# LABOR





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## PRODUCER PRICE INDEXES – JULY 2023

The Producer Price Index for final demand increased 0.3 percent in July, seasonally adjusted, the U.S. Bureau of Labor Statistics reported today. Final demand prices were unchanged in June and declined 0.3 percent in May. (See table A.) On an unadjusted basis, the index for final demand advanced 0.8 percent for the 12 months ended in July.

In July, the increase in final demand prices was led by a 0.5-percent rise in the index for final demand services. Prices for final demand goods edged up 0.1 percent.

The index for final demand less foods, energy, and trade services moved up 0.2 percent in July, the largest increase since a 0.3-percent rise in February. For the 12 months ended in July, prices for final demand less foods, energy, and trade services advanced 2.7 percent.

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

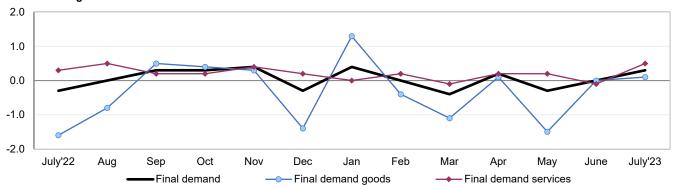
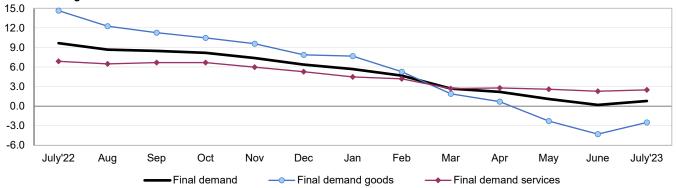


Chart 2. Twelve-month percent changes in selected PPI final demand price indexes, not seasonally adjusted Percent change



### **Final Demand**

**Final demand services:** The index for final demand services increased 0.5 percent in July, the largest rise since moving up 0.5 percent in August 2022. Leading the broad-based advance in July, prices for final demand services less trade, transportation, and warehousing climbed 0.3 percent. Margins for final demand trade services rose 0.7 percent, and the index for final demand transportation and warehousing services moved up 0.5 percent. (Trade indexes measure changes in margins received by wholesalers and retailers.)

*Product detail:* Forty percent of the July advance in the index for final demand services can be traced to a 7.6-percent rise in prices for portfolio management. The indexes for machinery and vehicle wholesaling; outpatient care (partial); chemicals and allied products wholesaling; securities brokerage, dealing, investment advice, and related services; and transportation of passengers (partial) also moved higher. Conversely, margins for food and alcohol retailing declined 2.5 percent. The indexes for application software publishing and for long-distance motor carrying also fell. (See table 2.)

**Final demand goods:** Prices for final demand goods edged up 0.1 percent in July after no change in June. The July increase is attributable to the index for final demand foods, which rose 0.5 percent. Prices for final demand goods less foods and energy and for final demand energy were both unchanged.

*Product detail:* Within the index for final demand goods in July, prices for meats rose 5.0 percent. The indexes for gas fuels; hay, hayseeds, and oilseeds; utility natural gas; and motor vehicles also moved higher. In contrast, prices for diesel fuel dropped 7.1 percent. The indexes for gasoline, fresh fruits and melons, and plastic resins and materials also decreased.

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

		Final demand	F	Final den	nand goo	ds	Fi	inal den	nand servic	es	Change in final	Change in final demand less
Month	Total final demand	less foods, energy, and trade	Total	Foods	Energy	Less foods and energy	Total	Trade	Trans- portation and ware- housing	Other	demand from 12 months ago (unadj.)	foods, energy, and trade from 12 mo. ago (unadj.)
2022												
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	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. <sup>1</sup>	-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. <sup>1</sup>	0.2	0.1	0.1	-0.4	0.7	0.1	0.2	0.4	-2.4	0.5	2.2	3.3
May <sup>1</sup>	-0.3	0.0	-1.5	-1.0	-6.9	0.1	0.2	0.9	-0.4	0.0	1.1	2.9
June <sup>1</sup>	0.0	0.1	0.0	-0.2	0.7	-0.2	-0.1	-0.8	0.0	0.3	0.2	2.7
July	0.3	0.2	0.1	0.5	0.0	0.0	0.5	0.7	0.5	0.3	0.8	2.7

<sup>&</sup>lt;sup>1</sup> Some of the figures shown above and elsewhere in this release may differ from those previously reported because data for March 2023 through June 2023 have been revised to reflect the availability of late reports and corrections by respondents.

### **Intermediate Demand by Commodity Type**

Within intermediate demand in July, prices for processed goods fell 0.6 percent, the index for unprocessed goods rose 1.7 percent, and prices for services moved up 0.5 percent. (See tables B and C.)

**Processed goods for intermediate demand:** The index for processed goods for intermediate demand fell 0.6 percent in July, the sixth consecutive decline. Leading the decrease in July, prices for processed materials less foods and energy moved down 0.7 percent. The index for processed energy goods fell 0.9 percent. Conversely, prices for processed foods and feeds advanced 1.4 percent. For the 12 months ended in July, the index for processed goods for intermediate demand dropped 7.8 percent.

*Product detail:* Over 60 percent of the July decline in prices for processed goods for intermediate demand can be traced to a 7.6-percent decrease in the index for steel mill products. Prices for diesel fuel; industrial chemicals; plastic resins and materials; electric power; and natural, processed, and imitation cheese also fell. In contrast, the index for meats rose 5.0 percent. Prices for liquefied petroleum gas and for softwood lumber also advanced.

**Unprocessed goods for intermediate demand:** Prices for unprocessed goods for intermediate demand moved up 1.7 percent in July, the largest advance since jumping 4.8 percent in August 2022. The July increase can be traced to the index for unprocessed energy materials, which rose 8.0 percent. Conversely, prices for unprocessed nonfood materials less energy and for unprocessed foodstuffs and feedstuffs declined 3.1 percent and 0.9 percent, respectively. For the 12 months ended in July, the index for unprocessed goods for intermediate demand dropped 24.9 percent.

*Product detail:* Leading the advance in prices for unprocessed goods for intermediate demand, the index for crude petroleum rose 8.4 percent. Prices for natural gas; hay, hayseeds, and oilseeds; slaughter hogs; slaughter cattle; and carbon steel scrap also moved higher. In contrast, the index for nonferrous metal ores fell 4.5 percent. Prices for corn and for slaughter poultry also decreased.

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

lor goods i	for goods by commodity type, seasonally adjusted											
	Process	sed good	s for inte	rmediate	demand	Unprod	cessed g	oods for in	termediate	demand		
Month	Month Total Foods and feeds Foods and feeds Foods and goods Foods and goods Foods and months energy ago (unad).		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												
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	-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	-2.9	0.2	-3.4	1.1	-1.5	3.7	1.8	-20.3		
May <sup>1</sup>	-1.5	-1.8	-7.0	0.0	-7.1	-5.3	-4.6	-8.0	-2.6	-28.3		
June <sup>1</sup>	-0.5	-1.1	-0.5	-0.4	-9.3	-1.2	1.0	-3.0	-2.0	-32.3		
July	-0.6	1.4	-0.9	-0.7	-7.8	1.7	-0.9	8.0	-3.1	-24.9		

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Services for intermediate demand: The index for services for intermediate demand increased 0.5 percent in July after no change in June. Half of the broad-based rise can be traced to margins for trade services for intermediate demand, which moved up 1.3 percent. The indexes for services less trade, transportation, and warehousing for intermediate demand and for transportation and warehousing services for intermediate demand also advanced, climbing 0.3 percent and 0.4 percent, respectively. For the 12 months ended in July, prices for services for intermediate demand rose 4.6 percent, the largest 12-month increase since moving up 6.2 percent in February.

*Product detail:* Within the index for services for intermediate demand in July, margins for chemicals and allied products wholesaling advanced 2.4 percent. The indexes for portfolio management; securities brokerage, dealing, investment advice, and related services; courier, messenger, and U.S. postal services; accounting services (partial); and hardware, building material, and supplies retailing also moved higher. Conversely, prices for business loans (partial) decreased 1.5 percent. The indexes for fuels and lubricants retailing and for arrangement of freight and cargo transportation also fell.

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

indexes for	indexes for services by commodity type, seasonally adjusted											
		Service	es for intermediate o	lemand								
Month	Total	Trade	Transportation and warehousing	Other	Total, change from 12 months ago (unadj.)							
2022												
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	0.3	-0.7	0.0	0.7	6.2							
Mar.1	-0.3	0.9	-1.0	-0.5	4.5							
Apr.1	0.7	0.8	-1.1	1.0	4.4							
May <sup>1</sup>	0.2	-0.1	-0.4	0.4	3.9							
June <sup>1</sup>	0.0	-0.6	-0.1	0.1	4.3							
July	0.5	1.3	0.4	0.3	4.6							

<sup>&</sup>lt;sup>1</sup> Some of the figures shown above and elsewhere in this release may differ from those previously reported because data for March 2023 through June 2023 have been revised to reflect the availability of late reports and corrections by respondents.

#### **Intermediate Demand by Production Flow**

**Stage 4 intermediate demand:** Prices for stage 4 intermediate demand rose 0.3 percent in July after declining 0.1 percent in June. In July, the index for total services inputs to stage 4 intermediate demand increased 0.8 percent. In contrast, prices for total goods inputs moved down 0.3 percent. (See table D.) Advances in the indexes for portfolio management; securities brokerage, dealing, investment advice, and related services; meats; nonresidential property management fees; machinery and equipment parts and supplies wholesaling; and courier, messenger, and U.S. postal services outweighed falling prices for steel mill products, gross rents for retail properties, and corn. For the 12 months ended in July, the index for stage 4 intermediate demand rose 2.0 percent.

**Stage 3 intermediate demand:** Prices for stage 3 intermediate demand moved down 0.6 percent in July, the sixth consecutive decrease. In July, the index for total goods inputs to stage 3 intermediate demand declined 1.8 percent. Conversely, prices for total services inputs advanced 0.3 percent. Lower prices for steel mill products, corn, slaughter poultry, diesel fuel, plastic resins and materials, and business loans (partial) outweighed increases in the indexes for courier, messenger, and U.S. postal services; slaughter hogs; and slaughter cattle. For the 12 months ended in July, prices for stage 3 intermediate demand fell 6.9 percent.

**Stage 2 intermediate demand:** The index for stage 2 intermediate demand increased 1.4 percent in July, the largest advance since rising 3.0 percent in August 2022. In July, prices for total goods inputs to stage 2 intermediate demand moved up 3.3 percent, while the index for total services inputs was unchanged. Advancing prices for crude petroleum, gas fuels, oilseeds, prepared animal feeds, portfolio management, and accounting services (partial) outweighed decreases in the indexes for business loans (partial), fuels and lubricants retailing, and industrial chemicals. For the 12 months ended in July, prices for stage 2 intermediate demand declined 8.5 percent.

**Stage 1 intermediate demand:** The index for stage 1 intermediate demand was unchanged in July after moving down 0.2 percent in June. In July, a 0.8-percent advance in prices for total services inputs to stage 1 intermediate demand offset a 0.9-percent decrease in the index for total goods inputs. Increases in the indexes for portfolio management; securities brokerage, dealing, investment advice, and related services; hardware, building material, and supplies retailing; courier, messenger, and U.S. postal services; and natural gas to electric utilities offset declines in prices for steel mill products, diesel fuel, corn, gross rents for retail properties, and industrial chemicals. For the 12 months ended in July, prices for stage 1 intermediate demand fell 3.1 percent.

Table D. Monthly percent changes in selected intermediate demand price indexes by

production flow, seasonally adjusted

	Stage	4 interr		Stage	3 interr		Stage	2 interr		Stage 1 intermediate demand			
Month	Total	Goods inputs	Ser- vices inputs	Total	Goods inputs	Ser- vices inputs	Total	Goods inputs	Ser- vices inputs	-1.6 -2.8 -0.4 -1.2 0.3 0.3 0.1 -0.2 0.1 -0.6 -1.8 -3.0	Ser- vices inputs		
2022													
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	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	-0.3	-0.5	-0.1	-0.7	-1.1	-0.4	-2.5	-4.9	-0.7	-0.4	-1.0	0.2	
Apr. <sup>1</sup>	0.3	-0.2	0.7	-0.2	-1.2	0.6	0.9	1.2	0.7	-0.1	-0.7	0.5	
May <sup>1</sup>	-0.1	-0.5	0.2	-1.4	-2.9	-0.1	-1.3	-4.0	0.6	-0.9	-1.8	-0.1	
June <sup>1</sup>	-0.1	0.0	-0.1	-0.2	-0.1	-0.2	-1.1	-2.4	-0.2	-0.2	-0.7	0.2	
July	0.3	-0.3	8.0	-0.6	-1.8	0.3	1.4	3.3	0.0	0.0	-0.9	0.8	

<sup>&</sup>lt;sup>1</sup> Some of the figures shown above and elsewhere in this release may differ from those previously reported because data for March 2023 through June 2023 have been revised to reflect the availability of late reports and corrections by respondents.

The Producer Price Index for August 2023 is scheduled to be released on Thursday, September 14, 2023, at 8:30 a.m. (ET).

# **Technical Note**

## **Brief Explanation of Producer Price Indexes**

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

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

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

# Final Demand–Intermediate Demand Indexes

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

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

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

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

Final Demand: The final demand portion of the FD-ID structure measures price change for commodities sold for personal consumption, capital investment, government, and export. The system is composed of six main price indexes: final demand goods; final demand 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, 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	PPI Detailed Report Issue
	SIC	
Wireless telecommunications	4812	July 1999
Telephone communications, except radio telephone	4813 4833	July 1995 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 6282	January 2001 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 6531	January 1996 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
building work	23816X	July 2008
Electrical contractors, nonresidential building work	23821X	July 2008
nonresidential building work	23822X 423	July 2008 July 2005
Merchant wholesalers, nondurable goods	424 443	July 2005 January 2004
Building material and garden equipment and supplies dealers	444	January 2004
music stores	451 452	January 2004 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 522110	January 2010 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 541610	January 2005 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 inde	ex 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.

Industry-product code,

<u>current NAICS series</u> pcu325---325--pcu336110336110

pcu621111621111411

Provides data for:
Chemical manufacturing
Automobile and light duty
motor vehicle manufacturing
Offices of physicians, one- and

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.)

*Industry-product code*,

discontinued SIC series

pdu28\_\_# pdu331\_# Provides data for:

Chemicals and allied products 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 Industry Data - Discontinued (NAICS basis) (SIC basis) Commodity Data (incl. FD-ID) Commodity Data – Discontinued /pub/time.series/wd Special requests

/pub/time.series/pc /pub/time.series/nd /pub/time.series/pd /pub/time.series/wp /pub/special.requests/ppi

Directory:

#### Additional information

PPI homepage (www.bls.gov/ppi) 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

[July 2023]

Grouping		nmodity ode	Relative Impor- tance	Unadjusted 12-month percent change <sup>2</sup>	Seasonally adjusted 1-month percent change <sup>2</sup>				
	Group code	Item code	Dec. 2022 <sup>1</sup>	July 2022 to July 2023 <sup>p</sup>	Feb. to Mar.	Mar. to Apr. <sup>p</sup>	Apr. to May <sup>p</sup>	May to June <sup>p</sup>	June to July <sup>p</sup>
Final Demand									
Final demand	FD	4	100.000	0.8	-0.4	0.2	-0.3	0.0	0.3
Final demand goods	1	41	30.653	-2.5	-1.1	0.1	-1.5	0.0	0.1
Final demand foods	1	411	5.940	-0.2	0.2	-0.4	-1.0	-0.2	0.5
Finished consumer foods <sup>3</sup>	l .	4111	4.511	0.7	0.7	-0.5	-0.9	0.2	0.2
Finished consumer foods, crude		41113	0.606	-14.4	4.0	2.1	-16.3	2.1	-1.8
Finished consumer foods, processed	FD	41112	3.905	1.8	0.4	-0.8	0.8	0.0	0.4
Government purchased foods.	FD	4112	0.406	0.4	0.3	-1.0	0.3	-0.3	1.5
Foods for export.	FD FD	4113 412	1.023	-4.4 16.0	-1.9 -6.1	0.2 0.7	-1.7 -6.9	-1.9 0.7	1.6 0.0
Final demand energy  Finished consumer energy goods <sup>3</sup>		4121	5.853 4.451	-16.8 -12.8	-6.6	2.3	-6.7	1.2	0.0
Government purchased energy	FD	4122	0.942	-12.6	-4.9	-4.5	-8.1	-0.6	-0.7
Energy for export.		4123	0.460	-33.0	-2.2	-5.7	-7.7	-1.1	1.0
Final demand goods less foods and energy.		413	18.859	1.9	0.2	0.1	0.1	-0.2	0.0
Finished goods less foods and energy <sup>3</sup>		4131	10.768	4.0	0.3	0.1	0.3	0.1	0.3
Finished consumer goods less foods and energy		41311	5.731	3.7	0.3	0.0	0.3	0.0	0.2
Nondurable consumer goods less foods and energy	1	413111	3.441	4.7	0.3	0.1	0.3	0.1	0.3
Durable consumer goods	FD	413112	2.290	2.3	0.2	-0.1	0.2	0.0	0.2
Private capital equipment	FD	41312	5.037	4.3	0.4	0.1	0.4	0.1	0.3
Private capital equipment for manufacturing industries	FD	413121	1.222	5.0	0.5	0.1	0.6	0.2	0.2
Private capital equipment for nonmanufacturing industries	FD	413122	3.815	4.0	0.4	0.1	0.3	0.1	0.3
Government purchased goods, excluding foods and energy	FD	4132	1.967	0.6	0.0	0.0	-0.1	-0.1	0.1
Government purchased goods excluding foods, energy, and capital									
equipment	FD	41321	1.160	-0.4	-0.2	-0.1	-0.2	-0.3	-0.1
Government purchased capital equipment	FD	41322	0.807	2.1	0.3	0.0	0.1	0.1	0.4
Goods for export, excluding foods and energy	FD	4133	6.124	-1.2	0.1	0.3	-0.2	-0.5	-0.4
Final demand services.	FD	42	66.677	2.5	-0.1	0.2	0.2	-0.1	0.5
Final demand trade services <sup>4</sup>	FD FD	423 4231	19.700	1.2	-0.6 -0.7	0.4	0.9 0.9	-0.8 -0.7	0.7
Trade of finished goods <sup>3</sup>	l .	42311	17.049 13.855	1.0 1.6	-0.7 -0.9	0.3 0.3	1.0	-0. <i>1</i> -0.1	0.5 0.1
Trade of private capital equipment.	l .	42311	3.194	-1.3	0.3	0.3	0.4	-3.0	2.1
Trade of government purchased goods	FD	4232	0.750	2.3	-0.3	1.3	0.5	-1.8	2.3
Trade of government purchased goods, excluding capital equipment		42321	0.457	3.4	0.0	1.8	0.4	-0.4	2.0
Trade of government purchased capital equipment	l .	42322	0.293	0.6	-0.9	0.5	0.8	-4.1	2.7
Trade of exports	l .	4233	1.901	1.9	0.4	0.7	0.5	-2.0	2.0
Final demand transportation and warehousing services		422	5.213	-6.0	-0.7	-2.4	-0.4	0.0	0.5
Transportation of passengers for final demand	FD	4221	1.275	3.4	1.3	-3.0	-0.8	1.8	1.7
Transportation of private passengers	FD	42211	0.860	3.4	1.3	-3.0	-0.8	1.8	1.7
Transportation of government passengers	FD	42212	0.103	3.3	1.3	-3.0	-0.8	1.8	1.6
Transportation of passengers for export	FD	42213	0.312	3.4	1.3	-3.1	-0.8	1.8	1.7
Transportation and warehousing of goods for final demand	FD	4222	3.938	-9.1	-1.4	-2.2	-0.3	-0.6	0.0
Transportation and warehousing of finished goods <sup>3</sup>	FD	42221	2.567	-9.8	-1.5	-2.4	-0.3	-0.6	0.0
Transportation and warehousing of personal consumption goods	FD	422211	2.063	-9.5	-1.5	-2.4	-0.3	-0.6	0.1
Transportation and warehousing of private capital equipment		422212	0.504	-11.0	-1.6	-2.6	-0.4	-0.7	-0.1
Transportation and warehousing of government purchased goods	1	42222	0.233	-7.2	-1.3	-2.0	-0.5	-0.7	0.3
Transportation and warehousing of exports	1	42223	1.138	-7.8	-1.3	-1.9	-0.2	-0.6	0.0
Final demand services less trade, transportation, and warehousing	1	421	41.763	4.2	0.2	0.5	0.0	0.3	0.3
Finished services less trade, transportation, and warehousing <sup>3</sup> Finished consumer services less trade, transportation, and	FD	4211	36.505	3.8	0.3	0.5	0.0	0.3	0.3
warehousing	FD	42111	32.158	4.0	0.3	0.5	-0.1	0.3	0.4
Private capital investment services less trade, transportation, and warehousing	FD	42112	4.347	2.9	0.3	0.1	0.4	0.2	-0.1
Government purchased services less trade, transportation, and warehousing	FD	4212	2.674	4.5	0.0	0.6	0.1	0.3	0.6
Gov. purchased services less trade, transportation, and warehousing, excl. capital investment	FD	42121	2.515	4.7	0.0	0.7	0.0	0.3	0.7
Government purchased capital investment services less trade, transportation, and warehousing	FD	42122	0.159	0.5	0.0	-0.4	0.4	0.3	-0.9
Services for export less trade, transportation, and warehousing		4213	2.584	9.3	-0.8	0.8	0.6	0.3	0.5
Final demand construction.	1	43	2.670	3.8	0.1	-0.2	0.1	0.0	-1.3
Construction for private capital investment	FD	431	1.856	3.7	0.1	-0.1	0.1	0.0	-1.4
Construction for government	FD	432	0.814	3.8	0.2	-0.2	0.1	0.0	-1.1
Special Groupings of Final Demand									
Final demand less exports	l .	49101	86.458	1.1	-0.4	0.2	-0.3	0.1	0.3
Final demand less government	FD	49102	92.111	1.0	-0.4	0.2	-0.3	0.0	0.3

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

[July 2023]

Grouping		nmodity code	Relative Impor- tance	Unadjusted 12-month percent change <sup>2</sup>	Seasonally adjusted 1-month percent change <sup>2</sup>					
Chotping	Group code	Item code	Dec. 2022 <sup>1</sup>	July 2022 to July 2023 <sup>p</sup>	Feb. to Mar.	Mar. to Apr. <sup>p</sup>	Apr. to May <sup>p</sup>	May to June <sup>p</sup>	June to July <sup>p</sup>	
Final demand less foods, food and nonalcoholic beverages for immediate	FD	40400	07 704	-	0.0	0.0	0.0	0.1		
consumption, and energy <sup>5</sup>	FD	49103 49104	87.791 88.207	2.4 2.4	0.0 0.0	0.2 0.2	0.2 0.2	-0.1 -0.1	0.3 0.3	
Final demand less foods and food and nonalcoholic beverages for immediate										
consumption <sup>5</sup>	FD	49105	93.644	0.7	-0.5	0.2	-0.3	-0.1	0.3	
Final demand less foods <sup>5</sup>	FD FD	49106 49107	94.060 94.147	0.9 2.2	-0.4 0.0	0.2 0.2	-0.3 0.1	0.0 -0.1	0.3 0.3	
Final demand less trade services.	FD	49108	80.300	0.7	-0.3	0.2	-0.6	0.2	0.3	
Final demand less distributive services <sup>6</sup>	FD	49109	76.362	1.2	-0.3	0.3	-0.6	0.2	0.2	
Final demand goods less energy	FD	49111	24.799	1.4	0.2	0.0	-0.1	-0.2	0.1	
Final demand goods less foods	1	49112	24.712	-3.0	-1.4	0.3	-1.6	0.0	0.0	
Final demand services less trade services.	1	49113	46.976	3.1	0.1	0.2	0.0	0.3	0.4	
Final demand distributive services <sup>6</sup>		49114 49115	23.638 54.290	-0.5 -1.7	-0.7 -0.9	-0.1 0.0	0.7 -0.6	-0.8 -0.3	0.6 0.3	
Final demand less foods, energy, and trade services	FD	49116	68.507	2.7	0.1	0.0	0.0	0.1	0.3	
Private and government purchased capital equipment	1	49117	5.844	4.0	0.4	0.1	0.3	0.1	0.3	
Private and government purchased capital investment services	FD	49118	8.497	0.5	0.2	0.0	0.4	-1.2	0.8	
Total private and government purchased capital investment	FD	49119	14.341	2.1	0.2	0.0	0.3	-0.5	0.3	
Total finished <sup>3</sup>	FD FD	49201 49202	78.567 69.193	1.4 2.7	-0.4 0.0	0.3	-0.2 0.2	0.1	0.3	
Total finished less foods and energy <sup>3, 5</sup>	FD	49203	69.605	2.7	0.0	0.2	0.2	0.0	0.3	
Total finished less foods and food and nonalcoholic beverages for immediate										
consumption <sup>3, 5</sup>	FD	49204	73.644	1.4	-0.4	0.3	-0.2	0.1	0.3	
Total finished less foods <sup>3, 5</sup>	FD FD	49205 49206	74.056 74.116	1.4 2.6	-0.4 0.1	0.3 0.1	-0.2 0.2	0.1 0.0	0.3 0.3	
Finished goods <sup>3</sup>	FD	49206	19.730	-1.1	-1.3	0.1	-1.6	0.0	0.3	
Finished goods less energy <sup>3</sup>	FD	49208	15.279	3.0	0.5	-0.1	0.0	0.1	0.2	
Finished goods, excluding foods <sup>3, 5</sup>	FD	49209	15.219	-1.5	-1.9	0.7	-1.8	0.4	0.2	
Finished services <sup>3</sup>	FD	49210	56.981	2.4	0.0	0.2	0.2	0.0	0.4	
Private capital investment services.		49211	8.045	0.4	0.2	-0.1	0.4	-1.1	0.8	
Finished distributive services <sup>3, 6</sup> .  Finished services less trade services <sup>3</sup> .		49212	19.616	-0.3	-0.8	-0.1	0.8	-0.7	0.4	
Finished services less trade services <sup>-</sup> .  Finished services less distributive services <sup>3, 6</sup> .	FD FD	49213 49214	39.932 37.365	2.9 3.8	0.2 0.3	0.2 0.4	-0.1 0.0	0.3 0.3	0.3 0.3	
Total private capital investment (goods, services, and construction)	1	49215	14.938	2.1	0.3	0.0	0.3	-0.6	0.3	
Finished goods plus finished distributive services <sup>3, 6</sup>	FD	49216	39.346	-0.8	-1.0	0.2	-0.5	-0.2	0.3	
Total exports	FD	49301	13.542	-0.9	-0.4	0.0	-0.3	-0.6	0.4	
Goods for export.	FD	49302	7.607	-3.8	-0.3	0.0	-0.8	-0.7	-0.1	
Services for export.	FD	49303	5.935	3.2	-0.4	0.0	0.4	-0.5	1.0	
Total government purchases	FD FD	49401 49402	7.889 3.315	-2.0 -8.1	-0.6 -1.4	-0.4 -1.4	-0.9 -2.2	-0.2 -0.3	0.4 0.1	
Government purchased goods.	FD	49403	3.760	3.3	-0.1	0.5	0.1	-0.5	0.9	
Total government purchased capital investment (goods, services, construction)	FD	49404	2.073	2.4	0.1	0.0	0.2	-0.5	0.0	
Government purchases, defense		49405	2.344	-3.6	-0.5	-1.1	-1.0	-0.2	0.8	
Government purchases, non-defense		49406	5.545	-1.4	-0.7	0.0	-0.8	-0.2	0.2	
Personal consumption		49501	63.629	1.2	-0.5	0.3	-0.4	0.2	0.3	
Personal consumption goods (finished consumer goods)	1	49502 49503	14.693 10.242	-2.9 2.3	-1.9 0.5	0.6 -0.2	-2.3 -0.2	0.4 0.1	0.1 0.2	
Personal consumption goods less foods.	1	49504	10.242	-4.2	-2.9	1.0	-0.2	0.1	0.2	
Personal consumption nondurable goods less foods.	1	49508	7.892	-5.6	-3.8	1.4	-3.7	0.7	0.1	
Personal consumption services	FD	49505	48.936	2.7	-0.1	0.3	0.2	0.2	0.3	
Personal consumption less trade services.	1	49506	49.774	1.1	-0.4	0.3	-0.8	0.3	0.3	
Personal consumption less distributive services <sup>6</sup>	FD	49507	47.711	1.6	-0.4	0.5	-0.8	0.4	0.3	
Personal consumption less foods and energy	FD	49510	54.667	2.8	0.0	0.2	0.2	0.1	0.3	
Personal consumption less foods, energy, and trade services <sup>4</sup> Personal consumption less foods, energy, and distributive services <sup>6</sup>	FD FD	49511 49512	40.812 38.749	3.3 3.9	0.2 0.3	0.2 0.3	-0.1 0.0	0.2 0.3	0.4 0.4	
Personal consumption goods plus personal consumption distributive services <sup>6</sup>	1	49512	30.611	-1.4	-1.4	0.3	-0.7	0.3	0.4	
Intermediate Demand by Commodity Type										
Processed goods										
Processed goods for intermediate demand	ID6	1	100.000	-7.8	-1.0	-0.5	-1.5	-0.5	-0.6	
Materials and components for manufacturing	1	11	42.908	-6.3	-0.4	0.3	-0.2	-0.7	-1.0	
Materials for manufacturing.	1	111	26.996	-10.8	-0.8	0.3	-0.2	-1.0	-1.6	
Materials for food manufacturing	1	1111 1112	4.432 12.302	-6.7 -12.3	0.0 -1.6	-1.1 -0.2	-1.9 -1.5	-1.6 -1.5	0.8 -1.2	
Materials for hondurable manufacturing		1113	10.262	-12.3	-0.1	-0.2 1.4	-1.5 1.9	-1.5 -0.3	-1.2 -3.1	
Components for manufacturing	1	112	15.912	2.2	0.1	0.3	-0.1	0.0	0.0	
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Table 1. Producer price index percentage changes and weights for Final Demand-Intermediate Demand groupings, seasonally adjusted — Continued

[July 2023]

Grouping		nmodity	Relative Impor- tance	Unadjusted 12-month percent change <sup>2</sup>	Seasonally adjusted 1-month percent change <sup>2</sup>					
	Group code	Item code	Dec. 2022 <sup>1</sup>	July 2022 to July 2023 <sup>p</sup>	Feb. to Mar.	Mar. to Apr. <sup>p</sup>	Apr. to May <sup>p</sup>	May to June <sup>p</sup>	June to July <sup>p</sup>	
Components for nondurable manufacturing	ID6	1121	0.793	-1.5	-0.3	0.2	-0.2	-0.6	-0.5	
Components for durable manufacturing	ID6	1122	15.119	2.4	0.2	0.3	0.0	0.0	0.0	
Materials and components for construction	ID6	12	10.348	-0.1	0.4	0.1	0.0	-0.1	0.1	
Materials for construction	ID6	121	4.574	-0.7	0.1	0.1	0.2	0.1	0.3	
Components for construction	ID6	122	5.774	0.4	0.6	0.1	-0.2	-0.2	0.0	
Processed fuels and lubricants for intermediate demand  Processed fuels and lubricants to manufacturing industries	ID6	13 131	19.830 5.016	-21.8 -18.1	-3.9 -0.7	-2.9 -4.9	-7.0 -4.5	-0.5 0.1	-0.9 -1.2	
Processed fuels and lubricants to manufacturing industries	ID6	132	14.814	-23.1	-0.7 -5.0	-2.3	-4.5 -7.8	-0.8	-0.8	
Containers for intermediate demand.		14	3.107	-0.3	-0.8	-0.2	0.3	-0.5	-0.5	
Supplies for intermediate demand	ID6	15	23.807	-0.4	0.0	-0.3	-0.4	-0.3	0.2	
Supplies to manufacturing industries	ID6	151	3.173	-0.5	0.1	0.0	-0.1	-0.2	-0.3	
Supplies to nonmanufacturing industries	ID6	152	20.634	-0.4	-0.1	-0.3	-0.4	-0.3	0.3	
Supplies to nonmanufacturing industries, feeds	ID6	1521	2.363	-5.1	-1.4	-1.5	-2.9	-0.8	3.1	
Supplies to nonmanufacturing industries, other than feeds	ID6	1522	18.271	0.2	0.1	-0.1	-0.1	-0.2	0.0	
Unprocessed goods										
Unprocessed goods for intermediate demand	ID6	2	100.000	-24.9	-4.7	1.1	-5.3	-1.2	1.7	
Unprocessed foodstuffs and feedstuffs	ID6	21	36.058	-13.3	-0.7	-1.5	-4.6	1.0	-0.9	
Unprocessed nonfood materials.	ID6	22 221	63.942	-30.6	-7.2	2.8	-5.8	-2.6	3.4	
Unprocessed nonfood materials except fuel	ID6 ID6	2211	45.514 43.610	-17.3 -18.4	-4.1 -4.3	6.5 6.8	-6.3 -6.6	-3.1 -3.3	2.7 2.9	
Unprocessed nonfood materials except fuel to manufacturing industries	libo	2211	45.010	-10.4	-4.0	0.0	-0.0	-0.0	2.5	
industries	ID6	2212	1.904	8.4	0.1	0.1	0.0	0.7	0.1	
Unprocessed fuel	ID6	222	18.428	-63.4	-20.0	-15.3	-2.3	0.3	7.3	
Unprocessed fuel to manufacturing industries	ID6	2221	0.982	-28.9	-7.9	-1.9	-2.8	3.1	2.5	
Unprocessed fuel to nonmanufacturing industries	ID6	2222	17.446	-65.4	-21.0	-16.6	-2.3	0.0	7.9	
Services Services for intermediate demand	ID6	3	100.000	4.6	-0.3	0.7	0.2	0.0	0.5	
Trade services for intermediate demand <sup>4</sup>	1	33	18.127	1.1	0.9	0.8	-0.1	-0.6	1.3	
Trade services for manufacturing industries	ID6	331	8.929	1.6	1.8	0.6	-0.4	-1.2	1.1	
Trade services for nonmanufacturing industries	ID6	332	9.198	0.6	0.0	1.0	0.2	-0.1	1.5	
Transportation and warehousing services for intermediate demand	ID6	32	14.516	-3.1	-1.0	-1.1	-0.4	-0.1	0.4	
Transportation of passengers for intermediate demand	ID6	321	1.069	3.3	1.3	-3.0	-0.8	1.8	1.6	
Transportation of passengers for manufacturing industries	ID6	3211	0.127	3.4	1.3	-3.1	-0.8	1.8	1.7	
Transportation of passengers for nonmanufacturing industries	ID6	3212	0.942	3.3	1.3	-3.0	-0.8	1.8	1.6	
Transportation and warehousing of goods for intermediate demand  Transportation and warehousing of goods for manufacturing industries	ID6 ID6	322 3221	13.447 2.941	-3.6 -6.7	-1.1 -1.2	-0.9 -1.7	-0.4 -0.1	-0.2 -0.7	0.3 -0.2	
Transportation and warehousing of goods for nonmanufacturing industries	ID6	3222	10.506	-0.7	-1.1	-0.7	-0.1	-0.7	0.5	
Services less trade, transportation, and warehousing for intermediate demand.	ID6	31	67.357	7.5	-0.5	1.0	0.4	0.1	0.3	
Services less trade, transportation, and warehousing for manufacturing industries.	ID6	311	2.068	4.0	0.2	0.5	0.1	-0.1	0.3	
Services less trade, transportation, and warehousing for nonmanufacturing industries	ID6	312	65.288	7.7	-0.5	1.0	0.5	0.1	0.3	
Construction										
Construction for intermediate demand.	ID6	4	100.000	4.4	0.4	0.1	1.4	0.1	0.3	
Special Groupings of Intermediate Demand by Commodity Type  Processed materials less foods and feeds	ID6	9111	90.968	-8.0	-1.1	-0.5	-1.5	-0.4	-0.7	
Processed materials less foods and feeds	ID6	9111	90.968	-8.0 -5.1	-1.1 -0.2	-0.5 -1.1	-1.5 -1.8	-0.4 -1.1	-0.7 1.4	
Processed negry goods.	ID6	9113	19.830	-21.8	-3.9	-2.9	-7.0	-0.5	-0.9	
Processed materials less energy.	ID6	9118	80.170	-3.7	-0.2	0.1	-0.2	-0.5	-0.5	
Processed materials less foods and energy.	ID6	9115	71.138	-3.5	-0.2	0.2	0.0	-0.4	-0.7	
Intermediate distributive services <sup>7</sup>	ID6	9116	31.574	-0.9	0.0	0.1	-0.2	-0.5	0.9	
Processed goods plus intermediate distributive services	ID6	9117	-	-5.8	-0.7	-0.3	-1.1	-0.5	-0.1	
Unprocessed materials less agricultural products	ID6	9211	58.389	-31.0	-7.2	2.9	-5.8	-3.1	4.9	
Unprocessed energy materials <sup>8</sup>	1	9212	43.623	-38.8	-11.1	3.7	-8.0	-3.0	8.0	
Unprocessed materials less energy.	1	9213	56.377	-12.2	-0.7	-0.3	-3.8	-0.2	-1.8	
Unprocessed nonfood materials less energy <sup>9</sup> Intermediate Demand by Production Flow	סחו	9216	20.319	-10.5	-0.9	1.8	-2.6	-2.0	-3.1	
Stage 4 Intermediate Demand										
Stage 4 intermediate demand	ID5	4	100.000	2.0	-0.3	0.3	-0.1	-0.1	0.3	
Inputs to stage 4 goods producers	ID5	41	30.237	-0.6	0.3	-0.1	0.0	-0.4	-0.2	
Goods		411	22.423	-1.5	-0.3	-0.1	-0.2	-0.1	-0.5	

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

[July 2023]

Grouping		modity ode	Relative Impor- tance	Unadjusted 12-month percent change <sup>2</sup>	Seaso	onally adjus	ted 1-month	n percent ch	ıange <sup>2</sup>
G. Gopping	Group code	Item code	Dec. 2022 <sup>1</sup>	July 2022 to July 2023 <sup>p</sup>	Feb. to Mar.	Mar. to Apr. <sup>p</sup>	Apr. to May <sup>p</sup>	May to June <sup>p</sup>	June to July <sup>p</sup>
Foods	ID5	4111	3.300	-7.0	-2.1	-0.3	-2.1	-0.4	-1.3
o,	ID5	4112	0.220	-17.4	6.3	-14.4	-10.4	4.1	0.7
Goods excluding foods and energy	ID5	4113	18.903	-0.4	0.0	0.2	0.3	-0.1	-0.4
	ID5	412	7.814	2.0	2.0	-0.1	0.5	-1.2	0.7
Trade services  Transportation and warehousing services	ID5	4123 4122	5.817 0.515	2.1 -4.8	2.8 -0.6	-0.2 -1.5	0.7 -0.6	-1.6 -0.2	0.9 0.3
,	ID5	41221	0.077	3.4	1.3	-3.1	-0.8	1.8	1.7
Transportation and warehousing of goods		41222	0.438	-6.2	-1.0	-1.2	-0.6	-0.5	0.1
	ID5	4121	1.482	4.3	-0.1	0.7	0.1	0.2	0.4
Inputs to stage 4 services producers	ID5	42	54.970	4.8	-0.6	0.5	0.1	0.1	0.6
Goods	ID5	421	13.984	-1.3	-0.8	-0.7	-0.7	0.1	0.0
Foods	ID5	4211	2.360	-4.8	0.1	-1.4	-0.5	-0.3	1.3
Energy	ID5	4212	4.133	-5.1	-2.8	-1.4	-2.0	0.4	-0.8
Goods excluding foods and energy	ID5	4213	7.491	1.8	0.1	-0.1	-0.1	0.0	0.0
	ID5	422	40.934	7.2	-0.5	0.9	0.3	0.1	0.8
Trade services  Transportation and warehousing services	ID5 ID5	4223 4222	4.078 3.742	2.8 1.1	0.5 -0.4	0.7 -0.8	0.6 -1.1	-0.7 0.0	1.3 1.4
	ID5	42221	0.490	3.4	1.3	-3.0	-0.8	1.8	1.7
Transportation and warehousing of goods		42222	3.252	0.8	-0.7	-0.4	-1.1	-0.3	1.3
	ID5	4221	33.114	8.6	-0.6	1.1	0.5	0.2	0.7
Construction	ID5	423	0.052	4.4	0.4	0.1	1.4	0.1	0.3
Inputs to stage 4 construction producers	ID5	43	14.792	-2.3	-0.2	0.3	-1.0	0.1	0.1
Goods	ID5	431	10.801	-2.4	-0.4	0.3	-1.0	0.1	-0.1
o,	ID5	4312	0.855	-28.8	-7.7	2.9	-12.0	1.4	-2.1
6,	ID5	4313	9.946	0.8	0.3	0.1	0.1	0.0	0.1
	ID5	432	3.991	-2.1	0.4	0.1	-1.1	0.0	0.8
Trade services  Transportation and warehousing services	ID5 ID5	4323 4322	1.692 0.725	-2.9 -10.2	1.4 -1.4	0.6 -2.4	-2.5 -0.6	0.2 -0.6	1.5 -0.1
Transportation of passengers.	ID5	43221	0.725	3.4	1.3	-2.4	-0.8	1.8	1.7
· · · · · · · · · · · · · · · · · · ·	ID5	43222	0.710	-10.5	-1.4	-2.4	-0.6	-0.7	-0.1
	ID5	4321	1.574	3.7	0.1	0.7	0.2	0.1	0.3
Stage 3 Intermediate Demand									
<u> </u>	ID5	3	100.000	-6.9	-0.7	-0.2	-1.4	-0.2	-0.6
I	ID5	31	45.352	-10.8	-0.1	-0.5	-1.8	-0.1	-1.4
Goods	ID5	311	35.807	-12.9	-0.3	-0.6	-1.9	0.0	-2.0
	ID5	3111	11.906	-17.6	-0.2	-2.2	-5.6	1.4	-2.2
Energy		3112	1.292	-32.9	2.5	-7.0	-7.1	0.5	-2.0
0,	ID5	3113	22.609	-8.9	-0.6	0.6	0.2	-0.6	-1.9
	ID5 ID5	312 3123	9.545 5.175	-2.2 -0.3	0.6	0.1	-1.3 -2.2	-0.7 -0.9	0.4 0.7
	ID5	3123	3.002	-0.3 -8.0	1.7 -1.3	1.0 -2.1	-2.2 -0.2	-0.9 -0.5	0.7
·	ID5	31221	0.144	3.4	1.3	-3.1	-0.8	1.8	1.7
	ID5	31222	2.858	-8.6	-1.5	-2.0	-0.2	-0.7	-0.1
Services less trade, transportation, and warehousing	ID5	3121	1.368	4.4	0.1	0.7	0.3	0.1	0.3
Inputs to stage 3 services producers	ID5	32	53.518	-3.2	-1.2	0.0	-1.1	-0.2	0.0
Goods		321	10.628	-23.6	-3.5	-3.2	-6.7	-0.8	-1.2
	ID5	3211	0.090	-0.4	-1.0	-2.6	0.4	-1.4	0.0
Energy		3212	6.619	-34.5	-5.4	-5.1	-10.7	-1.2	-2.0
Goods excluding foods and energy	ID5	3213 322	3.919 42.317	-0.3 3.6	-0.3 -0.6	-0.1 0.8	-0.3 0.2	-0.2 -0.1	-0.1 0.3
	ID5	3223	2.614	3.0	-0.0	2.3	-0.8	0.4	2.1
	ID5	3222	10.018	-2.0	-1.2	-0.4	-0.4	0.2	0.4
	ID5	32221	0.021	0.2	0.2	-0.3	0.0	-0.1	0.2
	ID5	32222	9.997	-2.0	-1.2	-0.4	-0.4	0.2	0.4
	ID5	3221	29.685	5.5	-0.5	1.1	0.5	-0.2	0.1
Construction	ID5	323	0.573	4.4	0.4	0.1	1.4	0.1	0.3
, ,	ID5	33	1.131	-4.4	-0.1	-0.6	-0.4	0.9	1.2
	ID5	331	0.566	-3.2	-0.4	-0.2	-0.1	0.1	0.1
0,	ID5	3313	0.566	-3.2	-0.4	-0.2	-0.1	0.1	0.1
Services	ID5	332 3323	0.565 0.521	-4.8 -5.2	0.2 0.3	-1.0 -1.1	-0.6 -0.7	1.8 1.9	2.3 2.5
	ID5	3322	0.015	-1.7	-1.4	-0.1	0.4	-0.8	0.2
Transportation and warehousing services			1 0.010						
Transportation and warehousing services	ID5	33222	0.015	-1.7	-1.4	-0.1	0.4	-0.8	0.2
·		33222 3321	0.015 0.029	-1.7 4.9	-1.4 -0.1	-0.1 0.4	0.4 0.3	-0.8 -0.2	0.2

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

[July 2023]

Grouping		nmodity code	Relative Impor- tance	Unadjusted 12-month percent change <sup>2</sup>	Seasonally adjusted 1-month percent change <sup>2</sup>					
Стоирту	Group code	Item code	Dec. 2022 <sup>1</sup>	July 2022 to July 2023 <sup>p</sup>	Feb. to Mar.	Mar. to Apr. <sup>p</sup>	Apr. to May <sup>p</sup>	May to June <sup>p</sup>	June to July <sup>p</sup>	
Stage 2 intermediate demand	ID5	2	100.000	-8.5	-2.5	0.9	-1.3	-1.1	1.4	
Inputs to stage 2 goods producers	ID5	21	54.274	-18.9	-4.1	1.3	-3.0	-2.1	2.8	
Goods	ID5	211	40.812	-24.9	-5.5	1.5	-4.5	-2.6	3.8	
Foods	ID5	2111	4.355	-5.9	-3.0	-0.4	-2.5	-3.2	4.5	
Energy	ID5	2112	21.042	-39.2	-11.0	3.2	-8.5	-3.3	8.7	
Goods excluding foods and energy	ID5	2113	15.415	-7.8	0.0	0.2	-0.8	-1.8	-1.1	
Services.	ID5	212	13.197	3.6	-0.3	0.8	0.7	-0.9	0.4	
Trade services  Transportation and warehousing services	ID5 ID5	2123 2122	5.150 4.488	2.7 -0.5	0.1 -0.6	2.1 -0.8	1.2 0.2	-1.4 -0.7	1.2 -0.3	
Transportation of passengers	ID5	21221	0.168	3.3	1.3	-2.9	-0.7	1.7	1.6	
Transportation and warehousing of goods	ID5	21222	4.320	-0.6	-0.6	-0.7	0.3	-0.8	-0.4	
Services less trade, transportation, and warehousing	ID5	2121	3.559	10.6	-0.7	1.0	0.6	-0.2	0.0	
Construction	ID5	213	0.265	4.4	0.4	0.1	1.4	0.1	0.3	
Inputs to stage 2 services producers	ID5	22	45.725	5.6	-0.8	0.6	0.4	-0.1	-0.1	
Goods	ID5	221	5.072	-3.3	-0.6	-0.3	-1.0	-0.3	-0.1	
Foods.	ID5	2211	0.055	-15.1	-2.8	-0.8	-2.9	-1.9	-0.3	
Energy	ID5	2212	0.357	-28.8	-6.8	-2.8	-11.9	-1.2	-0.2	
Goods excluding foods and energy	ID5	2213	4.660	-0.9	0.0	-0.1	-0.2	-0.2	-0.1	
Services.	ID5	222	39.767	7.0	-0.9	0.7	0.6	0.0	-0.1	
Trade services.	ID5 ID5	2223 2222	2.238 2.862	0.4 -12.1	-3.4 -2.3	0.6 -1.8	3.6 -0.7	-0.9 1.3	-0.9 -0.7	
Transportation and warehousing services  Transportation of passengers	ID5	22221	0.390	3.4	1.3	-3.0	-0.7	1.8	1.7	
Transportation and warehousing of goods	ID5	22222	2.472	-14.4	-2.9	-1.5	-0.7	1.2	-1.1	
Services less trade, transportation, and warehousing	ID5	2221	34.667	9.2	-0.6	0.9	0.5	-0.1	0.0	
Construction	ID5	223	0.886	4.4	0.4	0.1	1.4	0.1	0.3	
Stage 1 Intermediate Demand										
Stage 1 intermediate demand	ID5	1	100.000	-3.1	-0.4	-0.1	-0.9	-0.2	0.0	
Inputs to stage 1 goods producers.		11	33.533	-8.1	-0.7	-0.4	-1.4	-0.7	-0.6	
Goods	1	111	24.780	-11.3	-1.2	-0.8	-1.5	-0.8	-1.3	
Foods	ID5	1111	3.351	-12.9	-4.4	-0.8	-3.1	-0.4	-2.6	
Energy	ID5	1112	3.963	-19.3	-0.8	-7.3	-7.5	0.0	0.8	
Goods excluding foods and energy	ID5	1113	17.466	-9.3	-0.7	0.6	0.0	-1.1	-1.4	
Services	ID5	112	8.752	1.1	0.6	0.7	-1.1	-0.4	1.1	
Trade services	ID5	1123	5.298	-0.3	1.2	1.0	-1.9	-0.8	1.2	
Transportation and warehousing services.	ID5	1122	0.599	-0.4	-2.3	-0.6	2.0	-0.9	0.7	
Transportation and warehousing of goods	ID5 ID5	11221 11222	0.103	3.4 -1.3	1.3 -3.0	-3.1 0.0	-0.8 2.6	1.8 -1.5	1.7 0.5	
Transportation and warehousing of goods	ID5	1121	0.496 2.855	4.7	0.0	0.5	-0.3	0.3	1.0	
Construction	ID5	113	0.001	4.4	0.4	0.1	1.4	0.0	0.3	
Inputs to stage 1 services producers		12	53.646	0.8	-0.3	0.2	-0.6	0.1	0.3	
Goods	ID5	121	16.434	-8.3	-1.2	-0.7	-2.5	-0.6	-0.8	
Foods	ID5	1211	0.115	-32.5	6.2	3.0	-26.6	-12.8	-0.1	
Energy	ID5	1212	5.528	-24.9	-3.6	-2.6	-7.0	-1.5	-2.5	
Goods excluding foods and energy	1	1213	10.791	2.7	0.0	0.3	0.0	-0.1	0.0	
Services	ID5	122	37.209	5.7	0.0	0.5	0.2	0.4	0.7	
Trade services.		1223	3.617	2.5	0.4	0.8	0.2	-0.1	1.3	
Transportation and warehousing services.	ID5 ID5	1222 12221	4.373	0.7 3.4	-0.2 1.3	-1.5 -3.1	-0.4 -0.8	0.4	1.4 1.7	
Transportation of passengers	ID5	12221	1.342 3.031	-0.6	-0.9	-0.8	-0.6 -0.2	1.8 -0.3	1.7	
Services less trade, transportation, and warehousing	ID5	1221	29.219	6.9	0.0	0.8	0.2	0.4	0.5	
Construction.	ID5	123	0.003	4.4	0.4	0.1	1.4	0.1	0.3	
Inputs to stage 1 construction producers		13	12.821	-5.0	0.0	-0.6	-1.1	0.0	0.2	
Goods	1	131	9.208	-4.4	-0.1	-0.4	-1.2	-0.3	-0.4	
Energy	ID5	1312	0.934	-41.5	-3.8	-5.6	-13.0	-3.4	-5.4	
Goods excluding foods and energy	1	1313	8.274	1.2	0.3	0.1	0.0	0.0	0.0	
Services	ID5	132	3.613	-6.1	0.3	-1.0	-1.0	0.9	1.7	
Trade services	1	1323	2.667	-4.1	0.9	-0.5	-1.2	1.4	2.2	
Transportation and warehousing services	ID5	1322	0.854	-11.9	-1.7	-2.8	-0.3	-0.7	-0.1	
Transportation and warehousing of goods	ID5 ID5	13222 1321	0.854 0.092	-11.9 7.2	-1.7 0.5	-2.8 1.0	-0.3 -0.1	-0.7 0.0	-0.1 0.6	
	פטון	1021	0.092	1.2	0.5	1.0	-0.1	0.0	0.0	
Special Groupings of Intermediate Demand by Production Flow										
Total goods inputs to stage 4 intermediate demand	ID5	9411	47.208	-1.6	-0.5	-0.2	-0.5	0.0	-0.3	
Total services inputs to stage 4 intermediate demand	ID5	9412	52.739	5.5	-0.1	0.7	0.2	-0.1	0.8	
Total construction inputs to stage 4 intermediate demand	ID5 ID5	9413 9414	0.052 5.660	4.4 -6.0	0.4 -1.2	0.1 -0.7	1.4 -1.4	0.1 -0.4	0.3 -0.2	
		274 14		-D ()		-1.7			-0.7	

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

[July 2023]

Grouping	Commodity code		Relative Impor- tance	Unadjusted 12-month percent change <sup>2</sup>	Seasonally adjusted 1-month percent change <sup>2</sup>					
	Group Item code	Dec. 2022 <sup>1</sup>	July 2022 to July 2023 <sup>p</sup>	Feb. to Mar.	Mar. to Apr. <sup>p</sup>	Apr. to May <sup>p</sup>	May to June <sup>p</sup>	June to July <sup>p</sup>		
Total energy goods inputs to stage 4 intermediate demand	ID5	9415	5.208	-10.5	-3.4	-1.2	-4.1	0.7	-0.9	
Total goods less foods and energy inputs to stage 4 intermediate demand	ID5	9416	36.340	0.4	0.1	0.1	0.1	-0.1	-0.2	
Total goods inputs to stage 3 intermediate demand	ID5	9311	47.001	-15.4	-1.1	-1.2	-2.9	-0.1	-1.8	
Total services inputs to stage 3 intermediate demand	ID5	9312	52.427	2.2	-0.4	0.6	-0.1	-0.2	0.3	
Total construction inputs to stage 3 intermediate demand	ID5	9313	0.573	4.4	0.4	0.1	1.4	0.1	0.3	
Total foods inputs to stage 3 intermediate demand	ID5	9314	11.996	-17.5	-0.2	-2.2	-5.5	1.4	-2.2	
Total energy goods inputs to stage 3 intermediate demand	ID5	9315	7.911	-34.3	-4.1	-5.4	-10.1	-0.9	-2.0	
Total goods less foods and energy inputs to stage 3 intermediate demand	ID5	9316	27.094	-7.7	-0.5	0.5	0.1	-0.5	-1.6	
Total goods inputs to stage 2 intermediate demand	ID5	9211	45.884	-22.7	-4.9	1.2	-4.0	-2.4	3.3	
Total services inputs to stage 2 intermediate demand	ID5	9212	52.964	6.2	-0.7	0.7	0.6	-0.2	0.0	
Total construction inputs to stage 2 intermediate demand	ID5	9213	1.151	4.4	0.4	0.1	1.4	0.1	0.3	
Total foods inputs to stage 2 intermediate demand	ID5	9214	4.410	-6.0	-2.9	-0.4	-2.5	-3.2	4.4	
Total energy goods inputs to stage 2 intermediate demand	ID5	9215	21.399	-39.0	-10.9	3.0	-8.6	-3.3	8.5	
Total goods less foods and energy inputs to stage 2 intermediate demand	ID5	9216	20.075	-6.3	0.0	0.2	-0.6	-1.5	-0.9	
Total goods inputs to stage 1 intermediate demand	ID5	9111	50.422	-9.1	-1.0	-0.7	-1.8	-0.7	-0.9	
Total services inputs to stage 1 intermediate demand	ID5	9112	49.574	3.7	0.2	0.5	-0.1	0.2	0.8	
Total construction inputs to stage 1 intermediate demand	ID5	9117	0.004	4.4	0.4	0.1	1.4	0.1	0.3	
Total foods inputs to stage 1 intermediate demand	ID5	9114	3.466	-13.5	-4.1	-0.7	-3.9	-0.7	-2.5	
Total energy goods inputs to stage 1 intermediate demand	ID5	9115	10.425	-24.9	-2.6	-4.6	-7.7	-1.1	-1.5	
Total goods less foods and energy inputs to stage 1 intermediate demand	ID5	9116	36.531	-3.5	-0.2	0.4	0.0	-0.5	-0.7	

<sup>&</sup>lt;sup>1</sup> 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.

<sup>&</sup>lt;sup>2</sup> 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.

<sup>&</sup>lt;sup>3</sup> PPI defines Total finished as including only the personal consumption and private capital investment portions of final demand.

<sup>&</sup>lt;sup>4</sup> Trade indexes measure changes in margins received by wholesalers and retailers.

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.

 $<sup>^{\</sup>rm 6}$  Distributive services include transportation, warehousing, and trade of goods.

<sup>&</sup>lt;sup>7</sup> Includes intermediate trade, transportation, and warehousing services.

<sup>&</sup>lt;sup>8</sup> Includes crude petroleum.

<sup>&</sup>lt;sup>9</sup> Excludes crude petroleum.

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<sup>&</sup>quot;-" Data not available.

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

[July 2023]

Grouping		nmodity code	Unadjusted 12-month percent change <sup>1</sup>	Seasonally adjusted 1-month percent change <sup>1</sup>						
	Group code	Item code	July 2022 to July 2023 <sup>p</sup>	Feb. to Mar.	Mar. to Apr. <sup>p</sup>	Apr. to May <sup>p</sup>	May to June <sup>p</sup>	June to July <sup>p</sup>		
Final Demand										
inal demand	FD	4	0.8	-0.4	0.2	-0.3	0.0	0.3		
Final demand goods.		41	-2.5	-1.1	0.2	-1.5	0.0	0.3		
Final demand foods.		411	-0.2	0.2	-0.4	-1.0	-0.2	0.5		
Fresh fruits and melons <sup>2</sup>	1	11	-7.8	-3.2	2.4	-2.5	2.1	-10.2		
Fresh and dry vegetables <sup>2</sup>	01	13	11.9	-7.5	35.1	-15.8	-0.8	3.5		
Grains	1	2	-19.1	-7.4	2.7	-5.5	1.9	-8.7		
Eggs for fresh use <sup>2</sup>	01	7107	-56.7	33.2	-35.8	-53.4	33.8	0.3		
Oilseeds	01	8301	-3.7	-4.2	0.5	-1.2	-6.9	9.0		
Bakery products <sup>2</sup>		11	6.9	0.5	0.1	0.3	0.5	0.5		
Milled rice <sup>2</sup>	02	13	11.4	0.4	-0.3	-0.8	-0.1	-0.2		
Pasta products <sup>2</sup>		1402	1.6	0.0	-8.4	0.0	0.0	-2.0		
Beef and veal	1	2101	19.2	1.4	-3.1	7.7	2.1	4.8		
Pork	1	2104	-3.6	3.2	-6.5	-3.9	-0.7	6.8		
Processed young chickens		2203	-20.8	2.2	-1.3	-0.6	-0.5	0.4		
Processed turkeys <sup>2</sup>	1	2206	-32.3	-10.7	-6.8	-8.9	-7.4	-3.0		
Finfish and shellfish		23	0.5	0.6	-1.4	1.3	-1.9	0.9		
Dairy products		3	-12.7	-1.7	-0.2	-1.3	-2.1	-1.5		
Processed fruits and vegetables <sup>2</sup>		4	12.5	0.7	0.2	1.3	0.9	0.1		
Confectionery end products <sup>2</sup>	02	55	4.7	0.2	0.3	0.3	1.5	1.0		
Soft drinks <sup>2</sup>		62	12.6	0.0	-0.9	3.2	0.7	-2.4		
Roasted coffee <sup>2</sup>		6301	7.9	-0.4	0.3	0.2	-0.1	0.0		
Shortening and cooking oils <sup>2</sup>		78	-13.4	-1.6	-1.4	-2.4	-1.8	3.2		
Frozen specialty food <sup>2</sup>		85 412	7.0 -16.8	1.0 -6.1	0.2 0.7	1.2 -6.9	0.0 0.7	0.0		
Final demand energy	1	32	-16.6	-0.1 -11.4	-3.1	-6.9 -17.2	-8.3	24.6		
Residential electric power.		41	6.3	-11.4 -1.1	-3.1 -0.1	0.4	-o.s 0.9	-0.5		
Residential natural gas.	1	51	-10.0	-1.1 -7.4	-0.1 -4.7	-1.3	-0.7	1.8		
Gasoline.	1	71	-24.5	-11.6	8.1	-13.6	3.2	-1.1		
Home heating oil and distillates.	1	7302	-32.8	-4.1	-7.8	-12.3	1.3	13.3		
No. 2 diesel fuel.	1	7303	-45.2	-6.3	-3.6	-13.6	-5.4	-7.1		
Final demand goods less foods and energy	1	413	1.9	0.2	0.1	0.1	-0.2	0.0		
Alcoholic beverages		61	3.9	0.0	0.1	0.3	0.0	0.2		
Pet food <sup>2</sup>		9402	8.7	5.7	0.0	0.0	0.0	0.0		
Women's, girls', and infants' apparel <sup>2</sup>	03	8106	-1.2	0.0	0.0	0.1	0.1	0.1		
Men's and boys' apparel <sup>2</sup>	03	8107	4.5	0.1	0.0	2.3	0.0	-0.5		
Textile housefurnishings <sup>2</sup>	03	82	2.0	0.2	-0.1	0.0	0.1	0.3		
Footwear	04	3	7.0	-0.6	0.5	0.0	0.4	0.1		
Industrial chemicals		1	-17.4	-2.8	-0.5	-2.0	-1.7	-1.8		
Pharmaceutical preparations	06	38	2.4	0.0	0.3	0.0	0.1	0.2		
Soaps and detergents <sup>2</sup>		71	11.9	0.1	0.1	0.0	-0.1	0.1		
Cleaning and polishing products <sup>2</sup>		72	4.3	0.2	0.3	0.1	0.1	0.0		
Cosmetics and other toiletries <sup>2</sup>		75	6.0	0.6	0.2	0.5	0.4	0.0		
Tires <sup>2</sup>		1201	6.2	0.0	0.3	-0.2	-0.3	0.0		
Consumer, institutional, and commercial products, n.e.c. <sup>2</sup>		2B	0.3	-0.3	0.1	-0.1	0.0	0.1		
Sanitary paper products <sup>2</sup>		1501	7.2	0.1	0.0	0.4	0.4	0.0		
Iron and steel scrap.	1	12	-12.5	3.1	5.6	-6.2	-10.7	2.0		
Agricultural machinery and equipment.		1	4.5	0.3	0.4	0.3	-0.2	0.5		
Construction machinery and equipment <sup>2</sup>		2	9.3	0.3	0.3	0.1	0.0	1.6		
Metal cutting machine tools <sup>2</sup>	1	37 38	4.4	0.1	0.0	0.5	0.0	0.5		
Metal forming machine tools		39	5.5 5.9	0.1 2.0	0.1 0.2	1.8 0.1	0.2 0.7	0.3 0.1		
Pumps, compressors, and equipment.	1	41	8.0	0.4	-0.1	0.1	0.7	0.1		
Industrial material handling equipment <sup>2</sup>		44	5.6	0.4	0.0	0.5	0.4	0.1		
Electronic computers and computer equipment <sup>2</sup>		5	-1.1	-0.1	-0.8	-0.5	-1.6	-0.2		
Textile machinery and equipment <sup>2</sup>		62	-0.1	0.0	0.0	0.0	0.0	0.0		
Paper industries machinery <sup>2</sup>		64	8.2	0.4	0.0	0.5	1.8	0.0		
Printing trades machinery and equipment <sup>2</sup>		65	1.8	0.4	0.3	0.2	-0.3	0.1		
Transformers and power regulators <sup>2</sup>		74	3.0	0.6	0.3	0.3	0.8	2.5		
Communication and related equipment		76	2.3	0.3	0.4	0.0	0.5	0.1		
Electronic components and accessories.		78	0.5	0.0	-0.4	-1.1	0.3	0.6		
X-ray and electromedical equipment <sup>2</sup>		7905	2.8	0.0	0.0	0.1	0.0	1.2		
Oil field and gas field machinery <sup>2</sup>		91	6.9	0.3	0.3	0.0	0.0	0.0		
Mining machinery and equipment <sup>2</sup>		92	10.3	0.0	4.1	0.3	0.0	0.4		
Internal combustion engines <sup>2</sup>		94	6.5	0.0	0.3	0.0	0.1	0.6		

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

[July 2023]

Grouping		nmodity code	Unadjusted 12-month percent change <sup>1</sup>	Seasonally adjusted 1-month percent change <sup>1</sup>					
, •	Group code	Item code	July 2022 to July 2023 <sup>p</sup>	Feb. to Mar.	Mar. to Apr. <sup>p</sup>	Apr. to May <sup>p</sup>	May to June <sup>p</sup>	June July <sup>f</sup>	
Household furniture <sup>2</sup>	12	1	1.9	0.2	-0.3	-0.1	0.4	0.3	
Commercial furniture <sup>2</sup>	12	2	5.5	0.5	-0.1	0.5	-0.3	0.7	
Floor coverings <sup>2</sup>	12	3	2.0	-0.2	0.4	-0.2	-0.4	0.0	
Household appliances <sup>2</sup>	12	4	1.7	-0.4	0.2	1.1	0.1	-0.4	
Home electronic equipment <sup>2</sup>		5	2.8	0.0	0.0	0.0	0.0	0.0	
Lawn and garden equipment excl. garden tractors <sup>2</sup>	12	66	3.7	-0.1	0.3	-0.3	0.0	0.0	
Passenger cars	14	1101	-1.7	-0.4	-0.8	-0.3	-0.7	0.2	
Light motor trucks	14	1105	3.5	0.5	-0.4	0.1	-0.2	0.4	
Heavy motor trucks <sup>2</sup>	14	1106	1.6	0.0	0.1	0.1	0.3	0.0	
Motor vehicles parts <sup>2</sup>	14	12	1.9	0.2	0.2	0.2	-0.1	0.2	
Truck trailers <sup>2</sup>	14	14	-2.0	0.0	0.5	-0.2	0.0	-0.8	
Travel trailers and campers <sup>2</sup>	14	16	2.5	0.1	0.0	0.0	0.0	0.5	
Aircraft	14	21	4.3	0.6	0.5	0.5	0.3	0.1	
Ships <sup>2</sup>	14	31	2.0	0.6	0.1	0.8	0.0	0.7	
Railroad equipment <sup>2</sup>	14	4	2.1	0.8	0.0	0.0	0.0	0.4	
Toys, games, and children's vehicles <sup>2</sup>	15	11	2.3	0.3	0.0	0.0	0.0	0.0	
Sporting and athletic goods <sup>2</sup>		12	6.1	-0.4	-0.3	0.4	0.0	0.0	
Cigarettes <sup>2</sup>	15	21	12.2	0.0	0.0	1.9	0.0	1.1	
Mobile homes <sup>2</sup>	15	5	-4.8	-0.2	0.0	0.5	0.2	0.0	
Medical, surgical & personal aid devices	15	6	3.0	0.3	-0.2	0.1	0.8	-0.	
Jewelry, platinum and karat gold <sup>2</sup>	15	9402	4.9	0.9	1.5	1.0	-1.7	-0.5	
Costume jewelry and novelties <sup>2</sup>	15	9404	9.9	0.0	1.1	0.9	0.0	2.6	
al demand services	FD	42	2.5	-0.1	0.2	0.2	-0.1	0.5	
Final demand trade services <sup>3</sup>	1	423	1.2	-0.6	0.4	0.9	-0.8	0.7	
Machinery and equipment parts and supplies wholesaling <sup>2</sup>	57	1102	3.4	4.9	-2.7	2.8	-2.1	0.9	
Machinery and vehicle wholesaling <sup>2</sup>	1	1103	0.5	-2.3	1.2	0.8	-5.0	3.7	
Professional and commercial equipment wholesaling <sup>2</sup>	1	1104	3.0	5.1	-2.7	1.2	-0.6	-1.4	
Furnishings wholesaling <sup>2</sup>	1	2	-2.0	1.1	-0.3	-6.9	1.1	0.0	
Chemicals and allied products wholesaling <sup>2</sup>		5	5.0	-3.2	1.6	0.4	0.1	2.4	
Paper and plastics products wholesaling <sup>2</sup>		6	2.6	0.5	0.3	0.3	-0.4	-0.9	
Apparel wholesaling <sup>2</sup>		7	7.7	-5.6	7.1	-5.5	3.2	-1.2	
Food and alcohol wholesaling <sup>2</sup>	1	8	3.1	0.5	2.7	2.2	-2.3	0.6	
Food and alcohol retailing		1	8.0	1.1	-1.0	1.5	2.3	-2.5	
Health, beauty, and optical goods retailing <sup>2</sup>	1	2	2.8	-1.0	-0.6	1.6	-0.6	-0.4	
Apparel, jewelry, footwear, and accessories retailing	1	3	3.5	0.8	-4.1	4.5	-1.8	-1.2	
Computer hardware, software, and supplies retailing <sup>2</sup>	1	4	-26.4	2.2	-2.3	-0.6	-1.7	-0.3	
TV, video, and photographic equipment and supplies retailing		5	-5.4	6.8	1.3	-8.7	12.6	-3.9	
Automobiles retailing (partial)	1	6101	-24.6	-0.8	-2.4	-1.2	-1.8	0.5	
Automotive parts, including tires, retailing <sup>2</sup>	1	6102	1.4	-1.9	-3.8	0.8	1.6	-0.2	
RVs, trailers, and campers retailing <sup>2</sup>	1	8	-19.5	9.1	-2.2	9.3	-4.0	0.2	
Sporting goods, including boats, retailing	1	9	4.5	-0.4	2.9	0.4	-1.6	3.	
Lawn, garden, and farm equipment and supplies retailing <sup>2</sup>		A	17.8	12.4	1.5	-1.3	0.1	2.	
Furniture retailing <sup>2</sup>	1	В	3.7	-2.2	2.0	0.9	1.0	-1.1	
Flooring and floor coverings retailing <sup>2</sup>	1	С	-2.6	0.9	-0.1	-0.5	0.9	0.4	
Hardware, building materials, and supplies retailing		D	-7.7	0.4	-2.6	0.3	4.6	5.0	
Major household appliances retailing.	1	E	-3.4	-8.4	3.3	-4.0	-1.4	-0.2	
Fuels and lubricants retailing.	1	F	-9.9	-12.8	-1.0	12.1	-2.3	-8.4	
Cleaning supplies and paper products retailing <sup>2</sup>		G	6.5	-0.1	6.0	-1.9	3.1	-3.	
Book retailing <sup>2</sup>	1	Н	-0.1	0.6	0.1	0.3	0.5	0.0	
Final demand transportation and warehousing services		422	-6.0	-0.7	-2.4	-0.4	0.0	0.9	
Rail transportation of freight and mail <sup>2</sup>	1	11	-1.7	-0.2	-0.2	-0.9	-0.4	-0.	
Truck transportation of freight <sup>2</sup>		12	-12.4	-1.6	-3.0	-0.5	-0.7	-0.2	
Air transportation of freight <sup>2</sup>		14	-8.4	-2.7	0.2	-0.5	-1.3	2.5	
Courier, messenger, and U.S. postal services	1	16	4.6	-0.4	0.0	0.1	-0.1	1.0	
Rail transportation of passengers.	1	21	0.0	0.1	-0.1	0.1	-0.2	0.	
Airline passenger services.	1	22	3.4	1.3	-3.1	-0.8	1.8	1.3	
Final demand services less trade, transportation, and warehousing		421	4.2	0.2	0.5	0.0	0.3	0.3	
Sales of books.	1	11	6.8	0.2	1.1	0.3	0.5	0.9	
Sales and subscriptions of periodicals and newspapers.		12	1.5	-0.5	0.0	0.3	-0.3	0.2	
Application software publishing <sup>2</sup>	1	2	-3.1	0.5	-0.4	1.1	-0.1	-2.2	
Advertising space sales in periodicals, newspapers, directories, and	] .	-	]	3.0	J. 1	***	5.1		
mailing lists <sup>2</sup>	36	1	4.2	0.9	0.0	0.0	0.0	0.0	
Residential wired telecommunication services <sup>2</sup>		11	7.0	0.4	1.3	1.4	0.2	-0.	
Wireless telecommunication services	37	2	1.9	0.1	0.1	0.6	0.2	0.1	
Cable and satellite subscriber services		3	10.6	1.5	0.7	0.2	1.1	-0.	
Internet access services <sup>2</sup>	1	4	1.0	1.1	-0.1	-0.8	0.7	-0.3	

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

[July 2023]

Grouping		nmodity	Unadjusted 12-month percent change <sup>1</sup>	Seasonally adjusted 1-month percent change <sup>1</sup>					
	Group code	Item code	July 2022 to July 2023 <sup>p</sup>	Feb. to Mar.	Mar. to Apr. <sup>p</sup>	Apr. to May <sup>p</sup>	May to June <sup>p</sup>	June to July <sup>p</sup>	
Bundled wired telecommunications access services <sup>2</sup>	37	5	5.5	1.3	0.0	-1.5	0.0	-0.5	
Consumer loans (partial)	39	12	-0.7	-4.7	3.0	-0.4	-2.7	-0.7	
Deposit services (partial) <sup>2</sup>	1	2	22.4	3.0	0.6	0.1	5.6	-0.5	
Other credit intermediation, incl. trust services (partial) <sup>2</sup>	1	3	-3.6	0.0	0.2	1.3	0.0	0.0	
Securities brokerage, dealing, investment advice, and related services <sup>2</sup>	40	1	37.2	-0.3	-0.4	3.2	0.1	1.8	
Portfolio management <sup>2</sup>		2	10.1	-3.9	4.0	-3.0	-0.4	7.6	
Life insurance <sup>2</sup>	1	1101	-0.6	0.0	0.0	0.0	0.0	-0.3	
Disability insurance, including accidental death <sup>2</sup>		1102	0.0	0.0	0.0	0.0	0.0	0.0	
Health and medical insurance.	1	1103	3.0	0.2	0.2	0.0	0.2	0.0	
Property and casualty insurance <sup>2</sup>	1	1104	6.6 0.2	0.3 0.3	0.4 0.2	0.4 0.0	2.0 -0.1	0.1 0.5	
Residential property sales and leases, brokerage fees and commissions	1	21	3.2	0.5	0.2	0.0	0.1	0.5	
Passenger car rental	1	1	-5.8	-1.0	2.6	-3.1	-2.7	0.5	
Legal services.	1		6.4	0.4	0.2	-0.2	0.3	0.4	
Tax preparation and planning.	1	2102	7.1	0.4	0.2	0.6	-0.9	1.6	
Architectural and engineering services.		3	3.3	0.0	0.7	0.0	0.2	0.3	
Management, scientific, and technical consulting services.		4	3.4	-2.2	2.5	0.2	1.1	-0.1	
Arrangement of flights (partial)		1	2.8	0.7	0.2	0.1	-0.9	1.3	
Arrangement of vehicle rentals and lodging <sup>2</sup>	1	2	5.3	0.7	1.8	-1.2	-1.0	-1.5	
Arrangement of cruises and tours <sup>2</sup>	1	3	7.8	-1.9	1.9	1.9	5.0	1.5	
Physician care	1	1101	0.7	0.1	0.1	0.1	0.1	0.0	
Medical laboratory and diagnostic imaging care <sup>2</sup>		1102	0.4	0.0	0.0	0.1	0.0	0.0	
Home health and hospice care		1103	4.8	0.4	1.0	0.1	0.3	0.2	
Hospital outpatient care <sup>2</sup>	1	1104	1.5	0.2	0.7	0.2	-0.2	0.7	
Dental care	1	1105	3.1	0.1	0.0	0.0	0.0	0.1	
Hospital inpatient care	51	2101	3.4	0.6	0.3	0.3	0.4	-0.3	
Nursing home care	51	2102	5.6	0.5	0.2	0.2	-0.1	0.6	
Traveler accommodation services	53	11	1.7	6.2	1.1	-2.9	2.2	-0.6	
Food and beverages for immediate consumption services (partial) <sup>2</sup>	54	1	1.8	0.1	0.4	0.0	0.0	0.3	
Motor vehicle repair and maintenance (partial)	55	2	5.2	1.0	0.4	0.4	0.4	-0.1	
Membership dues and admissions and recreation facility use fees		١.							
(partial) <sup>2</sup>		1	6.1	0.2	0.2	-1.7	0.0	0.5	
Recreational activity instruction fees (partial) <sup>2</sup>	56	2	0.2	0.0	0.0	0.1	0.0	0.0	
		-	-1.3	0.4	-1.7	0.2	0.0	-1.0	
Mining services <sup>2</sup>	1	1 43	4.7	1.1	-0.7 -0.2	-0.5	-0.3	0.0	
New warehouse building construction <sup>2</sup>	1	1101	3.8 1.5	0.1 -0.2	-0.2	0.1 0.4	0.0 0.2	-1.3 -0.7	
New school building construction <sup>2</sup>		1101	3.8	0.2	-0.3	0.4	0.2	-1.1	
New office building construction <sup>2</sup>	1	1102	5.3	0.2	0.2	0.0	-0.1	-2.3	
New industrial building construction <sup>2</sup>	1	1104	2.6	0.1	-0.5	0.0	0.1	-1.6	
New health care building construction <sup>2</sup>		1105	4.5	0.1	-0.3	0.0	-0.1	-0.8	
Intermediate Demand by Commodity Type									
Processed goods for intermediate demand	ID6	1	-7.8	-1.0	-0.5	-1.5	-0.5	-0.6	
Processed foods and feeds.	ID6	9112	-5.1	-0.2	-1.1	-1.8	-1.1	1.4	
Meats	02	21	9.1	1.9	-3.2	1.9	0.9	5.0	
Processed poultry	02	22	-27.5	1.0	-1.8	-2.6	-0.5	-2.0	
Dairy products	02	3	-12.7	-1.7	-0.2	-1.3	-2.1	-1.5	
Processed fruits and vegetables <sup>2</sup>	02	4	12.5	0.7	0.2	1.3	0.9	0.1	
Refined sugar and byproducts <sup>2</sup>	02	53	12.5	0.4	0.1	1.1	0.8	0.8	
Fats and oils <sup>2</sup>		7	-24.7	-4.1	-5.4	-3.5	-6.1	1.2	
Prepared animal feeds	02	9	-2.4	0.0	-1.4	-2.2	-0.8	2.2	
Processed materials less foods and feeds		9111	-8.0	-1.1	-0.5	-1.5	-0.4	-0.7	
Synthetic fibers <sup>2</sup>		1	2.7	-0.3	0.0	-1.1	-0.8	1.9	
Processed yarns and threads <sup>2</sup>		2	-14.5	-0.2	-1.0	-1.0	0.3	0.3	
Finished fabrics <sup>2</sup>		4	-0.6	0.0	-0.1	-0.2	-0.2	-0.4	
Liquefied petroleum gas <sup>2</sup>	1	32	-48.6	-11.4	-3.1	-17.2	-8.3	24.6	
Commercial electric power	1	42	5.7	-2.7	0.0	0.8	0.9	-0.6	
Industrial electric power		43	6.1	-0.8	-1.6	2.2	1.2	-1.0	
Commercial natural gas	1	52	-19.4	-10.4	-5.9	-6.1	-2.4	3.7	
Industrial natural gas.	1	53	-18.6	-7.8	-6.9	-6.0	-2.5	10.2	
Natural gas to electric utilities.	1	54	-18.4	-6.3	-5.7	-10.6	-2.3	4.7	
Gasoline		71	-24.5	-11.6	8.1	-13.6	3.2	-1.1	
Jet fuel <sup>2</sup>	1	7203	-38.3	-6.1	-12.7	-11.6	1.5	3.0	
No. 2 diesel fuel. Residual fuels <sup>2</sup> .	1	7303	-45.2	-6.3	-3.6	-13.6	-5.4	-7.1	
	1 115	74	-36.8	13.2	-1.0	11.2	-9.8	4.5	

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

[July 2023]

Grouping		nmodity code	Unadjusted 12-month percent change <sup>1</sup>	Seasonally adjusted 1-month percent change <sup>1</sup>					
	Group code	Item code	July 2022 to July 2023 <sup>p</sup>	Feb. to Mar.	Mar. to Apr. <sup>p</sup>	Apr. to May <sup>p</sup>	May to June <sup>p</sup>	June July <sup>f</sup>	
Finished lubricants <sup>2</sup>	05	76	5.3	0.1	-0.9	0.1	1.3	-0.4	
_ubricating oil base stocks <sup>2</sup>	05	78	-38.4	-3.0	-2.0	-12.7	0.7	-3.0	
Asphalt	05	8102	-36.5	3.3	9.7	4.6	-0.3	-5.4	
Basic inorganic chemicals <sup>2</sup>	06	13	-4.7	-0.4	-1.6	-1.3	-1.2	-3.7	
Basic organic chemicals	1	14	-19.4	-3.3	-0.3	-2.2	-1.8	-1.4	
Prepared paint <sup>2</sup>		21	0.9	-0.2	0.2	0.1	0.0	-0.2	
Paint materials <sup>2</sup>	06	22	4.6	3.2	-0.4	2.2	0.4	-3.5	
Medicinal and botanical chemicals <sup>2</sup>		31	1.1	0.5	0.1	0.0	-0.1	0.0	
Biological products, including diagnostics	06	37	5.3	0.4	0.7	-0.2	0.1	1.0	
Fats and oils, inedible <sup>2</sup>	1	4	-12.5	-2.5	-3.1	-4.1	0.5	6.8	
Nitrogenates		5201	-45.4	-9.9	-9.0	-6.5	-11.2	-1.4	
Phosphates		5202		-5.0	2.0	-4.7	0.2		
Other agricultural chemicals <sup>2</sup>	1	53	-16.9	1.0	-4.9	-2.3	-1.3	-0.1	
Plastic resins and materials	1	6	-14.9	0.2	2.3	-1.6	-2.4	-3.9	
ndustrial gases <sup>2</sup>	1	7903	-1.2	1.0	-0.8	1.2	-1.6	0.3	
Adhesives and sealants <sup>2</sup>	1	7904	4.9	0.3	0.6	0.1	-0.2	0.0	
Synthetic rubber <sup>2</sup>	1	1102	-18.3	-1.2	1.2	-1.0	-2.8	-5.6	
Fires <sup>2</sup>	1	1201	6.2	0.0	0.3	-0.2	-0.3	0.0	
Plastic construction products <sup>2</sup>		21	-4.7	0.1	-0.2	-0.7	-0.9	-0.	
Unsupported plastic film, sheet, other shapes <sup>2</sup>		22	-7.1	-1.5	0.1	-0.3	-1.9	-1.4	
Parts for manufacturing from plastics <sup>2</sup>	1	26	-1.6	-0.1	-0.4	-0.4	-0.2	-0.	
Plastic packaging products <sup>2</sup>	07	2A	-3.9	-0.2	0.0	0.1	-0.4	-0.3	
Softwood lumber		11	-17.3	-4.1	6.2	-2.9	3.9	8.0	
Hardwood lumber <sup>2</sup>		12	-17.5	-1.3	-0.8	0.3	-1.0	-1.1	
Millwork	1	2	-4.5	-0.8	-1.2	-0.4	-0.3	-0.	
Plywood <sup>2</sup>		3	-15.1	-1.0	-0.5	-0.8	-0.7	-0.4	
Paper <sup>2</sup>	1	13	2.2	-0.4	0.7	-0.6	-0.3	-0.2	
Paperboard <sup>2</sup>	1	14	-4.5	-0.9	-0.9	-0.1	-0.3	-1.0	
Paper boxes and containers <sup>2</sup>	1	1503	1.2	-0.8	-0.5	0.6	-1.1	-0.3	
Building paper and board <sup>2</sup>		2	-8.6	0.8	2.1	6.1	2.4	0.0	
Commercial printing <sup>2</sup>		47	5.6	0.3	-0.3	0.3	0.0	0.0	
Foundry and forge shop products <sup>2</sup>	10	15	-0.2	0.2	0.9	-0.3	-0.3	-1.1	
Steel mill products <sup>2</sup>	1	17	-20.9	0.9	3.6	5.4	-0.4	-7.0	
Primary nonferrous metals <sup>2</sup>	1	22	6.4	-5.2	0.9	3.0	-0.2	2.	
Secondary nonferrous metals <sup>2</sup>		24	-1.3	0.3	-0.4	-0.6	-2.7	-1.2	
Aluminum mill shapes <sup>2</sup>		2501	-7.8	0.0	-1.8	0.4	-1.0	-1.4	
Copper and brass mill shapes <sup>2</sup>	1	2502	3.3	0.0	-0.9	-2.2	-1.9	-0.	
Nonferrous wire and cable <sup>2</sup>	1	26	-0.4	-0.8	0.0	-1.8	-1.7	0.2	
Nonferrous foundry shop products	1	28	3.9	-0.1	8.0	-0.2	-0.1	0.2	
Metal containers <sup>2</sup>	1	3	-3.2	-0.3	0.2	0.3	-0.2	-1.3	
Hardware <sup>2</sup>		4	2.9	0.2	0.0	0.0	0.2	0.	
Plumbing fixtures and brass fittings		5	2.0	0.4	-0.6	0.7	0.1	0.	
Heating equipment <sup>2</sup>	10	6	5.9	1.2	0.4	-0.4	0.3	0.2	
Fabricated structural metal products		7	-2.0	0.3	0.2	-0.5	-0.8	0.	
Bolts, nuts, screws, rivets, and washers <sup>2</sup>	1	81	7.8	0.3	0.4	0.8	0.6	0.8	
ighting fixtures <sup>2</sup>	1	83	4.2	1.5	0.0	0.4	0.1	0.	
Fabricated ferrous wire products <sup>2</sup>	1	88	-9.0	-0.6	0.3	0.0	-0.8	-2.	
Other miscellaneous metal products <sup>2</sup>		89	3.4	-0.3	0.1	-0.1	0.4	0.0	
Fluid power equipment	1	43	11.8	0.4	6.5	-0.1	0.3	0.	
Mechanical power transmission equipment <sup>2</sup>		45	7.8	0.0	0.2	0.4	0.2	0.0	
Air conditioning and refrigeration equipment	1	48	3.7	1.7	0.0	0.6	-0.6	0.	
Metal valves, except fluid power	1	4902	6.8	0.1	-0.1	1.0	0.1	0.	
Ball and roller bearings <sup>2</sup>	1	4905	1.4	2.3	-0.2	0.0	0.1	0.0	
Viring devices <sup>2</sup>		71	12.9	0.5	0.2	0.0	0.7	0.0	
Motors, generators, motor generator sets <sup>2</sup>		73	7.1	0.0	0.5	0.0	0.0	1.1	
Switchgear, switchboard, and industrial controls equip.2		75	8.4	0.2	0.5	0.1	1.2	0.3	
Electronic components and accessories	1	78	0.5	0.0	-0.4	-1.1	0.3	0.0	
nternal combustion engines <sup>2</sup>	1	94	6.5	0.0	0.3	0.0	0.1	0.6	
Machine shop products <sup>2</sup>	1	95	5.6	0.1	0.2	0.5	0.2	0.2	
Flat glass <sup>2</sup>	1	11	6.9	-0.2	-0.3	-0.6	0.4	0.3	
Dement		22	12.6	0.7	-1.3	1.1	-0.1	1.0	
Concrete products		3	9.6	0.7	0.1	1.2	0.2	0.1	
Asphalt felts and coatings <sup>2</sup>	1	6	4.6	0.1	1.9	0.5	1.6	0.9	
Paving mixtures and blocks	1	94	-1.3	1.2	-1.0	-1.9	-1.0	-0.7	
Motor vehicle parts <sup>2</sup>	1	12	1.9	0.2	0.2	0.2	-0.1	0.2	
Aircraft engines and engine parts	14	23	3.4	0.1	0.3	0.1	0.0	0.4	

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

[July 2023]

Grouping		nmodity	Unadjusted 12-month percent change <sup>1</sup>	Seasonally adjusted 1-month percent change <sup>1</sup>						
	Group code	Item code	July 2022 to July 2023 <sup>p</sup>	Feb. to Mar.	Mar. to Apr. <sup>p</sup>	Apr. to May <sup>p</sup>	May to June <sup>p</sup>	June to July <sup>p</sup>		
Aircraft parts and auxiliary equipment, n.e.c  Medical, surgical, and personal aid devices	14 15	25 6	5.5 3.0	1.0 0.3	0.0 -0.2	0.1 0.1	0.0	0.1 -0.1		
Unprocessed goods for intermediate demand	1	2	-24.9	-4.7	1.1	-5.3	-1.2	1.7		
Unprocessed foodstuffs and feedstuffs	ID6 01	21 21	-13.3 -9.8	-0.7 -9.3	-1.5 4.0	-4.6 -3.3	1.0 -3.9	-0.9 1.7		
Corn.	01	2202	-22.1	- <del>3</del> .5	2.4	-6.0	3.4	-10.7		
	1	31	29.4	4.1	8.0	-0.5	6.0	2.4		
Slaughter hogs.		32	-18.7	-3.3	-8.0	-4.9	12.2	8.5		
Slaughter chickens		4102	-24.4	1.8	-0.1	-0.4	-0.6	-7.1		
Slaughter turkeys	01	42	-11.9	-0.9	-2.4	-2.1	-8.5	-8.3		
Raw milk	01	6	-33.0	-3.3	-3.8	-5.9	-6.3	-1.5		
Hay and hayseeds <sup>2</sup>	01	81	-14.9	-5.0	-15.3	3.4	4.1	0.3		
Oilseeds	01	8301	-3.7	-4.2	0.5	-1.2	-6.9	9.0		
Raw cane sugar and byproducts <sup>2</sup>	02	5201	15.9	2.3	-0.2	-2.5	6.8	-2.0		
Unprocessed nonfood materials.	ID6	22	-30.6	-7.2	2.8	-5.8	-2.6	3.4		
Raw cotton <sup>2</sup>	01 04	51	-26.6	-5.1	-0.3	-3.2	0.5	-1.1 6.4		
Hides and skins	05	1	-9.8 -7.0	4.9 -4.0	3.1 1.7	4.7 -2.9	-1.7 3.7	-6.4 1.4		
Natural gas <sup>2</sup>	05	31	-7.0	-4.0 -25.5	-22.8	-2.9 -2.0	-1.7	11.0		
Crude petroleum <sup>2</sup>		61	-72.5	-25.5 -7.1	-22.0 11.2	-2.0 -9.8	-1.7 -4.3	8.4		
Logs, bolts, timber, pulpwood, and woodchips <sup>2</sup>		5	-3.8	-1.1	-0.7	0.0	0.2	-0.5		
Recyclable paper <sup>2</sup>	1	12	-56.5	-0.4	6.2	4.2	-1.0	2.7		
Iron ores <sup>2</sup>		11	-4.3	-0.5	1.0	-6.4	0.3	-0.7		
Iron and steel scrap	1	12	-12.5	3.1	5.6	-6.2	-10.7	2.0		
Nonferrous metal ores <sup>2</sup>	10	21	1.5	4.0	0.6	-1.4	-2.3	-4.5		
Copper base scrap <sup>2</sup>	10	2301	13.9	0.2	-0.3	-3.5	0.6	0.3		
Aluminum base scrap	10	2302	-4.1	-4.5	-1.4	4.0	-1.5	-2.8		
Construction sand, gravel, and crushed stone	13	21	8.0	0.0	0.0	0.1	0.7	0.1		
Services for intermediate demand	ID6	3	4.6	-0.3	0.7	0.2	0.0	0.5		
Trade services for intermediate demand <sup>3</sup>	ID6	33	1.1	0.9	0.8	-0.1	-0.6	1.3		
Machinery and equipment parts and supplies wholesaling <sup>2</sup>	57	1102	3.4	4.9	-2.7	2.8	-2.1	0.9		
Building materials, paint, and hardware wholesaling	1	3	-8.9	-1.5	-1.6	-1.6	1.2	-0.7		
Metals, minerals, and ores wholesaling <sup>2</sup>	57	4	-2.7	10.4	2.1	-9.8	-3.2	0.9		
Chemicals and allied products wholesaling <sup>2</sup>		5	5.0	-3.2	1.6	0.4	0.1	2.4		
Paper and plastics products wholesaling <sup>2</sup>	1	6	2.6	0.5	0.3	0.3	-0.4	-0.9		
Food wholesaling <sup>2</sup>	1	8101 6102	2.4	0.7	3.1	2.5	-2.6	0.7		
Automotive parts, including tires, retailing <sup>2</sup>	1	D	1.4 -7.7	-1.9 0.4	-3.8 -2.6	0.8 0.2	1.6 4.6	-0.2 5.6		
Transportation and warehousing services for intermediate demand	1	32	-3.1	-1.0	-1.1	-0.4	-0.1	0.4		
Rail transportation of freight and mail <sup>2</sup>		11	-1.7	-0.2	-0.2	-0.9	-0.4	-0.1		
Truck transportation of freight <sup>2</sup>	1	12	-12.4	-1.6	-3.0	-0.5	-0.7	-0.2		
Water transportation of freight <sup>2</sup>	1	13	0.7	-4.8	0.2	6.0	-1.9	-0.1		
Air transportation of freight <sup>2</sup>	30	14	-8.4	-2.7	0.2	-0.5	-1.3	2.2		
U.S. Postal Service <sup>2</sup>	30	1601	9.0	0.0	0.0	0.0	0.0	3.8		
Courier and messenger services, except air mail		1602	3.8	-0.1	0.1	0.7	0.1	0.6		
Air mail and package delivery services, excluding by USPS	30	1603	-1.6	-1.4	0.0	-0.8	-0.5	0.3		
Pipline transportation <sup>2</sup>		17	1.3	0.0	-1.1	0.2	-1.2	0.0		
Transportation of passengers (partial)	1	2	3.4	1.3	-3.0	-0.8	1.8	1.7		
Services related to water transportation	1	1 31	2.0 -30.2	-1.1 -6.4	-0.1 -4.1	1.4 -2.0	-0.4 3.2	0.0 -2.2		
Warehousing, storage, and related services <sup>2</sup>		1	5.3	-0.4	0.0	-3.3	-1.2	1.3		
Services less trade, transportation, and warehousing for intermediate	32	'	3.5	-0.5	0.0	-0.0	-1.2	1.0		
demand	ID6	31	7.5	-0.5	1.0	0.4	0.1	0.3		
Network compensation from broadcast TV, cable TV, radio <sup>2</sup>		_	1.0	1.1	0.0	0.2	0.0	0.0		
Advertising space sales in periodicals and newspapers <sup>2</sup>		11	3.2	1.0	0.0	0.0	0.0	0.0		
Advertising space sales in directories and mail lists <sup>2</sup>		12	9.7	0.0	0.0	0.0	0.0	0.0		
Television advertising time sales.		2	-16.8	-2.9	2.8	-0.9	-2.1	-1.0		
Radio advertising time sales.	1	3	-8.0	-2.7	-1.2	6.0	-2.7	-7.2		
Internet advertising sales <sup>2</sup>	36	6 12	3.6	0.0 0.1	6.7 0.7	0.0 0.0	0.0 -0.6	-0.2 1.8		
Wireless telecommunication services.	37	2	1.9	0.1	0.7	0.6	-0.6 0.2	0.1		
Cable and satellite subscriber services.	37	3	10.6	1.5	0.1	0.6	1.1	-0.1		
Bundled wired telecommunication access services <sup>2</sup>		5	5.5	1.3	0.0	-1.5	0.0	-0.1		
		-	1.8	0.3				0.3		
Data processing and related services <sup>2</sup>	38	1	1.0	0.5	-0.1	0.1	0.3	0.0		

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

[July 2023]

Grouping		nmodity ode	Unadjusted 12-month percent change <sup>1</sup>	Seasonally adjusted 1-month percent change <sup>1</sup>					
. •	Group code	Item code	July 2022 to July 2023 <sup>p</sup>	Feb. to Mar.	Mar. to Apr. <sup>p</sup>	Apr. to May <sup>p</sup>	May to June <sup>p</sup>	June to July <sup>p</sup>	
Deposit services (partial) <sup>2</sup>	39	2	22.4	3.0	0.6	0.1	5.6	-0.5	
Other credit intermediation, incl. trust services (partial) <sup>2</sup>	1	3	-3.6	0.0	0.2	1.3	0.0	0.0	
Securities brokerage, dealing, investment advice, and related services <sup>2</sup>	40	1	37.2	-0.3	-0.4	3.2	0.1	1.8	
Portfolio management <sup>2</sup>		2	10.1	-3.9	4.0	-3.0	-0.4	7.6	
Investment banking <sup>2</sup>		3	1.7	1.5	-0.8	1.4	-0.5	0.0	
Life insurance <sup>2</sup>	1	1101	-0.6	0.0	0.0	0.0	0.0	-0.3	
Health and medical insurance		1103	3.0	0.2	0.2	0.0	0.2	0.0	
Property and casualty insurance <sup>2</sup>		1104	6.6 0.2	0.3 0.3	0.4 0.2	0.4 0.0	2.0 -0.1	0.1 0.5	
Commissions from sales of insurance <sup>2</sup> .		1	0.2	0.0	0.2	0.0	0.0	-0.5	
Nonresidential real estate rents <sup>2</sup>	1	11	3.8	-1.7	2.5	0.0	1.4	-0.5 -1.1	
Nonresidential property sales and leases <sup>2</sup>		12	-2.1	-0.6	-0.4	-0.3	0.4	-0.6	
Residential property management fees <sup>2</sup>		22	1.8	-0.1	0.5	0.7	-0.2	0.8	
Passenger car rental	1	1	-5.8	-1.0	2.6	-3.1	-2.7	0.4	
Truck, utility trailer, and RV rental and leasing <sup>2</sup>	44	2	2.0	0.7	0.2	-1.4	2.3	-0.1	
leasing <sup>2</sup>	44	3	6.5	-0.1	0.2	0.2	-0.2	0.3	
Legal services	1	1	6.4	0.4	0.2	-0.2	0.3	0.6	
Accounting services (partial)	1	2	10.1	1.0	0.7	0.4	-0.3	2.0	
Architectural and engineering services	1	3	3.3	0.0	0.7	0.2	0.2	0.3	
Management, scientific, and technical consulting services	1	4	3.4	-2.2	2.5	0.2	1.1	-0.1	
Advertising and related services (partial) <sup>2</sup>	1	5	0.5	0.2	0.0	0.0	-0.1	0.0	
Permanent placement services <sup>2</sup>		1	0.6	1.2	2.4	-1.0	-0.6	0.6	
Executive search services <sup>2</sup>	1	3	3.4	0.2	-0.7	-0.5	-0.6	0.7 0.2	
Staffing services	1	1	1.0 7.2	0.5 0.3	0.7 0.1	0.0 2.1	-0.3 0.1	0.2	
Janitorial services <sup>2</sup>			2.1	0.3	0.9	0.1	0.0	-0.1	
Waste collection.	1	i	9.8	1.1	1.1	0.7	0.5	-0.1	
Traveler accommodation services.	1	11	1.7	6.2	1.1	-2.9	2.2	-0.6	
Commercial and industrial machinery and equipment repair and									
maintenance	1	1	8.4	1.1	1.9	-0.4	0.1	0.8	
Aircraft repair and maintenance	1	4	4.8	0.7	0.4	0.2	0.2	0.6	
Metal treatment services <sup>2</sup>	59	1	4.6	0.0	0.7	0.4	-0.2	0.7	
Construction for intermediate demand	ID6 80	4	4.4 4.4	0.4 0.4	0.1 0.1	1.4 1.4	0.1 0.1	0.3 0.3	
Intermediate Demand by Production Flow									
Stage 4 intermediate demand	1	4	2.0	-0.3	0.3	-0.1	-0.1	0.3	
Stage 4 intermediate demand goods	1	9411	-1.6	-0.5	-0.2	-0.5	0.0	-0.3	
Grains	1	2	-19.1	-7.4	2.7	-5.5	1.9	-8.7	
Meats	1	21	9.1	1.9	-3.2	1.9	0.9	5.0	
Unprocessed and packaged fish		23 3	0.5 -12.7	0.6 -1.7	-1.4 -0.2	1.3 -1.3	-1.9 -2.1	0.9 -1.5	
Commercial electric power.	05	42	5.7	-1.7 -2.7	0.0	0.8	0.9	-1.5 -0.6	
Industrial electric power.		43	6.1	-0.8	-1.6	2.2	1.2	-1.0	
Gasoline.	1	71	-24.5	-11.6	8.1	-13.6	3.2	-1.1	
No. 2 diesel fuel	05	7303	-45.2	-6.3	-3.6	-13.6	-5.4	-7.1	
Basic organic chemicals	06	14	-19.4	-3.3	-0.3	-2.2	-1.8	-1.4	
Prepared paint <sup>2</sup>	06	21	0.9	-0.2	0.2	0.1	0.0	-0.2	
Medicinal and botanical chemicals <sup>2</sup>	1	31	1.1	0.5	0.1	0.0	-0.1	0.0	
Biological products, including diagnostics	06	37	5.3	0.4	0.7	-0.2	0.1	1.0	
Pharmaceutical preparations	1	38	2.4	0.0	0.3	0.0	0.1	0.2	
Plastic construction products <sup>2</sup>		21	-4.7	0.1	-0.2	-0.7	-0.9	-0.1	
Unsupported plastic film, sheet, and other shapes <sup>2</sup>		22	-7.1	-1.5	0.1	-0.3	-1.9	-1.4	
Parts for manufacturing from plastics <sup>2</sup>	1	26 2A	-1.6	-0.1	-0.4	-0.4	-0.2	-0.1	
Plastic packaging products <sup>2</sup> Lumber.		1 1	-3.9 -17.3	-0.2 -3.0	0.0 3.3	0.1 -1.6	-0.4 1.9	-0.3 4.7	
Millwork.	1	2	-4.5	-0.8	-1.2	-0.4	-0.3	-0.1	
Paper boxes and containers <sup>2</sup>		1503	1.2	-0.8	-0.5	0.4	-1.1	-0.3	
Commercial printing <sup>2</sup>		47	5.6	0.3	-0.3	0.3	0.0	0.0	
Steel mill products <sup>2</sup>		17	-20.9	0.9	3.6	5.4	-0.4	-7.6	
Nonferrous wire and cable <sup>2</sup>	10	26	-0.4	-0.8	0.0	-1.8	-1.7	0.2	
	1	7	-2.0	0.3	0.2	-0.5	-0.8	0.1	
Fabricated structural metal products		l							
Other miscellaneous metal products <sup>2</sup>	10	89	3.4	-0.3	0.1	-0.1	0.4	0.0	
	10 11	l							

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

[July 2023]

Grouping		nmodity ode	Unadjusted 12-month percent change <sup>1</sup>	Seasonally adjusted 1-month percent change <sup>1</sup>					
G. G	Group code	Item code	July 2022 to July 2023 <sup>p</sup>	Feb. to Mar.	Mar. to Apr. <sup>p</sup>	Apr. to May <sup>p</sup>	May to June <sup>p</sup>	June to July <sup>p</sup>	
Electronic components and accessories	11	78	0.5	0.0	-0.4	-1.1	0.3	0.6	
Miscellaneous electrical machinery and equipment <sup>2</sup>	1	79	2.9	0.0	0.0	0.1	0.1	8.0	
Internal combustion engines <sup>2</sup>		94	6.5	0.0	0.3	0.0	0.1	0.6	
Machine shop products <sup>2</sup>	1	95	5.6	0.1	0.2	0.5	0.2	0.2	
Concrete ingredients and related products	1	2	9.2	0.2	-0.3	0.4	0.5	0.4	
Concrete products  Prepared asphalt, tar roofing and siding products <sup>2</sup>	1	61	9.6 4.6	0.7 0.1	0.1 2.4	1.2 0.5	0.2 1.9	0.1 1.0	
Paving mixtures and blocks.	1	94	-1.3	1.2	-1.0	-1.9	-1.0	-0.7	
Motor vehicle parts <sup>2</sup>	1	12	1.9	0.2	0.2	0.2	-0.1	0.2	
Aircraft engines and engine parts	1	23	3.4	0.1	0.3	0.1	0.0	0.4	
Aircraft parts and auxiliary equipment, n.e.c	1	25	5.5	1.0	0.0	0.1	0.0	0.1	
Medical, surgical and personal aid devices	15	6	3.0	0.3	-0.2	0.1	0.8	-0.1	
Stage 4 intermediate demand services		9412	5.5	-0.1	0.7	0.2	-0.1	8.0	
Truck transportation of freight <sup>2</sup>	1	12	-12.4	-1.6	-3.0	-0.5	-0.7	-0.2	
Courier, messenger, and U.S. postal services	1	16	4.6	-0.4	0.0	0.1	-0.1	1.6	
Airline passenger services.		22	3.4	1.3	-3.1	-0.8	1.8	1.7	
Warehousing, storage, and related services <sup>2</sup>	1	1	5.3	-0.3	0.0	-3.3	-1.2	1.3	
Advertising space sales in periodicals and newspapers <sup>2</sup> Data processing and related services <sup>2</sup>	1	111	3.2 1.8	1.0 0.3	0.0 -0.1	0.0 0.1	0.0 0.3	0.0 0.3	
Business loans (partial).	1	11	55.7	-5.8	2.7	3.4	-2.2	-1.5	
Deposit services (partial) <sup>2</sup>	39	2	22.4	3.0	0.6	0.1	5.6	-0.5	
Securities brokerage, dealing, investment advice, and related services <sup>2</sup>		1	37.2	-0.3	-0.4	3.2	0.1	1.8	
Portfolio management <sup>2</sup>	1	2	10.1	-3.9	4.0	-3.0	-0.4	7.6	
Investment banking <sup>2</sup>		3	1.7	1.5	-0.8	1.4	-0.5	0.0	
Insurance	41	11	3.9	0.2	0.3	0.2	0.9	-0.2	
Annuities <sup>2</sup>	1	2	0.2	0.3	0.2	0.0	-0.1	0.5	
Nonresidential real estate rents <sup>2</sup>		11	3.8	-1.7	2.5	0.3	1.4	-1.1	
Nonresidential property sales and leases <sup>2</sup>	1	12	-2.1	-0.6	-0.4	-0.3	0.4	-0.6	
Nonresidential property management fees <sup>2</sup>	1	13	10.1	-1.1	1.5	-0.1	0.2	5.2	
Residential property management fees <sup>2</sup>	43	22	1.8	-0.1	0.5	0.7	-0.2	8.0	
Construction, mining, and forestry machinery and equipment rental and leasing <sup>2</sup>	44	3	6.5	-0.1	0.2	0.2	-0.2	0.3	
Legal services	1	1	6.4	0.4	0.2	-0.2	0.3	0.6	
Advertising agency services <sup>2</sup>		51	0.5	0.2	0.0	0.0	-0.1	0.0	
Accounting services (partial)	45	2	10.1	1.0	0.7	0.4	-0.3	2.0	
Architectural and engineering services	1	3	3.3	0.0	0.7	0.2	0.2	0.3	
Management, scientific, and technical consulting services	1	4	3.4	-2.2	2.5	0.2	1.1	-0.1	
Staffing services.	1	3	1.0	0.5	0.7	0.0	-0.3	0.2	
Janitorial services <sup>2</sup>	49		2.1	0.1	0.9	0.1	0.0	-0.1	
maintenance	55	1	8.4	1.1	1.9	-0.4	0.1	0.8	
Machinery and equipment parts and supplies wholesaling <sup>2</sup>	57	1102	3.4	4.9	-2.7	2.8	-2.1	0.9	
Building materials, paint, and hardware wholesaling	57	3	-8.9	-1.5	-1.6	-1.6	1.2	-0.7	
Metals, minerals, and ores wholesaling <sup>2</sup>	1	4	-2.7	10.4	2.1	-9.8	-3.2	0.9	
Chemicals and allied products wholesaling <sup>2</sup>		5	5.0	-3.2	1.6	0.4	0.1	2.4	
Paper and plastics products wholesaling <sup>2</sup>	1	6	2.6	0.5	0.3	0.3	-0.4	-0.9	
Food and alcohol wholesaling <sup>2</sup>	1	8 D	3.1	0.5	2.7	2.2	-2.3	0.6	
Hardware and building materials and supplies retailing  Metal treatment services <sup>2</sup>		1	-7.7 4.6	0.4 0.0	-2.6 0.7	0.2 0.4	4.6 -0.2	5.6 0.7	
		*							
Stage 3 intermediate demand	1	3	-6.9	-0.7	-0.2	-1.4	-0.2	-0.6	
Stage 3 intermediate demand goods	1	9311	-15.4	-1.1 4.1	-1.2 8.0	-2.9	-0.1 6.0	-1.8 2.4	
Slaughter cattle	1	32	29.4 -18.7	-3.3	-8.0	-0.5 -4.9	12.2	2.4 8.5	
Slaughter hogs.	1	4	-21.6	1.3	-0.5	-0.7	-1.8	-7.2	
Raw milk	01	6	-33.0	-3.3	-3.8	-5.9	-6.3	-1.5	
Commercial electric power.	05	42	5.7	-2.7	0.0	0.8	0.9	-0.6	
Industrial electric power	05	43	6.1	-0.8	-1.6	2.2	1.2	-1.0	
Gasoline	05	71	-24.5	-11.6	8.1	-13.6	3.2	-1.1	
Jet fuel <sup>2</sup>	1	7203	-38.3	-6.1	-12.7	-11.6	1.5	3.0	
No. 2 diesel fuel	1	7303	-45.2	-6.3	-3.6	-13.6	-5.4	-7.1	
Finished lubricants <sup>2</sup>	1	76	5.3	0.1	-0.9	0.1	1.3	-0.4	
Lubricating oil base stocks <sup>2</sup>	1	78	-38.4	-3.0	-2.0	-12.7	0.7	-3.0	
Asphalt	1	8102	-36.5	3.3	9.7	4.6	-0.3	-5.4	
Basic inorganic chemicals <sup>2</sup>	1	13 14	-4.7 -19.4	-0.4 -3.3	-1.6 -0.3	-1.3 -2.2	-1.2 -1.8	-3.7 -1.4	
Basic organic chemicals		2	1.8	0.5	0.1	0.5	0.0	-0.8	

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

[July 2023]

Grouping		nmodity ode	Unadjusted 12-month percent change <sup>1</sup>	Seasonally adjusted 1-month percent change <sup>1</sup>					
	Group code	Item code	July 2022 to July 2023 <sup>p</sup>	Feb. to Mar.	Mar. to Apr. <sup>p</sup>	Apr. to May <sup>p</sup>	May to June <sup>p</sup>	June to July <sup>p</sup>	
Agricultural chemicals and chemical products	06	5	-22.2	-3.7	-4.5	-3.3	-3.5	-0.2	
Plastic resins and materials	06	6	-14.9	0.2	2.3	-1.6	-2.4	-3.9	
Synthetic rubber <sup>2</sup>	07	1102	-18.3	-1.2	1.2	-1.0	-2.8	-5.6	
Unsupported plastic film, sheet, and other shapes <sup>2</sup>	1	22	-7.1	-1.5	0.1	-0.3	-1.9	-1.4	
Paper <sup>2</sup> Paperboard <sup>2</sup>		13 14	2.2 -4.5	-0.4 -0.9	0.7 -0.9	-0.6 -0.1	-0.3 -0.3	-0.2 -1.0	
Converted paper and paperboard products <sup>2</sup>	1	15	2.9	-0.9	0.0	0.1	-0.3 -0.4	-1.0 -0.1	
Commercial printing <sup>2</sup>		47	5.6	0.3	-0.3	0.2	0.0	0.0	
Foundry and forge shop products <sup>2</sup>		15	-0.2	0.3	0.9	-0.3	-0.3	-1.1	
Steel mill products <sup>2</sup>	1	17	-20.9	0.9	3.6	5.4	-0.4	-7.6	
Nonferrous mill shapes <sup>2</sup>		25	-3.6	0.1	-1.1	-0.3	-1.1	-1.1	
Nonferrous foundry shop products	10	28	3.9	-0.1	0.8	-0.2	-0.1	0.2	
Metal containers <sup>2</sup>	10	3	-3.2	-0.3	0.2	0.3	-0.2	-1.3	
Structural, architectural, and pre-engineered metal products	10	74	-5.8	0.5	0.4	-0.8	-1.6	-0.4	
Bolts, nuts, screws, rivets, and washers <sup>2</sup>	10	81	7.8	0.3	0.4	8.0	0.6	0.8	
Other miscellaneous metal products <sup>2</sup>	1	89	3.4	-0.3	0.1	-0.1	0.4	0.0	
General purpose machinery and equipment	1	4	6.3	0.6	0.9	0.5	0.0	0.1	
Electrical machinery and equipment	1	7	3.3	0.2	0.1	-0.2	0.4	0.5	
Construction sand, gravel, and crushed stone	1	21	8.0	0.0	0.0	0.1	0.7	0.1	
Cement	1	22	12.6	0.7	-1.3	1.1	-0.1	1.3	
Motor vehicle parts <sup>2</sup>	1	12 2	1.9	0.2	0.2	0.2	-0.1	0.2	
Aircraft and aircraft equipment	1	9312	4.4 2.2	0.6 -0.4	0.4 0.6	0.4	0.2	0.2 0.3	
Rail transportation of freight and mail <sup>2</sup>		11	-1.7	-0.4 -0.2	-0.2	-0.1 -0.9	-0.2 -0.4	-0.1	
Courier, messenger, and U.S. postal services.	1	16	4.6	-0.2	0.0	0.1	-0.4	1.6	
Arrangement of freight and cargo <sup>2</sup>		31	-30.2	-6.4	-4.1	-2.0	3.2	-2.2	
Freight forwarding <sup>2</sup>		3201	-1.6	-0.2	0.5	0.0	0.0	0.0	
Warehousing, storage, and related services <sup>2</sup>	32	1	5.3	-0.3	0.0	-3.3	-1.2	1.3	
Advertising space sales in periodicals, newspapers, directories, and mailing lists <sup>2</sup>		1	4.2	0.9	0.0	0.0	0.0	0.0	
Wired telephone services <sup>2</sup>	37	1	4.2	0.2	0.8	0.5	-0.3	0.9	
Bundled wired telecommunications access services <sup>2</sup>	37	5	5.5	1.3	0.0	-1.5	0.0	-0.5	
Data processing and related services <sup>2</sup>		1	1.8	0.3	-0.1	0.1	0.3	0.3	
Business loans (partial)	1	11	55.7	-5.8	2.7	3.4	-2.2	-1.5	
Deposit services (partial) <sup>2</sup>	1	2	22.4	3.0	0.6	0.1	5.6	-0.5	
Securities brokerage, dealing, investment advice, and related services <sup>2</sup> Insurance	1	11	37.2	-0.3 0.2	-0.4	3.2	0.1	1.8	
Nonresidential real estate rents <sup>2</sup>	1	11	3.9 3.8	-1.7	0.3 2.5	0.2 0.3	0.9 1.4	-0.2 -1.1	
Legal services.	1	''	6.4	0.4	0.2	-0.2	0.3	0.6	
Accounting services (partial)	1	2	10.1	1.0	0.7	0.4	-0.3	2.0	
Architectural and engineering services	1	3	3.3	0.0	0.7	0.2	0.2	0.3	
Management, scientific, and technical consulting services	1	4	3.4	-2.2	2.5	0.2	1.1	-0.1	
Advertising agency services <sup>2</sup>		51	0.5	0.2	0.0	0.0	-0.1	0.0	
Staffing services	46	3	1.0	0.5	0.7	0.0	-0.3	0.2	
Aircraft repair maintenance	1	4	4.8	0.7	0.4	0.2	0.2	0.6	
Machinery and equipment parts and supplies wholesaling <sup>2</sup>	1	1102	3.4	4.9	-2.7	2.8	-2.1	0.9	
Building materials, paint, and hardware wholesaling		3	-8.9	-1.5	-1.6	-1.6	1.2	-0.7	
Metals, minerals, and ores wholesaling <sup>2</sup>		4	-2.7	10.4	2.1	-9.8	-3.2	0.9	
Chemicals and allied products wholesaling <sup>2</sup>		5	5.0	-3.2	1.6	0.4	0.1	2.4	
Paper and plastics products wholesaling <sup>2</sup> Food wholesaling <sup>2</sup>		6 8101	2.6 2.4	0.5	0.3	0.3	-0.4	-0.9 0.7	
Metal treatment services <sup>2</sup>	1	1	4.6	0.7 0.0	3.1 0.7	2.5 0.4	-2.6 -0.2	0.7	
Stage 2 intermediate demand	1	2	-8.5	-2.5	0.9	-1.3	-1.1	1.4	
Stage 2 intermediate demand goods	1	9211	-22.7	-4.9 7.5	1.2	-4.0	-2.4	3.3	
Corn Oilseeds.	1	2202 83	-22.1 -3.7	-7.5 -4.2	2.4 0.5	-6.0 -1.2	3.4 -6.9	-10.7 9.0	
Prepared animal feeds.	1	9	-3.7 -2.4	-4.2 0.0	0.5 -1.4	-1.2 -2.2	-6.9 -0.8	9.0 2.2	
Coal	1	1	-7.0	-4.0	1.7	-2.2	3.7	1.4	
Natural gas <sup>2</sup>	05	31	-72.5	-25.5	-22.8	-2.0	-1.7	11.0	
Liquefied petroleum gas <sup>2</sup>	05	32	-48.6	-11.4	-3.1	-17.2	-8.3	24.6	
Crude petroleum <sup>2</sup>	05	61	-24.8	-7.1	11.2	-9.8	-4.3	8.4	
No. 2 diesel fuel	05	7303	-45.2	-6.3	-3.6	-13.6	-5.4	-7.1	
Industrial chemicals	06	1	-17.4	-2.8	-0.5	-2.0	-1.7	-1.8	
Plastic resins and materials	1	6	-14.9	0.2	2.3	-1.6	-2.4	-3.9	
				0.0	0.4	0.0		0.4	
Plastic products <sup>2</sup>	1	2	-3.1 -3.8	-0.3 -1.1	0.1 -0.7	-0.2 0.0	-0.6 0.2	-0.4 -0.5	

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

[July 2023]

Grouping	1	nmodity ode	Unadjusted 12-month percent change <sup>1</sup>	Seasonally adjusted 1-month percent change <sup>1</sup>						
G.S.P.II.g	Group code	Item code	July 2022 to July 2023 <sup>p</sup>	Feb. to Mar.	Mar. to Apr. <sup>p</sup>	Apr. to May <sup>p</sup>	May to June <sup>p</sup>	June to July <sup>p</sup>		
Paper <sup>2</sup>	09	13	2.2	-0.4	0.7	-0.6	-0.3	-0.2		
Paperboard, excluding corrugated paperboard <sup>2</sup>	09	1411	-3.4	-0.1	-0.6	0.0	-0.7	-0.9		
Commercial printing <sup>2</sup>	09	47	5.6	0.3	-0.3	0.3	0.0	0.0		
Iron and steel scrap.	1	12	-12.5	3.1	5.6	-6.2	-10.7	2.0		
Steel mill products <sup>2</sup>	1	17	-20.9	0.9	3.6	5.4	-0.4	-7.6		
Nonferrous mill shapes <sup>2</sup> Electrical machinery and equipment	1	25 7	-3.6 3.3	0.1 0.2	-1.1 0.1	-0.3 -0.2	-1.1 0.4	-1.1 0.5		
Electronic components and accessories.	1	78	0.5	0.2	-0.4	-0.2	0.4	0.5		
Stage 2 intermediate demand services.	1	9212	6.2	-0.7	0.7	0.6	-0.2	0.0		
Rail transportation of freight and mail <sup>2</sup>	1	11	-1.7	-0.2	-0.2	-0.9	-0.4	-0.1		
Truck transportation of freight <sup>2</sup>	1	12	-12.4	-1.6	-3.0	-0.5	-0.7	-0.2		
U.S. Postal Service <sup>2</sup>	30	1601	9.0	0.0	0.0	0.0	0.0	3.8		
Courier and messenger services, except air	30	1602	3.8	-0.1	0.1	0.7	0.1	0.6		
Air mail and package delivery services, excluding by USPS	30	1603	-1.6	-1.4	0.0	-0.8	-0.5	0.3		
Pipeline transportation <sup>2</sup>	30	17	1.3	0.0	-1.1	0.2	-1.2	0.0		
Airline passenger services.	30	22	3.4	1.3	-3.1	-0.8	1.8	1.7		
Arrangement of freight and cargo <sup>2</sup>	1	31	-30.2	-6.4	-4.1	-2.0	3.2	-2.2		
Television advertising time sales	1	21	-16.8 1.0	-2.9 0.1	2.8	-0.9 0.6	-2.1	-1.0 0.1		
Data processing and related services.  Data processing and related services <sup>2</sup>		1	1.9 1.8	0.1 0.3	0.1 -0.1	0.6 0.1	0.2 0.3	0.1 0.3		
Securities brokerage, dealing, investment advice, and related services <sup>2</sup>			37.2	-0.3	-0.1	3.2	0.3	1.8		
Portfolio management <sup>2</sup>	1	2	10.1	-3.9	4.0	-3.0	-0.4	7.6		
Investment banking <sup>2</sup>	1	31	1.7	1.5	-0.8	1.4	-0.5	0.0		
Insurance		11	3.9	0.2	0.3	0.2	0.9	-0.2		
Commissions from sales of insurance <sup>2</sup>	42	11	0.4	0.0	0.0	0.0	0.0	-0.5		
Legal services	45	1	6.4	0.4	0.2	-0.2	0.3	0.6		
Accounting services (partial)	45	2	10.1	1.0	0.7	0.4	-0.3	2.0		
Management, scientific, and technical consulting services	1	4	3.4	-2.2	2.5	0.2	1.1	-0.1		
Advertising agency services <sup>2</sup>	45	51	0.5	0.2	0.0	0.0	-0.1	0.0		
Staffing services	1	3	1.0	0.5	0.7	0.0	-0.3	0.2		
Security guard services <sup>2</sup>	1	1	7.2	0.3	0.1	2.1	0.1	0.2		
Janitorial services <sup>2</sup>	49 53	1	2.1 1.7	0.1 6.2	0.9 1.1	0.1 -2.9	0.0 2.2	-0.1 -0.6		
Commercial and industrial machinery and equipment repair and	33	'	1.7	0.2	1.1	-2.9	2.2	-0.0		
maintenance	55	1	8.4	1.1	1.9	-0.4	0.1	0.8		
Hardware and building materials and supplies retailing	58	D	-7.7	0.4	-2.6	0.2	4.6	5.6		
Stage 1 intermediate demand	ID5	1	-3.1	-0.4	-0.1	-0.9	-0.2	0.0		
Stage 1 intermediate demand goods	ID5	9111	-9.1	-1.0	-0.7	-1.8	-0.7	-0.9		
Prepared animal feeds	02	9	-2.4	0.0	-1.4	-2.2	-0.8	2.2		
Commercial electric power	05	42	5.7	-2.7	0.0	0.8	0.9	-0.6		
Industrial electric power		43	6.1	-0.8	-1.6	2.2	1.2	-1.0		
Commercial natural gas	1	52	-19.4	-10.4	-5.9	-6.1	-2.4	3.7		
Industrial natural gas		53	-18.6	-7.8	-6.9	-6.0	-2.5	10.2		
Gasoline.  No. 2 diesel fuel.	05 05	71 7303	-24.5 -45.2	-11.6 -6.3	8.1 -3.6	-13.6 -13.6	3.2 -5.4	-1.1 -7.1		
Industrial chemicals.	06	1	-45.2	-0.3 -2.8	-0.5	-13.0	-5.4 -1.7	-1.8		
Prepared paint <sup>2</sup>		21	0.9	-0.2	0.2	0.1	0.0	-0.2		
Plastic construction products <sup>2</sup>	07	21	-4.7	0.1	-0.2	-0.7	-0.9	-0.1		
Recyclable paper <sup>2</sup>	09	12	-56.5	-0.4	6.2	4.2	-1.0	2.7		
Paper <sup>2</sup>	09	13	2.2	-0.4	0.7	-0.6	-0.3	-0.2		
Converted paper and paperboard products <sup>2</sup>	09	15	2.9	-0.4	0.0	0.2	-0.4	-0.1		
Iron and steel scrap	1	12	-12.5	3.1	5.6	-6.2	-10.7	2.0		
Steel mill products <sup>2</sup>	1	17	-20.9	0.9	3.6	5.4	-0.4	-7.6		
Primary nonferrous metals <sup>2</sup>		22	6.4	-5.2	0.9	3.0	-0.2	2.1		
Nonferrous scrap		23	-8.2	-2.6	-0.4	2.1	-3.5	-2.7		
Nonferrous wire and cable <sup>2</sup>	1	26 7	-0.4	-0.8	0.0	-1.8 -0.5	-1.7 -0.8	0.2		
Fabricated structural metal products	1	4	-2.0 6.3	0.3 0.6	0.2 0.9	-0.5 0.5	-0.8 0.0	0.1 0.1		
Construction sand, gravel, and crushed stone.	1	21	8.0	0.0	0.0	0.5	0.0	0.1		
Stage 1 intermediate demand services.	1	9112	3.7	0.0	0.5	-0.1	0.7	0.8		
Truck transportation of freight <sup>2</sup>	1 -	12	-12.4	-1.6	-3.0	-0.5	-0.7	-0.2		
Airline passenger services	1	22	3.4	1.3	-3.1	-0.8	1.8	1.7		
Advertising space sales in periodicals, newspapers, directories, and mailing lists <sup>2</sup>	36	1	4.2	0.9	0.0	0.0	0.0	0.0		
Business wired telecommunication services <sup>2</sup>	1	12	3.6	0.1	0.7	0.0	-0.6	1.8		
Wireless telecommunication services	37	2	1.9	0.1	0.1	0.6	0.2	0.1		

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

[July 2023]

Grouping	Commodity code		Unadjusted 12-month percent change <sup>1</sup>	S	percent chang	nge <sup>1</sup>		
	Group code	Item code	July 2022 to July 2023 <sup>p</sup>	Feb. to Mar.	Mar. to Apr. <sup>p</sup>	Apr. to May <sup>p</sup>	May to June <sup>p</sup>	June to July <sup>p</sup>
Bundled wired telecommunications access services <sup>2</sup>	37	5	5.5	1.3	0.0	-1.5	0.0	-0.5
Business loans (partial)	39	11	55.7	-5.8	2.7	3.4	-2.2	-1.5
Deposit services (partial) <sup>2</sup>	39	2	22.4	3.0	0.6	0.1	5.6	-0.5
Securities brokerage, dealing, investment advice, and related services <sup>2</sup>	40	1	37.2	-0.3	-0.4	3.2	0.1	1.8
Portfolio management <sup>2</sup>		2	10.1	-3.9	4.0	-3.0	-0.4	7.6
Investment banking <sup>2</sup>	40	3	1.7	1.5	-0.8	1.4	-0.5	0.0
nsurance	41	11	3.9	0.2	0.3	0.2	0.9	-0.2
Nonresidential real estate rents <sup>2</sup>	43	11	3.8	-1.7	2.5	0.3	1.4	-1.1
Architectural and engineering services	45	3	3.3	0.0	0.7	0.2	0.2	0.3
Management consulting services	45	41	3.4	-2.2	2.5	0.2	1.1	-0.1
Waste collection	50	1	9.8	1.1	1.1	0.7	0.5	-0.1
Traveler accommodation services	53	11	1.7	6.2	1.1	-2.9	2.2	-0.6
Commercial and industrial machinery and equipment repair and maintenance		1	8.4	1.1	1.9	-0.4	0.1	0.8
Machinery and equipment parts and supplies wholesaling <sup>2</sup>	57	1102	3.4	4.9	-2.7	2.8	-2.1	0.9
Building materials, paint, and hardware wholesaling	57	3	-8.9	-1.5	-1.6	-1.6	1.2	-0.7
Metals, minerals, and ores wholesaling <sup>2</sup>	57	4	-2.7	10.4	2.1	-9.8	-3.2	0.9
Chemicals and allied products wholesaling <sup>2</sup>	57	5	5.0	-3.2	1.6	0.4	0.1	2.4
Paper and plastics products wholesaling <sup>2</sup>	57	6	2.6	0.5	0.3	0.3	-0.4	-0.9
Hardware and building materials and supplies retailing	58	D	-7.7	0.4	-2.6	0.2	4.6	5.6
Mining services <sup>2</sup>	60	1	4.7	1.1	-0.7	-0.5	-0.3	0.0

<sup>&</sup>lt;sup>1</sup> 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.

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

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

 $<sup>^{\</sup>rm 3}\,{\rm Trade}$  indexes measure changes in margins received by wholesalers and retailers.

p Preliminary

<sup>&</sup>quot;-" Data not available.

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

Quarter	Other	Commodity code		Seasonally adjusted index <sup>1</sup>					
Grouping	index base	Group code	Item code	Mar. 2023	Apr. 2023 <sup>p</sup>	May 2023 <sup>p</sup>	June 2023 <sup>p</sup>	July 2023 <sup>p</sup>	
Final Demand									
Final demand		FD	4	140.746	141.006	140.583	140.526	140.946	
Final demand goods		FD	41	142.855	143.055	140.925	140.938	141.089	
Final demand foods	1	FD	411	151.612	150.984	149.524	149.269	150.029	
Finished consumer foods <sup>2</sup>	1	FD	4111	267.103	265.804	263.376	263.946	264.452	
Finished consumer foods, crude	1	FD FD	41113 41112	294.729 263.310	300.804 261.314	251.862 263.330	257.162 263.444	252.477 264.444	
Government purchased foods.		FD	41112	152.752	151.204	151.688	151.287	153.488	
Foods for export.		FD	4113	154.884	155.119	152.438	149.614	151.941	
Final demand energy		FD	412	143.097	144.039	134.037	135.030	134.971	
Finished consumer energy goods <sup>2</sup>	00/82	FD	4121	221.453	226.558	211.446	213.886	213.857	
Government purchased energy		FD	4122	159.568	152.331	140.067	139.208	138.276	
Energy for export		FD	4123	140.634	132.610	122.414	121.011	122.164	
Final demand goods less foods and energy	1	FD	413	140.444	140.645	140.786	140.569	140.617	
Finished goods less foods and energy <sup>2</sup>	1	FD	4131	246.025	246.165	246.952	247.102	247.734	
Finished consumer goods less foods and energy	1	FD FD	41311 413111	273.799 354.201	273.855 354.630	274.592 355.846	274.717 356.159	275.316 357.070	
Durable consumer goods	1	FD	413111	191.134	190.880	191.179	191.142	191.448	
Private capital equipment	00/82	FD	413112	210.882	211.090	211.886	212.052	212.685	
Private capital equipment for manufacturing industries		FD	413121	225.647	225.856	227.306	227.669	228.192	
Private capital equipment for nonmanufacturing industries		FD	413122	206.463	206.670	207.272	207.381	208.046	
Government purchased goods, excluding foods and energy	1	FD	4132	136.525	136.508	136.410	136.211	136.373	
Government purchased goods excluding foods, energy, and capital									
equipment	1	FD	41321	146.359	146.279	145.967	145.493	145.392	
Government purchased capital equipment.		FD	41322	122.220	122.278	122.439	122.571	123.047	
Goods for export, excluding foods and energy  Final demand services	1	FD FD	4133 42	137.696 138.537	138.170 138.842	137.852 139.163	137.112 139.072	136.582 139.700	
Final demand trade services <sup>3</sup>		FD	423	150.163	150.695	151.988	150.711	151.753	
Trade of finished goods <sup>2</sup>		FD	4231	148.853	149.255	150.614	149.603	150.318	
Trade of personal consumption goods	1	FD	42311	148.624	149.098	150.636	150.426	150.601	
Trade of private capital equipment		FD	42312	148.175	148.254	148.805	144.269	147.359	
Trade of government purchased goods		FD	4232	157.592	159.662	160.475	157.558	161.189	
Trade of government purchased goods, excluding capital equipment		FD	42321	162.298	165.258	165.839	165.176	168.562	
Trade of government purchased capital equipment	1	FD	42322	149.049	149.769	150.920	144.661	148.624	
Trade of exports		FD	4233	159.665	160.827	161.669	158.492	161.660	
Final demand transportation and warehousing services		FD	422	153.260	149.512	148.856	148.850	149.549	
Transportation of passengers for final demand		FD FD	4221 42211	139.935 139.928	135.680 135.681	134.630 134.633	137.040 137.038	139.319 139.312	
Transportation of private passengers  Transportation of government passengers		FD	42211	139.668	135.459	134.421	136.802	139.057	
Transportation of passengers for export.	1	FD	42213	139.975	135.684	134.624	137.057	139.354	
Transportation and warehousing of goods for final demand		FD	4222	157.617	154.087	153.589	152.633	152.704	
Transportation and warehousing of finished goods <sup>2</sup>	1	FD	42221	156.036	152.276	151.748	150.768	150.828	
Transportation and warehousing of personal consumption goods		FD	422211	156.420	152.721	152.202	151.238	151.361	
Transportation and warehousing of private capital equipment		FD	422212	154.486	150.477	149.911	148.868	148.668	
Transportation and warehousing of government purchased goods		FD	42222	155.921	152.857	152.112	151.052	151.504	
Transportation and warehousing of exports	1	FD	42223	162.793	159.671	159.293	158.408	158.424	
Final demand services less trade, transportation, and warehousing	1	FD	421	131.707	132.341	132.371	132.749	133.200	
Finished services less trade, transportation, and warehousing <sup>2</sup> Finished consumer services less trade, transportation, and		FD	4211	132.056	132.653	132.625	133.003	133.413	
warehousing Private capital investment services less trade, transportation, and		FD	42111	131.398	132.045	131.937	132.322	132.802	
warehousing		FD	42112	138.298	138.501	139.101	139.436	139.300	
warehousing.  Gov. purchased services less trade, transportation, and warehousing,		FD	4212	122.564	123.305	123.379	123.773	124.496	
excl. capital investment		FD	42121	123.073	123.898	123.944	124.340	125.178	
transportation, and warehousing	1	FD FD	42122 4213	109.370 137.926	108.895 138.972	109.356 139.808	109.697	108.763 140.897	
Services for export less trade, transportation, and warehousing		FD	1	1			140.165 176.730		
Final demand construction	1	FD	43 431	176.774 181.016	176.463 180.751	176.704 180.993	181.041	174.391 178.467	
Construction for government		FD	432	168.856	168.449	168.686	168.668	166.813	
Final Demand Special Groupings									
Final demand less exports.	1	FD	49101	138.275	138.570	138.156	138.229	138.625	
Final demand less government	04/10	FD	49102	138.753	139.077	138.726	138.685	139.091	
Final demand less foods, food and nonalcoholic beverages for immediate consumption, and energy <sup>4</sup>	04/10	FD	49103	138.528	138.785	139.047	138.900	139.363	
Final demand less foods and energy <sup>4</sup>	1	FD	49104	138.227	138.491	138.769	138.654	139.081	
Final demand less foods and food and nonalcoholic beverages for immediate				400	105	400	400	40	
consumption <sup>4</sup>	04/10	FD	49105	138.398	138.699	138.287	138.214	138.642	

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

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

[July 2023, Index base Nov. 2009=100, unless otherwise	indica		modity							
Grouping			ode		Seaso	nally adjusted in	ndex <sup>1</sup>			
Grouping	base	Group code	Item code	Mar. 2023	Apr. 2023 <sup>p</sup>	May 2023 <sup>p</sup>	June 2023 <sup>p</sup>	July 2023 <sup>p</sup>		
Final demand less foods <sup>4</sup>	04/10	FD	49106	138.054	138.359	138.000	137.954	138.350		
Final demand less energy.	04/10 01/10	FD FD	49107	138.734	138.947	139.127	139.005	139.450		
Final demand less trade services	01/10	FD	49108 49109	136.930 136.208	137.127 136.564	136.334 135.758	136.545 136.018	136.824 136.306		
Final demand goods less energy.	01/10	FD	49111	141.380	141.398	141.190	140.968	141.170		
Final demand goods less foods.	04/10	FD	49112	137.934	138.302	136.079	136.147	136.169		
Final demand services less trade services	04/10	FD	49113	132.571	132.788	132.754	133.094	133.564		
Final demand distributive services <sup>5</sup>	04/10	FD	49114	148.278	148.174	149.165	147.963	148.837		
Final demand goods plus final demand distributive services <sup>5</sup>	04/10	FD	49115	143.037	143.108	142.302	141.811	142.260		
Final demand less foods, energy, and trade services <sup>4</sup>	08/13	FD	49116	127.363	127.548	127.567	127.738	127.993		
Private and government purchased capital equipment	08/13	FD	49117	127.121	127.237	127.674	127.780	128.176		
Private and government purchased capital investment services	08/13 08/13	FD FD	49118 49119	132.087 133.433	132.029 133.409	132.526 133.844	130.969 133.110	132.006 133.490		
Total finished <sup>2</sup>	01/10	FD	49201	139.182	133.409	139.225	139.329	133.490		
Total finished less foods, food and nonalcoholic beverages for immediate	01/10	'	10201	100.102	100.000	100.220	100.020	100.717		
consumption, and energy <sup>2, 4</sup>		FD	49202	137.841	138.094	138.428	138.424	138.842		
Total finished less foods and energy <sup>2, 4</sup>	01/10	FD	49203	138.675	138.931	139.265	139.262	139.682		
Total finished less foods and food and nonalcoholic beverages for immediate consumption <sup>2, 4</sup>	12/10	FD	49204	137.218	137.654	137.373	137.466	137.854		
Total finished less foods <sup>2, 4</sup>	01/10	FD	49204	138.598	137.034	137.373	138.850	137.654		
Total finished less energy <sup>2</sup> .	01/10	FD	49206	139.301	139.503	139.743	139.758	140.171		
Finished goods <sup>2</sup>		FD	49207	253.374	254.551	250.433	251.288	251.740		
Finished goods less energy <sup>2</sup>	00/82	FD	49208	250.846	250.597	250.513	250.776	251.372		
Finished goods, excluding foods <sup>2, 4</sup>	00/82	FD	49209	249.105	250.930	246.378	247.307	247.744		
Finished services <sup>2</sup>	01/10	FD	49210	137.010	137.312	137.625	137.604	138.110		
Private capital investment services.	04/10	FD	49211	142.182	142.103	142.617	141.049	142.119		
Finished distributive services <sup>2, 5</sup>	04/10	FD	49212	146.650	146.544	147.648	146.662	147.284		
Finished services less trade services <sup>2</sup> .  Finished services less distributive services <sup>2, 5</sup> .	04/10	FD FD	49213	132.404	132.668	132.593	132.941	133.368		
Total private capital investment (goods, services, and construction)	04/10 04/10	FD	49214 49215	131.367 141.352	131.853 141.332	131.802 141.810	132.223 141.023	132.671 141.480		
Finished goods plus finished distributive services <sup>2</sup>	04/10	FD	49216	143.843	144.132	143.474	143.246	143.676		
Total exports.	04/10	FD	49301	139.813	139.817	139.381	138.487	139.018		
Goods for export	00/82	FD	49302	234.565	234.493	232.543	230.830	230.662		
Services for export	04/10	FD	49303	148.577	148.644	149.167	148.390	149.811		
Total government purchases	04/10	FD	49401	136.244	135.713	134.542	134.311	134.808		
Government purchased goods	00/82	FD	49402	234.376	231.052	225.927	225.289	225.473		
Government purchased services	04/10	FD	49403	130.733	131.368	131.491	131.338	132.555		
Total government purchased capital investment (goods, services, construction)	08/13	FD	49404	131.475	131.414	131.734	131.075	131.081		
Government purchases, defense	05/15 05/15	FD FD	49405 49406	123.097 130.691	121.707 130.652	120.531 129.592	120.319 129.373	121.298 129.613		
Personal consumption.	01/10	FD	49501	138.604	130.032	138.552	138.861	139.232		
Personal consumption goods (finished consumer goods).	00/82	FD	49502	271.397	272.997	266.727	267.882	268.254		
Personal consumption goods less energy.	00/82	FD	49503	271.471	270.933	270.286	270.606	271.166		
Personal consumption goods less foods	00/82	FD	49504	271.314	274.137	266.275	267.676	267.988		
Personal consumption nondurable goods less foods	00/82	FD	49508	306.359	310.558	299.049	301.092	301.406		
Personal consumption services.	04/10	FD	49505	135.698	136.057	136.338	136.557	136.973		
Personal consumption less trade services		FD	49506	135.522	135.991	134.957	135.393	135.812		
Personal consumption less distributive services <sup>5</sup>		FD	49507	135.002	135.620	134.565	135.051	135.481		
Personal consumption less foods and energy		FD	49510	127.259	127.564	127.836	128.025	128.404		
Personal consumption less foods, energy, and trade services <sup>3</sup> Personal consumption less foods, energy, and distributive services <sup>5</sup>	04/14 04/14	FD FD	49511 49512	124.270 123.951	124.534 124.377	124.460 124.320	124.765 124.678	125.210 125.139		
Personal consumption goods plus personal consumption distributive services	08/13	FD	49509	132.440	132.806	131.904	132.042	132.207		
	00/10	'	10000	102.110	102.000	101.001	102.012	102.207		
Intermediate Demand by Commodity Type Processed goods										
	00/82	ID6	1	260 972	250 517	255 505	25/1 251	252.927		
Processed goods for intermediate demand	00/82	ID6	11	260.873 236.066	259.517 236.753	255.585 236.378	254.351 234.805	252.927		
Materials for manufacturing	00/02	ID6	111	147.967	148.369	148.041	146.497	144.090		
Materials for food manufacturing.	00/82	ID6	1111	254.891	252.103	247.306	243.277	245.284		
Materials for nondurable manufacturing	00/82	ID6	1112	274.478	274.051	270.013	266.057	262.973		
Materials for durable manufacturing	00/82	ID6	1113	281.451	285.259	290.746	289.757	280.658		
Components for manufacturing	00/82	ID6	112	187.220	187.822	187.722	187.654	187.690		
Components for nondurable manufacturing		ID6	1121	147.044	147.348	147.044	146.201	145.407		
Components for durable manufacturing		ID6	1122	132.065	132.498	132.438	132.426	132.490		
Materials and components for construction	00/82	ID6	12	350.455	350.868	350.798	350.537	350.937		
Materials for construction.		ID6	121	165.726	165.954	166.236	166.344	166.835		
Components for construction	00/82	ID6 ID6	122 13	178.955 259.396	179.139 251.771	178.836 234.191	178.507 232.940	178.457 230.832		
Processed fuels and lubricants to manufacturing industries	00/82	ID6	131	268.138	251.771	243.599	232.940	230.032		
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Table 3. Producer price indexes for Final Demand-Intermediate Demand groupings, seasonally adjusted — Continued

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

[July 2023, Index base Nov. 2009=100, unless otherwise	indica			Ī						
	Other code									
Grouping	index base	Group code	Item code	Mar. 2023	Apr. 2023 <sup>p</sup>	May 2023 <sup>p</sup>	June 2023 <sup>p</sup>	July 2023 <sup>p</sup>		
Processed fuels and lubricants to nonmanufacturing industries	00/82	ID6	132	256.934	251.015	231.489	229.728	227.845		
Containers for intermediate demand	00/82	ID6	14	311.117	310.531	311.583	310.079	308.517		
Supplies for intermediate demand.	00/82	ID6 ID6	15	252.994	252.360	251.449	250.716	251.267		
Supplies to manufacturing industries.  Supplies to nonmanufacturing industries.	00/82 00/82	ID6	151 152	247.652 251.816	247.579 251.100	247.357 250.089	246.749 249.343	246.117 250.073		
Supplies to nonmanufacturing industries, feeds.	00/82	ID6	1521	244.932	241.303	234.384	232.515	239.626		
Supplies to nonmanufacturing industries, other than feeds	00/82	ID6	1522	254.736	254.393	254.142	253.545	253.443		
Unprocessed goods										
Unprocessed goods for intermediate demand	00/82	ID6	2	255.668	258.375	244.593	241.729	245.754		
Unprocessed foodstuffs and feedstuffs.	00/82	ID6	21	237.096	233.512	222.705	225.026	222.952		
Unprocessed nonfood materials.	00/82	ID6	22	258.015	265.197	249.848	243.323	251.625		
Unprocessed nonfood materials except fuel.	00/82	ID6	221	322.391	343.209	321.431	311.457	319.951		
Unprocessed nonfood materials except fuel to manufacturing industries	00/82	ID6	2211	298.087	318.284	297.135	287.352	295.577		
Unprocessed nonfood materials except fuel to nonmanufacturing										
industries	00/82	ID6	2212	345.979	346.354	346.462	348.739	349.246		
Unprocessed fuel	00/82	ID6	222	123.973	105.030	102.567	102.876	110.418		
Unprocessed fuel to manufacturing industries	00/82	ID6	2221	218.889	214.753	208.750	215.200	220.515		
Unprocessed fuel to nonmanufacturing industries.	00/82	ID6	2222	122.160	101.843	99.509	99.480	107.363		
Services		IDC		144 000	145.040	145 505	145 500	146 000		
Services for intermediate demand		ID6 ID6	3 33	144.280	145.243	145.565	145.500	146.202		
	1	ID6	331	170.298 157.818	171.652 158.772	171.486 158.148	170.393 156.292	172.588 157.964		
Trade services for manufacturing industries.	1	ID6	332	1						
Trade services for nonmanufacturing industries	12/12	ID6	32	149.418 156.286	150.893 154.570	151.196 153.910	151.044 153.795	153.316 154.455		
Transportation of passengers for intermediate demand		ID6	321	139.730	135.522	134.485	136.864	139.119		
Transportation of passengers for manufacturing industries		ID6	3211	139.730	135.661	134.403	137.033	139.119		
Transportation of passengers for nonmanufacturing industries		ID6	3212	139.765	135.567	134.532	136.905	139.329		
Transportation and warehousing of goods for intermediate demand		ID6	322	158.159	156.672	156.046	155.697	156.209		
Transportation and warehousing of goods for manufacturing industries	12/12	ID6	3221	132.000	129.772	129.636	128.671	128.454		
Transportation and warehousing of goods for nonmanufacturing industries	12/12	ID6	3222	141.116	140.077	139.406	139.290	139.933		
Services less trade, transportation, and warehousing for intermediate demand.		ID6	31	135.119	136.481	137.084	137.252	137.634		
Services less trade, transportation, and warehousing for manufacturing industries.		ID6	311	127.121	127.797	127.978	127.842	128.279		
Services less trade, transportation, and warehousing for nonmanufacturing industries.		ID6	312	135.373	136.758	137.376	137.554	137.934		
Construction		IDC		140.050	140 440	145 440	145.000	145.000		
Construction for intermediate demand.		ID6	4	143.359	143.442	145.443	145.602	145.996		
Intermediate Demand by Commodity Type Special Groupings	00/00	IDC	0111	000.040	000 000	050 050	055 070	050 000		
Processed materials less foods and feeds	00/82	ID6 ID6	9111	262.043 249.697	260.836 246.887	256.958 242.434	255.879 239.674	253.980 242.915		
Processed energy goods.	00/82	ID6	9112	260.600	252.940	235.278	234.016	231.900		
Processed materials less energy.	00/82	ID6	9118	257.812	252.940	257.573	256.361	251.900		
Processed materials less foods and energy.		ID6	9115	258.360	258.981	259.028		256.212		
Intermediate distributive services <sup>6</sup>	04/10	ID6	9116	162.600	162.702	162.338	258.018 161.581	163.019		
Processed goods plus intermediate distributive services.	04/10	ID6	9117	147.417	146.906	145.248	144.554	144.379		
Unprocessed materials less agricultural products.	00/82	ID6	9211	258.405	266.017	250.456	242.595	254.468		
Unprocessed energy materials <sup>7</sup>	00/82	ID6	9212	190.329	197.293	181.521	176.001	190.122		
Unprocessed materials less energy	00/82	ID6	9213	292.375	291.625	280.455	279.965	275.057		
Unprocessed nonfood materials less energy <sup>8</sup>	00/82	ID6	9216	456.898	464.997	453.039	443.764	430.140		
Intermediate Demand by Production Flow										
Stage 4 Intermediate Demand										
Stage 4 intermediate demand		ID5	4	147.427	147.845	147.680	147.594	148.049		
Inputs to stage 4 goods producers		ID5	41	146.628	146.514	146.512	145.914	145.643		
Goods		ID5	411	140.343	140.268	140.019	139.829	139.111		
Foods		ID5	4111	152.739	152.295	149.069	148.481	146.503		
Energy		ID5	4112	178.345	152.748	136.881	142.480	143.450		
Goods excluding foods and energy.		ID5	4113	138.202	138.420	138.771	138.588	138.047		
Services.		ID5	412	167.547	167.301	168.123	166.170	167.387		
Trade services.		ID5	4123	179.709	179.266	180.485	177.619	179.148		
Transportation and warehousing services.		ID5	4122	137.879	135.789	134.918	134.686	135.131		
Transportation of passengers		ID5	41221	139.974	135.683	134.623	137.056	139.353		
Transportation and warehousing of goods.		ID5 ID5	41222 4121	146.598	144.801	143.909	143.140	143.249		
Services less trade, transportation, and warehousing		ID5	4121	128.287 143.724	129.197 144.416	129.351 144.515	129.626 144.655	130.091 145.552		
Inputs to stage 4 services producers		נטון	1+2	143.724	144.410	144.010	144.000	140.002		

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

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

			nmodity	Seasonally adjusted index <sup>1</sup>					
Grouping	index base	Group code	Item code	Mar. 2023	Apr. 2023 <sup>p</sup>	May 2023 <sup>p</sup>	June 2023 <sup>p</sup>	July 2023 <sup>p</sup>	
Goods		ID5	421	146.743	145.708	144.672	144.783	144.786	
Foods		ID5	4211	148.616	146.589	145.892	145.445	147.337	
Energy		ID5	4212	142.989	140.943	138.159	138.728	137.677	
Goods excluding foods and energy		ID5	4213	147.492	147.363	147.252	147.256	147.298	
Services		ID5	422	142.503	143.769	144.244	144.393	145.589	
Trade services		ID5	4223	159.084	160.188	161.082	159.999	162.092	
Transportation and warehousing services.		ID5 ID5	4222 42221	151.678 139.412	150.501 135.162	148.860 134.113	148.788 136.521	150.799 138.797	
Transportation of passengers		ID5	42221	154.396	153.735	151.986	151.494	153.468	
Services less trade, transportation, and warehousing		ID5	4221	138.754	140.284	140.931	141.234	142.240	
Construction.		ID5	423	143.359	143.442	145.443	145.602	145.996	
Inputs to stage 4 construction producers		ID5	43	162.143	162.602	160.967	161.093	161.321	
Goods		ID5	431	166.342	166.918	165.289	165.461	165.317	
Energy		ID5	4312	156.959	161.512	142.071	144.110	141.039	
Goods excluding foods and energy		ID5	4313	171.097	171.286	171.412	171.408	171.557	
Services		ID5	432	151.333	151.501	149.852	149.861	151.004	
Trade services		ID5	4323	170.428	171.499	167.222	167.489	169.921	
Transportation and warehousing services		ID5	4322	150.844	147.174	146.345	145.473	145.397	
Transportation of passengers		ID5	43221	145.900	141.435	140.332	142.863	145.254	
Transportation and warehousing of goods		ID5	43222	151.764	148.093	147.267	146.308	146.172	
Services less trade, transportation, and warehousing		ID5	4321	129.849	130.709	131.002	131.134	131.589	
Stage 3 Intermediate Demand									
Stage 3 intermediate demand		ID5	3	147.884	147.568	145.533	145.296	144.392	
Inputs to stage 3 goods producers		ID5	31	159.747	159.005	156.208	156.025	153.772	
Goods		ID5	311	155.633	154.688	151.767	151.816	148.831	
FoodsEnergy		ID5 ID5	3111 3112	175.454	171.522	161.983	164.264 133.032	160.662	
o,		ID5	3113	153.086 151.674	142.369 152.552	132.322 152.798	151.882	130.376 149.062	
Goods excluding foods and energy		ID5	312	164.870	164.955	162.823	161.753	162.449	
Trade services.		ID5	3123	172.743	174.550	170.626	169.098	170.270	
Transportation and warehousing services.		ID5	3122	152.377	149.178	148.833	148.022	147.962	
Transportation of passengers		ID5	31221	149.030	144.464	143.336	145.925	148.370	
Transportation and warehousing of goods		ID5	31222	152.347	149.228	148.927	147.928	147.729	
Services less trade, transportation, and warehousing		ID5	3121	132.131	133.034	133.390	133.464	133.925	
Inputs to stage 3 services producers		ID5	32	138.102	138.107	136.607	136.310	136.340	
Goods		ID5	321	132.366	128.099	119.563	118.592	117.184	
Foods		ID5	3211	161.091	156.890	157.528	155.281	155.318	
Energy		ID5	3212	135.980	129.087	115.272	113.838	111.567	
Goods excluding foods and energy		ID5	3213	136.424	136.259	135.797	135.560	135.473	
Services.		ID5	322	139.456	140.584	140.892	140.765	141.170	
Trade services.		ID5 ID5	3223 3222	188.834	193.261 160.723	191.723 160.089	192.511 160.392	196.598	
Transportation and warehousing services  Transportation of passengers		ID5	32221	161.417 104.633	100.723	104.378	104.285	161.006 104.503	
Transportation and warehousing of goods		ID5	32222	161.913	161.216	160.579	160.883	161.500	
Services less trade, transportation, and warehousing		ID5	3221	130.950	132.384	133.062	132.762	132.888	
Construction.		ID5	323	143.359	143.442	145.443	145.602	145.996	
Inputs to stage 3 construction producers		ID5	33	138.196	137.394	136.885	138.127	139.843	
Goods		ID5	331	134.383	134.117	133.986	134.072	134.267	
Goods excluding foods and energy		ID5	3313	171.236	170.897	170.730	170.839	171.088	
Services		ID5	332	161.056	159.508	158.480	161.268	165.012	
Trade services		ID5	3323	165.369	163.604	162.409	165.573	169.696	
Transportation and warehousing services		ID5	3322	113.857	113.767	114.233	113.340	113.587	
Transportation and warehousing of goods		ID5	33222	120.181	120.086	120.578	119.635	119.895	
Services less trade, transportation, and warehousing		ID5	3321	124.300	124.836	125.216	125.008	125.578	
Stage 2 Intermediate Demand									
Stage 2 intermediate demand		ID5	2	134.177	135.419	133.594	132.096	133.889	
Inputs to stage 2 goods producers		ID5	21	122.727	124.295	120.532	117.962	121.266	
Goods		ID5	211	118.754	120.482	115.110	112.062	116.317	
Foods		ID5	2111	164.783	164.167	160.098	154.935	161.855	
Energy		ID5	2112	84.973	87.661	80.174	77.491	84.245	
Goods excluding foods and energy		ID5 ID5	2113 212	147.423 147.915	147.762 149.137	146.637 150.214	143.966 148.919	142.407 149.455	
Trade services.		ID5	2123	163.815	167.223	169.237	166.797	168.804	
Transportation and warehousing services		ID5	2123	167.658	166.399	166.771	165.565	165.008	
Transportation of passengers.		ID5	21221	140.194	136.079	135.068	137.385	139.593	
Transportation and warehousing of goods		ID5	21222	169.310	168.187	168.627	167.248	166.555	
Services less trade, transportation, and warehousing		ID5	2121	134.840	136.201	137.079	136.811	136.806	
Construction		ID5	213	143.359	143.442	145.443	145.602	145.996	
Outstruction.		פטו	213	143.359	143.442	140.443	143.002	145.996	

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

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

Grouping		ner code		Seasonally adjusted index <sup>1</sup>					
Grouping	index base	Group code	Item code	Mar. 2023	Apr. 2023 <sup>p</sup>	May 2023 <sup>p</sup>	June 2023 <sup>p</sup>	July 2023 <sup>p</sup>	
Inputs to stage 2 services producers		ID5	22	143.690	144.487	145.119	145.012	144.861	
Goods		ID5	221	146.220	145.795	144.292	143.836	143.649	
Foods		ID5	2211	122.376	121.361	117.895	115.701	115.350	
Energy.		ID5	2212	167.718	162.939	143.514	141.755	141.517	
Goods excluding foods and energy		ID5	2213	145.438	145.307	145.006	144.660	144.478	
Services		ID5 ID5	222 2223	142.968 176.430	143.929 177.488	144.792 183.964	144.722 182.263	144.563 180.696	
Transportation and warehousing services.		ID5	2222	148.160	145.565	144.527	146.374	145.359	
Transportation of passengers		ID5	22221	140.380	136.107	135.052	137.472	139.761	
Transportation and warehousing of goods		ID5	22222	150.176	147.879	146.840	148.588	146.962	
Services less trade, transportation, and warehousing		ID5	2221	141.874	143.099	143.847	143.709	143.679	
Construction.		ID5	223	143.359	143.442	145.443	145.602	145.996	
Stage 1 Intermediate Demand									
Stage 1 intermediate demand		ID5	1	145.738	145.562	144.189	143.908	143.840	
Inputs to stage 1 goods producers		ID5	11	147.996	147.382	145.306	144.249	143.351	
Goods		ID5	111	147.067	145.838	143.639	142.428	140.623	
Foods		ID5	1111	161.532	160.252	155.226	154.596	150.600	
Energy	1	ID5	1112	140.140	129.972	120.241	120.290	121.207	
Goods excluding foods and energy.		ID5	1113	150.049	150.951	150.992	149.348	147.212	
Services		ID5	112	154.430 170.525	155.574 172.282	153.799	153.133	154.784	
Trade services		ID5 ID5	1123 1122	170.525 155.183	172.282 154.271	168.993 157.327	167.708 155.877	169.698 156.941	
Transportation of passengers	1	ID5	11221	139.947	135.657	134.597	137.030	139.327	
Transportation and warehousing of goods		ID5	11222	157.190	157.127	161.172	158.770	159.515	
Services less trade, transportation, and warehousing		ID5	1121	108.988	109.494	109.156	109.483	110.524	
Construction.		ID5	113	143.359	143.442	145.443	145.602	145.996	
Inputs to stage 1 services producers		ID5	12	143.395	143.639	142.758	142.874	143.235	
Goods		ID5	121	147.771	146.763	143.139	142.326	141.238	
Foods		ID5	1211	199.016	205.085	150.556	131.277	131.143	
Energy		ID5	1212	161.705	157.480	146.409	144.279	140.724	
Goods excluding foods and energy		ID5	1213	148.948	149.355	149.398	149.294	149.311	
Services	1	ID5	122	140.893	141.663	141.940	142.448	143.417	
Trade services.		ID5	1223	170.094	171.456	171.763	171.534	173.848	
Transportation and warehousing services.	1	ID5 ID5	1222 12221	144.307 139.863	142.111 135.576	141.593 134.517	142.130 136.948	144.164 139.243	
Transportation of passengers		ID5	12221	162.075	160.746	160.458	160.053	162.165	
Services less trade, transportation, and warehousing		ID5	1221	135.899	137.022	137.407	137.977	138.651	
Construction.		ID5	123	143.359	143.442	145.443	145.602	145.996	
Inputs to stage 1 construction producers		ID5	13	161.863	160.937	159.114	159.159	159.426	
Goods		ID5	131	164.418	163.726	161.759	161.271	160.581	
Energy		ID5	1312	152.442	143.945	125.303	121.092	114.604	
Goods excluding foods and energy		ID5	1313	168.544	168.783	168.798	168.755	168.758	
Services		ID5	132	156.626	155.123	153.640	154.993	157.597	
Trade services		ID5	1323	163.587	162.820	160.902	163.142	166.789	
Transportation and warehousing services	1	ID5	1322	125.306	121.780	121.404	120.513	120.349	
Transportation and warehousing of goods	1	ID5 ID5	13222	129.613 136.449	125.965 137.832	125.576 137.736	124.656 137.678	124.486 138.438	
		103	1321	130.449	137.632	137.730	137.076	130.436	
Intermediate Demand by Production Flow Special Groupings									
Total goods inputs to stage 4 intermediate demand	1	ID5	9411	144.413	144.187	143.435	143.410	143.035	
Total services inputs to stage 4 intermediate demand		ID5	9412	146.527	147.512	147.875	147.735	148.929	
Total construction inputs to stage 4 intermediate demand		ID5	9413	142.171	142.254	144.238	144.395	144.787	
Total foods inputs to stage 4 intermediate demand		ID5	9414	147.658	146.558	144.466	143.950	143.642	
Total energy goods inputs to stage 4 intermediate demand.	1	ID5	9415	134.351	132.702	127.308	128.201	127.005	
Total goods less foods and energy inputs to stage 4 intermediate demand	1	ID5 ID5	9416 9311	146.527 142.128	146.665 140.429	146.865 136.319	146.764 136.119	146.510 133.703	
Total services inputs to stage 3 intermediate demand		ID5	9312	142.767	143.692	143.588	143.333	143.814	
Total construction inputs to stage 3 intermediate demand.	1	ID5	9313	142.707	142.254	144.238	144.395	144.787	
Total foods inputs to stage 3 intermediate demand		ID5	9314	156.054	152.552	144.140	146.135	142.957	
Total energy goods inputs to stage 3 intermediate demand		ID5	9315	135.915	128.587	115.596	114.508	112.223	
Total goods less foods and energy inputs to stage 3 intermediate demand	1	ID5	9316	143.277	143.938	144.059	143.303	141.070	
Total goods inputs to stage 2 intermediate demand	04/10	ID5	9211	115.749	117.180	112.452	109.806	113.418	
Total services inputs to stage 2 intermediate demand	04/10	ID5	9212	144.613	145.638	146.555	146.194	146.199	
Total construction inputs to stage 2 intermediate demand	1	ID5	9213	142.171	142.254	144.238	144.395	144.787	
Total foods inputs to stage 2 intermediate demand		ID5	9214	165.207	164.580	160.493	155.344	162.191	
Total energy goods inputs to stage 2 intermediate demand	1	ID5	9215	84.121	86.669	79.206	76.589	83.124	
Total goods less foods and energy inputs to stage 2 intermediate demand	1	ID5 ID5	9216 9111	138.574 133.482	138.790 132.536	137.910 130.193	135.904 129.344	134.737 128.121	
Total goods inputs to stage 1 intermediate demand									

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

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

	Other	Commodity code		Seasonally adjusted index <sup>1</sup>					
Grouping	base	Group code	Item code	Mar. 2023	Apr. 2023 <sup>p</sup>	May 2023 <sup>p</sup>	June 2023 <sup>p</sup>	July 2023 <sup>p</sup>	
Total services inputs to stage 1 intermediate demand	04/10	ID5	9112	143.508	144.190	144.000	144.356	145.545	
Total construction inputs to stage 1 intermediate demand	04/10	ID5	9117	142.171	142.254	144.238	144.395	144.787	
Total foods inputs to stage 1 intermediate demand	04/10	ID5	9114	152.779	151.747	145.871	144.846	141.178	
Total energy goods inputs to stage 1 intermediate demand	04/10	ID5	9115	146.826	140.039	129.240	127.869	125.956	
Total goods less foods and energy inputs to stage 1 intermediate demand	04/10	ID5	9116	127.271	127.779	127.809	127.112	126.256	

<sup>&</sup>lt;sup>1</sup> 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.

<sup>&</sup>lt;sup>2</sup> PPI defines Total finished as including only the personal consumption and private capital investment portions of final demand.

<sup>&</sup>lt;sup>3</sup> Trade indexes measure changes in margins received by wholesalers and retailers.

<sup>&</sup>lt;sup>4</sup> 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.

 $<sup>^{\</sup>rm 5}$  Distributive services include transportation, warehousing, and trade of goods.

<sup>&</sup>lt;sup>6</sup> Includes intermediate trade, transportation, and warehousing services.

<sup>&</sup>lt;sup>7</sup> Includes crude petroleum.

<sup>&</sup>lt;sup>8</sup> Excludes crude petroleum.

p Preliminary

<sup>&</sup>quot;-" Data not available.