrous metal ores ²	10	21	-6.0	-5.0	4.0	0.6	-1.4	-4.4
Copper base scrap ²	10	2301	-4.3	0.9	0.2	-0.3	-3.8	0.3
Aluminum base scrap.....	10	2302	-24.4	-1.7	-4.5	-1.4	4.0	-0.8
Construction sand, gravel, and crushed stone.....	13	21	8.5	0.9	-0.1	0.1	0.2	0.4
Services for intermediate demand.....	ID6	3	4.4	0.3	-0.3	0.7	0.3	0.0
Trade services for intermediate demand ³	ID6	33	1.4	-0.7	1.0	1.2	0.4	-0.1
Machinery and equipment parts and supplies wholesaling ²	57	1102	5.0	-1.3	5.3	-2.8	2.6	-0.6
Building materials, paint, and hardware wholesaling.....	57	3	-5.8	-1.6	-1.5	0.2	-1.5	0.6
Metals, minerals, and ores wholesaling ²	57	4	1.8	2.1	10.4	2.1	-4.4	1.3
Chemicals and allied products wholesaling ²	57	5	7.2	-3.4	-2.4	3.1	0.5	1.7
Paper and plastics products wholesaling ²	57	6	3.0	0.5	0.5	0.4	0.2	0.5
Food wholesaling ²	57	8101	5.5	-1.0	0.9	3.5	2.8	-2.5
Automotive parts, including tires, retailing ²	58	6102	2.7	-0.9	-1.9	-3.8	0.7	0.2
Hardware, building material, and supplies retailing.....	58	D	-17.1	-5.0	0.5	-2.5	0.5	3.6
Transportation and warehousing services for intermediate demand.....	ID6	32	-2.9	0.0	-0.9	-1.1	-0.6	-0.4
Rail transportation of freight and mail ²	30	11	-0.4	-0.9	-0.2	-0.2	-0.9	-0.4
Truck transportation of freight ²	30	12	-13.7	-0.9	-1.6	-3.0	-0.5	-2.1
Water transportation of freight ²	30	13	5.0	1.3	-1.8	-0.2	2.2	0.7
Air transportation of freight ²	30	14	-10.9	0.7	-2.8	0.3	-0.4	-1.3
U.S. Postal Service ²	30	1601	10.0	0.0	0.0	0.0	0.0	0.0
Courier and messenger services, except air mail.....	30	1602	3.7	0.3	-0.2	0.1	0.7	0.1
Air mail and package delivery services, excluding by USPS.....	30	1603	-1.3	-0.1	-1.4	0.0	-0.8	-0.4
Pipeline transportation ²	30	17	4.2	1.2	0.0	-1.1	0.2	-1.2
Transportation of passengers (partial).....	30	2	-1.1	-1.2	1.3	-3.0	-0.8	1.1
Services related to water transportation.....	31	1	2.2	0.3	-1.1	-0.1	1.4	-0.3
Arrangement of freight and cargo ²	31	31	-27.3	-2.1	-6.4	-4.1	-2.0	2.9
Warehousing, storage, and related services ²	32	1	6.0	2.9	-0.3	0.0	-3.8	-1.4
Services less trade, transportation, and warehousing for intermediate demand.....	ID6	31	7.2	0.7	-0.5	1.0	0.4	0.1
Network compensation from broadcast TV, cable TV, radio ²	35	-	1.1	-0.8	1.1	0.0	0.3	0.0
Advertising space sales in periodicals and newspapers ²	36	11	2.2	0.7	1.0	0.0	0.0	0.0
Advertising space sales in directories and mail lists ²	36	12	9.7	0.0	0.0	0.0	0.0	0.0
Television advertising time sales.....	36	2	-15.5	-7.6	-2.9	2.8	-1.2	-0.9
Radio advertising time sales.....	36	3	-8.3	10.7	-2.9	-1.2	6.1	-2.8
Internet advertising sales ²	36	6	-	0.0	0.0	0.0	0.0	0.0
Business wired telecommunication services ²	37	12	2.3	1.2	0.1	0.7	0.0	-0.6
Wireless telecommunication services.....	37	2	1.0	0.2	0.1	0.1	-0.2	0.2
Cable and satellite subscriber services.....	37	3	12.6	-0.5	1.5	0.7	0.2	1.8
Bundled wired telecommunication access services ²	37	5	9.0	-0.4	1.3	0.0	-1.6	0.2
Data processing and related services ²	38	1	1.4	0.4	0.3	-0.1	0.1	0.3
Business loans (partial).....	39	11	69.8	10.8	-5.8	2.7	3.4	-2.3

See footnotes at end of table.

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

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		June 2022 to June 2023 ^P	Jan. to Feb.	Feb. to Mar. ^P	Mar. to Apr. ^P	Apr. to May ^P
Deposit services (partial) ²	39	2	23.2	-2.1	3.0	0.6	0.1	5.4
Other credit intermediation, incl. trust services (partial) ²	39	3	-3.4	1.7	0.0	0.2	1.3	0.0
Securities brokerage, dealing, investment advice, and related services ²	40	1	34.4	4.5	-0.3	-0.4	3.2	-0.4
Portfolio management ²	40	2	-4.9	-0.2	-3.9	4.0	-3.0	-0.3
Investment banking ²	40	3	1.7	2.1	1.5	-0.8	1.4	-0.6
Life insurance ²	41	1101	0.1	0.0	0.0	0.0	0.0	0.0
Health and medical insurance.....	41	1103	3.0	0.3	0.2	0.2	0.1	0.2
Property and casualty insurance ²	41	1104	7.3	0.0	0.3	0.4	0.5	2.0
Annuities ²	41	2	-0.2	0.0	0.3	0.2	0.0	-0.1
Commissions from sales of insurance ²	42	1	0.8	-0.1	0.0	0.0	0.0	0.0
Nonresidential real estate rents ²	43	11	4.7	-4.2	-1.7	2.6	0.2	1.3
Nonresidential property sales and leases ²	43	12	-0.2	-1.1	-0.6	-0.8	-0.4	1.5
Residential property management fees ²	43	22	1.2	-0.5	-0.1	0.3	0.7	-0.2
Passenger car rental.....	44	1	-8.4	-1.4	-1.0	2.5	-4.3	-3.0
Truck, utility trailer, and RV rental and leasing ²	44	2	0.6	-0.6	0.7	0.2	-1.4	0.9
Construction, mining, and forestry machinery and equipment rental and leasing ²	44	3	5.8	0.0	-0.1	0.2	0.1	-0.1
Legal services.....	45	1	6.0	1.0	0.3	0.2	-0.2	0.3
Accounting services (partial).....	45	2	7.5	1.3	1.0	0.7	0.4	-0.3
Architectural and engineering services.....	45	3	3.3	0.4	0.0	0.7	0.2	0.2
Management, scientific, and technical consulting services.....	45	4	3.2	0.6	-2.2	2.5	0.2	0.1
Advertising and related services (partial) ²	45	5	0.8	0.3	0.2	0.0	0.0	-0.1
Permanent placement services ²	46	1	2.9	-2.5	1.2	2.4	0.1	-0.2
Executive search services ²	46	2	0.9	-0.7	0.2	-0.7	-0.8	-0.6
Staffing services.....	46	3	0.5	-0.2	0.5	0.8	0.1	-0.3
Security guard services ²	48	1	7.2	0.1	0.3	0.1	2.1	0.1
Janitorial services ²	49	1	2.5	-0.1	0.1	1.0	-0.3	0.3
Waste collection.....	50	1	12.5	1.6	1.1	1.1	0.7	0.5
Traveler accommodation services.....	53	11	2.8	-3.1	6.2	1.0	-2.9	2.3
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	7.8	-0.4	1.1	1.9	-0.4	0.1
Aircraft repair and maintenance.....	55	4	4.5	1.8	0.7	0.4	0.2	0.2
Metal treatment services ²	59	1	5.3	0.0	0.1	0.7	0.4	-0.1
Construction for intermediate demand.....	ID6	4	2.5	0.2	0.4	0.1	1.4	0.1
Maintenance and repair of non-residential buildings (partial) ²	80	2	2.5	0.2	0.4	0.1	1.4	0.1
Intermediate Demand by Production Flow								
Stage 4 intermediate demand.....	ID5	4	1.4	0.0	-0.2	0.3	-0.1	0.0
Stage 4 intermediate demand goods.....	ID5	9411	-2.3	-0.1	-0.5	-0.2	-0.6	0.0
Grains.....	01	2	-20.3	0.8	-7.4	2.7	-5.5	2.0
Meats.....	02	21	5.1	-1.0	1.9	-3.2	-0.9	1.6
Unprocessed and packaged fish.....	02	23	-2.5	0.2	0.6	-1.4	1.6	-2.2
Dairy products.....	02	3	-11.3	-2.0	-1.8	-0.2	-1.3	-2.0
Commercial electric power.....	05	42	7.1	1.7	-2.7	-0.1	0.8	0.1
Industrial electric power.....	05	43	9.5	-3.8	-0.8	-1.6	2.2	0.7
Gasoline.....	05	71	-36.4	2.8	-11.6	8.1	-13.6	3.4
No. 2 diesel fuel.....	05	7303	-49.2	-4.6	-6.3	-3.6	-13.6	-6.0
Basic organic chemicals.....	06	14	-20.5	0.6	-3.3	-0.3	-2.4	-4.1
Prepared paint ²	06	21	3.1	0.1	-0.2	0.2	0.2	0.0
Medicinal and botanical chemicals ²	06	31	1.1	-0.4	0.5	0.1	0.0	-0.2
Biological products, including diagnostics.....	06	37	5.0	1.0	0.4	0.8	-0.2	0.4
Pharmaceutical preparations.....	06	38	2.6	0.4	0.0	0.2	0.0	0.1
Plastic construction products ²	07	21	-3.5	-1.1	0.1	-0.2	-0.7	-1.0
Unsupported plastic film, sheet, and other shapes ²	07	22	-6.3	-0.2	-1.5	0.1	-0.4	-2.8
Parts for manufacturing from plastics ²	07	26	-1.3	-1.7	-0.1	-0.4	-0.6	-0.3
Plastic packaging products ²	07	2A	-2.0	-0.6	-0.2	0.0	0.3	-0.4
Lumber.....	08	1	-18.7	-1.2	-3.0	3.3	-1.4	1.9
Millwork.....	08	2	-4.7	0.0	-0.8	-1.2	-0.6	-0.3
Paper boxes and containers ²	09	1503	3.0	-0.3	-0.8	-0.5	0.7	-0.3
Commercial printing ²	09	47	5.6	0.1	0.4	-0.3	0.0	0.0
Steel mill products ²	10	17	-18.0	2.3	0.9	3.6	5.1	-0.6
Nonferrous wire and cable ²	10	26	-3.4	-2.8	-0.8	0.0	-1.8	-1.8
Fabricated structural metal products.....	10	7	-2.0	-0.3	0.4	0.2	-0.5	-0.7
Other miscellaneous metal products ²	10	89	3.7	0.9	-0.3	0.1	-0.1	0.4
Air conditioning and refrigeration equipment.....	11	48	5.0	0.1	1.7	0.0	0.6	-0.8
Wiring devices ²	11	71	12.3	0.5	0.5	0.2	0.0	0.7

See footnotes at end of table.

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

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		June 2022 to June 2023 ^P	Jan. to Feb.	Feb. to Mar. ^P	Mar. to Apr. ^P	Apr. to May ^P
Electronic components and accessories.....	11	78	-0.2	0.1	0.0	-0.4	-1.2	0.3
Miscellaneous electrical machinery and equipment ²	11	79	3.7	-0.3	0.0	0.0	0.2	0.1
Internal combustion engines ²	11	94	5.9	0.0	0.0	0.3	-0.1	0.1
Machine shop products ²	11	95	5.2	0.5	0.1	0.2	0.5	0.2
Concrete ingredients and related products.....	13	2	9.7	1.0	0.1	-0.3	0.3	0.3
Concrete products.....	13	3	11.3	0.5	0.7	0.1	0.9	0.6
Prepared asphalt, tar roofing and siding products ²	13	61	3.1	-0.3	0.1	2.3	0.5	1.9
Paving mixtures and blocks.....	13	94	1.6	1.9	1.2	-1.0	-1.9	-1.1
Motor vehicle parts ²	14	12	1.9	-0.1	0.3	0.2	0.1	0.0
Aircraft engines and engine parts.....	14	23	3.3	0.4	0.1	0.3	0.1	0.0
Aircraft parts and auxiliary equipment, n.e.c.....	14	25	5.4	1.9	1.0	0.0	0.1	0.0
Medical, surgical and personal aid devices.....	15	6	3.6	0.0	0.3	-0.2	0.4	0.8
Stage 4 intermediate demand services.....	ID5	9412	4.9	0.2	0.0	0.8	0.3	0.0
Truck transportation of freight ²	30	12	-13.7	-0.9	-1.6	-3.0	-0.5	-2.1
Courier, messenger, and U.S. postal services.....	30	16	5.3	0.1	-0.4	0.1	0.1	0.0
Airline passenger services.....	30	22	-1.1	-1.2	1.3	-3.1	-0.8	1.1
Warehousing, storage, and related services ²	32	1	6.0	2.9	-0.3	0.0	-3.8	-1.4
Advertising space sales in periodicals and newspapers ²	36	11	2.2	0.7	1.0	0.0	0.0	0.0
Data processing and related services ²	38	1	1.4	0.4	0.3	-0.1	0.1	0.3
Business loans (partial).....	39	11	69.8	10.8	-5.8	2.7	3.4	-2.3
Deposit services (partial) ²	39	2	23.2	-2.1	3.0	0.6	0.1	5.4
Securities brokerage, dealing, investment advice, and related services ²	40	1	34.4	4.5	-0.3	-0.4	3.2	-0.4
Portfolio management ²	40	2	-4.9	-0.2	-3.9	4.0	-3.0	-0.3
Investment banking ²	40	3	1.7	2.1	1.5	-0.8	1.4	-0.6
Insurance.....	41	11	4.4	0.1	0.2	0.3	0.2	0.9
Annuities ²	41	2	-0.2	0.0	0.3	0.2	0.0	-0.1
Nonresidential real estate rents ²	43	11	4.7	-4.2	-1.7	2.6	0.2	1.3
Nonresidential property sales and leases ²	43	12	-0.2	-1.1	-0.6	-0.8	-0.4	1.5
Nonresidential property management fees ²	43	13	5.8	2.0	-1.1	1.5	-0.1	0.2
Residential property management fees ²	43	22	1.2	-0.5	-0.1	0.3	0.7	-0.2
Construction, mining, and forestry machinery and equipment rental and leasing ²	44	3	5.8	0.0	-0.1	0.2	0.1	-0.1
Legal services.....	45	1	6.0	1.0	0.3	0.2	-0.2	0.3
Advertising agency services ²	45	51	0.8	0.3	0.2	0.0	0.0	-0.1
Accounting services (partial).....	45	2	7.5	1.3	1.0	0.7	0.4	-0.3
Architectural and engineering services.....	45	3	3.3	0.4	0.0	0.7	0.2	0.2
Management, scientific, and technical consulting services.....	45	4	3.2	0.6	-2.2	2.5	0.2	0.1
Staffing services.....	46	3	0.5	-0.2	0.5	0.8	0.1	-0.3
Janitorial services ²	49	1	2.5	-0.1	0.1	1.0	-0.3	0.3
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	7.8	-0.4	1.1	1.9	-0.4	0.1
Machinery and equipment parts and supplies wholesaling ²	57	1102	5.0	-1.3	5.3	-2.8	2.6	-0.6
Building materials, paint, and hardware wholesaling.....	57	3	-5.8	-1.6	-1.5	0.2	-1.5	0.6
Metals, minerals, and ores wholesaling ²	57	4	1.8	2.1	10.4	2.1	-4.4	1.3
Chemicals and allied products wholesaling ²	57	5	7.2	-3.4	-2.4	3.1	0.5	1.7
Paper and plastics products wholesaling ²	57	6	3.0	0.5	0.5	0.4	0.2	0.5
Food and alcohol wholesaling ²	57	8	5.7	-0.7	0.6	3.2	2.3	-2.3
Hardware and building materials and supplies retailing.....	58	D	-17.1	-5.0	0.5	-2.5	0.5	3.6
Metal treatment services ²	59	1	5.3	0.0	0.1	0.7	0.4	-0.1
Stage 3 intermediate demand.....	ID5	3	-7.5	-0.2	-0.7	-0.2	-1.3	-0.2
Stage 3 intermediate demand goods.....	ID5	9311	-16.3	-0.6	-1.1	-1.2	-2.9	-0.3
Slaughter cattle.....	01	31	26.0	-0.6	4.1	8.0	-0.5	6.0
Slaughter hogs.....	01	32	-12.3	-0.1	-3.3	-8.0	-4.9	12.2
Slaughter poultry.....	01	4	-15.9	4.0	1.3	-0.5	-0.7	-2.3
Raw milk.....	01	6	-34.0	-5.3	-3.3	-3.8	-5.9	-7.0
Commercial electric power.....	05	42	7.1	1.7	-2.7	-0.1	0.8	0.1
Industrial electric power.....	05	43	9.5	-3.8	-0.8	-1.6	2.2	0.7
Gasoline.....	05	71	-36.4	2.8	-11.6	8.1	-13.6	3.4
Jet fuel ²	05	7203	-43.8	-5.3	-6.1	-12.7	-11.6	1.6
No. 2 diesel fuel.....	05	7303	-49.2	-4.6	-6.3	-3.6	-13.6	-6.0
Finished lubricants ²	05	76	9.0	0.3	0.1	-0.9	0.1	1.3
Lubricating oil base stocks ²	05	78	-34.7	3.3	-3.0	-2.0	-12.7	0.7
Asphalt.....	05	8102	-34.0	-2.9	3.3	9.7	4.6	0.5
Basic inorganic chemicals ²	06	13	3.3	-0.2	-0.4	-1.6	-1.2	-1.2
Basic organic chemicals.....	06	14	-20.5	0.6	-3.3	-0.3	-2.4	-4.1
Paints and allied products ²	06	2	4.4	-0.3	0.5	0.1	0.5	0.1

See footnotes at end of table.

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

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		June 2022 to June 2023 ^P	Jan. to Feb.	Feb. to Mar. ^P	Mar. to Apr. ^P	Apr. to May ^P
Agricultural chemicals and chemical products.....	06	5	-19.3	-3.2	-4.1	-2.7	-2.5	0.1
Plastic resins and materials.....	06	6	-12.7	1.4	0.2	2.3	-0.8	-1.8
Synthetic rubber ²	07	1102	-10.0	1.7	-1.2	1.2	-1.0	-2.8
Unsupported plastic film, sheet, and other shapes ²	07	22	-6.3	-0.2	-1.5	0.1	-0.4	-2.8
Paper ²	09	13	2.8	0.7	-0.4	0.7	-0.9	-0.4
Paperboard ²	09	14	-3.3	-1.0	-0.9	-0.9	-0.2	-0.6
Converted paper and paperboard products ²	09	15	4.3	0.1	-0.5	0.0	0.3	-0.2
Commercial printing ²	09	47	5.6	0.1	0.4	-0.3	0.0	0.0
Foundry and forge shop products ²	10	15	1.8	0.6	0.1	1.0	-0.2	-0.3
Steel mill products ²	10	17	-18.0	2.3	0.9	3.6	5.1	-0.6
Nonferrous mill shapes ²	10	25	-7.6	1.6	0.1	-1.1	-0.2	-1.6
Nonferrous foundry shop products.....	10	28	4.2	0.9	-0.3	0.8	-0.2	-0.3
Metal containers ²	10	3	-3.4	-0.3	-0.3	0.2	0.3	-0.2
Structural, architectural, and pre-engineered metal products.....	10	74	-5.8	-0.4	0.5	0.4	-0.7	-1.4
Bolts, nuts, screws, rivets, and washers ²	10	81	7.5	1.7	0.3	0.4	0.3	0.6
Other miscellaneous metal products ²	10	89	3.7	0.9	-0.3	0.1	-0.1	0.4
General purpose machinery and equipment.....	11	4	7.3	0.2	0.6	0.9	0.5	-0.1
Electrical machinery and equipment.....	11	7	3.4	0.0	0.2	0.1	-0.3	0.5
Construction sand, gravel, and crushed stone.....	13	21	8.5	0.9	-0.1	0.1	0.2	0.4
Cement.....	13	22	13.3	1.3	0.7	-1.2	0.6	0.0
Motor vehicle parts ²	14	12	1.9	-0.1	0.3	0.2	0.1	0.0
Aircraft and aircraft equipment.....	14	2	4.4	0.7	0.6	0.4	0.4	0.2
Stage 3 intermediate demand services.....	ID5	9312	2.5	0.1	-0.4	0.7	0.1	-0.1
Rail transportation of freight and mail ²	30	11	-0.4	-0.9	-0.2	-0.2	-0.9	-0.4
Courier, messenger, and U.S. postal services.....	30	16	5.3	0.1	-0.4	0.1	0.1	0.0
Arrangement of freight and cargo ²	31	31	-27.3	-2.1	-6.4	-4.1	-2.0	2.9
Freight forwarding ²	31	3201	-1.8	-0.1	-0.2	0.5	0.0	0.0
Warehousing, storage, and related services ²	32	1	6.0	2.9	-0.3	0.0	-3.8	-1.4
Advertising space sales in periodicals, newspapers, directories, and mailing lists ²	36	1	3.4	0.6	0.9	0.0	0.0	0.0
Wired telephone services ²	37	1	3.7	0.7	0.2	0.8	0.5	-0.3
Bundled wired telecommunications access services ²	37	5	9.0	-0.4	1.3	0.0	-1.6	0.2
Data processing and related services ²	38	1	1.4	0.4	0.3	-0.1	0.1	0.3
Business loans (partial).....	39	11	69.8	10.8	-5.8	2.7	3.4	-2.3
Deposit services (partial) ²	39	2	23.2	-2.1	3.0	0.6	0.1	5.4
Securities brokerage, dealing, investment advice, and related services ²	40	1	34.4	4.5	-0.3	-0.4	3.2	-0.4
Insurance.....	41	11	4.4	0.1	0.2	0.3	0.2	0.9
Nonresidential real estate rents ²	43	11	4.7	-4.2	-1.7	2.6	0.2	1.3
Legal services.....	45	1	6.0	1.0	0.3	0.2	-0.2	0.3
Accounting services (partial).....	45	2	7.5	1.3	1.0	0.7	0.4	-0.3
Architectural and engineering services.....	45	3	3.3	0.4	0.0	0.7	0.2	0.2
Management, scientific, and technical consulting services.....	45	4	3.2	0.6	-2.2	2.5	0.2	0.1
Advertising agency services ²	45	51	0.8	0.3	0.2	0.0	0.0	-0.1
Staffing services.....	46	3	0.5	-0.2	0.5	0.8	0.1	-0.3
Aircraft repair maintenance.....	55	4	4.5	1.8	0.7	0.4	0.2	0.2
Machinery and equipment parts and supplies wholesaling ²	57	1102	5.0	-1.3	5.3	-2.8	2.6	-0.6
Building materials, paint, and hardware wholesaling.....	57	3	-5.8	-1.6	-1.5	0.2	-1.5	0.6
Metals, minerals, and ores wholesaling ²	57	4	1.8	2.1	10.4	2.1	-4.4	1.3
Chemicals and allied products wholesaling ²	57	5	7.2	-3.4	-2.4	3.1	0.5	1.7
Paper and plastics products wholesaling ²	57	6	3.0	0.5	0.5	0.4	0.2	0.5
Food wholesaling ²	57	8101	5.5	-1.0	0.9	3.5	2.8	-2.5
Metal treatment services ²	59	1	5.3	0.0	0.1	0.7	0.4	-0.1
Stage 2 intermediate demand.....	ID5	2	-13.4	-1.4	-2.5	1.2	-1.2	-1.4
Stage 2 intermediate demand goods.....	ID5	9211	-31.2	-4.6	-4.9	1.9	-3.7	-3.2
Corn.....	01	2202	-18.4	-0.2	-7.5	2.4	-6.0	3.4
Oilseeds.....	01	83	-20.6	0.6	-4.2	0.5	-1.2	-6.9
Prepared animal feeds.....	02	9	-3.2	-1.9	0.0	-1.4	-1.9	-0.9
Coal.....	05	1	0.4	0.8	-4.0	4.2	1.6	1.3
Natural gas ²	05	31	-76.8	-38.7	-25.5	-13.4	1.6	-5.3
Liquefied petroleum gas ²	05	32	-65.3	1.4	-11.4	-9.9	-15.7	-8.1
Crude petroleum ²	05	61	-42.6	3.3	-7.1	11.2	-10.0	-5.9
No. 2 diesel fuel.....	05	7303	-49.2	-4.6	-6.3	-3.6	-13.6	-6.0
Industrial chemicals.....	06	1	-17.3	0.4	-2.8	-0.5	-2.2	-3.5
Plastic resins and materials.....	06	6	-12.7	1.4	0.2	2.3	-0.8	-1.8
Plastic products ²	07	2	-1.9	-0.5	-0.3	0.1	-0.2	-0.7
Logs, bolts, timber, pulpwood, and wood chips ²	08	5	-2.9	-0.9	-1.0	-0.7	0.0	0.6

See footnotes at end of table.

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

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		June 2022 to June 2023 ^P	Jan. to Feb.	Feb. to Mar. ^P	Mar. to Apr. ^P	Apr. to May ^P
Paper ²	09	13	2.8	0.7	-0.4	0.7	-0.9	-0.4
Paperboard, excluding corrugated paperboard ²	09	1411	-1.9	-1.0	-0.1	-0.6	0.0	-0.7
Commercial printing ²	09	47	5.6	0.1	0.4	-0.3	0.0	0.0
Iron and steel scrap.....	10	12	-20.6	11.1	3.1	5.6	-6.1	-10.8
Steel mill products ²	10	17	-18.0	2.3	0.9	3.6	5.1	-0.6
Nonferrous mill shapes ²	10	25	-7.6	1.6	0.1	-1.1	-0.2	-1.6
Electrical machinery and equipment.....	11	7	3.4	0.0	0.2	0.1	-0.3	0.5
Electronic components and accessories.....	11	78	-0.2	0.1	0.0	-0.4	-1.2	0.3
Stage 2 intermediate demand services.....	ID5	9212	7.2	1.2	-0.7	0.8	0.6	-0.2
Rail transportation of freight and mail ²	30	11	-0.4	-0.9	-0.2	-0.2	-0.9	-0.4
Truck transportation of freight ²	30	12	-13.7	-0.9	-1.6	-3.0	-0.5	-2.1
U.S. Postal Service ²	30	1601	10.0	0.0	0.0	0.0	0.0	0.0
Courier and messenger services, except air.....	30	1602	3.7	0.3	-0.2	0.1	0.7	0.1
Air mail and package delivery services, excluding by USPS.....	30	1603	-1.3	-0.1	-1.4	0.0	-0.8	-0.4
Pipeline transportation ²	30	17	4.2	1.2	0.0	-1.1	0.2	-1.2
Airline passenger services.....	30	22	-1.1	-1.2	1.3	-3.1	-0.8	1.1
Arrangement of freight and cargo ²	31	31	-27.3	-2.1	-6.4	-4.1	-2.0	2.9
Television advertising time sales.....	36	21	-15.5	-7.6	-2.9	2.8	-1.2	-0.9
Wireless telecommunication services.....	37	2	1.0	0.2	0.1	0.1	-0.2	0.2
Data processing and related services ²	38	1	1.4	0.4	0.3	-0.1	0.1	0.3
Securities brokerage, dealing, investment advice, and related services ²	40	1	34.4	4.5	-0.3	-0.4	3.2	-0.4
Portfolio management ²	40	2	-4.9	-0.2	-3.9	4.0	-3.0	-0.3
Investment banking ²	40	31	1.7	2.1	1.5	-0.8	1.4	-0.6
Insurance.....	41	11	4.4	0.1	0.2	0.3	0.2	0.9
Commissions from sales of insurance ²	42	11	0.8	-0.1	0.0	0.0	0.0	0.0
Legal services.....	45	1	6.0	1.0	0.3	0.2	-0.2	0.3
Accounting services (partial).....	45	2	7.5	1.3	1.0	0.7	0.4	-0.3
Management, scientific, and technical consulting services.....	45	4	3.2	0.6	-2.2	2.5	0.2	0.1
Advertising agency services ²	45	51	0.8	0.3	0.2	0.0	0.0	-0.1
Staffing services.....	46	3	0.5	-0.2	0.5	0.8	0.1	-0.3
Security guard services ²	48	1	7.2	0.1	0.3	0.1	2.1	0.1
Janitorial services ²	49	1	2.5	-0.1	0.1	1.0	-0.3	0.3
Traveler accommodation services.....	53	1	2.8	-3.1	6.2	1.0	-2.9	2.3
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	7.8	-0.4	1.1	1.9	-0.4	0.1
Hardware and building materials and supplies retailing.....	58	D	-17.1	-5.0	0.5	-2.5	0.5	3.6
Stage 1 intermediate demand.....	ID5	1	-4.7	-0.3	-0.4	-0.1	-0.9	-0.2
Stage 1 intermediate demand goods.....	ID5	9111	-11.1	-0.4	-1.0	-0.7	-1.8	-0.8
Prepared animal feeds.....	02	9	-3.2	-1.9	0.0	-1.4	-1.9	-0.9
Commercial electric power.....	05	42	7.1	1.7	-2.7	-0.1	0.8	0.1
Industrial electric power.....	05	43	9.5	-3.8	-0.8	-1.6	2.2	0.7
Commercial natural gas.....	05	52	-23.6	-11.0	-9.9	-6.4	-6.0	-2.3
Industrial natural gas.....	05	53	-29.9	-10.5	-7.8	-6.9	-6.2	-1.6
Gasoline.....	05	71	-36.4	2.8	-11.6	8.1	-13.6	3.4
No. 2 diesel fuel.....	05	7303	-49.2	-4.6	-6.3	-3.6	-13.6	-6.0
Industrial chemicals.....	06	1	-17.3	0.4	-2.8	-0.5	-2.2	-3.5
Prepared paint ²	06	21	3.1	0.1	-0.2	0.2	0.2	0.0
Plastic construction products ²	07	21	-3.5	-1.1	0.1	-0.2	-0.7	-1.0
Recyclable paper ²	09	12	-56.5	7.4	-0.4	6.3	4.0	-1.3
Paper ²	09	13	2.8	0.7	-0.4	0.7	-0.9	-0.4
Converted paper and paperboard products ²	09	15	4.3	0.1	-0.5	0.0	0.3	-0.2
Iron and steel scrap.....	10	12	-20.6	11.1	3.1	5.6	-6.1	-10.8
Steel mill products ²	10	17	-18.0	2.3	0.9	3.6	5.1	-0.6
Primary nonferrous metals ²	10	22	-4.5	1.5	-5.2	0.9	4.4	-0.3
Nonferrous scrap.....	10	23	-14.5	-3.3	-2.6	-0.4	2.0	-3.4
Nonferrous wire and cable ²	10	26	-3.4	-2.8	-0.8	0.0	-1.8	-1.8
Fabricated structural metal products.....	10	7	-2.0	-0.3	0.4	0.2	-0.5	-0.7
General purpose machinery and equipment.....	11	4	7.3	0.2	0.6	0.9	0.5	-0.1
Construction sand, gravel, and crushed stone.....	13	21	8.5	0.9	-0.1	0.1	0.2	0.4
Stage 1 intermediate demand services.....	ID5	9112	2.8	-0.2	0.2	0.6	0.0	0.3
Truck transportation of freight ²	30	12	-13.7	-0.9	-1.6	-3.0	-0.5	-2.1
Airline passenger services.....	30	22	-1.1	-1.2	1.3	-3.1	-0.8	1.1
Advertising space sales in periodicals, newspapers, directories, and mailing lists ²	36	1	3.4	0.6	0.9	0.0	0.0	0.0
Business wired telecommunication services ²	37	12	2.3	1.2	0.1	0.7	0.0	-0.6
Wireless telecommunication services.....	37	2	1.0	0.2	0.1	0.1	-0.2	0.2

See footnotes at end of table.

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

Grouping	Commodity code		Unadjusted 12-month percent change ¹	Seasonally adjusted 1-month percent change ¹				
	Group code	Item code		June 2022 to June 2023 ^p	Jan. to Feb.	Feb. to Mar. ^p	Mar. to Apr. ^p	Apr. to May ^p
Bundled wired telecommunications access services ²	37	5	9.0	-0.4	1.3	0.0	-1.6	0.2
Business loans (partial).....	39	11	69.8	10.8	-5.8	2.7	3.4	-2.3
Deposit services (partial) ²	39	2	23.2	-2.1	3.0	0.6	0.1	5.4
Securities brokerage, dealing, investment advice, and related services ²	40	1	34.4	4.5	-0.3	-0.4	3.2	-0.4
Portfolio management ²	40	2	-4.9	-0.2	-3.9	4.0	-3.0	-0.3
Investment banking ²	40	3	1.7	2.1	1.5	-0.8	1.4	-0.6
Insurance.....	41	11	4.4	0.1	0.2	0.3	0.2	0.9
Nonresidential real estate rents ²	43	11	4.7	-4.2	-1.7	2.6	0.2	1.3
Architectural and engineering services.....	45	3	3.3	0.4	0.0	0.7	0.2	0.2
Management consulting services.....	45	41	3.2	0.6	-2.2	2.5	0.2	0.1
Waste collection.....	50	1	12.5	1.6	1.1	1.1	0.7	0.5
Traveler accommodation services.....	53	11	2.8	-3.1	6.2	1.0	-2.9	2.3
Commercial and industrial machinery and equipment repair and maintenance.....	55	1	7.8	-0.4	1.1	1.9	-0.4	0.1
Machinery and equipment parts and supplies wholesaling ²	57	1102	5.0	-1.3	5.3	-2.8	2.6	-0.6
Building materials, paint, and hardware wholesaling.....	57	3	-5.8	-1.6	-1.5	0.2	-1.5	0.6
Metals, minerals, and ores wholesaling ²	57	4	1.8	2.1	10.4	2.1	-4.4	1.3
Chemicals and allied products wholesaling ²	57	5	7.2	-3.4	-2.4	3.1	0.5	1.7
Paper and plastics products wholesaling ²	57	6	3.0	0.5	0.5	0.4	0.2	0.5
Hardware and building materials and supplies retailing.....	58	D	-17.1	-5.0	0.5	-2.5	0.5	3.6
Mining services ²	60	1	4.0	0.5	1.1	-0.7	-0.3	-0.4

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

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	Feb. 2023	Mar. 2023 ^p	Apr. 2023 ^p	May 2023 ^p	June 2023 ^p
Final Demand								
Final demand.....		FD	4	141.290	140.740	140.823	140.306	140.497
Final demand goods.....		FD	41	144.417	142.848	143.016	140.795	140.792
Final demand foods.....		FD	411	151.240	151.599	150.962	148.899	148.740
Finished consumer foods ²	00/82	FD	4111	265.132	267.078	265.761	262.315	262.997
Finished consumer foods, crude.....	00/82	FD	411113	283.424	294.729	300.788	251.849	257.155
Finished consumer foods, processed.....	00/82	FD	411112	262.238	263.284	261.269	262.174	262.413
Government purchased foods.....		FD	4112	152.243	152.729	151.199	150.597	150.540
Foods for export.....		FD	4113	157.955	154.878	155.101	151.890	149.205
Final demand energy.....		FD	412	152.341	143.118	143.860	134.057	134.963
Finished consumer energy goods ²	00/82	FD	4121	237.207	221.477	226.091	211.175	213.696
Government purchased energy.....		FD	4122	167.819	159.630	152.347	140.210	138.883
Energy for export.....		FD	4123	143.830	140.634	133.311	124.235	121.991
Final demand goods less foods and energy.....		FD	413	140.148	140.430	140.644	140.747	140.506
Finished goods less foods and energy ²	00/82	FD	4131	245.204	245.990	246.152	246.907	247.070
Finished consumer goods less foods and energy.....	00/82	FD	41311	273.073	273.790	273.893	274.663	274.755
Nondurable consumer goods less foods and energy.....	00/82	FD	413111	353.134	354.198	354.717	355.923	356.170
Durable consumer goods.....	00/82	FD	413112	190.733	191.122	190.876	191.241	191.200
Private capital equipment.....	00/82	FD	41312	210.013	210.825	211.032	211.741	211.960
Private capital equipment for manufacturing industries.....	00/82	FD	413121	224.472	225.346	225.556	226.602	226.993
Private capital equipment for nonmanufacturing industries.....	00/82	FD	413122	205.685	206.478	206.684	207.292	207.461
Government purchased goods, excluding foods and energy.....		FD	4132	136.543	136.524	136.525	136.372	136.166
Government purchased goods excluding foods, energy, and capital equipment.....		FD	41321	146.673	146.348	146.304	145.901	145.371
Government purchased capital equipment.....		FD	41322	121.882	122.230	122.286	122.435	122.620
Goods for export, excluding foods and energy.....		FD	4133	137.604	137.688	138.176	137.792	136.968
Final demand services.....		FD	42	138.648	138.531	138.592	138.816	139.099
Final demand trade services ³		FD	423	150.998	150.124	149.860	150.899	151.187
Trade of finished goods ²		FD	4231	149.845	148.786	148.521	149.616	150.000
Trade of personal consumption goods.....		FD	42311	149.950	148.544	149.077	150.489	150.898
Trade of private capital equipment.....		FD	42312	147.682	148.167	144.371	144.052	144.321
Trade of government purchased goods.....		FD	4232	158.121	157.559	157.672	158.084	157.470
Trade of government purchased goods, excluding capital equipment.....		FD	42321	162.312	162.241	165.728	166.355	165.267
Trade of government purchased capital equipment.....		FD	42322	150.343	149.053	144.123	144.210	144.278
Trade of exports.....		FD	4233	159.105	159.881	159.488	160.226	159.954
Final demand transportation and warehousing services.....		FD	422	154.394	153.327	149.575	148.801	147.408
Transportation of passengers for final demand.....		FD	4221	138.104	139.935	135.680	134.578	136.020
Transportation of private passengers.....		FD	42211	138.100	139.928	135.681	134.582	136.020
Transportation of government passengers.....		FD	42212	137.856	139.668	135.459	134.370	135.794
Transportation of passengers for export.....		FD	42213	138.129	139.975	135.684	134.572	136.029
Transportation and warehousing of goods for final demand.....		FD	4222	159.902	157.709	154.174	153.532	151.033
Transportation and warehousing of finished goods ²		FD	42221	158.389	156.126	152.359	151.691	149.050
Transportation and warehousing of personal consumption goods.....		FD	422211	158.733	156.504	152.799	152.148	149.548
Transportation and warehousing of private capital equipment.....		FD	422212	157.001	154.597	150.577	149.842	147.031
Transportation and warehousing of government purchased goods.....		FD	42222	157.921	156.049	152.971	151.989	149.645
Transportation and warehousing of exports.....		FD	42223	164.998	162.883	159.763	159.252	157.028
Final demand services less trade, transportation, and warehousing.....		FD	421	131.420	131.706	132.296	132.294	132.745
Finished services less trade, transportation, and warehousing ²		FD	4211	131.648	132.057	132.603	132.548	133.019
Finished consumer services less trade, transportation, and warehousing.....		FD	42111	130.995	131.399	132.039	131.888	132.329
Private capital investment services less trade, transportation, and warehousing.....		FD	42112	137.844	138.295	138.109	138.811	139.515
Government purchased services less trade, transportation, and warehousing.....		FD	4212	122.606	122.550	123.296	123.296	123.677
Gov. purchased services less trade, transportation, and warehousing, excl. capital investment.....		FD	42121	123.117	123.058	123.893	123.870	124.220
Government purchased capital investment services less trade, transportation, and warehousing.....		FD	42122	109.386	109.370	108.825	109.151	109.958
Services for export less trade, transportation, and warehousing.....		FD	4213	139.024	137.917	138.963	139.723	139.975
Final demand construction.....		FD	43	176.578	176.798	176.357	176.595	176.591
Construction for private capital investment.....		FD	431	180.876	181.045	180.600	180.842	180.849
Construction for government.....		FD	432	168.540	168.870	168.435	168.667	168.642
Final Demand Special Groupings								
Final demand less exports.....	04/10	FD	49101	138.813	138.264	138.383	137.873	138.203
Final demand less government.....	04/10	FD	49102	139.258	138.746	138.895	138.454	138.670
Final demand less foods, food and nonalcoholic beverages for immediate consumption, and energy ¹	04/10	FD	49103	138.559	138.520	138.603	138.773	138.906
Final demand less foods and energy ⁴	04/10	FD	49104	138.243	138.219	138.300	138.496	138.658
Final demand less foods and food and nonalcoholic beverages for immediate consumption ⁴	04/10	FD	49105	139.033	138.392	138.518	138.033	138.216

See footnotes at end of table.

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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	Feb. 2023	Mar. 2023 ^P	Apr. 2023 ^P	May 2023 ^P	June 2023 ^P
Final demand less foods ⁴	04/10	FD	49106	138.641	138.049	138.170	137.747	137.954
Final demand less energy.....	04/10	FD	49107	138.728	138.726	138.767	138.835	138.979
Final demand less trade services.....	01/10	FD	49108	137.404	136.932	137.089	136.238	136.405
Final demand less distributive services ⁵	01/10	FD	49109	136.605	136.205	136.521	135.660	135.939
Final demand goods less energy.....	01/10	FD	49111	141.069	141.366	141.393	141.025	140.804
Final demand goods less foods.....	04/10	FD	49112	139.865	137.928	138.260	136.055	136.085
Final demand services less trade services.....	04/10	FD	49113	132.419	132.576	132.754	132.679	132.956
Final demand distributive services ⁵	04/10	FD	49114	149.319	148.259	147.498	148.257	148.118
Final demand goods plus final demand distributive services ⁵	04/10	FD	49115	144.360	143.025	142.805	141.851	141.794
Final demand less foods, energy, and trade services ⁴	08/13	FD	49116	127.183	127.363	127.522	127.506	127.628
Private and government purchased capital equipment.....	08/13	FD	49117	126.621	127.093	127.209	127.598	127.739
Private and government purchased capital investment services.....	08/13	FD	49118	131.861	132.089	130.395	130.614	130.936
Total private and government purchased capital investment.....	08/13	FD	49119	133.115	133.426	132.571	132.851	133.064
Total finished ²	01/10	FD	49201	139.687	139.170	139.372	138.939	139.318
Total finished less foods, food and nonalcoholic beverages for immediate consumption, and energy ^{2, 4}	12/10	FD	49202	137.813	137.826	137.900	138.152	138.451
Total finished less foods and energy ^{2, 4}	01/10	FD	49203	138.646	138.660	138.737	138.989	139.287
Total finished less foods and food and nonalcoholic beverages for immediate consumption ^{2, 4}	12/10	FD	49204	137.810	137.205	137.455	137.106	137.483
Total finished less foods ^{2, 4}	01/10	FD	49205	139.191	138.586	138.839	138.488	138.867
Total finished less energy ²	01/10	FD	49206	139.213	139.286	139.318	139.450	139.753
Finished goods ²	00/82	FD	49207	256.727	253.356	254.410	250.113	251.020
Finished goods less energy ²	00/82	FD	49208	249.717	250.814	250.576	250.193	250.496
Finished goods, excluding foods ^{2, 4}	00/82	FD	49209	253.851	249.088	250.763	246.254	247.219
Finished services ²	01/10	FD	49210	137.066	136.996	137.082	137.300	137.644
Private capital investment services.....	04/10	FD	49211	141.881	142.183	140.438	140.676	141.018
Finished distributive services ^{2, 5}	04/10	FD	49212	147.786	146.604	145.923	146.784	146.804
Finished services less trade services ²	04/10	FD	49213	132.112	132.409	132.626	132.518	132.846
Finished services less distributive services ^{2, 5}	04/10	FD	49214	130.930	131.367	131.804	131.726	132.216
Total private capital investment (goods, services, and construction).....	04/10	FD	49215	140.981	141.343	140.423	140.734	140.968
Finished goods plus finished distributive services ²	04/10	FD	49216	145.359	143.815	143.792	142.965	143.238
Total exports.....	04/10	FD	49301	140.334	139.839	139.683	139.180	138.448
Goods for export.....	00/82	FD	49302	235.348	234.552	234.565	232.530	230.646
Services for export.....	04/10	FD	49303	149.205	148.651	148.262	148.692	148.442
Total government purchases.....	04/10	FD	49401	137.124	136.246	135.557	134.269	134.139
Government purchased goods.....	00/82	FD	49402	237.741	234.397	231.075	225.744	224.968
Government purchased services.....	04/10	FD	49403	130.904	130.723	131.045	131.033	131.149
Total government purchased capital investment (goods, services, construction).....	08/13	FD	49404	131.390	131.484	130.739	130.914	131.067
Government purchases, defense.....	05/15	FD	49405	123.730	123.098	121.345	119.943	120.085
Government purchases, non-defense.....	05/15	FD	49406	131.656	130.692	130.599	129.482	129.241
Personal consumption.....	01/10	FD	49501	139.309	138.591	139.049	138.447	138.859
Personal consumption goods (finished consumer goods).....	00/82	FD	49502	276.599	271.396	272.819	266.331	267.539
Personal consumption goods less energy.....	00/82	FD	49503	270.198	271.455	270.936	269.861	270.211
Personal consumption goods less foods.....	00/82	FD	49504	279.533	271.322	273.903	266.166	267.590
Personal consumption nondurable goods less foods.....	00/82	FD	49508	318.431	306.377	310.220	298.863	300.943
Personal consumption services.....	04/10	FD	49505	135.809	135.681	136.050	136.264	136.606
Personal consumption less trade services.....	04/10	FD	49506	136.069	135.525	135.963	134.863	135.273
Personal consumption less distributive services ⁵	04/10	FD	49507	135.487	135.002	135.588	134.469	134.986
Personal consumption less foods and energy.....	04/14	FD	49510	127.317	127.245	127.560	127.777	128.068
Personal consumption less foods, energy, and trade services ³	04/14	FD	49511	123.976	124.273	124.535	124.425	124.690
Personal consumption less foods, energy, and distributive services ⁵	04/14	FD	49512	123.551	123.952	124.374	124.285	124.666
Personal consumption goods plus personal consumption distributive services ⁵	08/13	FD	49509	134.332	132.413	132.760	131.748	132.058
Intermediate Demand by Commodity Type								
Processed goods								
Processed goods for intermediate demand.....	00/82	ID6	1	263.476	260.851	259.458	255.468	254.013
Materials and components for manufacturing.....	00/82	ID6	11	237.049	236.039	236.740	236.197	234.442
Materials for manufacturing.....		ID6	111	149.115	147.944	148.354	147.889	146.124
Materials for food manufacturing.....	00/82	ID6	1111	254.864	254.812	252.074	245.850	242.241
Materials for nondurable manufacturing.....	00/82	ID6	1112	279.031	274.419	274.011	270.068	265.242
Materials for durable manufacturing.....	00/82	ID6	1113	281.647	281.446	285.245	290.609	289.388
Components for manufacturing.....	00/82	ID6	112	186.876	187.211	187.827	187.660	187.672
Components for nondurable manufacturing.....		ID6	1121	147.547	147.044	147.345	146.935	145.692
Components for durable manufacturing.....		ID6	1122	131.787	132.059	132.502	132.396	132.463
Materials and components for construction.....	00/82	ID6	12	349.103	350.456	350.833	350.602	350.455
Materials for construction.....		ID6	121	165.579	165.717	165.916	165.993	166.233
Components for construction.....		ID6	122	177.848	178.964	179.140	178.863	178.526
Processed fuels and lubricants for intermediate demand.....	00/82	ID6	13	270.047	259.403	251.365	233.971	231.926
Processed fuels and lubricants to manufacturing industries.....	00/82	ID6	131	270.092	268.140	254.764	243.500	243.143

See footnotes at end of table.

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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	Feb. 2023	Mar. 2023 ^P	Apr. 2023 ^P	May 2023 ^P	June 2023 ^P
Processed fuels and lubricants to nonmanufacturing industries.....	00/82	ID6	132	270.352	256.943	250.585	231.230	228.644
Containers for intermediate demand.....	00/82	ID6	14	313.618	311.026	310.368	311.470	310.963
Supplies for intermediate demand.....	00/82	ID6	15	253.107	252.961	252.510	251.574	250.811
Supplies to manufacturing industries.....	00/82	ID6	151	247.470	247.547	247.465	247.322	246.612
Supplies to nonmanufacturing industries.....	00/82	ID6	152	251.973	251.793	251.289	250.237	249.473
Supplies to nonmanufacturing industries, feeds.....	00/82	ID6	1521	248.299	245.063	241.370	235.078	233.218
Supplies to nonmanufacturing industries, other than feeds.....	00/82	ID6	1522	254.478	254.694	254.600	254.220	253.599
Unprocessed goods								
Unprocessed goods for intermediate demand.....	00/82	ID6	2	268.293	255.657	260.271	247.268	242.194
Unprocessed foodstuffs and feedstuffs.....	00/82	ID6	21	238.686	237.096	233.507	222.699	224.607
Unprocessed nonfood materials.....	00/82	ID6	22	278.144	257.997	268.397	254.362	244.413
Unprocessed nonfood materials except fuel.....	00/82	ID6	221	336.260	322.363	343.232	321.153	307.954
Unprocessed nonfood materials except fuel to manufacturing industries.....	00/82	ID6	2211	311.562	298.065	318.309	296.854	283.984
Unprocessed nonfood materials except fuel to nonmanufacturing industries.....	00/82	ID6	2212	345.782	345.850	346.280	346.714	347.994
Unprocessed fuel.....	00/82	ID6	222	154.971	123.973	114.083	115.927	112.598
Unprocessed fuel to manufacturing industries.....	00/82	ID6	2221	237.722	218.889	222.445	226.036	227.186
Unprocessed fuel to nonmanufacturing industries.....	00/82	ID6	2222	154.728	122.160	111.230	113.029	109.352
Services								
Services for intermediate demand.....		ID6	3	144.760	144.300	145.373	145.771	145.713
Trade services for intermediate demand ⁵		ID6	33	168.779	170.434	172.410	173.117	172.907
Trade services for manufacturing industries.....	12/12	ID6	331	154.977	158.110	159.704	160.237	159.962
Trade services for nonmanufacturing industries.....	12/12	ID6	332	149.452	149.380	151.340	152.077	151.968
Transportation and warehousing services for intermediate demand.....		ID6	32	157.810	156.380	154.662	153.790	153.148
Transportation of passengers for intermediate demand.....		ID6	321	137.918	139.730	135.522	134.434	135.857
Transportation of passengers for manufacturing industries.....		ID6	3211	138.104	139.949	135.661	134.550	136.005
Transportation of passengers for nonmanufacturing industries.....		ID6	3212	137.957	139.765	135.567	134.481	135.900
Transportation and warehousing of goods for intermediate demand.....		ID6	322	159.997	158.262	156.773	155.919	155.082
Transportation and warehousing of goods for manufacturing industries.....	12/12	ID6	3221	133.651	132.226	129.973	129.544	127.852
Transportation and warehousing of goods for nonmanufacturing industries.....	12/12	ID6	3222	142.723	141.168	140.132	139.288	138.829
Services less trade, transportation, and warehousing for intermediate demand.....		ID6	31	135.829	135.101	136.483	137.044	137.127
Services less trade, transportation, and warehousing for manufacturing industries.....		ID6	311	126.907	127.152	127.826	127.968	127.757
Services less trade, transportation, and warehousing for nonmanufacturing industries.....		ID6	312	136.115	135.354	136.759	137.335	137.428
Construction								
Construction for intermediate demand.....		ID6	4	142.751	143.359	143.442	145.397	145.579
Intermediate Demand by Commodity Type Special Groupings								
Processed materials less foods and feeds.....	00/82	ID6	9111	264.856	262.020	260.772	256.916	255.565
Processed foods and feeds.....	00/82	ID6	9112	250.245	249.691	246.882	241.580	239.120
Processed energy goods.....	00/82	ID6	9113	271.301	260.607	252.531	235.057	232.999
Processed materials less energy.....	00/82	ID6	9118	258.369	257.783	258.070	257.483	256.198
Processed materials less foods and energy.....	00/82	ID6	9115	258.918	258.329	259.015	259.037	257.908
Intermediate distributive services ⁶	04/10	ID6	9116	162.559	162.720	163.164	163.184	162.705
Processed goods plus intermediate distributive services.....	04/10	ID6	9117	148.439	147.441	147.008	145.430	144.723
Unprocessed materials less agricultural products.....	00/82	ID6	9211	278.500	258.384	269.528	255.408	243.568
Unprocessed energy materials ⁷	00/82	ID6	9212	213.987	190.329	201.240	187.141	177.745
Unprocessed materials less energy.....	00/82	ID6	9213	294.570	292.355	291.571	280.332	279.171
Unprocessed nonfood materials less energy ⁸	00/82	ID6	9216	460.923	456.817	464.789	452.554	441.821
Intermediate Demand by Production Flow								
Stage 4 Intermediate Demand								
Stage 4 intermediate demand.....		ID5	4	147.810	147.450	147.945	147.789	147.770
Inputs to stage 4 goods producers.....		ID5	41	146.185	146.695	146.670	146.731	146.492
Goods.....		ID5	411	140.747	140.333	140.279	139.955	139.835
Foods.....		ID5	4111	156.086	152.706	152.282	148.799	148.283
Energy.....		ID5	4112	167.732	178.345	152.742	136.876	142.301
Goods excluding foods and energy.....		ID5	4113	138.258	138.196	138.434	138.738	138.628
Services.....		ID5	412	164.283	167.871	167.942	169.285	168.651
Trade services.....		ID5	4123	174.895	180.168	180.180	182.169	181.325
Transportation and warehousing services.....		ID5	4122	138.724	137.877	135.800	134.904	133.912
Transportation of passengers.....		ID5	41221	138.128	139.974	135.683	134.571	136.028
Transportation and warehousing of goods.....		ID5	41222	148.027	146.596	144.815	143.902	142.363
Services less trade, transportation, and warehousing.....		ID5	4121	128.420	128.298	129.206	129.300	129.425
Inputs to stage 4 services producers.....		ID5	42	144.566	143.730	144.487	144.531	144.576

See footnotes at end of table.

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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	Feb. 2023	Mar. 2023 ^P	Apr. 2023 ^P	May 2023 ^P	June 2023 ^P
Goods.....		ID5	421	147.940	146.744	145.695	144.540	144.454
Foods.....		ID5	4211	148.460	148.612	146.569	144.947	144.823
Energy.....		ID5	4212	147.168	142.987	140.882	138.161	138.025
Goods excluding foods and energy.....		ID5	4213	147.356	147.497	147.381	147.294	147.246
Services.....		ID5	422	143.226	142.510	143.868	144.310	144.399
Trade services.....		ID5	4223	158.261	159.308	161.159	162.218	161.772
Transportation and warehousing services.....		ID5	4222	152.362	151.674	150.505	148.656	148.197
Transportation of passengers.....		ID5	42221	137.583	139.412	135.162	134.062	135.502
Transportation and warehousing of goods.....		ID5	42222	155.509	154.392	153.740	151.756	150.973
Services less trade, transportation, and warehousing.....		ID5	4221	139.641	138.739	140.299	140.911	141.113
Construction.....		ID5	423	142.751	143.359	143.442	145.397	145.579
Inputs to stage 4 construction producers.....		ID5	43	162.450	162.133	162.695	161.214	161.423
Goods.....		ID5	431	167.013	166.343	166.911	165.217	165.497
Energy.....		ID5	4312	170.120	156.959	161.511	142.071	144.200
Goods excluding foods and energy.....		ID5	4313	170.527	171.098	171.278	171.331	171.438
Services.....		ID5	432	150.737	151.298	151.843	150.895	150.924
Trade services.....		ID5	4323	168.037	170.325	172.371	170.042	171.099
Transportation and warehousing services.....		ID5	4322	152.952	150.844	147.179	146.318	143.780
Transportation of passengers.....		ID5	43221	143.979	145.900	141.435	140.279	141.794
Transportation and warehousing of goods.....		ID5	43222	153.980	151.764	148.099	147.240	144.590
Services less trade, transportation, and warehousing.....		ID5	4321	129.749	129.859	130.723	130.929	131.057
Stage 3 Intermediate Demand								
Stage 3 intermediate demand.....		ID5	3	148.956	147.878	147.636	145.706	145.377
Inputs to stage 3 goods producers.....		ID5	31	159.961	159.766	159.147	156.622	156.392
Goods.....		ID5	311	156.136	155.606	154.678	151.798	151.608
Foods.....		ID5	3111	175.728	175.449	171.521	161.977	163.856
Energy.....		ID5	3112	149.380	153.095	142.413	132.452	133.241
Goods excluding foods and energy.....		ID5	3113	152.536	151.636	152.535	152.840	151.731
Services.....		ID5	312	163.954	165.064	165.672	164.685	164.327
Trade services.....		ID5	3123	169.842	172.923	175.740	174.186	174.678
Transportation and warehousing services.....		ID5	3122	154.405	152.647	149.411	148.710	146.728
Transportation of passengers.....		ID5	31221	147.066	149.030	144.464	143.281	144.831
Transportation and warehousing of goods.....		ID5	31222	154.593	152.631	149.473	148.800	146.625
Services less trade, transportation, and warehousing.....		ID5	3121	131.946	132.189	133.088	133.451	133.529
Inputs to stage 3 services producers.....		ID5	32	139.801	138.077	138.117	136.599	136.176
Goods.....		ID5	321	137.186	132.367	128.111	119.533	118.267
Foods.....		ID5	3211	162.702	161.096	156.856	157.527	155.484
Energy.....		ID5	3212	143.681	135.979	129.103	115.309	113.486
Goods excluding foods and energy.....		ID5	3213	136.817	136.429	136.267	135.651	135.240
Services.....		ID5	322	140.362	139.423	140.594	140.890	140.680
Trade services.....		ID5	3223	190.520	188.270	193.214	192.044	191.369
Transportation and warehousing services.....		ID5	3222	163.310	161.455	160.769	159.937	159.897
Transportation of passengers.....		ID5	32221	104.451	104.633	104.361	104.376	104.244
Transportation and warehousing of goods.....		ID5	32222	163.815	161.951	161.262	160.426	160.386
Services less trade, transportation, and warehousing.....		ID5	3221	131.542	130.929	132.388	133.081	132.853
Construction.....		ID5	323	142.751	143.359	143.442	145.397	145.579
Inputs to stage 3 construction producers.....		ID5	33	138.330	138.225	137.629	137.377	138.496
Goods.....		ID5	331	134.921	134.392	134.134	134.029	134.155
Goods excluding foods and energy.....		ID5	3313	171.922	171.247	170.918	170.785	170.946
Services.....		ID5	332	160.726	161.114	160.036	159.573	162.026
Trade services.....		ID5	3323	164.923	165.399	164.163	163.636	166.395
Transportation and warehousing services.....		ID5	3322	115.475	114.497	114.337	114.025	113.716
Transportation and warehousing of goods.....		ID5	33222	121.888	120.856	120.687	120.358	120.031
Services less trade, transportation, and warehousing.....		ID5	3321	124.417	124.395	124.925	125.239	125.125
Stage 2 Intermediate Demand								
Stage 2 intermediate demand.....		ID5	2	137.680	134.182	135.831	134.201	132.263
Inputs to stage 2 goods producers.....		ID5	21	128.027	122.753	125.034	121.664	118.328
Goods.....		ID5	211	125.694	118.733	121.346	116.473	112.306
Foods.....		ID5	2111	169.792	164.859	164.203	160.360	155.174
Energy.....		ID5	2112	95.499	84.974	88.979	82.275	78.006
Goods excluding foods and energy.....		ID5	2113	147.446	147.346	147.893	146.759	143.679
Services.....		ID5	212	148.429	148.096	149.555	150.715	149.707
Trade services.....		ID5	2123	163.617	164.060	168.165	170.750	168.876
Transportation and warehousing services.....		ID5	2122	168.609	167.987	166.692	166.669	165.796
Transportation of passengers.....		ID5	21221	138.420	140.194	136.079	135.018	136.401
Transportation and warehousing of goods.....		ID5	21222	170.395	169.655	168.495	168.522	167.538
Services less trade, transportation, and warehousing.....		ID5	2121	135.825	134.832	136.212	137.096	136.781
Construction.....		ID5	213	142.751	143.359	143.442	145.397	145.579

See footnotes at end of table.

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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	Feb. 2023	Mar. 2023 ^P	Apr. 2023 ^P	May 2023 ^P	June 2023 ^P
Inputs to stage 2 services producers.....		ID5	22	144.851	143.670	144.481	145.057	144.907
Goods.....		ID5	221	147.056	146.212	145.780	144.225	143.543
Foods.....		ID5	2211	125.887	122.434	121.358	117.984	115.714
Energy.....		ID5	2212	180.011	167.762	162.934	143.505	141.621
Goods excluding foods and energy.....		ID5	2213	145.486	145.425	145.291	144.933	144.351
Services.....		ID5	222	144.205	142.946	143.924	144.730	144.638
Trade services.....		ID5	2223	182.673	176.236	177.357	183.848	182.488
Transportation and warehousing services.....		ID5	2222	151.683	148.228	145.624	144.433	145.797
Transportation of passengers.....		ID5	22221	138.541	140.380	136.107	135.000	136.449
Transportation and warehousing of goods.....		ID5	22222	154.697	150.255	147.949	146.737	148.091
Services less trade, transportation, and warehousing.....		ID5	2221	142.716	141.853	143.095	143.789	143.648
Construction.....		ID5	223	142.751	143.359	143.442	145.397	145.579
Stage 1 Intermediate Demand								
Stage 1 intermediate demand.....		ID5	1	146.357	145.751	145.653	144.325	143.997
Inputs to stage 1 goods producers.....		ID5	11	149.069	148.054	147.608	145.747	144.823
Goods.....		ID5	111	148.820	147.048	145.813	143.549	142.111
Foods.....		ID5	1111	168.975	161.511	160.251	155.056	154.604
Energy.....		ID5	1112	141.264	140.161	129.959	120.243	120.041
Goods excluding foods and energy.....		ID5	1113	151.031	150.020	150.918	150.891	148.951
Services.....		ID5	112	153.570	154.710	156.530	155.781	156.307
Trade services.....		ID5	1123	168.583	170.841	173.843	172.674	173.423
Transportation and warehousing services.....		ID5	1122	158.783	156.914	155.815	156.753	156.687
Transportation of passengers.....		ID5	11221	138.102	139.947	135.657	134.546	136.002
Transportation and warehousing of goods.....		ID5	11222	162.101	159.331	159.037	160.474	160.031
Services less trade, transportation, and warehousing.....		ID5	1121	108.943	108.970	109.474	109.116	109.369
Construction.....		ID5	113	142.751	143.359	143.442	145.397	145.579
Inputs to stage 1 services producers.....		ID5	12	143.882	143.384	143.649	142.696	142.658
Goods.....		ID5	121	149.556	147.776	146.760	143.093	142.077
Foods.....		ID5	1211	187.364	199.017	204.994	150.441	131.297
Energy.....		ID5	1212	167.812	161.705	157.447	146.409	143.622
Goods excluding foods and energy.....		ID5	1213	148.882	148.956	149.368	149.328	149.223
Services.....		ID5	122	140.833	140.875	141.678	141.872	142.246
Trade services.....		ID5	1223	169.446	169.899	171.558	172.124	172.184
Transportation and warehousing services.....		ID5	1222	144.579	144.340	142.152	141.549	141.450
Transportation of passengers.....		ID5	12221	138.019	139.863	135.576	134.465	135.921
Transportation and warehousing of goods.....		ID5	12222	163.492	162.130	160.814	160.414	159.485
Services less trade, transportation, and warehousing.....		ID5	1221	135.849	135.891	137.026	137.293	137.760
Construction.....		ID5	123	142.751	143.359	143.442	145.397	145.579
Inputs to stage 1 construction producers.....		ID5	13	161.863	161.866	161.031	159.335	159.306
Goods.....		ID5	131	164.581	164.411	163.705	161.671	161.201
Energy.....		ID5	1312	158.517	152.442	143.944	125.303	120.508
Goods excluding foods and energy.....		ID5	1313	167.997	168.536	168.759	168.698	168.747
Services.....		ID5	132	156.223	156.654	155.497	154.619	155.671
Trade services.....		ID5	1323	162.174	163.584	163.305	162.299	164.723
Transportation and warehousing services.....		ID5	1322	127.532	125.412	121.874	121.340	118.888
Transportation and warehousing of goods.....		ID5	13222	131.915	129.723	126.063	125.511	122.975
Services less trade, transportation, and warehousing.....		ID5	1321	135.801	136.452	137.843	137.626	137.647
Intermediate Demand by Production Flow Special Groupings								
Total goods inputs to stage 4 intermediate demand.....	04/10	ID5	9411	145.097	144.409	144.186	143.351	143.323
Total services inputs to stage 4 intermediate demand.....	04/10	ID5	9412	146.624	146.573	147.701	148.159	148.148
Total construction inputs to stage 4 intermediate demand.....	04/10	ID5	9413	141.568	142.171	142.254	144.192	144.373
Total foods inputs to stage 4 intermediate demand.....	04/10	ID5	9414	149.459	147.638	146.542	143.918	143.578
Total energy goods inputs to stage 4 intermediate demand.....	04/10	ID5	9415	139.035	134.349	132.656	127.309	127.688
Total goods less foods and energy inputs to stage 4 intermediate demand.....	04/10	ID5	9416	146.395	146.525	146.674	146.836	146.791
Total goods inputs to stage 3 intermediate demand.....	04/10	ID5	9311	143.658	142.110	140.425	136.334	135.897
Total services inputs to stage 3 intermediate demand.....	04/10	ID5	9312	143.358	142.772	143.822	143.899	143.692
Total construction inputs to stage 3 intermediate demand.....	04/10	ID5	9313	141.568	142.171	142.254	144.192	144.373
Total foods inputs to stage 3 intermediate demand.....	04/10	ID5	9314	156.308	156.050	152.551	144.134	145.777
Total energy goods inputs to stage 3 intermediate demand.....	04/10	ID5	9315	141.776	135.916	128.606	115.646	114.246
Total goods less foods and energy inputs to stage 3 intermediate demand.....	04/10	ID5	9316	144.028	143.248	143.926	144.071	143.137
Total goods inputs to stage 2 intermediate demand.....	04/10	ID5	9211	121.748	115.731	117.915	113.607	109.989
Total services inputs to stage 2 intermediate demand.....	04/10	ID5	9212	145.683	144.639	145.733	146.626	146.317
Total construction inputs to stage 2 intermediate demand.....	04/10	ID5	9213	141.568	142.171	142.254	144.192	144.373
Total foods inputs to stage 2 intermediate demand.....	04/10	ID5	9214	170.225	165.283	164.615	160.754	155.581
Total energy goods inputs to stage 2 intermediate demand.....	04/10	ID5	9215	94.447	84.121	87.945	81.239	77.086
Total goods less foods and energy inputs to stage 2 intermediate demand.....	04/10	ID5	9216	138.601	138.516	138.881	137.983	135.630
Total goods inputs to stage 1 intermediate demand.....	04/10	ID5	9111	134.811	133.474	132.521	130.126	129.119

See footnotes at end of table.

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

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

Grouping	Other index base	Commodity code		Seasonally adjusted index ¹				
		Group code	Item code	Feb. 2023	Mar. 2023 ^p	Apr. 2023 ^p	May 2023 ^p	June 2023 ^p
Total services inputs to stage 1 intermediate demand.....	04/10	ID5	9112	143.288	143.544	144.391	144.352	144.794
Total construction inputs to stage 1 intermediate demand.....	04/10	ID5	9117	141.568	142.171	142.254	144.192	144.373
Total foods inputs to stage 1 intermediate demand.....	04/10	ID5	9114	159.336	152.761	151.743	145.713	144.854
Total energy goods inputs to stage 1 intermediate demand.....	04/10	ID5	9115	150.751	146.834	140.017	129.241	127.402
Total goods less foods and energy inputs to stage 1 intermediate demand.....	04/10	ID5	9116	127.556	127.260	127.765	127.733	126.933

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

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

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

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

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

⁶ Includes intermediate trade, transportation, and warehousing services.

⁷ Includes crude petroleum.

⁸ Excludes crude petroleum.

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"/" Data not available.