



Transmission of material in this release is embargoed until 8:30 a.m. (EDT), Thursday, May 9, 2019

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

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

PRODUCER PRICE INDEXES – APRIL 2019

The Producer Price Index for final demand rose 0.2 percent in April, seasonally adjusted, the U.S. Bureau of Labor Statistics reported today. Final demand prices advanced 0.6 percent in March and 0.1 percent in February. (See table A.) On an unadjusted basis, the final demand index increased 2.2 percent for the 12 months ended in April.

Leading the April rise in the index for final demand, prices for final demand goods climbed 0.3 percent. The index for final demand services edged up 0.1 percent, and prices for final demand construction advanced 1.6 percent.

The index for final demand less foods, energy, and trade services moved up 0.4 percent in April, the largest increase since rising 0.5 percent in January 2018. For the 12 months ended in April, prices for final demand less foods, energy, and trade services advanced 2.2 percent.

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

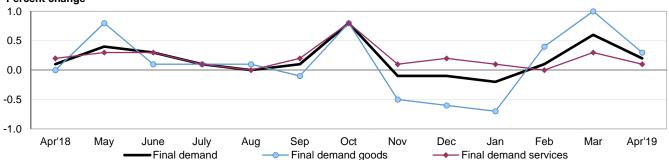
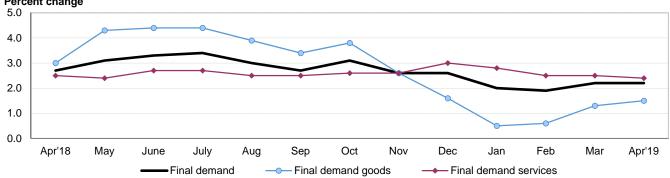


Chart 2. Twelve-month percent changes in selected PPI final demand price indexes, not seasonally adjusted Percent change



Final Demand

Final demand goods: The index for final demand goods moved up 0.3 percent in April, the third consecutive increase. The April advance can be traced to prices for final demand energy, which rose 1.8 percent. In contrast, the index for final demand foods fell 0.2 percent. Prices for final demand goods less foods and energy were unchanged.

Product detail: Most of the April rise in the index for final demand goods is attributable to prices for gasoline, which increased 5.9 percent. The indexes for meats; search, detection, navigation, guidance systems, and related equipment; electric power; pharmaceutical preparations; and processed young chickens also moved higher. Conversely, prices for fresh and dry vegetables decreased 11.6 percent. The indexes for thermoplastic resins and materials and for liquefied petroleum gas also declined. (See table 4.)

Final demand services: Prices for final demand services inched up 0.1 percent in April following a 0.3-percent advance in March. Leading the increase in April, the index for final demand services less trade, transportation, and warehousing rose 0.3 percent. Prices for final demand transportation and warehousing services climbed 1.0 percent. In contrast, margins for final demand trade services fell 0.5 percent. (Trade indexes measure changes in margins received by wholesalers and retailers.)

Product detail: Most of the April advance in the index for final demand services can be traced to prices for portfolio management, which jumped 5.3 percent. The indexes for hospital outpatient care; transportation of passengers (partial); machinery, equipment, parts, and supplies wholesaling; and fuels and lubricants retailing also moved higher. Conversely, margins for food and alcohol retailing decreased 3.1 percent. The indexes for traveler accommodation services; health, beauty, and optical goods retailing; and long-distance motor carrying also declined.

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

		Final demand	F	Final den	nand god	ds	F	inal den	nand servic	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.)
2018												
Apr	0.1	0.2	0.0	-1.1	0.3	0.3	0.2	0.3	0.5	0.1	2.7	2.6
Мау	0.4	0.3	0.8	0.3	3.1	0.3	0.3	0.5	0.6	0.2	3.1	2.7
June	0.3	0.2	0.1	-1.2	1.1	0.2	0.3	0.5	0.8	0.3	3.3	2.7
July	0.1	0.3	0.1	-0.1	-0.4	0.3	0.1	-0.3	0.5	0.2	3.4	3.0
Aug	0.0	0.2	0.1	-0.5	0.1	0.2	0.0	-0.3	0.0	0.2	3.0	3.0
Sept	0.1	0.3	-0.1	-0.1	-0.7	0.1	0.2	-0.3	1.3	0.3	2.7	3.1
Oct	0.8	0.3	0.8	0.9	2.7	0.3	0.8	1.7	0.7	0.3	3.1	3.0
Nov	-0.1	0.2	-0.5	1.0	-4.1	0.2	0.1	0.1	0.5	0.1	2.6	2.9
Dec.1	-0.1	0.0	-0.6	2.1	-5.8	0.0	0.2	0.7	-0.2	0.0	2.6	2.8
2019												
Jan.1	-0.2	0.1	-0.7	-1.3	-3.4	0.2	0.1	0.3	0.5	0.0	2.0	2.5
Feb	0.1	0.1	0.4	-0.3	1.8	0.1	0.0	-0.4	-1.3	0.3	1.9	2.3
Mar	0.6	0.0	1.0	0.3	5.6	0.2	0.3	1.1	-0.8	0.0	2.2	2.0
Apr	0.2	0.4	0.3	-0.2	1.8	0.0	0.1	-0.5	1.0	0.3	2.2	2.2

Some of the figures shown above and elsewhere in this release may differ from those previously reported because data for December 2018 have been revised to reflect the availability of late reports and corrections by respondents.

Intermediate Demand by Commodity Type

Within intermediate demand in April, prices for processed goods fell 0.1 percent, the index for unprocessed goods advanced 2.7 percent, and prices for services moved up 0.3 percent. (See tables B and C.)

Processed goods for intermediate demand: The index for processed goods for intermediate demand fell 0.1 percent in April following two consecutive increases. The decrease was the result of a 0.4-percent decline in prices for processed materials less foods and energy. In contrast, the indexes for processed energy goods and for processed foods and feeds both rose 0.6 percent. For the 12 months ended is April, prices for processed goods for intermediate demand moved up 0.7 percent.

Product detail: Leading the April decline in the index for processed goods for intermediate demand, prices for thermoplastic resins and materials fell 6.7 percent. The indexes for diesel fuel, hot rolled steel sheet and strip, primary basic organic chemicals, and agricultural chemicals and chemical products also moved lower. Conversely, prices for gasoline advanced 5.9 percent. The indexes for meats, commercial electric power, and motor vehicle parts also increased. (See table 5.)

Unprocessed goods for intermediate demand: The index for unprocessed goods for intermediate demand increased 2.7 percent in April, the largest rise since a 3.7-percent advance in December 2018. In April, prices for unprocessed energy materials and for unprocessed foodstuffs and feedstuffs both increased 3.7 percent. In contrast, the index for unprocessed nonfood materials less energy fell 1.2 percent. For the 12 months ended in April, prices for unprocessed goods for intermediate demand decreased 2.0 percent.

Product detail: A major factor in the increase in prices for unprocessed goods for intermediate demand was the index for crude petroleum, which jumped 13.9 percent. Prices for slaughter hogs; hay, hayseeds, and oilseeds; slaughter steers and heifers; aluminum base scrap; and slaughter poultry also increased. Conversely, the index for carbon steel scrap declined 3.7 percent. Prices for natural gas and for slaughter cows and bulls also fell.

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

	Process	Processed goods for intermediate demand Unprocessed goods for intermediate demand									
Month	Total	Foods and feeds	Energy goods	Less foods and energy	Total, change from 12 months ago (unadj.)	Total	Food- stuffs and feed- stuffs	Energy materials	Nonfood materials less energy	Total, change from 12 months ago (unadj.)	
2018										a contraction of the contraction	
Apr	0.5	0.3	1.0	0.3	4.8	1.0	-2.1	4.1	0.5	4.2	
May	1.1	-0.1	3.1	0.8	6.2	2.3	0.7	5.1	-0.3	7.4	
June	0.4	-1.3	1.2	0.5	6.6	-1.0	-1.0	-1.8	0.6	6.5	
July	0.1	-1.0	-0.4	0.3	6.7	0.9	-2.5	5.2	-1.9	6.7	
A ug	0.2	-0.6	0.0	0.3	6.4	-3.7	-3.5	-4.4	-2.6	3.7	
Sept	0.2	-0.4	-0.1	0.4	6.0	0.9	0.8	2.0	-1.0	4.3	
Oct	0.7	0.5	3.0	0.1	6.1	3.3	4.3	3.7	0.8	7.6	
Nov	-0.6	0.2	-2.3	-0.3	4.5	-3.3	-0.3	-7.2	0.8	1.3	
Dec.1	-1.2	0.5	-4.5	-0.5	2.8	3.7	1.8	6.9	1.4	3.7	
2019											
Jan. ¹	-1.2	0.5	-5.2	-0.4	0.9	-4.7	-1.1	-9.0	-1.7	-3.1	
Feb	0.4	-0.1	1.6	0.1	0.6	-4.6	-1.0	-10.7	-0.7	-8.8	
Mar	0.8	-0.3	4.3	0.0	1.3	2.3	-2.3	7.3	1.2	-3.5	
A pr	-0.1	0.6	0.6	-0.4	0.7	2.7	3.7	3.7	-1.2	-2.0	

Some of the figures shown above and elsewhere in this release may differ from those previously reported because data for December 2018 have been revised to reflect the availability of late reports and corrections by respondents.

Services for intermediate demand: The index for services for intermediate demand climbed 0.3 percent in April after rising 0.4 percent in March. Over 40 percent of the broad-based increase in April can be traced to prices for services less trade, transportation, and warehousing for intermediate demand, which moved up 0.3 percent. Margins for trade services for intermediate demand advanced 0.7 percent, and the index for transportation and warehousing services for intermediate demand climbed 0.6 percent. For the 12 months ended in April, prices for services for intermediate demand moved up 2.8 percent.

Product detail: A major factor in the rise in prices for services for intermediate demand was the index for securities brokerage, dealing, investment advice, and related services, which advanced 1.2 percent. The indexes for portfolio management; metals, minerals, and ores wholesaling; machinery and equipment parts and supplies wholesaling; transportation of passengers (partial); and hardware, building materials, and supplies retailing also moved higher. In contrast, prices for staffing services fell 1.2 percent. The indexes for business loans (partial) and for paper and plastics products wholesaling also declined.

Table C. Monthly and 12-month percent changes in selected intermediate demand price

indexes for services by commodity type, seasonally adjusted

		mannamannahilandhiannamianna	es for intermediate o	lemand	
Month	Total		Transportation and warehousing	Other	Total, change from 12 months ago (unadj.)
2018					
Apr	0.3	0.8	0.3	0.1	3.0
May	0.3	0.4	0.4	0.2	3.1
June	0.2	0.4	0.5	0.1	3.0
July	0.4	0.4	0.3	0.4	3.4
Aug	0.0	-0.7	0.1	0.2	3.0
Sept	0.3	-0.4	0.6	0.3	3.3
Oct	0.6	1.9	0.5	0.3	3.3
Nov	0.1	0.0	0.2	0.1	3.1
Dec. ¹	0.1	0.2	-0.1	0.2	3.1
2019					
Jan.1	0.2	0.3	0.2	0.1	2.9
Feb	-0.1	-0.1	-0.1	0.0	2.6
Mar	0.4	0.8	-0.2	0.3	2.6
Apr	0.3	0.7	0.6	0.3	2.8

¹ Some of the figures shown above and elsewhere in this release may differ from those previously reported because data for December 2018 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 increased 0.3 percent in April, the third consecutive rise. In April, the index for total services inputs to stage 4 intermediate demand advanced 0.5 percent, and prices for total goods inputs edged up 0.1 percent. (See table D.) Increases in the indexes for portfolio management; machinery and equipment parts and supplies wholesaling; metals, minerals, and ores wholesaling; gasoline; engineering services; and meats outweighed decreasing prices for diesel fuel, staffing services, and legal services. (See table 6.) For the 12 months ended in April, the index for stage 4 intermediate demand moved up 2.5 percent.

Stage 3 intermediate demand: Prices for stage 3 intermediate demand advanced 0.9 percent in April, the largest rise since a 1.4-percent jump in October 2018. In April, the index for total goods inputs to stage 3 intermediate demand climbed 1.3 percent, and prices for total services inputs moved up 0.3 percent. Increases in the indexes for slaughter hogs; gasoline; metals, minerals, and ores wholesaling; slaughter steers and heifers; slaughter poultry; and asphalt outweighed declines in the indexes for agricultural chemicals and chemical products, slaughter cows and bulls, and business loans (partial). For the 12 months ended in April, prices for stage 3 intermediate demand advanced 1.9 percent.

Stage 2 intermediate demand: The index for stage 2 intermediate demand rose 0.5 percent in April following a 1.1-percent increase in March. In April, prices for total goods inputs to stage 2 intermediate demand climbed 0.7 percent, and the index for total services inputs moved up 0.3 percent. Advances in the indexes for crude petroleum; portfolio management; securities brokerage, dealing, investment advice, and related services; transportation of passengers (partial); hay, hayseeds, and oilseeds; and hardware, building materials, and supplies retailing outweighed falling prices for natural gas, thermoplastic resins and materials, and staffing services. For the 12 months ended in April, the index for stage 2 intermediate demand climbed 0.4 percent.

Stage 1 intermediate demand: Prices for stage 1 intermediate demand were unchanged in April following a 1.1-percent increase in March. In April, the index for total services inputs to stage 1 intermediate demand moved up 0.6 percent. Conversely, prices for total goods inputs fell 0.4 percent. Advances in the indexes for metals, minerals, and ores wholesaling; crude petroleum; aluminum base scrap; transportation of passengers (partial); and gasoline offset lower prices for diesel fuel, carbon steel scrap, wastepaper, traveler accommodation services, and natural gas. For the 12 months ended in April, the index for stage 1 intermediate demand increased 0.6 percent.

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

mbancomon como	now, seasonany adjusted												
	Stage 4 intermediate demand			Stage 3 intermediate demand			Stage	2 interr demand		Stage 1 intermediate demand			
Month	Total	Goods inputs	Ser- vices inputs	Total	Goods inputs	Ser- vices inputs	Total	Goods inputs	Ser- vices inputs	Total	Goods inputs	Ser- vices inputs	
2018													
Apr	0.3	0.3	0.3	0.1	-0.1	0.3	0.9	1.9	0.2	0.5	0.6	0.3	
May	0.4	0.7	0.2	1.0	1.8	0.3	1.3	2.8	0.2	0.9	1.1	0.6	
June	0.3	0.4	0.3	0.3	0.5	0.2	-0.1	-0.3	0.1	0.4	0.7	0.3	
July	0.3	0.0	0.4	0.1	-0.3	0.4	0.8	1.7	0.3	0.3	-0.1	0.6	
Aug	0.0	0.0	-0.1	-0.4	-0.8	0.0	-0.5	-1.1	0.0	-0.3	-0.3	-0.2	
Sept	0.2	0.2	0.3	0.3	0.6	0.1	0.6	0.9	0.4	0.2	0.1	0.2	
Oct	0.6	0.5	0.7	1.4	2.3	0.6	0.6	1.3	0.1	1.1	1.4	0.7	
Nov	-0.2	-0.3	-0.1	-0.8	-1.6	0.2	-1.5	-3.4	0.1	-0.4	-0.8	0.1	
Dec.1	0.0	-0.4	0.3	-1.2	-2.6	0.3	0.8	1.9	-0.1	-1.0	-2.0	0.2	
2019													
Jan.1	-0.2	-0.4	0.2	-0.7	-1.8	0.3	-1.8	-4.2	0.1	-1.7	-3.1	0.2	
Feb	0.2	0.3	0.0	0.2	0.6	-0.1	-1.6	-3.9	0.2	0.1	0.3	-0.2	
Mar	0.5	0.5	0.4	0.8	1.3	0.3	1.1	2.2	0.4	1.1	1.8	0.2	
Apr	0.3	0.1	0.5	0.9	1.3	0.3	0.5	0.7	0.3	0.0	-0.4	0.6	

¹ Some of the figures shown above and elsewhere in this release may differ from those previously reported because data for December 2018 have been revised to reflect the availability of late reports and corrections by respondents.

The Producer Price Index for May 2019 is scheduled to be released on Tuesday, June 11, 2019 at 8:30 a.m. (EDT).

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 2018, the PPI covered 71 percent of services as measured by 2012 Census revenue, and 31 percent of construction.

More than 100,000 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 2017, final demand goods were about 33 percent of overall final demand, final demand services were roughly 65.5 percent, and final demand construction was about 1.5 percent of final demand. Within intermediate demand, coverage of services for intermediate demand resulted in about a 45 percent increase in coverage of the intermediate demand portion of the economy.

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

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

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

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

Intermediate Demand: The intermediate demand portion of the FD-ID system tracks price change for goods, services, and construction products sold to businesses as inputs to production, excluding capital investment. The system includes two parallel treatments of intermediate demand. The first treatment organizes intermediate demand commodities by type. The second organizes intermediate demand commodities into production stages, with the explicit goal of developing a forward-flow model of production and price change.

The intermediate demand by commodity type portion of the system organizes commodities by similarity of product. The system is composed of six main price indexes: unprocessed goods for intermediate demand; processed goods for intermediate demand 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, https://www.bls.gov/ppi/industryflowstage.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 https://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).

Price data are provided on a voluntary and confidential basis; only sworn BLS employees are allowed access to individual company price reports. BLS publishes price indexes instead of actual prices. All PPIs are subject to revision 4 months after original publication to reflect the availability of late reports and corrections by respondents.

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

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

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

Title	Code	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
Retail bakeries	5461	July 2000
Miscellaneous food stores	5499	July 2000
New car dealers	5511	July 2000

Title	Code	PPI Detailed Report Issue
	SIC	
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	January 1996
Real estate agents and managers	6531	January 1996
Prepackaged software	7372	January 1998
Data processing services	7374	January 2002
Home health care services	8082	January 1997
Legal services	8111	January 1997
Engineering design, analysis, and consulting services	8711	January 1997
consulting services Premiums for property and casualty	8712	January 1997
insurance	9331 NAICS	July 1998
Now Industrial building construction	236211	January 2009
New Industrial building construction New warehouse building construction	236221	January 2008 July 2005
New school construction	236221	July 2005 July 2006
New office construction	236223	January 2007
New health care building construction	236224	January 2013
Concrete contractors, nonresidential building work	23811X	July 2008
Roofing contractors, nonresidential building work	23816X	July 2008
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 dealersSporting goods, hobby, book, and	444	January 2004
music stores	451 452	January 2004 January 2004
Miscellaneous store retailers	453	January 2004
Internet service providers	518111	July 2005
Internet publishing and web search portals	519130 522110	January 2010 January 2005
Savings institutions	522110	January 2005
Direct health and medical insurance carriers	524114	July 2004
Construction, mining, and forestry machinery and equipment rental and	532412	
leasing Management consulting services	541610	January 2005 January 2007

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

Weights

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

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

Price Index Reference Base

Effective with publication of January 1988 data, many important PPI series (including most commodity groups and individual items) were placed on a new reference base, 1982 = 100. From 1971 through 1987, the standard reference base for most PPI series was 1967 = 100. Except for rounding differences, the shift to the new reference base did not alter any previously published percent changes for affected PPI series. (See "Calculating Index Changes," below.) The 1982 reference base is not used for commodity indexes with a base later than December 1981 or for industry net output indexes

and their products. The FD-ID indexes typically have a reference base of November 2009 = 100.

For further information on the underlying concepts and methodology of the Producer Price Index, see chapter 14, "Producer Prices," in the *BLS Handbook of Methods*. This chapter can be downloaded from the BLS Web site at https://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 ind	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

https://www.bls.gov/ppi/ppiescalation.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 Persian Gulf War. In this case, intervention techniques allowed for better estimates of seasonally adjusted data. On the whole, very few series have required intervention. Out of almost 400 seasonally adjusted series, only 42 were subject to intervention in 2018.

For more information relating to seasonal adjustment methods, see "Summary of Changes to the PPI's Seasonal Adjustment Methodology" in the January 1995 issue of *Producer Price Indexes*, and "PPI and CPI Seasonal Adjustment: an Update" in the July 2010 *Monthly Labor Review*.

Producer Price Index Data on the Internet

In 1995, the BLS began posting PPI series, news releases, and technical information to both a World Wide Web (WWW) site and a file transfer protocol (FTP) site. During the years following the introduction of PPI Internet services, use of these sites eclipsed more traditional methods of data dissemination, such as subscriptions to the *PPI Detailed Report*. There were more than 4 million instances of PPI data

and tables being downloaded from the BLS website during the 12 months ended December 31, 2017.

Retrieving PPI data from the PPI Web site

PPI data can be obtained from the WWW address (https://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.

Commodity code Provides data for:

wps141101 Passenger cars, seasonally adjusted wpu141101 Passenger cars, not seasonally

101 Fassenger cars, not season

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, current NAICS series

pcu325---325---

pcu336110336110

pcu621111621111411

Provides data for:

Chemical manufacturing
Automobile and light duty
motor vehicle manufacturing
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 Provid

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	<u>Provides data for</u>
ndu212231212231	Lead and zinc ore mining
ndu2122312122312	Lead, zinc concentrates
ndu212231212231214	Lead concentrates

Text Files are best suited for users requiring access to either a large volume of time series data or other PPIrelated documentation, such as seasonal factor tables and relative importance tables. The text files can be accessed at https://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:

Directory: **Industry Data** /pub/time.series/pc Industry Data - Discontinued (NAICS basis) (SIC basis) Commodity Data (incl. FD-ID)

Special requests

/pub/time.series/nd /pub/time.series/pd /pub/time.series/wp Commodity Data – Discontinued /pub/time.series/wd /pub/special.requests/ppi

Additional information

The PPI homepage (https://www.bls.gov/ppi) contains additional information regarding PPI data and methodology. The top section of the homepage provides PPI news releases, both current and archived, as well as general PPI information. The "PPI Tables" section found beneath the statistics 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.

Table 1. Producer price indexes and percent changes for final demand¹ [Nov 2009=100, unless otherwise indicated]

Grouping	Other index	Relative Impor- tance	Un	nadjusted inc	dex	Unadjusted percent change to Apr. 2019 from:		Seasonally adjusted percent change from:		
	base	Dec. 2018 ²	Dec. 2018 ³	Mar. 2019 ³	Apr. 2019 ³	Apr. 2018	Mar. 2019	Jan. to Feb.	Feb. to Mar.	Mar. to Apr.
Final demand		100.000	116.8	117.9	118.2	2.2	0.3	0.1	0.6	0.2
Final demand goods		32.840	114.3	115.5	116.1	1.5	0.5	0.4	1.0	0.3
Final demand foods	1	5.776	119.4	118.1	118.0	1.0	-0.1	-0.3	0.3	-0.2
Finished consumer foods ⁴	1	4.649	212.9	210.7	210.1	1.6	-0.3	-0.4	8.0	-0.4
Finished consumer foods, crude	1	0.582	258.6	217.2	199.7	-0.7	-8.1	-4.7	5.7	-8.3
Finished consumer foods, processed	1	4.067 0.340	208.3 120.5	210.4 121.1	211.6 122.2	1.9 2.3	0.6 0.9	0.1 0.4	0.2 0.0	0.5 0.7
Foods for export.	1	0.340	113.6	111.3	111.9	-3.3	0.5	-0.1	-1.8	0.7
Final demand energy.	1	5.292	100.2	105.2	109.1	1.0	3.7	1.8	5.6	1.8
Finished consumer energy goods ⁴		4.258	156.9	165.3	172.4	0.8	4.3	1.2	5.6	2.0
Government purchased energy		0.790	106.3	110.3	111.5	2.5	1.1	3.9	5.3	0.7
Energy for export		0.244	95.7	99.8	101.4	2.0	1.6	5.6	7.2	1.0
Final demand goods less foods and energy	1	21.772	117.1	117.7	117.7	1.8	0.0	0.1	0.2	0.0
Finished goods less foods and energy ⁴	1	12.814	205.8	207.3	207.5	2.5	0.1	0.1	0.1	0.2
Finished consumer goods less foods and energy	1	6.933	229.9	231.8	231.9	2.5	0.0	0.2	0.2	0.2
Nondurable consumer goods less foods and energy	00/82	4.250	294.7	298.4	298.5	3.0	0.0	0.3	0.5	0.2
Durable consumer goods	1	2.683	162.8 175.7	163.1	163.1	1.6	0.0	0.0	-0.2 0.1	0.1
Private capital equipment Private capital equipment for manufacturing industries	1	5.881 1.328	175.7 179.1	176.8 180.5	176.9 180.8	2.5 2.8	0.1 0.2	0.1 0.1	0.1 0.1	0.2 0.2
Private capital equipment for nonmanufacturing industries	1	4.553	179.1	175.4	175.6	2.6	0.2	0.1	0.1	0.2
Government purchased goods, excluding foods and energy	00,02	2.244	113.6	114.6	115.1	2.3	0.1	0.1	0.0	0.2
Government purchased goods, excluding foods and energy, and capital			5.0	1.0			J. 1	5.5	5.0	3.0
equipment		1.319	115.9	117.0	117.2	2.4	0.2	0.3	-0.1	0.3
Government purchased capital equipment		0.925	109.1	110.1	110.7	2.1	0.5	0.1	0.0	0.5
Goods for export, excluding foods and energy		6.714	114.2	114.2	113.9	0.4	-0.3	0.2	0.1	-0.3
Final demand services	1	65.472	117.6	118.7	118.8	2.4	0.1	0.0	0.3	0.1
Final demand trade services ⁵	1	20.317	118.6	120.5	120.1	3.1	-0.3	-0.4	1.1	-0.5
Trade of finished goods ⁴	1	17.671	118.2	119.9	119.4	2.8	-0.4	-0.6	1.2	-0.7
Trade of personal consumption goods	1	14.440	117.6	119.3	118.6	2.9	-0.6	-0.9	1.4	-0.9
Trade of private capital equipment	1	3.231	119.9	121.6	122.3	3.0	0.6	0.8	0.6	0.5
Trade of government purchased goods.		0.725	121.3	123.9	124.3	4.4	0.3	0.7	1.1	0.3
Trade of government purchased goods, excluding capital equipment		0.444	119.8	122.5	122.8	5.0	0.2	0.2	1.3	0.2
Trade of government purchased capital equipment	1	0.281	123.1	125.7	126.1	3.4	0.3	1.3	0.8	0.3
Trade of exports	1	1.921	121.3	124.3	124.8	4.6	0.4	0.8	0.9	0.4
Final demand transportation and warehousing services		4.662	124.9	124.4	125.3	3.7	0.7	-1.3	-0.8	1.0
Transportation of passengers for final demand		1.303	118.8	117.1	120.4	3.0	2.8	-4.1	-1.5	3.5
Transportation of private passengers		0.890	118.8	117.1	120.5	3.1	2.9	-4.1	-1.6	3.5
Transportation of government passengers	1	0.134	118.8	117.2	120.5	3.1	2.8	-4.1	-1.5	3.5
Transportation of passengers for export	1	0.279	118.7	117.0	120.4	3.1	2.9	-4.2	-1.5	3.5
Transportation and warehousing of goods for final demand	1	3.359	126.6	126.5	126.5	3.9	0.0	-0.2	-0.5	0.0
Transportation and warehousing of finished goods ⁴		2.377	125.7	125.4	125.3	4.0	-0.1	-0.2	-0.6	-0.1
Transportation and warehousing of personal consumption goods		1.860	126.0	125.7	125.6	4.0	-0.1	-0.2	-0.6	0.0
Transportation and warehousing of private capital equipment		0.517	124.8	124.2	124.1	4.0	-0.1	-0.2	-0.6	-0.1
Transportation and warehousing of government purchased goods	1	0.246	124.9	125.1	125.1	3.6	0.0	-0.1	-0.5	0.1
Transportation and warehousing of exports	1	0.736	129.7	130.3	130.4	3.8	0.1	0.0	-0.3	0.2
Final demand services less trade, transportation, and warehousing	1	40.493	116.4	117.4	117.6	2.1	0.2	0.3	0.0	0.3
Finished services less trade, transportation, and warehousing ⁴		36.016	116.8	117.8	118.0	2.1	0.2	0.4	0.0	0.3
Finished consumer services less trade, transportation, and										
warehousing Private capital investment services less trade, transportation, and		32.508	116.7	117.7	117.9	2.1	0.2	0.5	0.0	0.3
warehousing		3.508	118.2	118.6	119.1	2.2	0.4	-0.6	-0.1	0.4
warehousing		3.024	111.3	112.0	112.3	1.7	0.3	-0.2	0.1	0.3
warehousing, excl. capital investment		2.924	111.6	112.4	112.6	1.7	0.2	-0.2	0.2	0.3
Government purchased capital investment services less trade, transportation, and warehousing		0.100	101.3	101.7	103.0	1.5	1.3	-2.3	0.1	1.3
Services for export less trade, transportation, and warehousing		1.453	117.5	118.5	119.8	2.7	1.3	-2.3	0.1	1.0
Final demand construction.	1	1.689	124.1	124.9	126.9	5.4	1.6	-0.5	0.3	1.6
Construction for private capital investment.	1	1.140	124.3	125.1	127.0	5.5	1.5	-0.1	0.2	1.5
Construction for government	1	0.549	123.5	124.5	126.6	5.3	1.7	0.0	0.2	1.7
	1	1								
Special groupings										
Special groupings Final demand less exports	04/10	87.866	115.2	116.4	116.7	2.4	0.3	0.1	0.6	0.2
Final demand less exports. Final demand less government.	1	87.866 91.948	115.2 115.3	116.4 116.4	116.7 116.7	2.4 2.3	0.3 0.3	0.1 0.1	0.6 0.5	0.2 0.2
Final demand less exports	04/10	91.948	115.3	116.4	116.7	2.3	0.3	0.1	0.5	0.2
Final demand less exports. Final demand less government.	04/10	1 1				1				

Table 1. Producer price indexes and percent changes for final demand¹ — Continued

[Nov 2009=100, unless otherwise indicated]

i i i i i i i i i i i i i i i i i i i			Relative r Impor- tance	Ur	nadjusted in	dex	Unadjusted percent change to Apr. 2019 from:		Seasonally adjusted percent change from:		
Immediate consumption*	3	base				Apr. 2019 ³					
Final demand less reorgy. 64/10 64/		04/10	00.700	1110	1100	1100	0.4	0.0	0.0	0.5	
Final demand less trade services. 04/10 94.708 116.3 117.2 117.3 2.4 0.1 0.0 0.3 0.3 0.3 0.1 Final demand less trade services. 01/10 76.324 114.6 116.0 116.0 116.1 1.9 0.4 0.3 0.4 0.4 Final demand goods less are forces. 01/10 27.044 116.5 116.8 116.1 1.9 0.4 0.3 0.4 0.4 Final demand goods less are forces. 04/10 27.044 116.5 116.8 116.1 1.9 0.4 0.3 0.4 0.4 Final demand goods less encodes. 04/10 27.044 116.7 112.3 113.1 1.6 0.7 0.5 1.2 0.4 Final demand goods less forces. 04/10 23.676 117.5 118.3 116.6 0.7 0.5 1.2 0.4 Final demand demand distributive services. 04/10 23.676 117.5 118.3 116.6 0.7 0.5 0.2 0.1 0.0 Final demand goods plus final demand distributive services. 04/10 23.676 117.5 118.0 118.7 3.2 0.3 0.1 0.0 Final demand goods plus final demand distributive services. 04/10 23.676 117.5 118.0 118.7 3.2 0.3 0.1 0.0 Final demand goods plus final demand distributive services. 08/13 68.615 109.3 110.0 110.3 2.2 0.3 0.1 0.0 Final demand goods plus final demand distributive services. 08/13 7.637 109.9 110.8 111.2 2.7 0.4 0.0 0.2 Fivate and government purchased capital investments services. 08/13 7.637 109.9 110.8 111.2 2.7 0.4 0.0 0.2 Total private and government purchased capital investments envices. 08/13 7.637 109.9 110.8 111.2 2.7 0.4 0.0 0.2 Total finished less foods, food and nonalcoholic beverages for immediate consumption, and energy. 07.10 7.038 117.3 117.4 118.0 118.6 2.5 0.2 0.1 0.1 07.10 7.038 117.3 117.4 118.0 118.6 2.4 0.0 0.3 0.1 07.10 7.038 117.3 118.4 118.4 118.4 2.4 0.0 0.0 0.3 0.1 07.10 7.038 7.03 0.1 0.0 0.0 07.10 7.038 7.03 0.1 0.0 0.0 07.10 7.038 7.03 0.0 0.0 0.0 07.10 7.038 7.03	·	1	I						l .		
Final demand less trade services. 01/10 78,833 115,1 116,0 116,5 2,0 0,4 0,3 0,4		1	I				1				
Final demand goods less energy. 10170 1017	••	1	I				1				
Final demand goods less neargy	_	1	I				1				
Final domand goods less foods. O4/10 A16.155 Final domand sorvivos less trade servivoses (a. 14.155 Final domand sorvivos less trade servivoses (but final domand sorvivos less trade servivoses). O4/10 A16.155 Final domand dostributive services (a. 04/10 A17.151 A18.151 A1		1	I				1				
Final demand distributive services 04/10	· · · · · · · · · · · · · · · · · · ·	1	I				1				
Final demand goods plus final demand services* 04/10 Final demand goods plus final goods good	· · · · · · · · · · · · · · · · · · ·	1	I						l .		
Final demand goods plus final demand distributive services*. 04/10		1	I				1				
Final demand less foods, energy, and trade services* 08/13		1	I								
Private and government purchased capital investments enviews. 08/13 7,637 1093 1108 1112 27 0,4 0,0 0,0 0,2 0,5 1014 private and government purchased capital investment. 08/13 14,443 1094 1102 1107 2.9 0,5 0,1 0,1 0,5 0,5 1014 private and government purchased capital investment. 08/13 14,443 1094 1102 110,7 0,3 0,3 0,1 0,6 0,5 1014 private and government purchased capital investment. 08/13 14,443 1094 1102 110,7 0,3 0,3 0,1 0,6 0,5 1014 private and government purchased capital investment. 08/13 14,443 1094 1102 110,7 0,3 0,3 0,1 0,6 0,5 0,5 10,1 0,1 0,5 0,5 1014 private and government purchased species. 08/14 12,7 0,8 11,8 11,8 11,8 11,8 11,8 11,8 11,8		1	I				1				
Private and government purchased capital investment services. 08/13		1	I								
Total private and government purchased capital investment. OB/13 14,443 109.4 110.2 110.7 2.9 0.5 0.1 0.1 0.6 0.2 Total finished less foods, tood and nonalcoholic beverages for immediate consumption, and energy. 6 1 17.0 17.0 17.0 17.0 17.0 17.0 17.0 17		1	I				1				
Total finished less foods, food and nonalcoholic beverages for immediate consumption, and energy. 6	· ·	1	I				1				
Total finished less foods, food and nonalcoholic beverages for immediate consumption, and energy, 6. 12/10 70.398 116.5 117.3 118.4 118.4 118.4 2.4 0.0 0.0 0.0 0.3 0.1 104 finished less foods and energy, 6. 101/10 70.908 117.3 118.4 118.4 118.4 2.4 0.0 0.0 0.0 0.3 0.1 0.6 0.2 104 finished less foods and energy, 6. 0.0 104 finished less foods and energy, 6. 0.0 104 finished less foods 6. 0.0 104 finished less foods 6. 0.0 104 finished less foods, 6. 0.0 105 finished goods, 6. 0.0 108 finished goods, excluding foods, 6. 0.0 109 finished goods, excluding foods, 6. 0.0 100 finished goods, excluding foods, 6. 0.0 101 finished good		1	I								
Consumption, and energy 6		01/10	79.013	110.2	117.0	117.0	2.0	0.5	0.1	0.0	0.2
Total finished less foods and energy ^{6, 6} . 12/10 74,656 114.7 116.0 117.3 118.4 12.4 0.0 0.0 0.0 0.3 0.1 Total finished less foods and food and nonalcoholic beverages for immediate consumption ^{6, 6} 0.1 11.0 75,166 116.0 117.3 117.7 2.3 0.3 0.1 0.6 0.2 Total finished less foods and food and nonalcoholic beverages for immediate consumption ^{6, 6} 0.1 11.0 75,166 116.0 117.3 117.7 2.3 0.3 0.1 0.6 0.2 Total finished less foods of the senergy 0.1 11.0 75,166 116.0 117.3 117.7 2.3 0.3 0.1 0.6 0.2 Total finished less foods of the senergy 0.1 11.0 11.0 11.0 11.0 11.0 11.0 11.0		12/10	70 398	116.5	117.5	1176	2.5	0.1	0.1	0.3	0.1
Total finished less foods and food and nonalcoholic beverages for immediate consumption. *** 0.1		1	I								
immediate consumption file of 12/10 74,656 114,7 116,0 116,3 2,4 0,3 0,1 0,6 0,2 17 total finished less foods file of 0.01/10 75,557 117,4 118,3 118,4 2,4 0,1 0,0 0,3 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0	•	0.7.0	7 0.000					0.0	0.0	0.0	0
Total finished less energy ⁴ . 01/10 75,555 117,4 118,3 118,4 2,4 0,1 0,0 0,3 0,0 Finished goods energy ⁴ . 00/82 21,721 202.5 205.0 206.8 2.0 0.9 0.2 1.4 0.4 Finished goods less energy ⁴ . 00/82 17,745 207.3 207.9 207.8 2.3 0.0 0.0 0.3 0.0 Finished goods, excluding foods ^{4,6} . 00/82 17,072 199.1 202.8 205.1 2.0 1.1 0.4 1.5 0.6 Finished goods, excluding foods ^{4,6} . 00/82 17,072 199.1 202.8 205.1 2.0 1.1 0.4 1.5 0.6 Finished services ⁴ . 01/10 56,954 116,7 117.8 117.8 2.3 0.0 0.0 0.3 0.0 Finished distributive services ^{4,7} . 04/10 7,256 118.1 119.1 119.5 2.7 0.3 0.0 0.3 0.3 Finished services less trades services ^{4,8} . 04/10 39,283 116.5 117.3 117.5 2.2 0.2 0.3 0.1 0.3 Finished services less trades services ^{4,7} . 04/10 39,283 116.5 117.3 117.5 2.2 0.2 0.3 0.0 0.3 Finished services less trades services, and construction). 04/10 41,769 116.5 117.3 117.5 2.5 0.3 0.2 0.3 0.0 Finished services less trades services, and construction). 04/10 41,769 114.8 116.2 116.5 2.5 0.3 0.2 0.1 0.4 Finished goods plus finished distributive services ^{4,7} 04/10 41,769 114.8 116.2 116.5 2.5 0.3 0.2 0.2 0.3 0.2 Foreign for export. 04/10 41,769 114.8 116.2 116.5 2.5 0.3 0.2 0.2 0.3 0.2 Foreign for export. 04/10 4,389 120.0 121.8 125.5 3.8 0.7 0.0 0.4 0.7 Foral government purchased goods. 04/10 4,189 113.7 114.6 115.0 2.3 0.3 0.2 0.2 0.3 0.2 Foreign for export. 04/10 4,189 113.7 114.6 115.0 2.3 0.3 0.2 0.2 0.3 0.2 Foreign consumption goods less energy 04/10 4,189 115.5 116.8 115.0 117.0		12/10	74.656	114.7	116.0	116.3	2.4	0.3	0.1	0.6	0.2
Finished goods energy	Total finished less foods ^{4, 6}	01/10	75.166	116.0	117.3	117.7	2.3	0.3	0.1	0.6	0.2
Finished goods less energy 4. 00/82 17.463 207.3 207.9 207.8 2.3 0.0 0.0 0.3 0.0 Finished goods, excluding foods 6. 00/82 17.072 199.1 202.8 205.1 2.0 1.1 0.4 1.5 0.6 Finished goods, excluding foods 6. 00/82 17.072 199.1 202.8 205.1 2.0 1.1 0.4 1.5 0.6 Finished goods, excluding foods 6. 00/82 17.072 199.1 202.8 205.1 2.0 1.1 0.4 1.5 0.6 Finished services 6. 01/10 7.256 118.1 119.1 119.5 2.7 0.3 0.0 0.3 0.0 Finished services 6. 04/10 20.48 116.7 118.2 117.7 3.0 0.4 0.5 0.9 0.5 Finished services less trade services 6. 04/10 39.283 116.5 117.3 117.5 2.2 0.2 0.3 0.0 0.3 Finished services less distributive services 6. 04/10 36.906 116.1 117.0 117.3 2.1 0.3 0.3 0.0 0.3 Finished goods plus finished distributive services 6. 04/10 41.769 114.8 116.2 116.5 2.5 0.3 0.2 0.1 0.0 Finished goods plus finished distributive services 6. 04/10 41.769 114.8 116.2 116.5 2.5 0.3 0.2 0.2 0.3 0.2 Goods for export. 04/10 41.898 120.0 121.6 122.5 3.8 0.7 0.0 0.4 0.7 Foral exports. 04/10 43.898 120.0 121.6 122.5 3.8 0.7 0.0 0.4 0.7 Foral exports. 04/10 43.898 120.0 121.6 122.5 3.8 0.7 0.0 0.4 0.7 Foral exports. 04/10 43.898 120.0 121.6 122.5 3.8 0.7 0.0 0.4 0.7 Foral exports. 04/10 43.891 110.0 111.0 13.3 0.9 0.1 0.2 0.2 0.3 Government purchased goods. 04/10 43.891 114.0 114.0 115.0 2.3 0.3 0.2 0.2 0.4 Government purchased services. 04/10 43.891 113.7 114.6 115.0 2.3 0.3 0.2 0.2 0.4 Foresonal consumption goods (finished consumer goods). 06/82 11.882 223.3 22.2 0.1 0.0 0.1 Personal consumption goods less foods. 06/82 11.892 11.81 11.72 11.73 11.72 11.73 12.4 0.1 0.0 0.3 Personal consumption nondurable goods less foods. 06/82 11.919 11.172 11.173 11.0 11.0	Total finished less energy ⁴	01/10	75.557	117.4	118.3	118.4	2.4	0.1	0.0	0.3	0.0
Finished goods, excluding foods ^{4, 6} . O0/82 17.072 199.1 202.8 205.1 2.0 1.1 0.4 1.5 0.6 Finished services ⁴ . O0/10 7.256 118.1 119.1 119.5 2.7 0.3 0.0 0.3 0.3 Finished services ersces ^{4, 7} . O0/10 20.048 116.7 118.2 117.7 3.0 0.4 0.5 0.9 0.5 Finished distributive services ^{4, 7} . O0/10 30.9283 116.5 117.3 117.5 2.2 0.2 0.3 0.0 0.3 0.0 Finished services less trade services ^{4, 7} . O0/10 30.9283 116.5 117.3 117.5 2.2 0.2 0.3 0.0 0.3 0.0 Finished services less distributive services ^{4, 7} . O0/10 30.9283 116.5 117.3 117.5 2.2 0.2 0.3 0.0 0.3 Finished services less distributive services ^{4, 7} . O0/10 30.9283 116.5 117.3 117.5 2.2 0.2 0.3 0.0 0.3 Finished services less distributive services ^{4, 7} . O0/10 41.769 114.8 116.5 117.0 2.9 0.4 0.0 0.1 0.4 Finished goods plus finished distributive services ⁴ . O0/10 41.769 114.8 116.5 116.5 2.5 0.3 0.2 0.1 0.0 Foreign for export. O0/10 41.769 114.8 116.2 116.5 2.5 0.3 0.2 0.1 0.0 Foreign for export. O0/10 4.389 120.0 121.6 122.5 3.8 0.7 0.0 0.4 0.7 Foreign for export. O0/10 4.389 120.0 121.6 122.5 3.8 0.7 0.0 0.4 0.7 Foreign for export. O0/10 4.389 120.0 121.6 122.5 3.8 0.7 0.0 0.4 0.7 Foreign for export. O1/10 4.389 120.0 121.6 122.5 3.8 0.7 0.0 0.4 0.7 Foreign for export. O1/10 4.389 120.0 121.6 122.5 3.8 0.7 0.0 0.4 0.7 Foreign for export. O1/10 4.389 120.0 121.6 122.5 3.8 0.7 0.0 0.0 0.4 Foreign for export. O1/10 4.389 120.0 121.4 112.7 113.3 2.5 0.5 0.4 0.6 0.4 Foreign for export. O1/10 4.389 120.0 121.4 112.7 113.3 2.5 0.5 0.4 0.6 0.4 Foreign for export. O1/10 4.389 120.0 121.4 112.7 113.3 2.5 0.5 0.5 0.4 0.0 Foreign for export. O1/10 4.189 111.4 112.7 113.3	Finished goods ⁴	00/82	21.721	202.5	205.0	206.8	2.0	0.9	0.2	1.4	0.4
Finished services 4	Finished goods less energy ⁴	00/82	17.463	207.3	207.9	207.8	2.3	0.0	0.0	0.3	0.0
Private capital investment services.	Finished goods, excluding foods ^{4, 6}	00/82	17.072	199.1	202.8	205.1	2.0	1.1	0.4	1.5	0.6
Finished distributive services 4.7. Finished services less trade services 4.7. O4/10 39.283 116.5 117.3 117.5 2.2 0.2 0.3 0.1 0.3 Finished services less tratule services 4.7. O4/10 39.283 116.5 117.3 117.5 2.2 0.2 0.2 0.3 0.1 0.3 Total private capital investment (goods, services, and construction). O4/10 41.769 114.8 116.2 116.5 2.5 0.3 0.2 0.1 0.4 Finished goods plus finished distributive services 4. 04/10 41.769 114.8 116.2 116.5 2.5 0.3 0.2 0.2 1.1 0.0 Goods for export. O4/10 12.48 113.2 113.8 114.0 1.4 0.2 0.2 0.3 0.2 Goods for export. O4/10 12.48 113.2 113.8 114.0 1.4 0.2 0.2 0.3 0.2 Goods for export. O4/10 12.48 113.2 113.8 114.0 1.4 0.2 0.2 0.3 0.2 Goods for export. O4/10 4.389 120.0 121.6 122.5 3.8 0.7 0.0 0.4 0.7 Total government purchased goods. O4/10 8.374 184.0 186.8 187.9 2.3 0.6 1.1 1.2 0.5 Government purchased services. O4/10 4.129 113.7 114.6 115.0 2.3 0.3 0.2 0.2 0.2 O4/10 14.129 113.7 114.6 115.0 2.3 0.3 0.2 0.2 0.2 O4/10 14.129 113.7 114.6 115.0 2.3 0.3 0.3 0.2 0.2 O5/10 14.10	Finished services ⁴	01/10	56.954	116.7	117.8	117.8	2.3	0.0	0.0	0.3	0.0
Finished services less trade services ⁴ . 04/10 39.283 116.5 117.3 117.5 2.2 0.2 0.3 -0.1 0.3 Finished services less distributive services ^{4,7} . 04/10 36.906 116.1 117.0 117.3 2.1 0.3 0.3 0.0 0.3 0.0 0.3 104 0.0 0.1 0.4 0.1 0.1 0.4 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	Private capital investment services	04/10	7.256	118.1	119.1	119.5	2.7	0.3	0.0	0.3	0.3
Finished services less distributive services. 7 Total private capital investment (goods, services, and construction). 04/10 14.277 115.7 116.5 117.0 2.9 0.4 0.0 0.1 0.4 Finished goods plus finished distributive services. 4 04/10 14.769 114.8 116.2 116.5 2.5 0.3 0.2 0.2 1.1 0.0 0.5 Total exports. 04/10 12.134 113.2 113.8 114.0 1.4 0.2 0.2 0.3 0.2 Goods for export. 06/82 7.745 190.1 190.1 189.8 0.1 0.2 0.3 0.2 0.2 Services for export. 06/82 7.745 190.1 190.1 189.8 0.1 0.2 0.3 0.2 0.2 0.3 0.2 Total exports. 04/10 4.389 120.0 12.16 122.5 3.8 0.7 0.0 0.4 0.7 Total exportment purchases. 04/10 4.389 120.0 12.16 122.5 3.8 0.7 0.0 0.4 0.7 Total government purchased goods. 06/82 3.374 184.0 186.8 187.9 2.3 0.6 1.1 1.2 0.5 Government purchased services. 04/10 4.129 113.7 114.6 115.0 2.3 0.3 0.2 0.2 0.2 0.2 0.4 Total government purchased capital investment (goods, services, construction). 08/13 1.855 108.9 110.0 111.0 3.3 0.9 0.1 0.2 0.9 Personal consumption goods (finished consumer goods). 00/82 11.582 223.3 223.5 223.3 2.2 0.1 0.0 0.4 0.0 0.9 Personal consumption goods less energy. 00/82 11.582 223.3 223.5 223.3 2.2 0.1 0.0 0.4 0.0 0.9 Personal consumption goods less foods. 00/82 11.191 212.1 217.5 221.2 1.8 1.7 0.6 2.3 0.9 Personal consumption less foods and energy. 04/10 49.698 116.1 117.2 117.1 2.4 0.1 0.0 0.3 0.6 0.3 0.9 Personal consumption less foods and energy. 04/10 49.698 116.1 117.2 117.1 2.4 0.1 0.0 0.3 0.6 0.3 0.9 Personal consumption less foods and energy. 04/10 49.698 115.5 116.6 117.2 2.0 0.5 0.3 0.6 0.3 0.6 0.3 0.9 Personal consumption less foods, energy, and trade services. 04/10 49.698 115.5 116.6 117.2 2.0 0.5 0.3 0.6 0.3 0.6 0.3 0.9 Personal consumption less foods, energy, and trade services. 04/10 49.698 115.5 116.6 117.2 2.0 0.5 0.3 0.6 0.3	Finished distributive services ^{4, 7}	04/10	20.048	116.7	118.2	117.7	3.0	-0.4	-0.5	0.9	-0.5
Total private capital investment (goods, services, and construction). O4/10 14.277 115.7 116.5 117.0 2.9 0.4 0.0 0.1 0.4 10.1 11.0	Finished services less trade services ⁴	04/10	39.283	116.5	117.3	117.5	2.2	0.2	0.3	-0.1	0.3
Finished goods plus finished distributive services ⁴ . 04/10 41.769 114.8 116.2 116.5 2.5 0.3 -0.2 1.1 0.0 Total exports. 04/10 12.134 113.2 113.8 114.0 1.4 0.2 0.2 0.3 0.2 Goods for export. 00/82 7.745 190.1 190.1 189.8 0.1 -0.2 0.3 0.2 -0.2 0.3 0.2 Services for export. 04/10 4.389 120.0 121.6 122.5 3.8 0.7 0.0 0.4 0.6 0.4 0.7 Total government purchases. 04/10 8.052 111.4 112.7 113.3 2.5 0.5 0.5 0.4 0.6 0.4 Government purchased services. 04/10 4.129 113.7 114.6 115.0 2.3 0.3 -0.2 0.2 0.2 0.4 0.5 Government purchased services. 04/10 4.129 113.7 114.6 115.0 2.3 0.3 -0.2 0.2 0.4 0.5 Government purchased capital investment (goods, services, construction). 08/13 1.855 108.9 110.0 111.0 3.3 0.9 0.1 0.2 0.9 Personal consumption goods (finished consumer goods). 01/10 65.538 116.2 117.4 117.7 2.2 0.3 0.1 0.7 0.1 0.7 0.1 0.7 0.1 0.7 0.1 0.7 0.1 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8 0.8	Finished services less distributive services ^{4, 7}	04/10	36.906	116.1	117.0	117.3	2.1	0.3	0.3	0.0	0.3
Total exports	Total private capital investment (goods, services, and construction)	04/10	14.277	115.7	116.5	117.0	2.9	0.4	0.0	0.1	0.4
Goods for export	Finished goods plus finished distributive services ⁴	04/10	41.769	114.8	116.2	116.5	2.5	0.3	-0.2	1.1	0.0
Services for export.	Total exports	04/10	12.134	113.2	113.8	114.0	1.4	0.2	0.2	0.3	0.2
Total government purchases	Goods for export	00/82	7.745	190.1	190.1	189.8	0.1	-0.2	0.3	0.2	-0.2
Government purchased goods	Services for export	04/10	4.389	120.0	121.6	122.5	3.8	0.7	0.0	0.4	0.7
Government purchased services O4/10 A.129 113.7 114.6 115.0 2.3 O.3 -0.2 O.2 O.4	Total government purchases	04/10	8.052	111.4	112.7	113.3	2.5	0.5	0.4	0.6	0.4
Total government purchased capital investment (goods, services, construction) 08/13 1.855 108.9 110.0 111.0 3.3 0.9 0.1 0.2 0.9 Personal consumption 01/10 65.538 116.2 117.4 117.7 2.2 0.3 0.1 0.7 0.1 Personal consumption goods (finished consumer goods) 00/82 15.840 213.5 216.7 219.2 1.8 1.2 0.3 1.9 0.5 Personal consumption goods less energy 00/82 11.582 223.3 223.5 223.3 22.2 -0.1 0.0 0.4 0.0 Personal consumption goods less foods 00/82 11.191 212.1 217.5 221.2 1.8 1.7 0.6 2.3 0.9 Personal consumption nondurable goods less foods 00/82 8.508 234.0 241.7 247.1 1.9 2.2 0.7 3.1 1.1 Personal consumption less trade services 04/10 49.698 116.1 117.2 117.1 2.4 -0.1 0.0 0.3 -0.1 Personal consumption less distributive services ⁷ 04/10 49.238 115.2 116.4 117.0 119.0 1.9 0.5 0.3 0.6 0.3 Personal consumption less foods, energy, and distributive services ⁵ 04/14 40.331 109.0 109.9 110.1 111.0 3.3 0.9 0.1 0.2 0.3 0.1 0.7 0.1 0.0 0.3 0.1 0.4 0.0 0.4 0.0 0.0 0.0 0.0	Government purchased goods	00/82	3.374	184.0	186.8	187.9	2.3	0.6	1.1	1.2	0.5
construction) 08/13 1.855 108.9 110.0 111.0 3.3 0.9 0.1 0.2 0.9 Personal consumption 01/10 65.538 116.2 117.4 117.7 2.2 0.3 0.1 0.7 0.1 Personal consumption goods (finished consumer goods). 00/82 15.840 213.5 216.7 219.2 1.8 1.2 0.3 1.9 0.5 Personal consumption goods less energy. 00/82 11.582 223.3 223.5 223.3 2.2 -0.1 0.0 0.4 0.0 Personal consumption goods less foods. 00/82 11.582 223.3 223.5 223.3 2.2 -0.1 0.0 0.4 0.0 Personal consumption nondurable goods less foods. 00/82 8.508 234.0 241.7 247.1 1.9 2.2 0.7 3.1 1.1 Personal consumption less trade services. 04/10 49.698 116.1 117.2 117.1 2.4 -0.1 0.0 0.3 <	Government purchased services	04/10	4.129	113.7	114.6	115.0	2.3	0.3	-0.2	0.2	0.4
Personal consumption O1/10 65.538 116.2 117.4 117.7 2.2 0.3 0.1 0.7 0.1											
Personal consumption goods (finished consumer goods). 00/82 15.840 213.5 216.7 219.2 1.8 1.2 0.3 1.9 0.5 Personal consumption goods less energy. 00/82 11.582 223.3 223.5 223.3 2.2 -0.1 0.0 0.4 0.0 Personal consumption goods less foods. 00/82 11.191 212.1 217.5 221.2 1.8 1.7 0.6 2.3 0.9 Personal consumption nondurable goods less foods. 00/82 8.508 234.0 241.7 247.1 1.9 2.2 0.7 3.1 1.1 Personal consumption services. 04/10 49.698 116.1 117.2 117.1 2.4 -0.1 0.0 0.3 -0.1 Personal consumption less trade services. 04/10 51.098 115.5 116.6 117.2 2.0 0.5 0.3 0.6 0.3 Personal consumption less distributive services. 04/10 49.238 115.2 116.4 117.0 1.9 0.5 <td< td=""><td>construction)</td><td>1</td><td>I</td><td></td><td>110.0</td><td>111.0</td><td>1</td><td>0.9</td><td>0.1</td><td></td><td></td></td<>	construction)	1	I		110.0	111.0	1	0.9	0.1		
Personal consumption goods less energy. 00/82 11.582 223.3 223.5 223.3 2.2 -0.1 0.0 0.4 0.0 Personal consumption goods less foods. 00/82 11.191 212.1 217.5 221.2 1.8 1.7 0.6 2.3 0.9 Personal consumption nondurable goods less foods. 00/82 8.508 234.0 241.7 247.1 1.9 2.2 0.7 3.1 1.1 Personal consumption services. 04/10 49.698 116.1 117.2 117.1 2.4 -0.1 0.0 0.3 -0.1 Personal consumption less trade services. 04/10 51.098 115.5 116.6 117.2 2.0 0.5 0.3 0.6 0.3 Personal consumption less distributive services. 04/10 49.298 115.2 116.4 117.0 1.9 0.5 0.3 0.6 0.3 Personal consumption less foods and energy. 04/14 42.191 108.9 109.8 109.9 2.2 0.1 0.4 0.0 0.3 Personal consumption less foods, energy, and trade services. 04/14 40.331 109.0 109.9 110.1 2.1 0.2 0.4 0.0 0.4 0.0 Personal consumption less foods, energy, and distributive services. 04/14 40.331 109.0 109.9 110.1 2.1 0.2 0.4 0.0 0.4 0.0 0.4 Personal consumption goods plus personal consumption distributive	·	1	I								
Personal consumption goods less foods. 00/82 11.191 212.1 217.5 221.2 1.8 1.7 0.6 2.3 0.9 Personal consumption nondurable goods less foods. 00/82 8.508 234.0 241.7 247.1 1.9 2.2 0.7 3.1 1.1 Personal consumption services. 04/10 49.698 116.1 117.2 117.1 2.4 -0.1 0.0 0.3 -0.1 Personal consumption less trade services. 04/10 51.098 115.5 116.6 117.2 2.0 0.5 0.3 0.6 0.3 Personal consumption less distributive services ⁷ . 04/10 49.238 115.2 116.4 117.0 1.9 0.5 0.3 0.6 0.3 Personal consumption less foods and energy. 04/14 42.191 108.6 109.6 109.6 2.3 0.0 0.0 0.4 0.0 Personal consumption less foods, energy, and distributive services ⁵ . 04/14 42.191 108.9 109.8 109.9 2.2 <	1 0 (1	I				1				
Personal consumption nondurable goods less foods. 00/82 8.508 234.0 241.7 247.1 1.9 2.2 0.7 3.1 1.1 Personal consumption services. 04/10 49.698 116.1 117.2 117.1 2.4 -0.1 0.0 0.3 -0.1 Personal consumption less trade services. 04/10 51.098 115.5 116.6 117.2 2.0 0.5 0.3 0.6 0.3 Personal consumption less distributive services ⁷ . 04/10 49.238 115.2 116.4 117.0 1.9 0.5 0.3 0.6 0.3 Personal consumption less foods and energy. 04/14 56.631 108.6 109.6 2.3 0.0 0.0 0.4 0.0 Personal consumption less foods, energy, and trade services ⁵ . 04/14 42.191 108.9 109.8 109.9 2.2 0.1 0.4 0.0 0.3 Personal consumption less foods, energy, and distributive services ⁷ . 04/14 40.331 109.9 110.1 2.1 0.2 <		1	I				1				
Personal consumption services. 04/10 49.698 116.1 117.2 117.1 2.4 -0.1 0.0 0.3 -0.1 Personal consumption less trade services. 04/10 51.098 115.5 116.6 117.2 2.0 0.5 0.3 0.6 0.3 Personal consumption less distributive services ⁷ . 04/10 49.238 115.2 116.4 117.0 1.9 0.5 0.3 0.6 0.3 Personal consumption less foods and energy. 04/14 56.631 108.6 109.6 109.6 2.3 0.0 0.0 0.4 0.0 Personal consumption less foods, energy, and trade services ⁵ . 04/14 42.191 108.9 109.8 109.9 2.2 0.1 0.4 0.0 0.3 Personal consumption less foods, energy, and distributive services ⁷ . 04/14 40.331 109.0 109.9 110.1 2.1 0.2 0.4 0.0 0.4 Personal consumption goods plus personal consumption distributive 40.04 40.04 40.0 40.0 40		1	I				1				
Personal consumption less trade services. 04/10 51.098 115.5 116.6 117.2 2.0 0.5 0.3 0.6 0.3 Personal consumption less distributive services ⁷ . 04/10 49.238 115.2 116.4 117.0 1.9 0.5 0.3 0.6 0.3 Personal consumption less foods and energy. 04/14 56.631 108.6 109.6 109.6 2.3 0.0 0.0 0.4 0.0 Personal consumption less foods, energy, and distributive services ⁷ . 04/14 42.191 108.9 109.8 109.9 2.2 0.1 0.4 0.0 0.3 Personal consumption less foods, energy, and distributive services ⁷ . 04/14 40.331 109.0 109.9 110.1 2.1 0.2 0.4 0.0 0.4 Personal consumption goods plus personal consumption distributive 40.04 40.331 109.0 109.9 110.1 2.1 0.2 0.4 0.0 0.4	· ·		I								
Personal consumption less distributive services ⁷ . 04/10 49.238 115.2 116.4 117.0 1.9 0.5 0.3 0.6 0.3 Personal consumption less foods and energy. 04/14 56.631 108.6 109.6 109.6 2.3 0.0 0.0 0.4 0.0 Personal consumption less foods, energy, and trade services ⁵ . 04/14 42.191 108.9 109.8 109.9 2.2 0.1 0.4 0.0 0.3 Personal consumption less foods, energy, and distributive services ⁷ . 04/14 40.331 109.0 109.9 110.1 2.1 0.2 0.4 0.0 0.4 Personal consumption goods plus personal consumption distributive 40.331 109.0 109.9 110.1 2.1 0.2 0.4 0.0 0.4		1	I						l .		
Personal consumption less foods and energy	· _	1	I				1				
Personal consumption less foods, energy, and trade services ⁵	·	1	I								
Personal consumption less foods, energy, and distributive services ⁷ 04/14 40.331 109.0 109.9 110.1 2.1 0.2 0.4 0.0 0.4 Personal consumption goods plus personal consumption distributive		1	I								
Personal consumption goods plus personal consumption distributive	_	1	I				1				
	, 0,,	04/14	40.331	109.0	109.9	110.1	2.1	0.2	0.4	0.0	0.4
services:		00/40	00.110	1010	100 1	100.1	0.4	0.0		4.5	0.0
	services'	08/13	32.140	104.6	106.1	106.4	2.4	0.3	-0.3	1.5	-0.2

¹ Further information about the Final Demand-Intermediate Demand Aggregation system is available online at https://www.bls.gov/ppi/fdidaggregation.htm.

² 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.

³ The indexes for December 2018 have been recalculated to incorporate late reports and corrections by respondents. All indexes are subject to revision 4 months after original publication.

⁴ PPI defines Total finished as including only the personal consumption and private capital investment portions of final demand.

⁵ 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.

 $^{^{\}rm 7}$ Distributive services include transportation, warehousing, and trade of goods.

[&]quot;-" Data not available.

Table 2. Producer price indexes and percent changes for intermediate demand by commodity type¹ [Nov. 2009=100, unless otherwise indicated]

Grouping	Other index	Relative Impor- tance	Un	adjusted in	dex	change	ed percent e to Apr. from:		onally adj nt change	
	base	Dec. 2018 ²	Dec. 2018 ³	Mar. 2019 ³	Apr. 2019 ³	Apr. 2018	Mar. 2019	Jan. to Feb.	Feb. to Mar.	Mar. to Apr.
Processed goods							•			
Processed goods for intermediate demand	00/82	100.000	199.4	199.8	199.9	0.7	0.1	0.4	0.8	-0.1
Materials and components for manufacturing	00/82	45.595	187.5	186.6	185.7	-0.2	-0.5	0.0	-0.1	-0.5
Materials for manufacturing		28.196	114.8	113.6	112.7	-1.2	-0.8	-0.1	-0.2	-0.9
Materials for food manufacturing	00/82	3.924	193.9	194.2	196.2	-0.5	1.0	0.4	-0.3	0.9
Materials for nondurable manufacturing	1	13.144	221.7	217.9	214.9	-3.7	-1.4	0.6	-0.5	-1.5
Materials for durable manufacturing	00/82	11.128	209.3	207.9	206.4	1.7	-0.7	-0.9	0.2	-0.8
Components for manufacturing.	00/82	17.399	154.9	155.4	155.5	1.6	0.1	0.2	0.1	0.1
Components for nondurable manufacturing.		0.738	115.4	115.2	114.7	0.6	-0.4	-0.3	0.1	-0.4
Components for durable manufacturing Materials and components for construction	00/82	16.661 8.972	109.6 249.7	110.0 251.8	110.1 251.9	1.7 2.6	0.1 0.0	0.2	0.1 0.1	0.0 -0.1
Materials for construction.	00/02	3.933	124.3	125.1	125.6	1.3	0.4	-0.1	0.0	0.2
Components for construction.		5.039	122.6	123.8	123.5	3.7	-0.2	0.2	0.2	-0.3
Processed fuels and lubricants for intermediate demand	00/82	18.850	180.2	181.8	184.2	0.8	1.3	1.6	4.3	0.7
Processed fuels and lubricants to manufacturing industries	00/82	4.716	193.4	193.3	192.6	0.5	-0.4	-0.1	2.1	0.2
Processed fuels and lubricants to nonmanufacturing industries	00/82	14.134	176.2	178.3	181.7	0.9	1.9	2.2	5.0	8.0
Containers for intermediate demand	00/82	2.932	236.1	237.8	237.3	2.6	-0.2	0.2	0.3	-0.2
Supplies for intermediate demand	00/82	23.652	199.5	201.0	201.1	1.3	0.0	0.2	0.0	0.0
"	00/82	2.912	201.0	202.2	201.7	2.4	-0.2	0.0	0.0	-0.2
Supplies to nonmanufacturing industries	00/82	20.740	197.8	199.3	199.5	1.1	0.1	0.3	-0.1	0.1
Supplies to nonmanufacturing industries, feeds	I	1.648	177.6	177.9	177.3	-7.6	-0.3	-1.7	-1.0	-1.0
Supplies to nonmanufacturing industries, other than feeds	00/82	19.092	201.4	203.0	203.3	2.0	0.1	0.4	0.0	0.1
Unprocessed goods										
Unprocessed goods for intermediate demand	00/82	100.000	202.0	191.3	196.0	-2.0	2.5	-4.6	2.3	2.7
Unprocessed foodstuffs and feedstuffs	00/82	32.770	161.9	162.1	167.0	-0.9	3.0	-1.0	-2.3	3.7
•	00/82	67.230	221.7	203.5	207.8	-2.6	2.1	-6.9	5.2	2.1
Unprocessed nonfood materials except fuel	00/82	37.923	233.7	249.8	264.2	-2.9	5.8	0.8	7.2	5.7
Unprocessed nonfood materials except fuel to manufacturing industries	00/82	36.277	215.4	230.8	244.6	-3.2	6.0	0.8	7.6	5.9
Unprocessed nonfood materials except fuel to nonmanufacturing	00/82	1.646	261.0	266.3	267.1	3.5	0.3	-0.4	0.0	0.2
industries	1	29.307	184.4	127.9	119.9	-1.6	-6.3	-20.0	0.0	-6.1
Unprocessed fuel to manufacturing industries.	1	0.861	212.0	170.9	164.8	0.1	-3.6	-12.6	0.7	-3.4
·	00/82	28.446	187.0	129.0	120.9	-1.6	-6.3	-20.2	0.8	-6.2
Services										
		100,000	110.7	100.0	101.0	0.0	0.4	0.1	0.4	0.2
Services for intermediate demand		100.000	119.7	120.8 123.4	121.3 124.4	2.8	0.4 0.8	-0.1 -0.1	0.4 0.8	0.3 0.7
Trade services for manufacturing industries.	12/12	18.558 9.070	122.1 109.9	111.5	112.4	4.3 4.7	0.8	0.3	0.6	0.7
Trade services for manufacturing industries.	1	9.488	110.2	111.0	111.8	3.8	0.7	-0.5	0.7	0.7
Transportation and warehousing services for intermediate demand	12/12	12.130	126.8	128.0	128.6	3.1	0.5	-0.1	-0.2	0.6
Transportation of passengers for intermediate demand		1.162	118.8	117.2	120.5	3.1	2.8	-4.1	-1.5	3.5
Transportation of passengers for manufacturing industries		0.193	118.7	117.0	120.4	3.1	2.9	-4.2	-1.5	3.5
Transportation of passengers for nonmanufacturing industries		0.969	118.8	117.2	120.5	3.1	2.8	-4.1	-1.5	3.5
Transportation and warehousing of goods for intermediate demand		10.968	127.5	129.0	129.3	3.1	0.2	0.3	0.0	0.3
Transportation and warehousing of goods for manufacturing industries	12/12	1.690	107.9	107.6	107.9	3.8	0.3	-0.2	-0.2	0.3
Transportation and warehousing of goods for nonmanufacturing	10/10	0.070	110.5	115.0	445.4	0.0	0.0	0.0	0.1	0.0
industries	12/12	9.278	113.5	115.2	115.4	3.0	0.2	0.3	0.1	0.3
Services less trade, transportation, and warehousing for intermediate demand		69.313	117.8	118.8	119.2	2.4	0.3	0.0	0.3	0.3
Services less trade, transportation, and warehousing for manufacturing		0.010	100 F	100.0	100.7	0.0	0.4	0.0	0.0	0.4
industries		2.318	108.5	109.3	109.7	2.2	0.4	0.0	0.0	0.4
industries		66.995	118.1	119.1	119.5	2.4	0.3	0.0	0.3	0.3
Construction										
Construction for intermediate demand		100.000	117.4	118.0	119.0	2.9	0.8	-0.1	0.3	0.8
Special groupings										
Processed materials less foods and feeds	00/82	91.654	200.4	200.8	200.8	0.9	0.0	0.4	0.9	-0.2
Processed foods and feeds.	I	8.346	189.4	190.3	191.8	-1.4	0.8	-0.1	-0.3	0.6
	I	18.850	181.0	182.6	185.1	0.8	1.4	1.6	4.3	0.6
0, 0	1	81.150	201.6	201.7	201.2	0.7	-0.2	0.1	0.0	-0.3
	I	72.804	202.7	202.7	202.0	0.9	-0.3	0.1	0.0	-0.4
Processed materials less foods and energy	00/82	72.00								
Processed materials less foods and energy. Intermediate distributive services ⁵ .	00/82	29.526	121.7	123.1	123.8	3.9	0.6	0.1	0.5	0.6
Processed materials less foods and energy	1	1 1					0.6 0.3 2.1	1	0.5 0.7 5.5	0.6 0.1 2.0

Table 2. Producer price indexes and percent changes for intermediate demand by commodity type¹ — Continued

[Nov. 2009=100, unless otherwise indicated]

Grouping Second analysis materials 6	Other index	Relative Impor- tance	Un	adjusted ind	dex	change	ed percent to Apr. from:	Seas	onally ad	
	base	Dec. 2018 ²	Dec. 2018 ³	Mar. 2019 ³	Apr. 2019 ³	Apr. 2018	Mar. 2019	Jan. to Feb.	Feb. to Mar.	Mar. to Apr.
Unprocessed energy materials ⁶	00/82	46.759	176.0	153.6	159.3	-1.4	3.7	-10.7	7.3	3.7
Unprocessed materials less energy	00/82	53.241	206.6	206.3	209.4	-2.2	1.5	-0.9	-1.0	1.9
Unprocessed nonfood materials less energy ⁷	00/82	20.471	339.2	337.3	333.7	-4.5	-1.1	-0.7	1.2	-1.2

¹ Further information about the Final Demand-Intermediate Demand Aggregation system is available online at https://www.bls.gov/ppi/fdidaggregation.htm

² 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.

³ The indexes for December 2018 have been recalculated to incorporate late reports and corrections by respondents. All indexes are subject to revision 4 months after original publication.

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

⁵ Includes intermediate trade, transportation, and warehousing services.

⁶ Includes crude petroleum.

⁷ Excludes crude petroleum.

[&]quot;-" Data not available.

Table 3. Producer price indexes and percent changes for intermediate demand by production flow¹ [Nov. 2009=100, unless otherwise indicated]

Grouping	Other	Relative Impor- tance	Un	adjusted ind	dex	change to	ed percent Apr. 2019 om:		onally adj nt change	
	base	Dec. 2018 ²	Dec. 2018 ³	Mar. 2019 ³	Apr. 2019 ³	Apr. 2018	Mar. 2019	Jan. to Feb.	Feb. to Mar.	Mar. to Apr.
Stage 4										
Stage 4 intermediate demand		100.000	117.6	118.5	119.1	2.5	0.5	0.2	0.5	0.3
Inputs to stage 4 goods producers		30.587	114.5	114.9	115.1	2.0	0.2	0.1	0.1	0.2
Goods		22.944	112.9	112.7	112.7	1.1	0.0	0.0	-0.1	0.0
Foods		2.731	114.0	110.7	111.0	-2.1	0.3	-0.4	-1.2	0.0
Energy.	1	1.115	113.3	113.7	112.7	0.6	-0.9	0.1	1.1	-0.1
Goods excluding foods and energy.	1	19.098 7.643	112.5	112.7 122.2	112.7 122.8	1.5 4.9	0.0 0.5	0.1 0.4	0.0 0.7	0.0
ServicesTrade services	1	6.087	119.7 122.8	125.6	126.4	5.4	0.5	0.4	1.0	0.6 0.6
Transportation and warehousing services	1	0.234	122.7	121.9	123.1	4.1	1.0	-1.6	-1.0	1.2
Transportation of passengers	1	0.085	118.7	117.0	120.4	3.1	2.9	-4.2	-1.5	3.5
Transportation and warehousing of goods	1	0.149	124.7	124.4	124.2	4.5	-0.2	-0.1	-0.6	-0.2
Services less trade, transportation, and warehousing		1.322	108.9	110.5	110.6	2.5	0.1	0.3	0.0	0.1
Inputs to stage 4 services producers		50.069	119.0	120.1	120.8	2.5	0.6	0.1	0.4	0.5
Goods	1	13.148	114.3	115.9	116.4	1.7	0.4	0.5	0.5	0.4
Foods		2.730	115.5	118.2	120.0	1.0	1.5	0.4	0.3	1.4
Energy	1	2.238	105.6	108.3	108.7	0.8	0.4	2.0	2.1	0.6
Goods excluding foods and energy Services	1	8.180 36.773	118.9 120.5	119.9 121.5	120.0 122.2	2.1 2.9	0.1 0.6	0.2 0.0	0.0 0.4	0.1 0.5
Trade services.	1	4.114	117.0	121.5	122.2	5.2	0.6	0.6	1.2	0.0
Transportation and warehousing services	1	2.303	122.8	123.4	124.2	3.1	0.6	-0.6	-0.4	0.7
Transportation of passengers	1	0.361	118.5	116.9	120.2	3.0	2.8	-4.1	-1.6	3.6
Transportation and warehousing of goods	1	1.942	123.7	124.8	125.0	3.1	0.2	0.1	-0.2	0.3
Services less trade, transportation, and warehousing	1	30.356	120.5	121.1	121.9	2.5	0.7	-0.1	0.3	0.6
Construction		0.148	117.4	118.0	119.0	2.9	0.8	-0.1	0.3	0.8
Inputs to stage 4 construction producers		19.343	118.8	120.1	120.8	2.8	0.6	0.3	1.1	0.3
Goods		13.276	119.1	121.0	121.5	2.8	0.4	0.6	1.6	0.0
Energy	1	1.659	94.2	100.8	104.1	4.3	3.3	4.9	12.2	0.7
Goods excluding foods and energy	1	11.617	123.5	124.5	124.5	2.6	0.0	0.0	0.2	-0.1
Services.	1	6.067	118.1	117.9	119.1	2.8	1.0	-0.6	0.1	1.0
Trade services Transportation and warehousing services	1	3.226 0.838	118.8 124.1	118.0 123.6	119.7 123.6	2.5 4.3	1.4 0.0	-1.0 -0.3	0.3 -0.6	1.4 0.0
Transportation of passengers.	1	0.030	119.2	117.8	120.8	3.1	2.5	-3.6	-1.3	3.1
Transportation and warehousing of goods	1	0.797	124.3	123.9	123.7	4.4	-0.2	-0.2	-0.6	-0.2
Services less trade, transportation, and warehousing	1	2.003	116.4	117.3	118.2	2.8	0.8	-0.1	0.0	0.9
Stage 3										
Stage 3 intermediate demand		100.000	115.8	117.1	118.3	1.9	1.0	0.2	0.8	0.9
Inputs to stage 3 goods producers		48.012	118.5	119.1	120.1	1.5	8.0	-0.2	-0.1	1.0
Goods		38.164	116.4	116.7	117.8	0.8	0.9	-0.3	-0.2	1.0
Foods	1	10.636	119.9	122.2	127.3	1.0	4.2	-1.2	-1.4	5.2
Energy	1	2.018	102.6	103.5	105.6	4.9	2.0	-0.9	3.1	1.7
Goods excluding foods and energy	1	25.510	118.2	117.7	116.9	0.4	-0.7	0.2	0.0	-0.7
Services		9.783 7.994	119.4 118.9	120.7 120.5	121.4 121.3	4.1 4.6	0.6 0.7	0.1 0.2	0.6 0.7	0.5 0.5
Trade services		0.631	124.4	120.5	121.3	3.6	1.0	-0.4	0.7	1.1
Transportation of passengers	1	0.031	120.2	118.9	121.7	3.0	2.4	-3.4	-1.2	3.0
Transportation and warehousing of goods		0.600	124.5	124.1	125.2	3.7	0.9	-0.2	0.2	0.9
Services less trade, transportation, and warehousing	1	1.158	112.8	112.4	112.6	1.6	0.2	-0.5	-0.1	0.4
Construction		0.065	117.4	118.0	119.0	2.9	0.8	-0.1	0.3	0.8
Inputs to stage 3 services producers		49.863	113.9	115.9	117.3	2.2	1.2	0.4	1.5	0.6
Goods	1	10.360	95.5	100.3	105.0	1.2	4.7	2.8	5.8	2.2
Foods	1	0.003	125.4	127.7	129.0	1.6	1.0	1.4	1.4	1.2
Energy	1	6.993	88.7	95.2	101.8	1.3	6.9	3.7	8.6	3.2
Goods excluding foods and energy	1	3.364 38.440	109.8 119.2	110.1 120.3	110.1 120.5	1.0 2.5	0.0 0.2	0.9 -0.2	0.2 0.3	-0.1 0.2
ServicesTrade services	1	3.387	136.0	136.2	137.2	4.1	0.2	-0.2	1.2	0.2
Transportation and warehousing services	1	8.310	130.8	133.3	133.6	2.6	0.2	0.4	0.2	0.5
Transportation of passengers	1	0.034	119.4	118.0	121.0	3.1	2.5	-3.7	-1.4	3.2
Transportation and warehousing of goods	1	8.276	131.1	133.5	133.9	2.7	0.3	0.5	0.2	0.5
Services less trade, transportation, and warehousing	1	26.743	116.0	116.9	117.1	2.3	0.2	-0.3	0.2	0.1
Construction.	1	1.063	117.4	118.0	119.0	2.9	0.8	-0.1	0.3	8.0
Inputs to stage 3 construction producers	1	2.124	112.5	115.9	115.8	3.1	-0.1	2.9	6.3	-0.6
Goods	1	1.686	105.4	109.5	109.0	3.2	-0.5	4.0	7.8	-1.1
Energy	1	1.040	92.9	98.4	97.8	4.2	-0.6	6.9	12.8	-1.6
Goods excluding foods and energy	1	0.646	126.2	127.2	127.1	1.8	-0.1	-0.1	0.1	-0.1
Services	1	0.438	125.2	124.6	126.1	2.5	1.2	-1.2	0.6	1.1 1.2
Trade services		በ የወን	197 1	1266	1221	1 26	1 '4	1 -1 7		
Trade services		0.397 0.001	127.1 118.7	126.5 117.0	128.1 120.4	2.6 3.1	1.3 2.9	-1.2 -4.2	0.6 -1.5	3.5

Table 3. Producer price indexes and percent changes for intermediate demand by production flow¹ — Continued

[Nov. 2009=100, unless otherwise indicated]

Grouping	Other index	Relative Impor- tance	Ur	nadjusted in	dex		ed percent Apr. 2019 m:	1	onally adj	•
	base	Dec. 2018 ²	Dec. 2018 ³	Mar. 2019 ³	Apr. 2019 ³	Apr. 2018	Mar. 2019	Jan. to Feb.	Feb. to Mar.	Mar. to Apr.
Transportation of passengers		0.001	118.7	117.0	120.4	3.1	2.9	-4.2	-1.5	3.5
Services less trade, transportation, and warehousing		0.040	107.3	107.2	107.5	1.1	0.3	-0.4	0.0	0.3
Stage 2										
Stage 2 intermediate demand		100.000	109.3	107.4	107.8	0.4	0.4	-1.6	1.1	0.5
Inputs to stage 2 goods producers		47.228	102.8	97.4	98.0	-1.6	0.6	-3.8	2.0	0.6
Goods		40.897	98.9	92.7	93.3	-2.4	0.6	-4.4	2.3	0.6
Foods		3.508	110.3	108.6	109.6	-7.6	0.9	0.5	-3.6	0.7
Energy		18.671	78.7	68.5	71.0	-2.9	3.6	-10.4	7.5	3.5
Goods excluding foods and energy		18.718	117.9	116.4 121.0	114.6	-0.8 2.6	-1.5 0.2	-0.5	-0.4	-1.5 0.2
Trade services.		5.894 0.411	120.4 125.2	121.0	121.2 123.9	3.8	1.0	-0.2 -1.1	0.0 0.3	1.0
Transportation and warehousing services.		3.366	140.7	140.6	141.2	3.0	0.4	-0.4	-0.2	0.6
Transportation of passengers		0.255	119.3	117.7	120.9	3.1	2.7	-3.9	-1.5	3.4
Transportation and warehousing of goods		3.111	141.2	141.2	141.6	3.0	0.3	-0.1	-0.1	0.3
Services less trade, transportation, and warehousing		2.117	106.5	108.6	108.0	1.7	-0.6	0.2	0.4	-0.5
Construction		0.437	117.4	118.0	119.0	2.9	8.0	-0.1	0.3	0.8
Inputs to stage 2 services producers		52.772	115.8	117.3	117.6	2.0	0.3	0.3	0.4	0.3
Goods		4.526	111.0	112.0	112.2	1.9	0.2	0.4	8.0	0.1
Foods		0.063	90.8	87.9	87.9	-4.7	0.0	0.3	-5.5	0.0
Energy		0.394	108.3	113.6	114.6	3.0	0.9	4.0	8.3	-0.2
Goods excluding foods and energy.		4.069	111.4	112.1	112.2	1.9	0.1	0.2	0.1	0.1
Services.		46.857 1.052	116.2 124.7	117.8 122.7	118.1 125.1	2.0 2.5	0.3 2.0	0.3 -2.6	0.4 0.1	0.3 2.0
Trade services Transportation and warehousing services		6.063	124.7	123.5	124.2	3.1	0.6	-0.2	-0.1	0.8
Transportation of passengers		0.935	118.9	117.2	120.5	3.0	2.8	-4.1	-1.5	3.5
Transportation and warehousing of goods		5.128	122.5	125.1	125.3	3.0	0.2	0.5	0.2	0.4
Services less trade, transportation, and warehousing		39.742	115.9	117.5	117.7	1.8	0.2	0.3	0.5	0.3
Construction		1.389	117.4	118.0	119.0	2.9	8.0	-0.1	0.3	0.8
Stage 1										
Stage 1 intermediate demand		100.000	116.1	116.2	116.4	0.6	0.2	0.1	1.1	0.0
Inputs to stage 1 goods producers		46.568	112.7	111.3	111.2	-1.9	-0.1	-0.2	0.9	-0.2
Goods		36.401	110.4	108.5	108.1	-3.4	-0.4	-0.4	1.2	-0.6
Foods		2.637	109.2	106.6	107.6	-6.4	0.9	-1.2	-3.3	0.9
Energy		6.825	105.7	103.2	104.4	0.6	1.2	-1.3	5.9	0.9
Goods excluding foods and energy		26.939	113.3	111.7	110.8	-3.9	-0.8	-0.1	0.6	-1.1
Services		10.161	119.7	120.0	121.1	3.4	0.9	0.2	0.1	0.8
Trade services Transportation and warehousing services		7.324 1.259	122.6 124.9	123.1 124.9	124.5 125.5	3.6 5.0	1.1 0.5	0.4 -0.6	0.2 -0.5	1.1 0.6
Transportation of passengers		0.218	118.7	117.0	120.4	3.1	2.9	-4.2	-1.6	3.6
Transportation and warehousing of goods		1.041	125.7	126.1	126.1	5.5	0.0	0.2	-0.3	0.0
Services less trade, transportation, and warehousing		1.578	103.9	103.6	103.8	1.5	0.2	-0.3	-0.1	0.1
Construction.		0.006	117.4	118.0	119.0	2.9	0.8	-0.1	0.3	0.8
Inputs to stage 1 services producers		46.573	119.3	120.7	121.0	2.8	0.2	0.3	1.4	0.1
Goods		15.127	110.6	112.8	112.6	1.8	-0.2	1.9	3.8	-0.4
Foods		0.097	107.5	96.3	95.7	-26.7	-0.6	-1.7	-0.6	-0.6
Energy		7.769	106.9	110.7	110.4	2.5	-0.3	3.9	7.6	-0.7
Goods excluding foods and energy		7.261	117.1	117.7	117.6	1.6	-0.1	0.1	0.1	0.0
Services.		31.442	123.4	124.4	125.0	3.3	0.5	-0.4	0.2	0.4
Trade services Transportation and warehousing services		4.273 2.480	121.9 127.5	122.9 126.7	123.5 129.2	4.4 2.5	0.5 2.0	-0.1 -2.5	1.2 -1.0	0.4 2.6
Transportation of passengers		1.552	118.6	116.9	129.2	3.1	2.0	-4.2	-1.5	3.5
Transportation and warehousing of goods		0.928	131.4	132.2	133.0	1.7	0.6	0.5	-0.2	0.8
Services less trade, transportation, and warehousing		24.689	123.3	124.6	124.9	3.1	0.2	-0.2	0.2	0.2
Construction.		0.004	117.4	118.0	119.0	2.9	0.8	-0.1	0.3	0.8
Inputs to stage 1 construction producers		6.859	119.3	120.6	121.7	3.1	0.9	-0.1	0.8	0.7
Goods		4.570	118.1	119.9	120.8	3.2	0.8	0.2	1.1	0.3
Energy		0.472	91.5	98.2	104.9	5.5	6.8	2.2	10.6	3.0
Goods excluding foods and energy		4.098	123.2	124.2	124.3	3.0	0.1	-0.1	0.0	-0.1
Services		2.289	121.4	121.7	123.3	3.0	1.3	-0.8	0.6	1.2
Trade services.		1.663	122.9	122.9	124.6	2.8	1.4	-1.1	0.7	1.4
Transportation and warehousing services		0.090	111.9	113.0	114.1	6.7	1.0	-0.3	-0.1	1.2
Transportation of passengers		0.023 0.067	118.7 110.9	117.0 112.9	120.4 113.2	3.1 8.0	2.9 0.3	-4.2 1.2	-1.5 0.4	3.5 0.4
Services less trade, transportation, and warehousing		0.067	116.5	117.5	118.5	2.7	0.3	0.1	0.4	0.4
		0.555					0.0	•••	J. 1	0.0
Special groupings										
Total goods inputs to stage 4 intermediate demand	04/10	49.368	112.1	112.9	113.2	1.7	0.3	0.3	0.5	0.1

Table 3. Producer price indexes and percent changes for intermediate demand by production ${\sf flow}^1$ — Continued

[Nov. 2009=100, unless otherwise indicated]

Grouping	Other index	Relative Impor- tance	Un	adjusted inc	dex	change to	ed percent Apr. 2019 om:		onally adj nt change	
	base	Dec. 2018 ²	Dec. 2018 ³	Mar. 2019 ³	Apr. 2019 ³	Apr. 2018	Mar. 2019	Jan. to Feb.	Feb. to Mar.	Mar. to Apr.
Total services inputs to stage 4 intermediate demand	04/10	50.483	119.5	120.6	121.4	3.2	0.7	0.0	0.4	0.5
Total construction inputs to stage 4 intermediate demand	04/10	0.148	116.4	117.1	118.0	2.9	0.8	-0.1	0.4	8.0
Total foods inputs to stage 4 intermediate demand	04/10	5.461	111.8	111.5	112.6	-0.4	1.0	0.0	-0.4	0.7
Total energy goods inputs to stage 4 intermediate demand	04/10	5.012	97.3	100.7	101.8	2.0	1.1	2.4	5.2	0.5
Total goods less foods and energy inputs to stage 4 intermediate demand	04/10	38.895	115.2	115.8	115.8	1.9	0.0	0.1	0.1	0.0
Total goods inputs to stage 3 intermediate demand	04/10	50.210	105.4	106.9	108.7	1.0	1.7	0.6	1.3	1.3
Total services inputs to stage 3 intermediate demand	04/10	48.661	117.9	119.0	119.3	2.8	0.3	-0.1	0.3	0.3
Total construction inputs to stage 3 intermediate demand	04/10	1.128	116.4	117.1	118.0	2.9	0.8	-0.1	0.4	0.8
Total foods inputs to stage 3 intermediate demand	04/10	10.639	106.7	108.8	113.4	1.0	4.2	-1.3	-1.4	5.2
Total energy goods inputs to stage 3 intermediate demand	04/10	10.051	88.0	93.2	98.0	2.2	5.2	3.0	7.9	2.4
Total goods less foods and energy inputs to stage 3 intermediate demand	04/10	29.520	112.1	111.7	111.1	0.5	-0.5	0.2	0.1	-0.6
Total goods inputs to stage 2 intermediate demand	04/10	45.423	95.5	90.2	90.7	-1.9	0.6	-3.9	2.2	0.7
Total services inputs to stage 2 intermediate demand	04/10	52.751	117.4	118.9	119.2	2.1	0.3	0.2	0.4	0.3
Total construction inputs to stage 2 intermediate demand	04/10	1.826	116.4	117.1	118.0	2.9	8.0	-0.1	0.4	0.8
Total foods inputs to stage 2 intermediate demand	04/10	3.571	110.7	109.0	110.0	-7.5	0.9	0.5	-3.6	0.6
Total energy goods inputs to stage 2 intermediate demand	04/10	19.065	77.2	67.6	69.9	-2.8	3.4	-10.0	7.5	3.4
Total goods less foods and energy inputs to stage 2 intermediate demand	04/10	22.787	110.0	109.0	107.6	-0.3	-1.3	-0.5	-0.3	-1.2
Total goods inputs to stage 1 intermediate demand	04/10	56.098	99.8	99.3	99.1	-1.5	-0.2	0.3	1.8	-0.4
Total services inputs to stage 1 intermediate demand	04/10	43.892	121.5	122.3	123.0	3.3	0.6	-0.2	0.2	0.6
Total construction inputs to stage 1 intermediate demand	04/10	0.010	116.4	117.1	118.0	2.9	0.8	-0.1	0.4	0.8
Total foods inputs to stage 1 intermediate demand	04/10	2.734	103.0	100.3	101.1	-7.3	0.8	-1.2	-3.2	0.8
Total energy goods inputs to stage 1 intermediate demand	04/10	15.066	101.4	102.4	103.0	1.8	0.6	1.6	6.9	0.1
Total goods less foods and energy inputs to stage 1 intermediate demand	04/10	38.298	97.4	96.6	96.0	-2.2	-0.6	-0.1	0.4	-0.7

¹ Further information about the Final Demand-Intermediate Demand Aggregation system is available online at https://www.bls.gov/ppi/fdidaggregation.htm

² 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.

The indexes for December 2018 have been recalculated to incorporate late reports and corrections by respondents. All indexes are subject to revision 4 months after original publication.

[&]quot;-" Data not available.

Table 4. Producer price indexes and percent changes for selected commodity groupings by final demand category¹
[1982=100, unless otherwise indicated]

Grouping	Commodity	Other index	Un	adjusted in	dex	Unadjuste change to fro	Apr. 2019		onally adj nt change	
ологринд	code	base	Dec. 2018 ²	Mar. 2019 ²	Apr. 2019 ²	Apr. 2018	Mar. 2019	Jan. to Feb.	Feb. to Mar.	Mar. to Apr.
Final demand		11/09	116.8	117.9	118.2	2.2	0.3	0.1	0.6	0.2
Final demand goods		11/09	114.3	115.5	116.1	1.5	0.5	0.4	1.0	0.3
Final demand foods	I	11/09	119.4	118.1	118.0	1.0	-0.1	-0.3	0.3	-0.2
Fresh fruits and melons	I		160.8	136.5	129.2	-6.5	-5.3	-0.5	-0.8	-5.8
Fresh and dry vegetables ³			337.4 148.0	258.0 141.6	228.1 141.5	27.0 -6.6	-11.6 -0.1	-12.8 0.1	17.6 -6.3	-11.6 0.0
Eggs for fresh use ³	1 -	12/91	161.6	124.3	104.3	-46.8	-16.1	6.7	-8.8	-16.1
Oilseeds		12/01	162.0	156.4	160.3	-15.3	2.5	3.8	-6.1	1.9
Bakery products ³	I		289.7	292.2	291.2	2.1	-0.3	0.2	0.3	-0.3
Milled rice ³	. 02-13		204.5	203.5	204.4	0.7	0.4	0.5	-0.2	0.4
Pasta products		06/85	202.4	202.6	206.5	1.8	1.9	1.6	0.1	1.4
Beef and veal			205.5	213.2	219.0	6.3	2.7	1.6	0.0	1.2
Pork			131.9	121.1	128.8	-4.2	6.4	0.8	-8.7	7.6
Processed young chickens			152.6	163.2	170.4	1.2	4.4	-2.4	-0.3	3.5
Processed turkeys	I		137.6	138.7	139.0 363.3	1.5 -3.3	0.2 -3.2	0.6 -0.6	0.6 4.6	-0.3 -4.5
Dairy products.	I		335.5 191.9	375.5 196.1	197.8	4.1	0.9	1.6	1.0	1.0
Processed fruits and vegetables ³			209.8	209.1	209.4	1.6	0.9	-0.8	0.2	0.1
Confectionery end products ³			280.6	281.0	281.6	0.9	0.2	0.1	-0.1	0.2
Soft drinks ³			208.0	215.5	214.9	5.5	-0.3	-0.5	2.5	-0.3
Roasted coffee ³	. 02-63-01		193.8	194.8	194.0	-0.3	-0.4	0.2	0.4	-0.4
Shortening and cooking oils ³			248.4	239.8	238.9	-7.4	-0.4	-3.1	0.6	-0.4
Frozen specialty food ³			185.9	186.9	184.5	-0.5	-1.3	-2.8	2.7	-1.3
Final demand energy		11/09	100.2	105.2	109.1	1.0	3.7	1.8	5.6	1.8
Liquefied petroleum gas ³		10/00	144.5	136.7	122.1	-31.7	-10.7	5.4	-3.3	-10.7
Residential electric power.		12/90	176.1	179.2	178.8	1.4	-0.2	0.1	0.6	0.4
Residential natural gas		12/90	204.5 156.7	203.4 180.5	201.3 206.6	1.5 1.8	-1.0 14.5	-0.7 3.3	1.4 16.0	-0.5 5.9
Home heating oil and distillates.	I		191.5	189.3	194.9	3.2	3.0	3.3	4.8	2.2
No. 2 diesel fuel			232.7	245.4	241.8	4.3	-1.5	7.2	12.6	-2.1
Final demand goods less foods and energy		11/09	117.1	117.7	117.7	1.8	0.0	0.1	0.2	0.0
Alcoholic beverages ³	. 02-61		200.4	200.1	200.2	-0.3	0.0	-0.3	0.0	0.0
Pet food ³	. 02-94-02		265.7	270.2	270.5	3.3	0.1	1.9	0.0	0.1
Women's, girls', and infants' apparel ³	I	12/03	109.3	106.9	106.8	-1.7	-0.1	-0.1	-2.2	-0.1
Men's and boys' apparel ³		12/03	115.9	116.4	117.1	1.5	0.6	0.3	0.1	0.6
Textile housefurnishings ³			168.2	169.4	169.3	1.3	-0.1	0.8	-0.5	-0.1
Footwear	I		203.9 262.4	205.2 257.9	209.8 255.9	3.2 -5.2	2.2 -0.8	0.6 2.1	0.0 0.2	2.2 -1.0
Pharmaceutical preparations.		06/01	263.2	268.5	268.9	4.4	-0.6 0.1	0.2	0.2	0.6
Soaps and detergents ³		00/01	181.4	181.3	181.6	0.3	0.1	0.2	-0.1	0.0
Cleaning and polishing products ³	I	06/83	195.6	197.6	198.2	6.4	0.3	0.7	-0.1	0.3
Cosmetics and other toiletries ³			165.9	166.1	166.1	0.7	0.0	-0.1	0.0	0.0
Tires ³	. 07-12-01		148.1	149.6	148.8	1.0	-0.5	-0.5	1.1	-0.5
Consumer, institutional, and commercial products, n.e.c.3		12/06	139.4	138.6	138.2	0.9	-0.3	-1.1	0.2	-0.3
Sanitary paper products ³			179.7	182.1	182.2	2.1	0.1	2.8	-2.5	0.1
Iron and steel scrap ³			516.8	489.1	474.1	-15.7	-3.1	-4.1	5.9	-3.1
Agricultural machinery and equipment ³			236.2	236.7	236.9	4.2	0.1	0.2	0.0	0.1
Construction machinery and equipment			228.9 202.4	231.4 203.9	231.8 204.0	5.7 1.7	0.2 0.0	0.3 0.6	-0.1 0.0	0.3
Metal forming machine tools			202.4	203.9	204.0	3.8	0.0	0.6	0.0	0.0
Tools, dies, jigs, fixtures, and industrial molds ³			155.7	156.0	156.7	2.8	0.4	0.5	-0.5	0.2
Pumps, compressors, and equipment			265.1	264.8	266.0	3.6	0.5	-0.3	0.4	0.6
Industrial material handling equipment			223.2	224.6	224.7	3.7	0.0	0.0	0.0	0.1
Electronic computers and computer equipment ³		12/98	26.9	26.6	26.8	-1.5	0.8	-0.4	-1.5	0.8
Textile machinery and equipment ³			171.9	172.0	172.2	0.3	0.1	0.0	0.0	0.1
Paper industries machinery ³	. 11-64	06/82	223.1	224.2	224.3	1.2	0.0	0.3	0.0	0.0
Printing trades machinery and equipment ³			164.6	163.3	164.2	0.6	0.6	-0.4	-0.5	0.6
Transformers and power regulators ³		10/05	230.3	233.4	230.4	3.2	-1.3	-0.1	0.7	-1.3
Communication and related equipment		12/85	112.3 65.5	114.6 65.0	116.3 65.1	3.8 -1.8	1.5 0.2	-0.3 2.4	0.1 0.2	1.6 0.2
X-ray and electromedical equipment ³			86.4	86.6	86.6	0.7	0.2	0.0	0.2	0.2
Oil field and gas field machinery ³			217.4	220.5	220.1	1.8	-0.2	1.1	0.0	-0.2
Mining machinery and equipment			290.7	292.9	294.5	7.5	0.5	0.1	-0.1	0.8
Office and store machines and equipment ³			121.1	119.6	119.7	-1.6	0.1	-1.2	0.0	0.1
Household furniture ³			217.8	218.1	218.6	1.6	0.2	0.1	-0.3	0.2
Commercial furniture ³	. 12-2		230.8	230.7	230.3	4.1	-0.2	-0.2	-0.5	-0.2
Floor coverings ³	. 12-3		197.7	200.1	198.9	2.6	-0.6	0.9	0.2	-0.6

Table 4. Producer price indexes and percent changes for selected commodity groupings by final demand category¹ — Continued
[1982=100, unless otherwise indicated]

Grouping	Commodity code	Other index	Un	adjusted inc	lex	change to	ed percent Apr. 2019 om:		onally adj nt change	
3	code	base	Dec. 2018 ²	Mar. 2019 ²	Apr. 2019 ²	Apr. 2018	Mar. 2019	Jan. to Feb.	Feb. to Mar.	Mar. to Apr.
Household appliances ³	12-4		119.0	124.3	123.6	3.7	-0.6	0.5	-0.2	-0.6
Home electronic equipment ³	12-5		51.1	51.6	51.6	0.4	0.0	0.2	0.0	0.0
Lawn and garden equipment excl. garden tractors ³	12-66		149.3	149.1	149.2	1.9	0.1	0.1	-0.1	0.1
Passenger cars	14-11-01		134.9	135.0	135.1	1.2	0.1	0.3	-0.1	0.3
Light motor trucks	14-11-05		180.7	178.0	177.2	0.2	-0.4	-0.4	-0.7	-0.1
Heavy motor trucks	14-11-06		231.5	231.9	231.9	1.4	0.0	0.2	0.1	-0.1
Motor vehicles parts ³	14-12		127.2	127.2	127.6	0.7	0.3	-0.3	0.1	0.3
Truck trailers ³	14-14		220.8	222.7	224.0	6.8	0.6	0.0	0.0	0.6
Travel trailers and campers	14-16	06/84	212.8	214.8	214.3	2.0	-0.2	0.4	0.1	-0.3
Aircraft	14-21		303.6	306.1	306.4	2.1	0.1	0.1	0.1	0.2
Ships ³	14-31	12/85	223.7	225.3	225.3	0.5	0.0	0.2	0.0	0.0
Railroad equipment ³			201.3	207.6	207.5	2.7	0.0	0.1	2.9	0.0
Toys, games, and children's vehicles ³			158.0	158.1	158.1	0.3	0.0	0.0	0.0	0.0
Sporting and athletic goods ³			138.4	140.7	140.8	2.0	0.1	0.9	0.1	0.1
Cigarettes ³			1,079.8	1,114.4	1,114.4	6.8	0.0	-0.2	3.4	0.0
Mobile homes ³			299.7	297.9	298.1	1.6	0.1	0.1	0.0	0.1
Medical, surgical & personal aid devices	15-6 15-94-02		181.5	181.8 229.7	182.3 231.1	1.2 0.8	0.3 0.6	-0.1 0.5	0.1 1.1	0.2 0.6
Costume jewelry and novelties ³	15-94-02		230.2 189.0	229.7 191.4	193.8	3.2	0.6 1.3	1.2	0.0	1.3
Final demand services.	15-34-04	11/09	117.6	191.4	118.8	2.4	0.1	0.0	0.0	0.1
Final demand trade services ⁴		11/09	118.6	120.5	120.1	3.1	-0.3	-0.4	1.1	-0.5
Machinery and equipment wholesaling ³	57-11-01	03/09	125.0	127.6	128.0	3.2	0.3	1.4	0.7	0.3
Parts and supplies for machinery and equipment wholesaling ³	57-11-01	03/09	123.0	126.5	127.6	6.7	0.9	0.8	1.1	0.9
Furnishings wholesaling ³	57-2	03/09	95.7	91.9	93.4	-4.2	1.6	-1.8	-1.8	1.6
Chemicals and allied products wholesaling ³		03/09	103.8	110.6	110.4	5.6	-0.2	2.0	1.2	-0.2
Paper and plastics products wholesaling ³		03/09	133.6	138.8	135.7	4.5	-2.2	-0.3	1.6	-2.2
Apparel wholesaling ³		03/09	117.9	123.5	122.1	3.3	-1.1	1.3	2.5	-1.1
Food and alcohol wholesaling ³	57-8	06/09	115.3	115.6	115.1	5.4	-0.4	-1.1	0.8	-0.4
Food and alcohol retailing	58-1	03/09	132.2	137.6	133.7	2.5	-2.8	1.5	1.6	-3.1
Health, beauty, and optical goods retailing ³	58-2	03/09	124.3	124.3	120.4	2.0	-3.1	-3.2	1.4	-3.1
Apparel, jewelry, footwear, and accessories retailing	58-3	06/09	110.5	120.1	119.4	3.5	-0.6	-3.8	4.2	-2.6
Computer hardware, software, and supplies retailing ³	58-4	03/09	92.9	98.7	98.9	4.8	0.2	3.7	3.0	0.2
TV, video, and photographic equipment and supplies retailing ³	58-5	03/09	58.6	56.6	57.2	-10.2	1.1	-5.9	0.9	1.1
Automobiles and automobile parts retailing ³	58-6	06/09	94.4	95.1	93.9	-4.2	-1.3	1.4	1.8	-1.3
Manufactured (mobile) homes retailing ³	58-7	03/09	109.6	-	-	-	-	-	-	-
RVs, trailers, and campers retailing ³	58-8	03/09	106.0	106.9	106.9	3.3	0.0	-0.8	0.0	0.0
Sporting goods, including boats, retailing ³	58-9	03/09	110.8	112.5	115.6	1.0	2.8	0.6	1.3	2.8
Lawn, garden, and farm equipment and supplies retailing ³	58-A	03/09	111.8	106.3	109.1	6.0	2.6	-5.5	-0.7	2.6
Furniture retailing ³	58-B	03/09	102.4	104.4	104.3	0.3	-0.1	-1.2	1.8	-0.1
Flooring and floor coverings retailing ³		03/09	100.5	99.6	100.3	-0.3	0.7	0.0	-0.4	0.7
Hardware, building materials, and supplies retailing	58-D	03/09	125.9	122.5	125.3	0.6	2.3	-3.8	0.0	2.5
Major household appliances retailing		03/09	93.4	104.8	103.3	11.0	-1.4	2.5	6.8	-2.0
Fuels and lubricants retailing ³	58-F	06/09	204.8	154.4	158.3	0.6	2.5	-10.5	-5.9	2.5
Cleaning supplies and paper products retailing ³	58-G	03/09	144.4	144.8	145.4	3.9	0.4	1.5	-0.4	0.4
Book retailing ³	58-H	03/09	115.8	121.2	119.9	11.4	-1.1	2.2	2.5	-1.1
Final demand transportation and warehousing services		11/09	124.9	124.4	125.3	3.7	0.7	-1.3	-0.8	1.0
Rail transportation of freight and mail ³	30-11	12/08	127.4	126.9	128.0	3.6	0.9	-0.3	0.2	0.9
Truck transportation of freight ³	30-12	06/09	125.8	125.1	124.7	3.9	-0.3	-0.3	-0.8	-0.3
Air transportation of freight ³	30-14	12/08	112.6	111.8	112.6	1.5	0.7	-0.4	-0.4	0.7
Courier, messenger, and U.S. postal services	30-16	06/09	140.1	145.7	145.7	4.3	0.0	1.2	0.4	0.3
Rail transportation of passengers	30-21	12/08	124.4	124.5	124.8	2.8	0.2	0.0	0.1	0.4
Airline passenger services.	30-22	12/08	116.7	115.0	118.3	3.0	2.9	-4.2	-1.5	3.6
Final demand services less trade, transportation, and warehousing		11/09	116.4	117.4	117.6	2.1	0.2	0.3	0.0	0.3
Sales of books ³	33-11 33-12	06/00	382.5	392.6	392.2	1.0 4.2	-0.1	-1.2	1.7	-0.1
Application software publishing ³	34-2	06/09 06/09	117.9	120.5 99.0	122.7	2.4	1.8 2.2	-1.4 -3.2	0.9	1.8
Advertising space sales in periodicals, newspapers, directories, and	34-2	06/09	98.5	99.0	101.2	2.4	2.2	-3.2	0.5	2.2
mailing lists ³	36-1	06/09	103.8	103.9	102.1	-1.8	-1.7	-0.4	0.5	-1.7
Residential wired telecommunication services.	37-11	06/09	141.0	139.4	139.5	1.7	0.1	0.1	0.0	0.4
Wireless telecommunication services ³		06/09	65.0	64.1	65.1	0.6	1.6	-0.5	-0.5	1.6
Cable and satellite subscriber services ³	37-3	12/08	131.4	135.4	135.7	4.6	0.2	2.4	-0.1	0.2
Internet access services ³	37-4	03/09	93.5	93.9	93.0	-0.9	-1.0	0.0	0.0	-1.0
Bundled wired telecommunications access services ³	37-5	12/11	107.4	108.7	108.8	4.7	0.1	0.2	0.1	0.1
Consumer loans (partial)	39-12	06/09	117.8	116.9	118.5	2.1	1.4	0.6	-1.7	-0.7
Deposit services (partial) ³	39-2	04/09	66.2	68.9	68.8	8.9	-0.1	-1.1	6.3	-0.1
Other credit intermediation, incl. trust services (partial) ³	39-3	04/09	104.2	102.8	103.6	1.2	0.8	-3.1	1.4	0.8
Securities brokerage, dealing, investment advice, and related										
	40-1	06/09	159.6	161.1	163.1	5.6	1.2	-0.3	-0.1	1.2

Table 4. Producer price indexes and percent changes for selected commodity groupings by final demand category¹ — Continued
[1982=100, unless otherwise indicated]

Grouping	Commodity code	Other index	Un	adjusted in	dex	change to	ed percent Apr. 2019 om:		onally adj nt change	
	code	base	Dec. 2018 ²	Mar. 2019 ²	Apr. 2019 ²	Apr. 2018	Mar. 2019	Jan. to Feb.	Feb. to Mar.	Mar. to Apr.
Portfolio management ³	40-2	12/08	210.7	206.7	217.6	3.9	5.3	2.1	1.4	5.3
Life insurance ³	41-11-01	03/09	103.9	103.9	103.9	-0.2	0.0	0.0	0.0	0.0
Disability insurance, including accidental death ³	41-11-02	03/09	104.0	104.0	104.0	0.6	0.0	0.0	0.0	0.0
Health and medical insurance	41-11-03	03/09	133.8	134.7	134.6	2.7	-0.1	0.5	0.2	0.3
Property and casualty insurance ³	41-11-04	03/09	122.9	123.0	123.3	1.8	0.2	0.2	0.1	0.2
Annuities ³	41-2	03/09	116.3	116.7	117.1	-0.7	0.3	0.2	0.0	0.3
Residential property sales and leases, brokerage fees and										
commissions	43-21	12/08	143.5	143.8	143.8	3.2	0.0	0.5	0.1	0.0
Passenger car rental	1	03/09	85.3	85.5	86.6	5.4	1.3	2.7	-1.2	5.3
Legal services	45-1	03/09	129.9	135.7	134.5	2.5	-0.9	1.7	-0.1	-1.0
Tax preparation and planning		04/09	116.3	116.5	116.0	2.5	-0.4	-2.3	1.1	0.2
Architectural and engineering services ³	45-3	06/09	116.1	117.2	118.4	3.1	1.0	0.1	0.1	1.0
Management, scientific, and technical consulting services	45-4	06/09	104.9	105.2	104.8	-0.1	-0.4	0.7	-0.6	-0.2
Arrangement of flights (partial) ³	47-1	06/09	102.7	102.1	102.2	-0.4	0.1	1.7	-1.0	0.1
Arrangement of vehicle rentals and lodging ³	47-2	12/08	86.0	92.4	86.0	1.7	-6.9	1.0	1.5	-6.9
Arrangement of cruises and tours ³	47-3	12/08	111.4	121.8	131.3	15.3	7.8	3.2	5.9	7.8
Physician care	51-11-01	03/09	109.2	109.3	109.4	0.9	0.1	0.1	0.2	0.0
Medical laboratory and diagnostic imaging care ³	51-11-02	03/09	96.4	95.2	95.1	-1.3	-0.1	-0.4	0.3	-0.1
Home health and hospice care ³		12/08	110.3	111.5	112.1	2.6	0.5	0.4	0.2	0.5
Hospital outpatient care	51-11-04	12/08	128.0	128.0	129.6	1.6	1.3	0.6	-0.8	1.1
Dental care	51-11-05	06/10	115.6	115.9	115.8	0.4	-0.1	-0.2	0.0	0.0
Hospital inpatient care	51-21-01	12/08	127.9	128.5	128.4	2.7	-0.1	0.4	0.1	0.2
Nursing home care	51-21-02	12/08	125.5	125.5	125.8	2.8	0.2	0.4	0.2	0.3
Traveler accommodation services	53-11	06/09	114.5	127.5	116.9	0.4	-8.3	5.3	-1.4	-5.8
Food and beverages for immediate consumption services (partial) ³	54-1	06/09	118.5	119.3	119.5	-1.2	0.2	-0.8	1.4	0.2
Motor vehicle repair and maintenance (partial)	55-2	12/08	133.6	134.1	134.4	1.4	0.2	0.2	0.0	0.3
Membership dues and admissions and recreation facility use fees										
(partial)	56-1	06/09	122.5	125.7	125.8	5.3	0.1	1.0	-0.3	0.9
Recreational activity instruction fees (partial) ³	56-2	12/08	118.7	120.4	120.0	3.7	-0.3	0.1	1.3	-0.3
Gaming receipts (partial) ³	56-3	12/08	109.5	110.7	109.8	0.5	-0.8	-1.8	4.4	-0.8
Mining services ³	60-1	06/85	236.2	234.8	234.8	1.2	0.0	-0.3	-0.2	0.0
Final demand construction.		11/09	124.1	124.9	126.9	5.4	1.6	-0.1	0.2	1.6
New warehouse building construction ³	80-11-01	12/04	155.0	155.5	159.1	5.2	2.3	-0.6	0.3	2.3
New school building construction ³	80-11-02	12/05	164.4	166.0	169.3	6.2	2.0	0.1	0.1	2.0
New office building construction ³	1	06/06	139.7	140.0	142.1	4.9	1.5	-0.4	0.1	1.5
New industrial building construction ³		06/07	131.8	133.0	135.7	6.9	2.0	0.1	0.0	2.0
New health care building construction ³	80-11-05	06/12	114.4	115.7	116.5	5.0	0.7	0.4	0.2	0.7
• · · · · • • • · · · · · · · · · · · ·				-			-		-	-

¹ Further information about the Final Demand-Intermediate Demand Aggregation system is available online at https://www.bls.gov/ppi/fdidaggregation.htm

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

² The indexes for December 2018 have been recalculated to incorporate late reports and corrections by respondents. All indexes are subject to revision 4 months after original

³ Not seasonally adjusted.

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

[&]quot;-" Data not available.

Table 5. Producer price indexes and percent changes for selected commodity groupings of intermediate demand by commodity type category¹
[1982=100, unless otherwise indicated]

Grouping	Commodity	Other	Un	adjusted in	dex	Unadjuste change to fro	Apr. 2019		onally adj	
Grouping	code	base	Dec. 2018 ²	Mar. 2019 ²	Apr. 2019 ²	Apr. 2018	Mar. 2019	Jan. to Feb.	Feb. to Mar.	Mar. to Apr.
Processed goods for intermediate demand			199.4	199.8	199.9	0.7	0.1	0.4	0.8	-0.1
Processed foods and feeds			189.4	190.3	191.8	-1.4	0.8	-0.1	-0.3	0.6
Meats	1		174.5	174.9	180.5	1.8	3.2	1.1	-2.0	2.8
Processed poultry ³	1		144.9	151.7	156.0	-1.6	2.8	0.1	-0.7	2.8
Dairy products	1		191.9	196.1	197.8	4.1	0.9	1.6	1.0	1.0
Processed fruits and vegetables ³	02-4 02-53		209.8	209.1	209.4 173.4	1.6 -0.8	0.1 0.2	-0.8 1.3	0.2 -0.2	0.1 0.2
Fats and oils ³	1		171.6 245.6	173.0 238.7	238.6	-5.7	0.2	-2.5	0.3	0.2
Prepared animal feeds.	02-7		188.4	189.5	189.1	-5.0	-0.2	-1.1	-0.9	-0.6
Processed materials less foods and feeds.			200.4	200.8	200.8	0.9	0.0	0.4	0.9	-0.2
Synthetic fibers ³			133.1	133.0	131.7	2.3	-1.0	0.5	0.5	-1.0
Processed yarns and threads ³	1		143.8	141.3	141.4	-0.8	0.1	-0.9	0.1	0.1
Finished fabrics ³	03-4		161.0	161.1	161.2	3.3	0.1	0.3	-0.2	0.1
Liquefied petroleum gas ³	05-32		144.5	136.7	122.1	-31.7	-10.7	5.4	-3.3	-10.7
Commercial electric power	05-42		192.3	195.0	194.0	-0.1	-0.5	1.2	-0.5	0.6
Industrial electric power	05-43		241.0	241.0	238.0	0.1	-1.2	-0.5	-0.2	0.0
Commercial natural gas	05-52	12/90	203.0	198.7	193.1	1.4	-2.8	-1.4	2.3	-1.4
Industrial natural gas.	05-53	12/90	176.5	155.3	149.7	-4.0	-3.6	-3.9	-1.2	-1.3
Natural gas to electric utilities	05-54	12/90	213.5	158.3	156.3	-1.1	-1.3	-9.0	-4.7	-0.6
Gasoline	05-71		156.7	180.5	206.6	1.8	14.5	3.3	16.0	5.9
Jet fuel ³	05-72-03 05-73-03		198.2	209.6 245.4	210.1 241.8	0.9	0.2 -1.5	9.5	4.7 12.6	0.2 -2.1
Residual fuels ³	05-73-03		232.7 152.5	245.4 174.0	241.8 179.6	4.3 5.5	-1.5 3.2	7.2 19.5	8.1	3.2
Finished lubricants ³ .	05-74		430.6	432.2	427.0	3.4	-1.2	0.7	-0.1	-1.2
Lubricating oil base stocks ³		06/09	116.5	112.0	114.9	-4.4	2.6	-3.5	3.5	2.6
Asphalt		06/85	205.8	210.0	238.3	28.0	13.5	-8.5	3.4	9.7
Basic inorganic chemicals ³	1	00,00	279.0	285.3	283.3	3.1	-0.7	1.5	0.8	-0.7
Basic organic chemicals.	1		260.7	254.4	252.4	-6.5	-0.8	2.2	0.1	-1.1
Prepared paint ³	1		293.2	296.8	295.8	4.8	-0.3	0.8	-0.2	-0.3
Paint materials ³	06-22		252.5	252.2	252.6	-1.3	0.2	0.7	-3.1	0.2
Medicinal and botanical chemicals ³	06-31		181.9	181.5	181.4	0.1	-0.1	0.0	0.0	-0.1
Biological products, including diagnostics ³	06-37		267.3	275.0	275.5	3.8	0.2	0.7	-0.1	0.2
Fats and oils, inedible	06-4		191.0	193.0	191.5	-8.8	-0.8	1.2	0.2	-2.1
Nitrogenates	06-52-01		271.5	279.1	261.0	0.5	-6.5	-0.3	-1.7	-8.4
Phosphates ³	06-52-02		219.3	215.1	202.8	-0.5	-5.7	-3.2	0.3	-5.7
Other agricultural chemicals ³	06-53		206.0	210.4	205.2	2.9	-2.5	10.8	-0.1	-2.5
Plastic resins and materials	06-6		242.4	232.0	217.5	-8.7	-6.3	-1.0	-2.5	-5.5
Adhesives and sealants ³		12/83	254.8	285.7 268.1	276.7	10.2	-3.2	0.2	3.3	-3.2
Synthetic rubber ³	1	12/03	264.5 212.0	209.8	267.9 212.2	4.0 -0.9	-0.1 1.1	0.2	0.4 0.0	-0.1 1.1
Tires ³			148.1	149.6	148.8	1.0	-0.5	-0.5	1.1	-0.5
Plastic construction products.	1		228.0	230.3	230.0	1.8	-0.1	-0.6	-0.1	-0.1
Unsupported plastic film, sheet, other shapes ³	07-22		222.1	222.3	221.3	-1.4	-0.4	-0.5	0.4	-0.4
Parts for manufacturing from plastics ³	07-26		153.1	152.2	152.2	0.4	0.0	-0.5	-0.1	0.0
Plastic packaging products ³	07-2A	12/06	119.4	118.3	117.8	1.1	-0.4	-1.0	-0.7	-0.4
Softwood lumber	08-11		210.0	220.4	218.6	-12.6	-0.8	2.3	0.5	-1.4
Hardwood lumber ³	08-12		226.9	221.7	224.7	-3.5	1.4	-1.4	-0.4	1.4
Millwork	08-2		261.8	264.1	264.1	2.7	0.0	0.0	0.5	-0.1
Plywood ³			212.5	210.2	210.4	-11.1	0.1	0.1	-0.7	0.1
Paper ³			200.8	200.7	202.7	3.8	1.0	0.0	-0.1	1.0
Paperboard ³			277.3	273.4	272.4	2.2	-0.4	-1.1	-0.3	-0.4
Paper boxes and containers ³			267.9	270.7	269.5	3.2	-0.4	0.1	0.7	-0.4
Building paper and board ³		00/00	198.4	202.4	204.4	-13.5	1.0	0.1	2.7	1.0
Foundry and forge shop products ³		06/82	173.7 211.5	175.2 212.3	175.8 212.4	2.9 1.5	0.3 0.0	0.3	0.2 -0.1	0.3
Steel mill products ³			223.0	215.8	212.4	5.8	-1.7	-3.2	0.1	-1.7
Primary nonferrous metals ³			184.7	189.4	187.2	-6.6	-1.2	2.2	1.1	-1.2
Secondary nonferrous metals ³			230.2	234.5	234.0	-4.7	-0.2	0.8	-0.7	-0.2
Aluminum mill shapes ³	1		200.5	202.2	202.3	0.6	0.0	0.8	0.0	0.0
Copper and brass mill shapes ³	10-25-02	1	389.1	406.6	408.8	-2.5	0.5	3.7	2.2	0.5
Nonferrous wire and cable ³	10-26	1	247.9	252.1	249.1	-0.2	-1.2	-0.9	2.5	-1.2
Nonferrous foundry shop products	10-28		216.2	215.9	215.6	-0.8	-0.1	0.1	0.0	-0.2
Metal containers ³			163.0	163.6	164.0	2.8	0.2	0.5	0.0	0.2
Hardware ³			221.9	223.4	223.1	3.4	-0.1	0.2	0.0	-0.1
Plumbing fixtures and brass fittings			274.5	281.5	281.5	4.4	0.0	1.3	0.3	-0.1
Heating equipment ³			273.2	276.1	278.2	6.8	0.8	-0.1	0.0	0.8
Fabricated structural metal products	I 10-7	1	240.7	242.4	240.7	3.8	-0.7	0.6	0.0	-1.1

Table 5. Producer price indexes and percent changes for selected commodity groupings of intermediate demand by commodity type category¹ — Continued [1982=100, unless otherwise indicated]

Grouping	Commodity code	Other index	Ur	nadjusted in	dex	Unadjuste change to fro			onally adj nt change	
3	code	base	Dec. 2018 ²	Mar. 2019 ²	Apr. 2019 ²	Apr. 2018	Mar. 2019	Jan. to Feb.	Feb. to Mar.	Mar. to Apr.
Bolts, nuts, screws, rivets, and washers ³	10-81	00/82	204.2	201.7	208.5	8.0	3.4	0.1	0.2	3.4
Lighting fixtures ³	10-83	00/82	181.1	181.5	181.8	4.9	0.2	0.0	0.3	0.2
Fabricated ferrous wire products ³		06/82	257.9	260.0	258.7	10.9	-0.5	0.9	0.3	-0.5
Other miscellaneous metal products ³			165.8	166.8	167.7	3.3	0.5	0.5	-0.1	0.5
Fluid power equipment ³			261.3	265.3	266.1	4.2	0.3	0.3	0.5	0.3
Mechanical power transmission equipment ³			275.9	277.2	277.7	3.6	0.2	0.3	-0.1	0.2
Air conditioning and refrigeration equipment		10/00	195.1	199.1	200.7	5.9	0.8	-0.2	0.1	1.1
Metal valves, except fluid power		12/82	335.4	338.1	338.2	3.6	0.0 -0.4	-0.3 0.8	0.1 2.9	0.0 -0.4
Wiring devices ³			269.3 234.8	280.5 236.2	279.5 237.3	5.5 2.2	0.5	0.8	0.1	0.5
Motors, generators, motor generator sets ³			219.7	221.2	221.1	2.2	0.0	0.3	0.1	0.0
Switchgear, switchboard, and industrial controls equip. ³			226.9	229.8	229.8	2.4	0.0	0.0	0.5	0.0
Electronic components and accessories			65.5	65.0	65.1	-1.8	0.2	2.4	0.2	0.2
Internal combustion engines ³			168.3	169.0	169.0	0.7	0.0	-0.1	-0.1	0.0
Machine shop products ³	11-95		193.5	193.5	193.5	2.9	0.0	-0.1	0.0	0.0
Flat glass ³	13-11		136.0	136.4	136.9	0.4	0.4	0.1	-0.7	0.4
Cement	13-22		253.1	255.5	260.0	3.5	1.8	0.4	0.7	0.0
Concrete products.			265.4	266.9	270.6	2.5	1.4	-0.4	0.0	1.1
Asphalt felts and coatings			248.9	238.5	244.0	6.7	2.3	1.4	-3.2	0.9
Paving mixtures and blocks ³			317.4	328.9	319.7	6.6	-2.8	-0.1	-0.8	-2.8
Motor vehicle parts ³		10/05	127.2	127.2	127.6	0.7	0.3	-0.3	0.1	0.3
Aircraft engines and engine parts		12/85	227.3	229.4	229.3	1.0	0.0	0.4	0.1	-0.2
Aircraft parts and auxiliary equipment, n.e.c		06/85	187.0 181.5	187.9 181.8	188.0 182.3	1.0 1.2	0.1 0.3	0.4 -0.1	0.1 0.1	0.1 0.2
Medical, surgical, and personal aid devices	15-6									
Unprocessed goods for intermediate demand			202.0	191.3	196.0	-2.0	2.5	-4.6	2.3	2.7
Unprocessed foodstuffs and feedstuffs	04.04		161.9	162.1	167.0	-0.9	3.0	-1.0	-2.3	3.7
Wheat ³			151.0	139.0 140.3	135.6	-12.5	-2.4 0.5	2.0 -0.8	-8.4	-2.4
Slaughter cattle			145.6 170.0	185.8	141.0 181.6	-5.0 2.1	-2.3	0.5	-6.1 -1.8	0.6 0.1
Slaughter hogs.			68.4	66.7	99.1	52.5	48.6	-13.3	-1.8	55.9
Slaughter chickens.			232.7	251.7	265.5	-12.9	5.5	-5.6	-8.7	1.6
Slaughter turkeys			183.2	177.2	187.3	11.9	5.7	0.7	-2.7	4.2
Raw milk			125.1	121.9	120.2	-0.2	-1.4	2.7	6.5	-1.3
Alfalfa hay	01-81		361.7	331.9	375.5	8.9	13.1	6.1	-9.6	11.7
Oilseeds	01-83-01		162.0	156.4	160.3	-15.3	2.5	3.8	-6.1	1.9
Raw cane sugar and byproducts ³	02-52-01		155.4	152.1	152.0	2.5	-0.1	-3.3	-0.2	-0.1
Unprocessed nonfood materials			221.7	203.5	207.8	-2.6	2.1	-6.9	5.2	2.1
Raw cotton ³			120.3	111.2	116.1	-6.6	4.4	-3.1	5.6	4.4
Hides and skins			148.3	149.3	143.5	-21.1	-3.9	3.6	-0.8	-2.5
Coal.			201.0	201.4	201.0	1.0 -3.2	-0.2	-1.6 -25.8	-0.4	0.1
Natural gas ³			165.5 136.7	101.7 160.9	92.9 183.2	-3.2	-8.7 13.9	-25.8 2.6	1.3 15.3	-8.7 13.9
Logs, bolts, timber, pulpwood, and woodchips.			245.9	243.6	242.2	-2.0	-0.6	0.3	0.2	-0.3
Wastepaper ³			276.4	227.6	205.5	-21.7	-9.7	-7.3	-7.2	-9.7
Iron ores.			140.9	144.2	144.6	7.0	0.3	0.4	0.4	-7.3
Iron and steel scrap ³			516.8	489.1	474.1	-15.7	-3.1	-4.1	5.9	-3.1
Nonferrous metal ores ³	10-21	12/83	330.2	357.9	351.1	3.6	-1.9	1.6	3.8	-1.9
Copper base scrap ³	10-23-01		425.9	435.6	447.6	-9.0	2.8	0.5	3.6	2.8
Aluminum base scrap			193.3	188.5	209.9	-7.2	11.4	4.0	-7.0	10.8
Construction sand, gravel, and crushed stone	13-21		337.5	345.1	346.6	4.0	0.4	-0.7	0.1	0.3
Services for intermediate demand		11/09	119.7	120.8	121.3	2.8	0.4	-0.1	0.4	0.3
Trade services for intermediate demand ⁴		11/09	122.1	123.4	124.4	4.3	0.8	-0.1	0.8	0.7
Parts and supplies for machinery and equipment wholesaling ³	57-11-02	03/09	122.5	126.5	127.6	6.7	0.9	0.8	1.1	0.9
Building materials, paint, and hardware wholesaling	57-3	03/09	99.9	97.0	96.7	1.0	-0.3	-0.6	-1.0	-0.8
Metals, minerals, and ores wholesaling ³		03/09	161.1	153.0	162.4	-0.2	6.1	0.7	-1.7	6.1
Chemicals and allied products wholesaling ³	57-5	03/09	103.8	110.6	110.4	5.6	-0.2	2.0	1.2	-0.2
Paper and plastics products wholesaling ³	57-6	03/09	133.6	138.8	135.7	4.5	-2.2	-0.3	1.6	-2.2
Food wholesaling ³	57-81-01	03/09	114.7	114.6	113.9	5.9	-0.6	-1.2	8.0	-0.6
Automotive parts, including tires, retailing ³	58-61-02	03/09	111.4	114.1	113.3	3.3	-0.7	0.9	4.6	-0.7
Hardware, building material, and supplies retailing Transportation and warehousing services for intermediate demand	58-D	03/09	125.9	122.5	125.3 128.6	0.6 3.1	2.3 0.5	-3.8	0.0 -0.2	2.5 0.6
Rail transportation of freight and mail ³	30-11	12/08	126.8	128.0	128.0	3.1	0.5	-0.1 -0.3	-0.2 0.2	
Truck transportation of freight ³	30-11	06/09	127.4 125.8	126.9 125.1	128.0	3.6	-0.3	-0.3	-0.8	0.9 -0.3
Water transportation of freight ³		06/09	120.1	123.1	124.7	8.2	-0.3 0.2	1.1	-0.6 0.4	0.2
Air transportation of freight ³		12/08	112.6	111.8	112.6	1.5	0.7	-0.4	-0.4	0.7
Pipeline transportation of petroleum products ³		06/09	155.6	156.0	156.0	2.6	0.0	0.0	0.0	0.0
U.S. Postal Service.		06/89	222.0	229.6	229.6	3.4	0.0	1.7	0.2	0.4

Table 5. Producer price indexes and percent changes for selected commodity groupings of intermediate demand by commodity type category¹ — Continued [1982=100, unless otherwise indicated]

Grouping	Commodity code	Other index	Ur	adjusted ind	dex	Unadjuste change to froi	Apr. 2019		nally adj It change	
	code	base	Dec. 2018 ²	Mar. 2019 ²	Apr. 2019 ²	Apr. 2018	Mar. 2019	Jan. to Feb.	Feb. to Mar.	Mar. to Apr.
Courier and messenger services, except air mail	30-16-02	04/09	154.7	161.3	161.1	4.8	-0.1	0.6	0.8	0.2
Air mail and package delivery services, excluding by USPS	30-16-03	04/09	169.0	177.7	178.1	5.4	0.2	1.5	1.0	0.5
Transportation of passengers (partial)	30-2	06/09	126.6	124.9	128.4	3.0	2.8	-4.2	-1.5	3.6
Services related to water transportation	31-1	06/09	119.6	121.3	121.7	2.0	0.3	1.5	-0.1	0.6
Arrangement of freight and cargo ³	31-31	12/08	107.7	107.7	107.7	0.6	0.0	0.0	0.0	0.0
Warehousing, storage, and related services ³	32-1	12/08	107.2	106.1	107.1	0.2	0.9	-1.4	-0.6	0.9
Services less trade, transportation, and warehousing for intermediate demand		11/09	117.8	118.8	119.2	2.4	0.3	0.0	0.3	0.3
Network compensation from broadcast TV, cable TV, radio ³	35	06/09	137.2	143.0	142.7	3.2	-0.2	0.0	0.3	-0.2
Advertising space sales in periodicals and newspapers ³	36-11	06/09	105.2	105.4	103.2	-2.2	-2.1	-0.5	0.7	-2.1
Advertising space sales in directories and mail lists ³	36-12	12/08	100.7	100.7	100.8	0.2	0.1	0.0	0.0	0.1
Television advertising time sales	36-2	06/09	110.7	109.7	110.2	0.5	0.5	0.0	1.8	0.1
Radio advertising time sales	36-3	03/09	100.8	103.5	103.0	6.0	-0.5	0.4	0.7	-1.1
Internet advertising space sales, excluding Internet ads sold by print										
publishers ³	36-5	12/09	61.9	59.6	60.9	-0.8	2.2	-3.2	-0.3	2.2
Business wired telecommunication services ³	37-12	06/09	101.7	101.7	101.5	-0.4	-0.2	0.1	0.1	-0.2
Wireless telecommunication services ³	37-2	06/09	65.0	64.1	65.1	0.6	1.6	-0.5	-0.5	1.6
Cable and satellite subscriber services ³	37-3	12/08	131.4	135.4	135.7	4.6	0.2	2.4	-0.1	0.2
Bundled wired telecommunication access services ³	37-5	12/11	107.4	108.7	108.8	4.7	0.1	0.2	0.1	0.1
Data processing and related services ³	38-1	06/09	100.4	101.1	100.6	-0.6	-0.5	-0.5	0.2	-0.5
Business loans (partial)	39-11	04/09	225.9	237.9	240.9	11.6	1.3	0.2	-0.7	-1.9
Deposit services (partial) ³	39-2	04/09	66.2	68.9	68.8	8.9	-0.1	-1.1	6.3	-0.1
Other credit intermediation, incl. trust services (partial) ³	39-3	04/09	104.2	102.8	103.6	1.2	8.0	-3.1	1.4	8.0
Securities brokerage, dealing, investment advice, and related	40.4	00/00	150.0	101.1	100.1	F.0	1.0		0.1	1.0
services ³	40-1	06/09	159.6	161.1	163.1	5.6	1.2	-0.3	-0.1	1.2
Portfolio management ³	40-2 40-3	12/08 12/08	210.7	206.7 178.7	217.6 178.6	3.9 1.4	5.3 -0.1	2.1 -1.8	1.4 0.4	5.3 -0.1
Life insurance ³	41-11-01	03/09	178.5 103.9	103.9	103.9	-0.2	0.0	0.0	0.0	0.0
Health and medical insurance.	41-11-01	03/09	133.8	134.7	134.6	2.7	-0.1	0.0	0.0	0.0
Property and casualty insurance ³		03/09	122.9	123.0	123.3	1.8	0.2	0.3	0.2	0.3
Annuities ³		03/09	116.3	116.7	117.1	-0.7	0.2	0.2	0.0	0.2
Commissions from sales of insurance ³		06/09	107.5	107.6	107.7	0.7	0.1	0.2	0.0	0.1
Nonresidential real estate rents ³	43-11	06/09	118.2	115.2	116.0	2.5	0.7	-2.7	-0.8	0.7
Nonresidential property sales and leases ³	43-12	12/08	123.3	124.2	124.0	1.8	-0.2	-2.6	-0.7	-0.2
Residential property management fees ³	43-22	12/08	118.1	117.9	118.0	1.7	0.1	0.5	-0.3	0.1
Passenger car rental.	44-1	03/09	85.3	85.5	86.6	5.4	1.3	2.7	-1.2	5.3
Truck, utility trailer, and RV rental and leasing ³	44-2	06/09	109.2	107.8	108.1	1.6	0.3	0.2	-0.3	0.3
Construction, mining, and forestry machinery and equipment rental										
and leasing ³	44-3	03/09	100.1	99.9	100.8	2.4	0.9	0.4	-0.7	0.9
Legal services	45-1	03/09	129.9	135.7	134.5	2.5	-0.9	1.7	-0.1	-1.0
Accounting services (partial)	45-2	06/09	111.4	112.1	111.5	2.1	-0.5	-1.8	0.7	-0.3
Architectural and engineering services ³	45-3	06/09	116.1	117.2	118.4	3.1	1.0	0.1	0.1	1.0
Management, scientific, and technical consulting services	45-4	06/09	104.9	105.2	104.8	-0.1	-0.4	0.7	-0.6	-0.2
Advertising and related services (partial) ³	45-5	12/08	109.3	109.4	109.4	0.4	0.0	0.0	-0.2	0.0
Permanent placement services ³	46-1	03/09	121.3	116.5	115.8	-2.9	-0.6	-0.8	-1.3	-0.6
Executive search services ³	46-2	12/08	93.6	92.9	95.1	0.3	2.4	-0.1	-2.4	2.4
Staffing services	46-3	06/09	112.9	115.6	114.2	1.4	-1.2	0.2	1.8	-1.2
Security guard services ³		03/09	113.4	116.9	116.7	3.8	-0.2	1.0	0.9	-0.2
Janitorial services ³	49-1	03/09	111.2	111.2	111.2	-0.2	0.0	0.0	0.0	0.0
Waste collection.		12/08	128.3	129.6	129.8	0.9	0.2	0.1	-0.2	-0.2
Traveler accommodation services	53-11	06/09	114.5	127.5	116.9	0.4	-8.3	5.3	-1.4	-5.8
Commercial and industrial machinery and equipment repair and maintenance ³	55-1	03/09	122.8	124.5	124.4	2.1	-0.1	0.2	0.4	-0.1
Aircraft repair and maintenance.	55-4	03/09	123.6	124.5	124.4	2.1	-0.1	-0.2	0.4	-0.1 -0.1
Metal treatment services ³	59-1	12/84	188.5	188.0	187.9	0.8	-0.2	-0.2	0.0	-0.1
	00									
Construction for intermediate demand	00.0	11/09	117.4	118.0	119.0	2.9	0.8	-0.1	0.3	0.8
Maintenance and repair of non-residential buildings (partial) ³	80-2	12/10	118.7	119.3	120.3	2.9	8.0	-0.1	0.4	0.8
	l					l				

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

<sup>Territher information about the Final Demand-Intermediate Demand Aggregation system is available online at https://www.bls.gov/ppi/fdidaggregation.htm

The indexes for December 2018 have been recalculated to incorporate late reports and corrections by respondents. All indexes are subject to revision 4 months after original publication.

Not seasonally adjusted.</sup>

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

[&]quot;-" Data not available.

Table 6. Producer price indexes and percent changes for selected commodity groupings of intermediate demand by production flow category [1982=100, unless otherwise indicated]

Grouping	Commodity	Other	Un	adjusted in	dex	change	ed percent to Apr. from:		onally adj	
G.555pg	code	base	Dec. 2018 ²	Mar. 2019 ²	Apr. 2019 ²	Apr. 2018	Mar. 2019	Jan. to Feb.	Feb. to Mar.	Mar. to Apr.
Stage 4 intermediate demand		11/09	117.6	118.5	119.1	2.5	0.5	0.2	0.5	0.3
Stage 4 intermediate demand goods		04/10	112.1	112.9	113.2	1.7	0.3	0.3	0.5	0.1
Grains	01-2		148.0	141.6	141.5	-6.6	-0.1	0.1	-6.3	0.0
Meats	02-21		174.5	174.9	180.5	1.8	3.2	1.1	-2.0	2.8
Unprocessed and packaged fish			335.5	375.5	363.3	-3.3	-3.2	-0.6	4.6	-4.5
Dairy products	1		191.9	196.1	197.8	4.1	0.9	1.6	1.0	1.0
Commercial electric power	1		192.3	195.0	194.0	-0.1	-0.5	1.2	-0.5	0.6
Industrial electric power	1		241.0	241.0	238.0	0.1	-1.2	-0.5	-0.2	0.0
Gasoline	05-71		156.7	180.5	206.6	1.8	14.5	3.3	16.0	5.9
No. 2 diesel fuel	05-73-03		232.7	245.4	241.8	4.3	-1.5	7.2	12.6	-2.1
Basic organic chemicals.	1		260.7 293.2	254.4	252.4	-6.5	-0.8	2.2	0.1 -0.2	-1.1
Prepared paint ³	06-21		181.9	296.8 181.5	295.8 181.4	4.8 0.1	-0.3 -0.1	0.8	0.0	-0.3 -0.1
Biological products, including diagnostics ³	06-37		267.3	275.0	275.5	3.8	0.2	0.0	-0.1	0.2
Pharmaceutical preparations.	06-38	06/01	263.2	268.5	268.9	4.4	0.1	0.7	0.6	0.6
Plastic construction products.	1	00/82	228.0	230.3	230.0	1.8	-0.1	-0.6	-0.1	-0.1
Unsupported plastic film, sheet, and other shapes ³		00/02	222.1	222.3	221.3	-1.4	-0.4	-0.5	0.1	-0.4
Parts for manufacturing from plastics ³			153.1	152.2	152.2	0.4	0.0	-0.5	-0.1	0.0
Plastic packaging products ³		12/06	119.4	118.3	117.8	1.1	-0.4	-1.0	-0.7	-0.4
Lumber.	1	00/82	211.2	215.8	215.8	-9.5	0.0	0.9	0.1	-0.4
Millwork	1		261.8	264.1	264.1	2.7	0.0	0.0	0.5	-0.1
Paper boxes and containers ³			267.9	270.7	269.5	3.2	-0.4	0.1	0.7	-0.4
Commercial printing ³	09-47	06/82	173.7	175.2	175.8	2.9	0.3	0.3	0.2	0.3
Steel mill products ³	10-17		223.0	215.8	212.1	5.8	-1.7	-3.2	0.1	-1.7
Nonferrous wire and cable ³			247.9	252.1	249.1	-0.2	-1.2	-0.9	2.5	-1.2
Fabricated structural metal products	10-7		240.7	242.4	240.7	3.8	-0.7	0.6	0.0	-1.1
Other miscellaneous metal products ³	10-89		165.8	166.8	167.7	3.3	0.5	0.5	-0.1	0.5
Air conditioning and refrigeration equipment	11-48		195.1	199.1	200.7	5.9	0.8	-0.2	0.1	1.1
Wiring devices ³	11-71		234.8	236.2	237.3	2.2	0.5	0.3	0.1	0.5
Electronic components and accessories	1		65.5	65.0	65.1	-1.8	0.2	2.4	0.2	0.2
Miscellaneous electrical machinery and equipment ³	1		127.1	127.1	126.2	2.4	-0.7	0.2	-0.3	-0.7
Internal combustion engines ³	1		168.3	169.0	169.0	0.7	0.0	-0.1	-0.1	0.0
Machine shop products ³	1		193.5	193.5	193.5	2.9	0.0	-0.1	0.0	0.0
Concrete ingredients and related products	1		300.5	306.3	308.6	3.8	0.8	-0.4	0.2	0.3
Concrete products.			265.4	266.9	270.6	2.5	1.4	-0.4	0.0	1.1
Prepared asphalt, tar roofing and siding products ³			248.9	237.4	243.7	7.5	2.7	-0.6	-2.9	2.7
Paving mixtures and blocks ³			317.4 127.2	328.9 127.2	319.7 127.6	6.6 0.7	-2.8 0.3	-0.1 -0.3	-0.8 0.1	-2.8 0.3
Aircraft engines and engine parts.	1	12/85	227.3	229.4	229.3	1.0	0.3	0.4	0.1	-0.2
Aircraft parts and auxiliary equipment, n.e.c.	1	06/85	187.0	187.9	188.0	1.0	0.0	0.4	0.1	-0.2 0.1
Medical, surgical and personal aid devices.	1	00/65	181.5	181.8	182.3	1.0	0.1	-0.1	0.1	0.1
Stage 4 intermediate demand services.	1	04/10	119.5	120.6	121.4	3.2	0.7	0.0	0.4	0.5
Truck transportation of freight ³	1	06/09	125.8	125.1	124.7	3.9	-0.3	-0.3	-0.8	-0.3
Courier, messenger, and U.S. postal services.	1	06/09	140.1	145.7	145.7	4.3	0.0	1.2	0.4	0.3
Airline passenger services.	30-22	12/08	116.7	115.0	118.3	3.0	2.9	-4.2	-1.5	3.6
Warehousing, storage, and related services ³	32-1	12/08	107.2	106.1	107.1	0.2	0.9	-1.4	-0.6	0.9
Advertising space sales in periodicals and newspapers ³		06/09	105.2	105.4	103.2	-2.2	-2.1	-0.5	0.7	-2.1
Data processing and related services ³	38-1	06/09	100.4	101.1	100.6	-0.6	-0.5	-0.5	0.2	-0.5
Business loans (partial)	39-11	04/09	225.9	237.9	240.9	11.6	1.3	0.2	-0.7	-1.9
Deposit services (partial) ³		04/09	66.2	68.9	68.8	8.9	-0.1	-1.1	6.3	-0.1
Securities brokerage, dealing, investment advice, and related services ³	40-1	06/09	159.6	161.1	163.1	5.6	1.2	-0.3	-0.1	1.2
Portfolio management ³	40-2	12/08	210.7	206.7	217.6	3.9	5.3	2.1	1.4	5.3
Investment banking ³		12/08	178.5	178.7	178.6	1.4	-0.1	-1.8	0.4	-0.1
Insurance	1	06/09	122.8	123.1	123.3	1.9	0.2	0.3	0.2	0.0
Annuities ³	41-2	03/09	116.3	116.7	117.1	-0.7	0.3	0.2	0.0	0.3
Nonresidential real estate rents ³	1	06/09	118.2	115.2	116.0	2.5	0.7	-2.7	-0.8	0.7
Nonresidential property sales and leases ³		12/08	123.3	124.2	124.0	1.8	-0.2	-2.6	-0.7	-0.2
Nonresidential property management fees ³	1	12/08	91.5	94.2	95.0	5.2	0.8	-1.7	3.2	0.8
Residential property management fees ³	43-22	12/08	118.1	117.9	118.0	1.7	0.1	0.5	-0.3	0.1
leasing ³	44-3	03/09	100.1	99.9	100.8	2.4	0.9	0.4	-0.7	0.9
Legal services.		03/09	129.9	135.7	134.5	2.5	-0.9	1.7	-0.1 -0.2	-1.0
Advertising agency services ³	1	12/08 06/09	109.3	109.4	109.4	0.4 2.1	0.0	0.0	-0.2 0.7	0.0
Accounting services (partial)	1	06/09	111.4 116.1	112.1 117.2	111.5 118.4	3.1	-0.5 1.0	-1.8 0.1	0.7 0.1	-0.3 1.0
Management, scientific, and technical consulting services	1	06/09	104.9	105.2	104.8	-0.1	-0.4	0.1	-0.6	-0.2
Staffing services	1	06/09	112.9	115.6	114.2	1.4	-0.4	0.7	1.8	-1.2
Claiming Scrivices.	1 70 0	00/09	112.9	113.0	114.4	1.4	-1.2	0.2	1.0	-1.2

Table 6. Producer price indexes and percent changes for selected commodity groupings of intermediate demand by production flow category — Continued [1982=100, unless otherwise indicated]

Grouping	Commodity	Other index	Unadjusted index			Unadjusted percent change to Apr. 2019 from:		Seasonally adjusted percent change from:		
y	code	base	Dec. 2018 ²	Mar. 2019 ²	Apr. 2019 ²	Apr. 2018	Mar. 2019	Jan. to Feb.	Feb. to Mar.	Mar. to Apr.
Janitorial services ³	49-1	03/09	111.2	111.2	111.2	-0.2	0.0	0.0	0.0	0.0
Commercial and industrial machinery and equipment repair and	55-1	02/00	100.0	104 5	104.4	0.1	0.1	0.0	0.4	0.1
maintenance ³	57-11-02	03/09	122.8 122.5	124.5 126.5	124.4 127.6	2.1 6.7	-0.1 0.9	0.2 0.8	0.4 1.1	-0.1 0.9
Building materials, paint, and hardware wholesaling	57-11-02	03/09	99.9	97.0	96.7	1.0	-0.3	-0.6	-1.0	-0.8
Metals, minerals, and ores wholesaling ³	57-4	03/09	161.1	153.0	162.4	-0.2	6.1	0.7	-1.7	6.1
Chemicals and allied products wholesaling ³	57-5	03/09	103.8	110.6	110.4	5.6	-0.2	2.0	1.2	-0.2
Paper and plastics products wholesaling ³	57-6	03/09	133.6	138.8	135.7	4.5	-2.2	-0.3	1.6	-2.2
Food and alcohol wholesaling ³	57-8	06/09	115.3	115.6	115.1	5.4	-0.4	-1.1	8.0	-0.4
Hardware and building materials and supplies retailing	58-D	03/09	125.9	122.5	125.3	0.6	2.3	-3.8	0.0	2.5
Metal treatment services ³	59-1	12/84	188.5	188.0	187.9	0.8	-0.1	-0.6	0.1	-0.1
Stage 3 intermediate demand		11/09	115.8	117.1	118.3	1.9	1.0	0.2	0.8	0.9
Stage 3 intermediate demand goods	1	04/10	105.4	106.9	108.7	1.0	1.7	0.6	1.3	1.3
Slaughter cattle	1		170.0	185.8	181.6	2.1	-2.3	0.5	-1.8	0.1
Slaughter hogs.			68.4	66.7	99.1	52.5	48.6	-13.3	-1.8	55.9
Slaughter poultry	1		219.9	233.4	245.9	-9.7	5.4	-4.6	-7.6	1.9
Raw milk	05-42		125.1 192.3	121.9 195.0	120.2 194.0	-0.2 -0.1	-1.4 -0.5	2.7 1.2	6.5 -0.5	-1.3 0.6
Industrial electric power.	05-42		241.0	241.0	238.0	0.1	-1.2	-0.5	-0.2	0.0
Gasoline.	05-71		156.7	180.5	206.6	1.8	14.5	3.3	16.0	5.9
Jet fuel ³	05-72-03		198.2	209.6	210.1	0.9	0.2	9.5	4.7	0.2
No. 2 diesel fuel	05-73-03		232.7	245.4	241.8	4.3	-1.5	7.2	12.6	-2.1
Finished lubricants ³	05-76		430.6	432.2	427.0	3.4	-1.2	0.7	-0.1	-1.2
Lubricating oil base stocks ³	05-78	06/09	116.5	112.0	114.9	-4.4	2.6	-3.5	3.5	2.6
Asphalt	05-81-02	06/85	205.8	210.0	238.3	28.0	13.5	-8.5	3.4	9.7
Basic inorganic chemicals ³	1		279.0	285.3	283.3	3.1	-0.7	1.5	0.8	-0.7
Basic organic chemicals	1		260.7 286.5	254.4 289.0	252.4 288.3	-6.5 3.1	-0.8 -0.2	2.2 0.8	0.1 -0.9	-1.1 -0.2
Agricultural chemicals and chemical products	1		234.5	236.8	228.3	2.1	-3.6	2.1	-0.7	-4.5
Plastic resins and materials.	06-6		242.4	232.0	217.5	-8.7	-6.3	-1.0	-2.5	-5.5
Synthetic rubber ³	07-11-02		212.0	209.8	212.2	-0.9	1.1	0.0	0.0	1.1
Unsupported plastic film, sheet, and other shapes ³	07-22		222.1	222.3	221.3	-1.4	-0.4	-0.5	0.4	-0.4
Paper ³	09-13		200.8	200.7	202.7	3.8	1.0	0.0	-0.1	1.0
Paperboard ³	09-14		277.3	273.4	272.4	2.2	-0.4	-1.1	-0.3	-0.4
Converted paper and paperboard products ³	09-15	00/00	239.3	241.5	241.1	2.6	-0.2	0.8	-0.5	-0.2
Commercial printing ³	1	06/82	173.7	175.2	175.8	2.9	0.3	0.3	0.2	0.3
Foundry and forge shop products ³	1		211.5 223.0	212.3 215.8	212.4 212.1	1.5 5.8	0.0 -1.7	0.0 -3.2	-0.1 0.1	0.0 -1.7
Nonferrous mill shapes ³	1		213.6	217.4	218.1	-0.1	0.3	1.0	0.6	0.3
Nonferrous foundry shop products	1		216.2	215.9	215.6	-0.8	-0.1	0.1	0.0	-0.2
Metal containers ³	1		163.0	163.6	164.0	2.8	0.2	0.5	0.0	0.2
Structural, architectural, and pre-engineered metal products	10-74		235.7	237.4	234.4	2.3	-1.3	1.5	0.0	-2.0
Bolts, nuts, screws, rivets, and washers ³			204.2	201.7	208.5	8.0	3.4	0.1	0.2	3.4
Other miscellaneous metal products ³	1		165.8	166.8	167.7	3.3	0.5	0.5	-0.1	0.5
General purpose machinery and equipment	1		242.9	246.0	247.0	4.4	0.4	0.0	0.3	0.5
Electrical machinery and equipment			115.8 337.5	116.4	116.8	1.6	0.3 0.4	0.6 -0.7	0.1	0.3
Construction sand, graver, and crushed stone	1		253.1	345.1 255.5	346.6 260.0	3.5	1.8	0.4	0.1 0.7	0.3
Motor vehicle parts ³ .			127.2	127.2	127.6	0.7	0.3	-0.3	0.7	0.0
Aircraft and aircraft equipment.	1		274.3	276.4	276.6	1.6	0.1	0.3	0.1	0.0
Stage 3 intermediate demand services	1	04/10	117.9	119.0	119.3	2.8	0.3	-0.1	0.3	0.3
Rail transportation of freight and mail ³	30-11	12/08	127.4	126.9	128.0	3.6	0.9	-0.3	0.2	0.9
Courier, messenger, and U.S. postal services	30-16	06/09	140.1	145.7	145.7	4.3	0.0	1.2	0.4	0.3
Arrangement of freight and cargo ³		12/08	107.7	107.7	107.7	0.6	0.0	0.0	0.0	0.0
Freight forwarding ³	1	12/08	98.5	98.5	98.5	0.0	0.0	0.0	0.0	0.0
Warehousing, storage, and related services ³	32-1	12/08	107.2	106.1	107.1	0.2	0.9	-1.4	-0.6	0.9
Advertising space sales in periodicals, newspapers, directories, and mailing lists ³	36-1	06/09	103.8	103.9	102.1	-1.8	-1.7	-0.4	0.5	-1.7
Wired telephone services ³	37-1	06/09	117.1	116.7	116.7	0.3	0.0	0.0	-0.2	0.0
Bundled wired telecommunications access services ³	37-5	12/11	107.4	108.7	108.8	4.7	0.1	0.2	0.1	0.1
Data processing and related services ³	38-1	06/09	100.4	101.1	100.6	-0.6	-0.5	-0.5	0.2	-0.5
Business loans (partial)	39-11	04/09	225.9	237.9	240.9	11.6	1.3	0.2	-0.7	-1.9
Deposit services (partial) ³	1	04/09	66.2	68.9	68.8	8.9	-0.1	-1.1	6.3	-0.1
Securities brokerage, dealing, investment advice, and related services ³	40-1	06/09	159.6	161.1	163.1	5.6	1.2	-0.3	-0.1	1.2
Insurance	41-11	06/09	122.8	123.1	123.3	1.9	0.2	0.3	0.2	0.0
		06/09	118.2	115.2	116.0	2.5	0.7	-2.7	-0.8	0.7
Nonresidential real estate rents ³ Legal services	43-11 45-1	03/09	129.9	135.7	134.5	2.5	-0.9	1.7	-0.1	-1.0

Table 6. Producer price indexes and percent changes for selected commodity groupings of intermediate demand by production flow category — Continued [1982=100, unless otherwise indicated]

Grouping	Commodity code	Other index base	Unadjusted index			Unadjusted percent change to Apr. 2019 from:		Seasonally adjusted percent change from:		
J. C. Paris			Dec. 2018 ²	Mar. 2019 ²	Apr. 2019 ²	Apr. 2018	Mar. 2019	Jan. to Feb.	Feb. to Mar.	Mar. to Apr.
Accounting services (partial)	45-2	06/09	111.4	112.1	111.5	2.1	-0.5	-1.8	0.7	-0.3
Architectural and engineering services ³	45-3	06/09	116.1	117.2	118.4	3.1	1.0	0.1	0.1	1.0
Management, scientific, and technical consulting services	1	06/09	104.9	105.2	104.8	-0.1	-0.4	0.7	-0.6	-0.2
Advertising agency services ³	1	12/08	109.3	109.4	109.4	0.4	0.0	0.0	-0.2	0.0
Staffing services	46-3 55-4	06/09 04/09	112.9 123.6	115.6 126.9	114.2 126.6	1.4 2.9	-1.2 -0.2	0.2 -0.2	1.8 0.6	-1.2 -0.1
Parts and supplies for machinery and equipment wholesaling ³		03/09	122.5	126.5	120.6	6.7	0.2	0.8	1.1	0.9
Building materials, paint, and hardware wholesaling	1	03/09	99.9	97.0	96.7	1.0	-0.3	-0.6	-1.0	-0.8
Metals, minerals, and ores wholesaling ³	57-4	03/09	161.1	153.0	162.4	-0.2	6.1	0.7	-1.7	6.1
Chemicals and allied products wholesaling ³	57-5	03/09	103.8	110.6	110.4	5.6	-0.2	2.0	1.2	-0.2
Paper and plastics products wholesaling ³	57-6	03/09	133.6	138.8	135.7	4.5	-2.2	-0.3	1.6	-2.2
Food wholesaling ³	57-81-01	03/09	114.7	114.6	113.9	5.9	-0.6	-1.2	8.0	-0.6
Metal treatment services ³	59-1	12/84	188.5	188.0	187.9	0.8	-0.1	-0.6	0.1	-0.1
Stage 2 intermediate demand		11/09	109.3	107.4	107.8	0.4	0.4	-1.6	1.1	0.5
Stage 2 intermediate demand goods		04/10	95.5	90.2	90.7	-1.9	0.6	-3.9	2.2	0.7
Corn	01-22-02		145.6	140.3	141.0	-5.0	0.5	-0.8	-6.1	0.6
Oilseeds	01-83		162.0	156.4	160.3	-15.3	2.5	3.8	-6.1	1.9
Prepared animal feeds	02-9		188.4	189.5	189.1	-5.0	-0.2	-1.1	-0.9	-0.6
Coal.	1		201.0	201.4	201.0	1.0	-0.2	-1.6	-0.4	0.1
Natural gas ³	1		165.5	101.7	92.9	-3.2	-8.7	-25.8	1.3	-8.7
Liquefied petroleum gas ³	1		144.5	136.7	122.1	-31.7	-10.7	5.4	-3.3	-10.7
Crude petroleum ³	1		136.7	160.9	183.2	-1.1	13.9	2.6	15.3	13.9
No. 2 diesel fuel	05-73-03 06-1		232.7 262.4	245.4 257.9	241.8 255.9	4.3 -5.2	-1.5 -0.8	7.2 2.1	12.6 0.2	-2.1 -1.0
Plastic resins and materials.	06-6		242.4	232.0	217.5	-8.7	-6.3	-1.0	-2.5	-5.5
Plastic products ³	07-2		210.2	209.5	208.7	0.7	-0.4	-0.6	0.0	-0.4
Logs, bolts, timber, pulpwood, and wood chips.	08-5		245.9	243.6	242.2	-2.0	-0.6	0.3	0.2	-0.3
Paper ³	09-13		200.8	200.7	202.7	3.8	1.0	0.0	-0.1	1.0
Paperboard, excluding corrugated paperboard ³	09-14-11	12/82	291.5	286.5	285.3	1.8	-0.4	-1.3	-0.3	-0.4
Commercial printing ³	09-47	06/82	173.7	175.2	175.8	2.9	0.3	0.3	0.2	0.3
Iron and steel scrap ³	10-12		516.8	489.1	474.1	-15.7	-3.1	-4.1	5.9	-3.1
Steel mill products ³	1		223.0	215.8	212.1	5.8	-1.7	-3.2	0.1	-1.7
Nonferrous mill shapes ³	1		213.6	217.4	218.1	-0.1	0.3	1.0	0.6	0.3
Electrical machinery and equipment	1		115.8	116.4	116.8	1.6	0.3	0.6	0.1	0.3
Electronic components and accessories.	1	04/40	65.5	65.0	65.1	-1.8	0.2	2.4	0.2	0.2
Stage 2 intermediate demand services	1	04/10 12/08	117.4 127.4	118.9 126.9	119.2 128.0	2.1 3.6	0.3 0.9	0.2 -0.3	0.4 0.2	0.3 0.9
Truck transportation of freight ³	30-11	06/09	125.8	125.1	124.7	3.9	-0.3	-0.3	-0.8	-0.3
Pipeline transportation of petroleum products ³	30-15-01	12/08	155.6	156.0	156.0	2.6	0.0	0.0	0.0	0.0
U.S. Postal Service.	30-16-01	06/89	222.0	229.6	229.6	3.4	0.0	1.7	0.2	0.4
Courier and messenger services, except air	30-16-02	04/09	154.7	161.3	161.1	4.8	-0.1	0.6	0.8	0.2
Air mail and package delivery services, excluding by USPS	30-16-03	04/09	169.0	177.7	178.1	5.4	0.2	1.5	1.0	0.5
Airline passenger services	30-22	12/08	116.7	115.0	118.3	3.0	2.9	-4.2	-1.5	3.6
Arrangement of freight and cargo ³	31-31	12/08	107.7	107.7	107.7	0.6	0.0	0.0	0.0	0.0
Television advertising time sales	36-21	06/09	110.7	109.7	110.2	0.5	0.5	0.0	1.8	0.1
Wireless telecommunication services ³		06/09	65.0	64.1	65.1	0.6	1.6	-0.5	-0.5	1.6
Data processing and related services ³	1	06/09	100.4	101.1	100.6	-0.6	-0.5	-0.5	0.2	-0.5
Securities brokerage, dealing, investment advice, and related services ³		06/09	159.6	161.1	163.1	5.6	1.2	-0.3	-0.1	1.2
Portfolio management ³	1	12/08	210.7	206.7	217.6	3.9	5.3	2.1	1.4	5.3
Investment banking	1	12/08 06/09	178.5 122.8	178.7 123.1	178.6 123.3	1.4 1.9	-0.1 0.2	-1.8 0.3	0.4 0.2	-0.1 0.0
Commissions from sales of insurance ³		06/09	107.5	107.6	107.7	0.7	0.2	0.3	0.2	0.0
Legal services.	1	03/09	129.9	135.7	134.5	2.5	-0.9	1.7	-0.1	-1.0
Accounting services (partial).		06/09	111.4	112.1	111.5	2.1	-0.5	-1.8	0.7	-0.3
Management, scientific, and technical consulting services	1	06/09	104.9	105.2	104.8	-0.1	-0.4	0.7	-0.6	-0.2
Advertising agency services ³	45-51	12/08	109.3	109.4	109.4	0.4	0.0	0.0	-0.2	0.0
Staffing services	46-3	06/09	112.9	115.6	114.2	1.4	-1.2	0.2	1.8	-1.2
Security guard services ³		03/09	113.4	116.9	116.7	3.8	-0.2	1.0	0.9	-0.2
Janitorial services ³	1	03/09	111.2	111.2	111.2	-0.2	0.0	0.0	0.0	0.0
Traveler accommodation services.	53-1	06/09	114.5	127.5	116.9	0.4	-8.3	5.3	-1.4	-5.8
Commercial and industrial machinery and equipment repair and	EE 4	02/00	100.0	1045	104.4	0.1	0.4	0.0	0.4	0.1
maintenance ³	55-1 58-D	03/09	122.8 125.9	124.5 122.5	124.4 125.3	2.1 0.6	-0.1 2.3	0.2 -3.8	0.4 0.0	-0.1 2.5
Stage 1 intermediate demand	1	11/09	116.1	116.2	116.4	0.6	0.2	0.1	1.1	0.0
Oleman A. Salaman a Walandaman I		04/10	99.8	99.3	99.1	-1.5	-0.2	0.3	1.8	-0.4
Stage 1 intermediate demand goods	1	04/10				1				
Stage 1 intermediate demand goods. Prepared animal feeds. Commercial electric power.	1	04/10	188.4 192.3	189.5 195.0	189.1 194.0	-5.0 -0.1	-0.2 -0.5	-1.1 1.2	-0.9 -0.5	-0.6 0.6

Table 6. Producer price indexes and percent changes for selected commodity groupings of intermediate demand by production flow category — Continued [1982=100, unless otherwise indicated]

Grouping	Commodity code	Other index	Unadjusted index			Unadjusted percent change to Apr. 2019 from:		Seasonally adjusted percent change from:		
	code	base	Dec. 2018 ²	Mar. 2019 ²	Apr. 2019 ²	Apr. 2018	Mar. 2019	Jan. to Feb.	Feb. to Mar.	Mar. to Apr.
Industrial electric power	05-43		241.0	241.0	238.0	0.1	-1.2	-0.5	-0.2	0.0
Commercial natural gas	05-52	12/90	203.0	198.7	193.1	1.4	-2.8	-1.4	2.3	-1.4
Industrial natural gas	05-53	12/90	176.5	155.3	149.7	-4.0	-3.6	-3.9	-1.2	-1.3
Gasoline	05-71		156.7	180.5	206.6	1.8	14.5	3.3	16.0	5.9
No. 2 diesel fuel	05-73-03		232.7	245.4	241.8	4.3	-1.5	7.2	12.6	-2.1
Industrial chemicals	06-1		262.4	257.9	255.9	-5.2	-0.8	2.1	0.2	-1.0
Prepared paint ³	06-21		293.2	296.8	295.8	4.8	-0.3	0.8	-0.2	-0.3
Plastic construction products	07-21		228.0	230.3	230.0	1.8	-0.1	-0.6	-0.1	-0.1
Wastepaper ³	09-12		276.4	227.6	205.5	-21.7	-9.7	-7.3	-7.2	-9.7
Paper ³	09-13		200.8	200.7	202.7	3.8	1.0	0.0	-0.1	1.0
Converted paper and paperboard products ³	09-15		239.3	241.5	241.1	2.6	-0.2	0.8	-0.5	-0.2
Iron and steel scrap ³			516.8	489.1	474.1	-15.7	-3.1	-4.1	5.9	-3.1
Steel mill products ³			223.0	215.8	212.1	5.8	-1.7	-3.2	0.1	-1.7
Primary nonferrous metals ³			184.7	189.4	187.2	-6.6	-1.2	2.2	1.1	-1.2
Nonferrous scrap	10-23		345.6	362.1	371.0	-0.4	2.5	2.6	1.0	2.2
Nonferrous wire and cable ³			247.9	252.1	249.1	-0.2	-1.2	-0.9	2.5	-1.2
Fabricated structural metal products.	l		240.7	242.4	240.7	3.8	-0.7	0.6	0.0	-1.1
General purpose machinery and equipment	1		242.9	246.0	247.0	4.4	0.4	0.0	0.3	0.5
Construction sand, gravel, and crushed stone	l		337.5	345.1	346.6	4.0	0.4	-0.7	0.1	0.3
Stage 1 intermediate demand services.	1.0 2.	04/10	121.5	122.3	123.0	3.3	0.6	-0.2	0.2	0.6
Truck transportation of freight ³	30-12	06/09	125.8	125.1	124.7	3.9	-0.3	-0.3	-0.8	-0.3
Airline passenger services.	30-22	12/08	116.7	115.0	118.3	3.0	2.9	-4.2	-1.5	3.6
Advertising space sales in periodicals, newspapers, directories, and	00 22	12/00	110.7	110.0	110.0	0.0	2.5	7.2	1.5	0.0
mailing lists ³	36-1	06/09	103.8	103.9	102.1	-1.8	-1.7	-0.4	0.5	-1.7
Business wired telecommunication services ³	37-12	06/09	101.7	101.7	101.5	-0.4	-0.2	0.1	0.1	-0.2
Wireless telecommunication services ³	37-2	06/09	65.0	64.1	65.1	0.6	1.6	-0.5	-0.5	1.6
Bundled wired telecommunications access services ³	37-5	12/11	107.4	108.7	108.8	4.7	0.1	0.2	0.1	0.1
Business loans (partial)	39-11	04/09	225.9	237.9	240.9	11.6	1.3	0.2	-0.7	-1.9
Deposit services (partial) ³	39-2	04/09	66.2	68.9	68.8	8.9	-0.1	-1.1	6.3	-0.1
Securities brokerage, dealing, investment advice, and related services ³	40-1	06/09	159.6	161.1	163.1	5.6	1.2	-0.3	-0.1	1.2
Portfolio management ³	40-2	12/08	210.7	206.7	217.6	3.9	5.3	2.1	1.4	5.3
Investment bankinq ³		12/08	178.5	178.7	178.6	1.4	-0.1	-1.8	0.4	-0.1
Insurance.	41-11	06/09	122.8	123.1	123.3	1.9	0.2	0.3	0.2	0.0
Nonresidential real estate rents ³	43-11	06/09	118.2	115.2	116.0	2.5	0.7	-2.7	-0.8	0.7
Architectural and engineering services ³	45-3	06/09	116.1	117.2	118.4	3.1	1.0	0.1	0.1	1.0
Management consulting services.	45-41	06/09	104.9	105.2	104.8	-0.1	-0.4	0.7	-0.6	-0.2
Waste collection.	50-1	12/08	128.3	129.6	129.8	0.9	0.2	0.1	-0.2	-0.2
Traveler accommodation services.	53-11	06/09	114.5	127.5	116.9	0.4	-8.3	5.3	-1.4	-5.8
Commercial and industrial machinery and equipment repair and maintenance ³ .	55-1	03/09	122.8	124.5	124.4	2.1	-0.1	0.2	0.4	-0.1
Parts and supplies for machinery and equipment wholesaling ³	57-11-02	03/09	122.6	124.5	124.4	6.7	0.9	0.2	1.1	0.9
Building materials, paint, and hardware wholesaling	57-11-02	03/09	99.9	97.0	96.7	1.0	-0.3	-0.6	-1.0	-0.8
Metals, minerals, and ores wholesaling ³	57-3	03/09	161.1	153.0	162.4	-0.2	-0.3 6.1	0.7	-1.0 -1.7	-0.6 6.1
Chemicals and allied products wholesaling ³	57-4	03/09	103.8			5.6	-0.2	2.0	1.2	
Chemicals and allied products wholesaling ³				110.6	110.4					-0.2
	57-6	03/09	133.6	138.8	135.7	4.5	-2.2	-0.3	1.6	-2.2
	l - 0 D	00/00	40-0							
Hardware and building materials and supplies retailing. Mining services ³ .	58-D 60-1	03/09 06/85	125.9 236.2	122.5 234.8	125.3 234.8	0.6 1.2	2.3 0.0	-3.8 -0.3	0.0 -0.2	2.5 0.0

¹ Further information about the Final Demand-Intermediate Demand Aggregation system is available online at https://www.bls.gov/ppi/fdidaggregation.htm

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

The indexes for December 2018 have been recalculated to incorporate late reports and corrections by respondents. All indexes are subject to revision 4 months after original publication.

3 Not seasonally adjusted.

[&]quot;-" Data not available.

Table 7. Producer price indexes for selected final demand and intermediate demand categories, seasonally adjusted

[Nov 2009=100, unless otherwise indicated]

[Nov 2009=100, unless otherwise indicated]		Index ¹							
Grouping	index base	Nov. 2018	Dec. 2018	Jan. 2019	Feb. 2019	Mar. 2019	Apr. 2019		
Final demand		117.4	117.3	117.1	117.2	117.9	118.1		
Final demand goods		115.7	115.0	114.2	114.6	115.8	116.1		
Final demand foods		117.3	119.8	118.3	118.0	118.4	118.2		
Final demand energy		109.7	103.3	99.8	101.6	107.3	109.2		
Final demand goods less foods and energy		117.1	117.1	117.3	117.4	117.6	117.6		
Final demand services.		117.8	118.0	118.1	118.1	118.5	118.6		
Final demand trade services.		118.3	119.1	119.4	118.9	120.2	119.6		
Final demand transportation and warehousing services		125.6	125.4	126.0	124.4	123.4	124.6		
Final demand services less trade, transportation, and warehousing		116.8	116.8	116.8	117.2	117.2	117.6		
Intermediate demand by commodity type									
Processed goods for intermediate demand	00/82	203.3	200.8	198.3	199.0	200.5	200.3		
Materials and components for manufacturing	00/82	189.6	188.0	186.6	186.6	186.5	185.5		
Materials and components for construction	00/82	249.8	250.6	251.1	251.2	251.5	251.3		
Processed fuels and lubricants for intermediate demand	00/82	193.4	184.7	175.0	177.8	185.4	186.7		
Containers for intermediate demand	00/82	235.9	236.2	236.6	237.1	237.8	237.3		
Supplies for intermediate demand	00/82	200.0	200.1	200.6	201.0	201.0	201.0		
Unprocessed goods for intermediate demand	00/82	196.7	203.9	194.4	185.4	189.7	194.8		
Unprocessed foodstuffs and feedstuffs	00/82	162.9	165.9	164.1	162.5	158.8	164.7		
Unprocessed nonfood materials except fuel.	00/82	246.9	234.1	230.7	232.6	249.4	263.5		
Unprocessed fuel.	00/82	149.0	184.4	158.2	126.6	127.5	119.7		
Services for intermediate demand.	00/02	120.0	120.1	120.4	120.3	120.8	121.2		
Trade services for intermediate demand.		121.9	122.2	122.6	122.5	123.5	124.4		
Transportation and warehousing services for intermediate demand		127.5	127.4	127.7	127.6	127.4	128.2		
Services less trade, transportation, and warehousing for intermediate demand		118.1	118.3	118.4	118.4	118.8	119.1		
Intermediate demand by production flow									
Stage 4 intermediate demand		118.1	118.1	117.9	118.1	118.7	119.1		
Inputs to stage 4 goods producers.		114.5	114.7	114.7	114.8	114.9	115.1		
Inputs to stage 4 services producers		119.3	119.6	119.6	119.7	120.2	120.8		
Inputs to stage 4 construction producers.		120.5	119.5	118.7	119.0	120.2	120.7		
Stage 3 intermediate demand.		118.2	116.8	116.7	116.2	117.1	118.1		
Inputs to stage 3 goods producers.		120.6	119.6	119.0	118.8	118.7	119.9		
		116.5	114.9	114.1	114.6	116.7	117.0		
Inputs to stage 3 services producers		121.0	114.9	107.2	110.3	117.2	116.5		
Stage 2 intermediate demand.		108.7	109.6	107.2	105.9	107.1	107.6		
Inputs to stage 2 goods producers.		100.7	103.1	99.1	95.3	97.2	97.8		
		116.3	116.2	116.2	116.5	117.0	117.4		
Inputs to stage 2 services producers.									
Stage 1 intermediate demand.		118.2	117.0 113.2	115.0	115.1 110.3	116.4	116.4 111.1		
Inputs to stage 1 goods producers.		114.7		110.5		111.3			
Inputs to stage 1 services producers		121.6	120.5	119.0	119.4	121.1	121.2		
Inputs to stage 1 construction producers		120.7	120.0	119.8	119.7	120.7	121.5		
Special groupings									
Final demand less foods and energy	04/10	116.5	116.7	116.8	116.9	117.2	117.3		
Final demand less foods.	04/10	115.7	115.4	115.3	115.5	116.1	116.4		
Final demand less energy	04/10	116.4	116.7	116.7	116.7	117.0	117.1		
Total finished ²	01/10	116.7	116.7	116.5	116.6	117.3	117.5		
Total exports	04/10	113.7	113.5	113.1	113.3	113.6	113.8		
Total Government purchases	04/10	112.7	111.9	111.7	112.1	112.8	113.3		
Total private capital investment (goods, services, and construction)	04/10	115.6	115.7	116.4	116.4	116.5	117.0		
Finished goods ²	00/82	205.0	203.9	202.6	203.1	205.9	206.7		
Processed materials less foods and feeds.	00/82	204.6	201.8	198.9	199.7	201.5	201.1		
Processed foods and feeds.	00/82	189.9	190.9	191.9	191.8	191.2	192.3		
Processed energy goods.	00/82	194.3	185.5	175.8	178.6	186.3	187.5		
Processed materials less foods and energy	00/82	204.2	203.1	202.3	202.5	202.5	201.7		
					202.5				
Unprocessed materials less agricultural products	00/82	214.8	225.6	210.3	194.7	205.4	209.6		
Unprocessed energy materials	00/82	164.6	176.0	160.1	142.9	153.4	159.1		
Unprocessed nonfood materials less energy	00/82	335.5	340.3	334.5	332.2	336.1	331.9		
Total goods inputs to stage 4 intermediate demand	04/10	113.1	112.7	112.3	112.6	113.2	113.3		
Total services inputs to stage 4 intermediate demand	04/10	119.5	119.9	120.1	120.1	120.6	121.2		
Total goods inputs to stage 3 intermediate demand.	04/10	109.8	106.9	105.0	105.6	107.0	108.4		
Total services inputs to stage 3 intermediate demand.	04/10	118.0	118.3	118.6	118.5	118.9	119.3		
Total goods inputs to stage 2 intermediate demand	04/10	93.9	95.7	91.7	88.1	90.0	90.6		
							119.0		
• •	04/40	1170	1170						
Total services inputs to stage 2 intermediate demand	04/10	117.9	117.8	117.9	118.1	118.6			
• •	04/10 04/10 04/10	117.9 102.7 121.8	117.8 100.6 122.1	117.9 97.5 122.3	97.8 122.0	99.6 122.2	99.2 122.9		

¹ All seasonally adjusted indexes are subject to change up to 5 years after original publication due to the recalculation of seasonal factors each January. The indexes for December 2018 have been recalculated to incorporate late reports and corrections by respondents.
² PPI defines Total finished as including only the personal consumption and private capital investment portions of final demand.

Table 8. Producer price indexes for selected commodity groupings, not seasonally adjusted [1982=100, unless otherwise indicated]

Grouping	Commodity	Other index		Index	Percent change to Apr. 2019 from:		
	code	base	Dec. 2018 ¹	Mar. 2019 ¹	Apr. 2019 ¹	Apr. 2018	Mar. 2019
Coods							
Goods All commodities.			201.0	201.1	202.1	0.9	0.5
Farm products, processed foods and feeds.			192.5	191.5	193.0	-0.1	0.8
Farm products.	01		165.9	159.0	161.0	-1.6	1.3
Processed foods and feeds	02		205.6	207.5	208.7	0.5	0.6
Industrial commodities.			202.3	202.6	203.5	1.1	0.4
Textile products and apparel	03		151.1	150.8	150.6	1.5	-0.1
Hides, skins, leather, and related products	04		171.3	173.3	172.0	-7.4	-0.8
Fuels and related products and power	05		172.7	172.3	176.9	0.5	2.7
Chemicals and allied products	06		293.0	292.5	289.3	-1.1	-1.1
Rubber and plastic products	07		196.9	196.6	196.0	0.8	-0.3
Lumber and wood products	08		236.8	239.4	239.2	-2.3	-0.1
Pulp, paper, and allied products	09		262.2	261.2	261.0	1.4	-0.1
Metals and metal products	10		227.2	227.2	225.9	1.5	-0.6
Machinery and equipment	11		141.8	142.9	143.2	2.6	0.2
Furniture and household durables	12		173.9	175.7	175.4	2.7	-0.2
Nonmetallic mineral products.	13		249.8	251.5	252.8	2.8	0.5
Transportation equipment	14		182.6	182.7	182.8	1.2	0.1
Miscellaneous products	15		267.2	272.1	272.8	3.6	0.3
Industrial commodities less fuels.			207.8	208.4	207.9	1.2	-0.2
Other commodity groupings	057		183.8	200.4	010.0	2.5	6.2
Petroleum products, refined	061		262.4	257.9	212.9 255.9	-5.2	-0.8
Rubber and rubber products.	071		179.8	180.6	180.6	0.9	0.0
Lumber	081		211.2	215.8	215.8	-9.5	0.0
Iron and steel.	101		245.8	238.1	234.1	0.0	-1.7
Nonferrous metals.	102		241.5	249.0	248.7	-0.7	-0.1
General purpose machinery and equipment.	1		242.9	246.0	247.0	4.4	0.4
Electrical machinery and equipment.	117		115.8	116.4	116.8	1.6	0.3
Electronic components and accessories.	1178		65.5	65.0	65.1	-1.8	0.2
Aircraft and aircraft equipment	142		274.3	276.4	276.6	1.6	0.1
Services and construction							
Transportation services	30	06/09	130.9	131.3	132.1	3.9	0.6
Services related to transportation activities	31	06/09	113.6	114.0	114.4	1.1	0.4
Warehousing, storage, and related activities	32	12/08	107.2	106.1	107.1	0.2	0.9
Publishing sales, excluding software	33	06/09	118.3	121.1	121.5	2.6	0.3
Software publishing	1	06/09	90.5	90.9	92.2	1.5	1.4
Network compensation from broadcast and cable television and radio	35	06/09	137.2	143.0	142.7	3.2	-0.2
Advertising space and time sales.	1	06/09	99.0	98.1	98.3	0.0	0.2
Telecommunication, cable, and internet user services.	37	06/09	101.2	101.6	102.1	2.3	0.5
Data processing and related services.		06/09	100.4	101.1	100.6	-0.6	-0.5
Credit intermediation services (partial)	1	06/09	94.4	96.8	97.6	6.8	0.8
Investment services. Insurance and annuities.	40	06/09	174.4 121.5	173.3 121.9	178.8 122.1	4.2 1.6	3.2 0.2
Commissions and fees from sales and administration of insurance policies (partial)	42	06/09	107.5	121.9	107.7	0.7	0.2
Real estate services (partial)	43	06/09	125.0	123.5	107.7	2.6	0.1
Rental and leasing of goods (partial).	1 -	06/09	95.0	94.6	95.5	3.4	1.0
Professional services (partial).	1	06/09	118.4	120.7	120.5	1.9	-0.2
Employment services.	1 -	06/09	113.0	115.2	113.9	1.2	-1.1
Travel arrangement services.	1	06/09	103.3	106.0	106.8	3.2	0.8
Selected security services (partial).	1	03/09	113.4	116.9	116.7	3.8	-0.2
Cleaning and building maintenance services (partial)	1	03/09	111.2	111.2	111.2	-0.2	0.0
Waste collection and remediation services (partial).	1	12/08	128.3	129.6	129.8	0.9	0.2
Health care services.		06/09	119.7	119.9	120.3	1.7	0.3
Accommodation services	1	06/09	114.5	127.5	116.9	0.4	-8.3
Food and beverages for immediate consumption services (partial)	1	06/09	118.5	119.3	119.5	-1.2	0.2
Repair and maintenance services (partial)	1	06/09	127.2	128.4	128.5	1.7	0.1
Entertainment services (partial)	56	06/09	115.6	117.8	117.4	3.1	-0.3
Wholesale trade services	57	06/09	119.9	122.1	122.5	4.1	0.3
Retail trade services	58	06/09	118.7	119.7	118.9	2.2	-0.7
Metal treatment services.	59	12/84	188.5	188.0	187.9	0.8	-0.1
	60	06/85	236.2	234.8	234.8	1.2	0.0
Mining services	100	00,00				1.2	0.0
Mining services. Contract work on textile products, apparel, and leather	61	06/10	112.0	114.8	114.4	3.9	-0.3

¹ The indexes for December 2018 have been recalculated to incorporate late reports and corrections by respondents. All indexes are subject to revision 4 months after original publication.
"-" Data not available.

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