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## PRODUCER PRICE INDEXES – APRIL 2017

The Producer Price Index for final demand advanced 0.5 percent in April, seasonally adjusted, the U.S. Bureau of Labor Statistics reported today. Final demand prices edged down 0.1 percent in March and climbed 0.3 percent in February. (See table A.) On an unadjusted basis, the final demand index rose 2.5 percent for the 12 months ended April 2017, the largest increase since moving up 2.8 percent for the 12 months ended February 2012.

In April, almost two-thirds of the advance in the final demand index is attributable to prices for final demand services, which moved up 0.4 percent. The index for final demand goods climbed 0.5 percent.

Prices for final demand less foods, energy, and trade services increased 0.7 percent in April. For the 12 months ended in April, the index for final demand less foods, energy, and trade services climbed 2.1 percent.

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

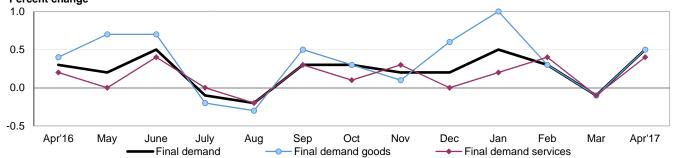
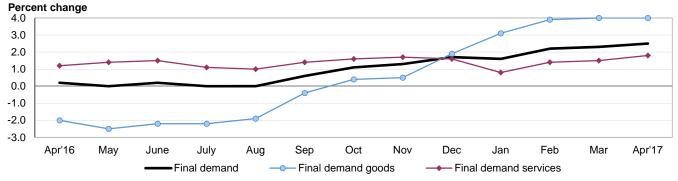


Chart 2. Twelve-month percent changes in selected PPI final demand price indexes, not seasonally adjusted



#### **Final Demand**

**Final demand services:** The index for final demand services moved up 0.4 percent in April after edging down 0.1 percent in March. Most of the increase can be traced to prices for final demand services less trade, transportation, and warehousing, which advanced 0.8 percent. The index for final demand transportation and warehousing services increased 0.7 percent. Conversely, margins for final demand trade services moved down 0.3 percent. (Trade indexes measure changes in margins received by wholesalers and retailers.)

*Product detail:* Over a quarter of the April advance in the index for final demand services is attributable to prices for securities brokerage, dealing, investment advice, and related services, which increased 6.6 percent. The indexes for guestroom rental; loan services (partial); machinery, equipment, parts, and supplies wholesaling; portfolio management; and airline passenger services also moved higher. In contrast, margins for fuels and lubricants retailing dropped 14.6 percent. The indexes for food and alcohol retailing and for deposit services (partial) also fell. (See table 4.)

**Final demand goods:** Prices for final demand goods increased 0.5 percent in April following a 0.1-percent decline in March. Nearly 40 percent of the broad-based advance can be attributed to the index for final demand goods less foods and energy, which rose 0.3 percent. The indexes for final demand foods and final demand energy climbed 0.9 percent and 0.8 percent, respectively.

*Product detail:* In April, the index for cigarettes moved up 2.2 percent. Prices for gasoline, fresh and dry vegetables, fresh fruits and melons, residential natural gas, and pharmaceutical preparations also advanced. Conversely, the index for jet fuel fell 6.1 percent. Prices for carbon steel scrap and oilseeds also declined.

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

		Final demand	Final demand goods					inal den	nand servic	es	Change in final	Change in final demand less
Tota Month fina dema		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.)
2016												
Apr	0.3	0.3	0.4	-0.4	1.8	0.3	0.2	0.2	-0.1	0.3	0.2	1.0
Мау	0.2	-0.1	0.7	0.4	2.9	0.2	0.0	0.2	-0.5	-0.1	0.0	1.0
June	0.5	0.2	0.7	0.4	2.7	0.2	0.4	0.7	0.1	0.2	0.2	1.0
July	-0.1	0.2	-0.2	-0.7	-0.3	0.0	0.0	-0.8	0.4	0.4	0.0	1.0
Aug	-0.2	0.1	-0.3	-1.1	-0.9	0.2	-0.2	-0.7	-0.3	0.1	0.0	1.2
Sept	0.3	0.1	0.5	0.5	1.5	0.1	0.3	0.7	-0.7	0.2	0.6	1.3
Oct	0.3	0.1	0.3	-0.8	2.7	0.0	0.1	0.4	0.8	0.0	1.1	1.5
Nov	0.2	0.2	0.1	-0.6	0.2	0.3	0.3	0.2	0.4	0.2	1.3	1.8
Dec.1	0.2	0.3	0.6	0.8	1.9	0.3	0.0	-0.4	1.1	0.1	1.7	1.8
2017												
Jan.¹	0.5	0.0	1.0	0.5	4.3	0.4	0.2	0.9	0.1	-0.2	1.6	1.6
Feb	0.3	0.3	0.3	0.3	0.6	0.1	0.4	0.4	0.3	0.5	2.2	1.8
Mar	-0.1	0.1	-0.1	0.9	-2.9	0.4	-0.1	-0.1	-0.2	-0.1	2.3	1.7
Apr	0.5	0.7	0.5	0.9	0.8	0.3	0.4	-0.3	0.7	0.8	2.5	2.1

Some of the figures shown above and elsewhere in this release may differ from those previously reported because data for December 2016 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 increased 0.5 percent, the index for unprocessed goods rose 3.3 percent, and prices for services climbed 0.9 percent. (See tables B and C.)

**Processed goods for intermediate demand:** The index for processed goods for intermediate demand advanced 0.5 percent in April, the eighth consecutive increase. About two-thirds of the April rise is attributable to prices for processed materials less foods and energy, which also moved up 0.5 percent. Additionally, the index for processed energy goods climbed 1.3 percent. In contrast, prices for processed foods and feeds declined 0.6 percent. For the 12 months ended in April, the index for processed goods for intermediate demand rose 5.4 percent, the largest advance since increasing 5.7 percent for the 12 months ended December 2011.

*Product detail*: In April, the index for plastic resins and materials climbed 1.8 percent. Prices for utility natural gas, gasoline, paperboard, steel pipe and tube, and softwood lumber also moved higher. Conversely, the index for prepared animal feeds fell 1.3 percent. Prices for primary basic organic chemicals and jet fuel also decreased. (See table 5.)

**Unprocessed goods for intermediate demand:** The index for unprocessed goods for intermediate demand rose 3.3 percent in April following a 4.2-percent drop in March. The increase can be traced to prices for unprocessed energy materials, which jumped 14.1 percent. In contrast, the indexes for unprocessed foodstuffs and feedstuffs and for unprocessed nonfood materials less energy declined 2.3 percent and 0.7 percent, respectively. For the 12 months ended in April, prices for unprocessed goods for intermediate demand climbed 13.9 percent.

*Product detail*: About 70 percent of the April advance in the index for unprocessed goods for intermediate demand is attributable to a 15.7-percent rise in crude petroleum prices. The indexes for natural gas, fresh fruits and melons, fresh vegetables (except potatoes), coal, and gold ores also moved higher. Conversely, prices for slaughter barrows and gilts fell 12.7 percent. The indexes for oilseeds and carbon steel scrap also decreased.

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

	Process	sed good	s for inte	rmediate	demand	Unprod	cessed (	oods for in	termediate	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.)
2016										
<b>A</b> pr	0.4	-0.4	1.4	0.3	-4.6	2.2	-2.1	8.3	3.6	-13.0
Мау	0.8	1.0	2.9	0.3	-4.5	2.9	-0.4	7.6	3.4	-12.8
June	0.8	1.3	3.5	0.2	-4.1	2.5	1.3	6.4	-0.2	-10.8
July	0.2	-0.4	0.6	0.1	-3.7	0.8	-2.1	5.6	0.6	-7.6
<b>A</b> ug	-0.1	-1.1	-1.3	0.3	-3.0	-2.1	-2.1	-4.0	0.3	-6.5
Sept	0.3	-0.3	1.7	0.1	-1.3	-0.6	-2.1	2.7	-2.0	-4.9
Oct	0.3	-0.9	1.5	0.2	-0.6	-0.7	-5.9	5.8	-1.3	-4.4
Nov	0.2	-0.3	-0.1	0.4	0.1	0.6	5.2	-5.8	2.5	1.0
Dec.1	0.6	1.3	1.3	0.4	1.8	7.3	4.8	13.4	3.4	13.0
2017										
Jan. <sup>1</sup>	1.1	0.6	5.2	0.2	3.8	4.0	1.0	8.9	3.1	17.6
Feb	0.4	-0.1	0.6	0.5	5.0	-0.2	2.2	-4.3	1.4	19.4
Mar	0.1	0.6	-2.7	0.7	5.3	-4.2	0.8	-14.6	2.0	12.7
<b>A</b> pr	0.5	-0.6	1.3	0.5	5.4	3.3	-2.3	14.1	-0.7	13.9

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**Services for intermediate demand:** The index for services for intermediate demand moved up 0.9 percent in April, the largest increase since a 1.3-percent jump in January 2016. Eighty percent of the broad-based April advance can be traced to a 1.0-percent rise in prices for services less trade, transportation, and warehousing for intermediate demand. The indexes for trade services for intermediate demand and for transportation and warehousing services for intermediate demand also increased 0.7 percent and 0.4 percent, respectively. For the 12 months ended in April, prices for services for intermediate demand climbed 2.6 percent.

*Product detail:* A major factor in the April increase in prices for services for intermediate demand was the index for loan services (partial), which rose 4.5 percent. The indexes for securities, brokerage, dealing, investment advice, and related services; portfolio management; machinery and equipment parts and supplies wholesaling; chemicals and allied products wholesaling; and airline passenger services also moved higher. In contrast, margins for hardware, building materials, and supplies retailing declined 3.4 percent. The indexes for fuels and lubricants retailing and for deposit services (partial) also fell.

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

	***************************************	·····	es for intermediate o	lemand	
Month	Total	Trade	Transportation and warehousing	Other	Total, change from 12 months ago (unadj.)
2016					
Apr	0.0	-0.1	-0.4	0.1	1.1
May	-0.1	0.3	-0.1	-0.3	1.1
June	0.4	1.1	0.2	0.4	1.4
July	0.4	0.2	0.3	0.5	1.7
Aug	-0.2	-1.6	0.0	0.2	1.3
Sept	-0.1	-0.3	-0.7	0.1	1.8
Oct	0.1	-0.2	0.3	0.0	2.4
Nov	0.4	0.0	0.3	0.6	2.6
Dec.1	0.2	1.1	0.7	-0.2	2.6
2017					
Jan.1	0.2	-0.1	-0.1	0.4	1.5
Feb	0.5	0.6	0.6	0.5	2.0
Mar	-0.2	0.3	0.3	-0.4	1.7
Apr	0.9	0.7	0.4	1.0	2.6

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

**Stage 4 intermediate demand:** The index for stage 4 intermediate demand advanced 0.6 percent in April, the largest increase since a 0.6-percent jump in September 2012. In April, prices for total services inputs to stage 4 intermediate demand rose 0.9 percent, and prices for total goods inputs moved up 0.3 percent. (See table D.) Advances in the indexes for securities brokerage, dealing, investment advice, and related services; loan services (partial); portfolio management; machinery and equipment parts and supplies wholesaling; fresh fruits and melons; and chemicals and allied products wholesaling outweighed decreases in the indexes for hardware, building materials, and supplies retailing; fabricated structural metal; and unprocessed finfish. (See table 6.) For the 12 months ended in April, prices for stage 4 intermediate demand climbed 3.0 percent, the largest increase since a 3.3-percent rise in the 12 months ended January 2012.

Stage 3 intermediate demand: Prices for stage 3 intermediate demand edged up 0.1 percent in April, the sixth consecutive advance. In April, the index for total services inputs to stage 3 intermediate demand rose 0.9 percent. Conversely, prices for total goods inputs moved down 0.6 percent. Increases in the indexes for securities brokerage, dealing, investment advice, and related services; gasoline; loan services (partial); machinery and equipment parts and supplies wholesaling; and chemicals and allied products wholesaling outweighed declines in the indexes for slaughter barrows and gilts, raw milk, jet fuel, and fuels and lubricants retailing. For the 12 months ended in April, the index for stage 3 intermediate demand climbed 4.4 percent, the largest advance since a 5.4-percent jump in the 12 months ended December 2011.

Stage 2 intermediate demand: The index for stage 2 intermediate demand rose 2.2 percent in April, the largest advance since a 3.6-perent increase in February 2014. In April, prices for total goods inputs to stage 2 intermediate demand jumped 4.1 percent, and the index for total services inputs climbed 0.8 percent. Higher prices for crude petroleum; gas fuels; securities brokerage, dealing, investment advice, and related services; portfolio management; plastic resins and materials; and guestroom rental outweighed declines in the indexes for oilseeds; hardware, building materials, and supplies retailing; and prepared animal feeds. For the 12 months ended in April, the index for stage 2 intermediate demand surged 7.5 percent.

Stage 1 intermediate demand: The index for stage 1 intermediate demand moved up 0.9 percent in April following a 0.1-percent decline in the prior month. In April, prices for total services inputs to stage 1 intermediate demand climbed 1.3 percent, and the index for total goods inputs rose 0.4 percent. Advances in the indexes for securities brokerage, dealing, investment advice, and related services; loan services (partial); crude petroleum; gas fuels; guestroom rental; and chemicals and allied products wholesaling outweighed declines in the indexes for carbon steel scrap, primary basic organic chemicals, and fuels and lubricants retailing. For the 12 months ended in April, the index for stage 1 intermediate demand climbed 6.5 percent.

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

production flow, seasonally adjusted

production	oduction flow, seasonally adjusted												
	Stage 4 intermediate demand			Stage 3 intermediate demand			Stage	2 interr		Stage 1 intermediate demand			
Month	Total	Goods inputs	Ser- vices inputs	Total	Goods inputs	Ser- vices inputs	Total	Goods inputs	Ser- vices inputs	Total	Goods inputs	Ser- vices inputs	
2016													
Apr	0.2	0.1	0.2	0.0	0.2	-0.1	0.8	2.4	-0.1	0.9	1.3	0.2	
May	0.2	0.4	-0.1	0.2	0.4	-0.1	1.2	3.1	0.1	0.9	2.1	-0.5	
June	0.5	0.6	0.5	0.8	1.1	0.4	1.1	2.5	0.2	0.9	0.9	0.9	
July	0.2	0.1	0.4	0.2	0.1	0.4	0.9	1.2	0.6	0.1	0.0	0.3	
Aug	-0.2	-0.1	-0.3	-0.6	-0.7	-0.4	-0.5	-1.1	-0.1	-0.5	-0.3	-0.7	
Sept	0.1	0.2	-0.1	-0.1	-0.1	-0.1	0.3	0.7	-0.1	0.1	0.2	-0.1	
Oct	0.1	-0.1	0.2	-0.5	-0.8	-0.1	1.0	2.2	0.2	0.0	0.2	-0.3	
Nov	0.2	0.2	0.3	1.1	1.7	0.6	-0.4	-1.5	0.4	0.8	1.0	0.5	
Dec.1	0.4	0.4	0.3	1.2	2.2	0.2	2.0	4.5	0.3	1.4	2.1	0.4	
2017													
Jan.1	0.5	0.8	0.3	0.8	1.4	0.1	1.3	2.7	0.2	1.2	2.1	0.1	
Feb	0.5	0.3	0.8	0.8	1.1	0.6	0.0	-0.5	0.4	0.6	0.6	0.6	
Mar	-0.1	0.2	-0.2	0.1	0.3	-0.2	-1.9	-4.4	0.0	-0.1	0.3	-0.5	
Apr	0.6	0.3	0.9	0.1	-0.6	0.9	2.2	4.1	0.8	0.9	0.4	1.3	

<sup>&</sup>lt;sup>1</sup> Some of the figures shown above and elsewhere in this release may differ from those previously reported because data for December 2016 have been revised to reflect the availability of late reports and corrections by respondents.

The Producer Price Index for May 2017 is scheduled to be released on Tuesday, June 13, 2017 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 2013, the PPI covered about 70 percent of services as measured by 2007 Census revenue, and 34 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 2012, final demand goods were about 34.5 percent of overall final demand, final demand services were roughly 63.5 percent, and final demand construction was about 2.0 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 via Internet, mail, and fax.

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. Results of these resampling efforts are incorporated into the PPI with the release of data for January and July.

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
Gasoline service stations	5541	January 2002

Title	Code	PPI Detailed Report Issue
	SIC	
Boat dealers	5551	January 2002
Recreational vehicle dealers	5561	January 2002
Miscellaneous retail	59	January 2001
Security brokers, dealers, and investment bankers	6211 6282	January 2001 January 2003
Life insurance carriers	6311	January 1999
Property and casualty insurance	6331	July 1998
Insurance agencies and brokerages	6412	January 2003
Operators and lessors of nonresidential buildings	6512 6531	January 1996 January 1996
Prepackaged software	7372	January 1998
Data processing services	7374	January 2002
Home health care services	8082	January 1997
Legal services	8111	January 1997
Engineering design, analysis, and consulting services	8711	January 1997
consulting services  Premiums for property and casualty	8712	January 1997
insurance	9331	July 1998
	NAICS	
New Industrial building construction	236211	January 2008
New warehouse building construction	236221	July 2005
New school construction	236222	July 2006
New office construction	236223	January 2007
New health care building construction	236224	January 2013
Concrete contractors, nonresidential building work	23811X	July 2008
building work  Electrical contractors, nonresidential	23816X	July 2008
building workPlumbing / HVAC contractors,	23821X	July 2008
nonresidential building work	23822X 423	July 2008 July 2005
Merchant wholesalers, nondurable goods	424 425120	July 2005 July 2005
Electronics and appliance stores	443	January 2004
Building material and garden equipment and supplies dealers	444	January 2004
music stores	451 452	January 2004 January 2004
Miscellaneous store retailers	453	January 2004
Internet service providers	518111	July 2005
Internet publishing and web search	519130	January 2010
portals  Commercial banking	522110	January 2010 January 2005
Savings institutions	522120	January 2005
Direct health and medical insurance carriers	524114	July 2004
machinery and equipment rental and leasing	532412 541610	January 2005 January 2007

Title	Code	PPI Detailed Report Issue
	NAICS	
Security guards and patrol services	561612	July 2005
Computer training	611420	July 2007
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 2007 values of shipments as reported in the *Census of Manufactures* and other sources. From January 2007 to December 2011, PPI weights were derived from 2002 shipment values. Industry indexes now are calculated under the 2012 NAICS structure utilizing 2007 value of shipment weights and 2002 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 inc	lex 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 *Escalation 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 300 seasonally adjusted series, only 31 were subject to intervention in 2013.

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 5 million instances of PPI data

and tables being downloaded from the Internet during the 12 months ended December 31, 2012.

## 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 guery 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

adjusted

wpufd4 Final demand, not seasonally

adiusted

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

<u>Provides data for:</u>
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

Provides data for:

pdu28\_\_# pdu331\_# Chemicals and allied products Blast furnaces, steel works, and rolling and finishing mills

pdu3711#111 Passenger cars

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

Industry-product code, discontinued NAICS series ndu212231212231 ndu2122312122312 ndu212231212231214

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

Text Files are best suited for users requiring access to either a large volume of time series data or other 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:

**Industry Data** Industry Data - Discontinued (NAICS basis) (SIC basis) Commodity Data (incl. FD-ID) Commodity Data - Discontinued /pub/time.series/wd Special requests

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

Directory:

#### **Additional information**

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 demand<sup>1</sup> [Nov 2009=100, unless otherwise indicated]

Grouping	Other index	Relative Impor- tance	Un	adjusted in	dex	change to	ed percent Apr. 2017 om:	Seasonally adjusted percent change from:		
	base	Dec. 2016 <sup>2</sup>	Dec. 2016 <sup>3</sup>	Mar. 2017 <sup>3</sup>	Apr. 2017 <sup>3</sup>	Apr. 2016	Mar. 2017	Jan. to Feb.	Feb. to Mar.	Mar. to Apr.
Final demand		100.000	111.0	112.2	112.7	2.5	0.4	0.3	-0.1	0.5
Final demand goods		33.837	108.7	110.3	111.0	4.0	0.6	0.3	-0.1	0.5
Final demand foods		5.430	113.9	115.4	116.7	1.5	1.1	0.3	0.9	0.9
Finished consumer foods <sup>4</sup>	1	4.386	202.7	205.1	208.1	1.8	1.5	0.2	1.2	1.3
Finished consumer foods, crude		0.341	185.3	195.1	229.8	23.7	17.8	4.7	6.6	18.9
Finished consumer foods, processed		4.045	204.5	206.3	206.3	0.0	0.0	-0.2	8.0	-0.3
Government purchased foods	1	0.337	116.8	118.5	119.0	1.1	0.4	-0.2	0.7	0.0
Foods for export.		0.707 5.488	109.1 93.9	110.9 97.1	111.0 98.9	0.4	0.1 1.9	1.4 0.6	-1.1 -2.9	-0.7 0.8
Final demand energy		4.508	93.9 151.2	155.9	159.4	14.3 12.8	2.2	0.6	-2.9 -3.1	1.3
Government purchased energy	1	0.762	89.5	94.1	93.5	18.7	-0.6	2.1	-1.4	-1.6
Energy for export	1	0.218	75.2	80.1	79.8	31.0	-0.4	3.1	-3.2	-1.6
Final demand goods less foods and energy		22.919	111.6	112.7	113.0	2.3	0.3	0.1	0.4	0.3
Finished goods less foods and energy <sup>4</sup>	1	13.936	196.7	198.1	198.4	1.9	0.2	0.0	0.3	0.3
Finished consumer goods less foods and energy	00/82	8.000	217.6	219.8	220.1	2.6	0.1	0.0	0.4	0.3
Nondurable consumer goods less foods and energy	00/82	4.735	274.0	278.4	279.0	3.4	0.2	0.1	0.3	0.4
Durable consumer goods	1	3.265	158.3	158.4	158.6	1.4	0.1	-0.1	0.5	0.2
Private capital equipment	1	5.936	170.1	170.7	170.7	0.9	0.0	-0.1	0.3	0.1
Private capital equipment for manufacturing industries	1	1.402	171.3	172.2	172.2	0.8	0.0	-0.2	0.2	0.0
Private capital equipment for nonmanufacturing industries		4.534	169.5	170.0	170.1	1.0	0.1	-0.1	0.3	0.1
Government purchased goods, excluding foods and energy		2.271	109.3	110.3	110.6	1.5	0.3	-0.2	0.2	0.3
Government purchased goods excluding foods, energy, and capital equipment		1.418	110.5	111.5	111.9	1.8	0.4	-0.1	0.2	0.3
Government purchased capital equipment		0.853	106.4	107.3	107.4	0.9	0.1	-0.3	0.2	0.2
Goods for export, excluding foods and energy	1	6.712	108.0	109.7	110.2	3.4	0.5	0.3	0.5	0.4
Final demand services.	1	64.086	111.8	112.9	113.3	1.8	0.4	0.4	-0.1	0.4
Final demand trade services <sup>5</sup>		20.278	113.0	114.7	114.4	1.1	-0.3	0.4	-0.1	-0.3
Trade of finished goods <sup>4</sup>		17.793	112.9	114.9	114.2	0.9	-0.6	0.4	-0.2	-0.5
Trade of personal consumption goods		14.231	112.3	115.1	114.1	1.1	-0.9	0.4	0.0	-1.0
Trade of private capital equipment		3.562	114.3	112.8	113.9	0.4	1.0	-0.1	-0.7	1.0
Trade of government purchased goods		0.681	113.7	113.5	115.4	2.6	1.7	0.4	-0.4	1.7
Trade of government purchased goods, excluding capital		0.070	110.0	110.0	4444	4.0	0.0		0.0	0.0
equipment	1	0.370 0.311	110.8 117.1	112.2 115.0	114.4 116.4	4.3 0.5	2.0 1.2	1.1 -0.3	0.3 -1.0	2.0 1.2
Trade of government purchased capital equipment  Trade of exports	1	1.804	117.1	113.0	115.4	2.2	1.3	0.8	-0.1	1.3
Final demand transportation and warehousing services.	1	4.935	114.7	115.7	116.2	2.2	0.4	0.3	-0.1	0.7
Transportation of passengers for final demand	1	1.164	113.6	116.5	117.3	4.4	0.7	0.0	-0.1	1.9
Transportation of private passengers		0.795	113.7	116.5	117.4	4.4	0.8	0.1	-0.2	1.9
Transportation of government passengers	1	0.120	113.7	116.5	117.4	4.4	0.8	0.1	-0.2	1.9
Transportation of passengers for export		0.249	113.6	116.5	117.3	4.4	0.7	0.0	-0.2	1.9
Transportation and warehousing of goods for final demand		3.771	114.9	115.4	115.7	1.6	0.3	0.3	-0.2	0.3
Transportation and warehousing of finished goods <sup>4</sup>		2.666	113.9	114.1	114.5	1.4	0.4	0.3	-0.3	0.4
Transportation and warehousing of personal consumption										
goods		2.093	114.2	114.5	114.9	1.5	0.3	0.3	-0.3	0.3
Transportation and warehousing of private capital equipment	1	0.573	112.7	112.7	113.2	1.4	0.4	0.1	-0.3	0.4
Transportation and warehousing of government purchased goods  Transportation and warehousing of exports	1	0.273 0.832	114.2 118.1	114.8 119.3	115.3 119.6	1.7 1.9	0.4 0.3	0.3	-0.1 0.1	0.3 0.3
Final demand services less trade, transportation, and warehousing	1	38.873	111.0	111.8	112.6	2.1	0.7	0.5	-0.1	0.8
Finished services less trade, transportation, and warehousing <sup>4</sup>		34.735	111.3	112.1	112.9	2.1	0.7	0.4	-0.1	0.9
Finished consumer services less trade, transportation, and							***			
warehousing		31.785	111.5	112.2	113.0	2.0	0.7	0.4	-0.2	1.0
Private capital investment services less trade, transportation, and										
warehousing		2.950	109.5	111.2	111.5	2.6	0.3	1.2	0.2	0.3
warehousing		2.635	108.0	108.7	109.2	1.8	0.5	0.9	-0.2	0.5
warehousing, excl. capital investment		2.541	108.2	109.1	109.5	1.8	0.4	0.9	-0.2	0.5
transportation, and warehousing		0.094	99.8	99.7	99.9	0.3	0.2	0.6	0.0	0.2
Services for export less trade, transportation, and warehousing	1	1.503	110.5	111.1	112.9	3.4	1.6	0.7	-0.5	1.5
Final demand construction.	1	2.077	114.5	115.0	115.5	1.0	0.4	-0.1	0.2	0.4
Construction for private capital investment.	1	1.403	114.5	114.9	115.5	1.1	0.5	-0.2	0.2	0.5
Construction for government		0.674	114.5	115.1	115.5	0.9	0.3	0.0	0.1	0.3
Special groupings	04/42	07.5	100.0	1100	444.0		0 =			o -
	1	87.975	109.6	110.8 110.8	111.3 111.3	2.4 2.5	0.5 0.5	0.4 0.4	-0.2 -0.1	0.5 0.5
Final demand less exports.	04/40									U.D
Final demand less government	04/10	92.247	109.6	110.0	111.5	2.5	0.5	0.4	-0.1	
·		92.24 <i>7</i> 88.502	110.8	111.8	112.2	1.9	0.4	0.4	0.0	0.4

Table 1. Producer price indexes and percent changes for final demand - Continued

[Nov 2009=100, unless otherwise indicated]

Grouping		Relative Impor- tance	Ur	nadjusted in	dex	change to	ed percent Apr. 2017 om:	Seasonally adjusted percent change from:		
, 0	base	Dec. 2016 <sup>2</sup>	Dec. 2016 <sup>3</sup>	Mar. 2017 <sup>3</sup>	Apr. 2017 <sup>3</sup>	Apr. 2016	Mar. 2017	Jan. to Feb.	Feb. to Mar.	Mar. to Apr.
Final demand less foods and food and nonalcoholic beverages for immediate consumption <sup>6</sup> .	04/10	93.990	109.2	110.4	110.9	2.6	0.5	0.3	-0.2	0.5
Final demand less foods <sup>6</sup>	04/10	94.570	109.2	110.4	110.9	2.6	0.5	0.3	-0.2	0.5
Final demand less energy.	04/10	94.512	110.6	111.7	112.2	1.9	0.3	0.4	0.1	0.3
Final demand less trade services.	01/10	79.722	109.3	110.4	111.1	2.9	0.4	0.4	-0.2	0.7
Final demand less distributive services <sup>7</sup>	01/10	75.951	109.3	110.4	111.0	3.0	0.7	0.4	-0.2	0.7
Final demand goods less energy.	01/10	28.349	111.1	112.3	112.7	2.1	0.4	0.1	0.5	0.4
Final demand goods less foods.	04/10	28.407	105.2	106.8	107.3	4.5	0.5	0.1	-0.3	0.4
Final demand services less trade services.	04/10	43.808	110.5	111.3	112.1	2.2	0.7	0.5	-0.2	0.9
Final demand distributive services <sup>7</sup>	04/10	24.049	111.1	112.6	112.4	1.2	-0.2	0.4	-0.2	-0.2
Final demand goods plus final demand distributive services <sup>7</sup>	04/10	57.886	108.2	109.7	110.0	2.8	0.3	0.3	-0.1	0.2
Final demand less foods, energy, and trade services <sup>6</sup>	08/13	68.804	103.9	104.7	105.3	2.1	0.6	0.3	0.1	0.7
Private and government purchased capital equipment	08/13	6.789	103.6	104.1	104.1	1.0	0.0	-0.1	0.3	0.0
Private and government purchased capital investment services	08/13	7.490	103.2	103.1	103.7	1.3	0.6	0.4	-0.3	0.7
Total private and government purchased capital investment	08/13	14.279	103.9	104.1	104.5	1.2	0.4	0.2	0.0	0.4
Total finished <sup>4</sup>	01/10	80.222	110.6	111.8	112.3	2.3	0.4	0.3	-0.1	0.4
Total finished less foods, food and nonalcoholic beverages for immediate										
consumption, and energy <sup>4, 6</sup>	12/10	70.762	110.8	111.8	112.1	1.7	0.3	0.3	0.0	0.4
Total finished less foods and energy <sup>4, 6</sup>	01/10	71.328	111.7	112.7	113.0	1.7	0.3	0.3	0.0	0.4
Total finished less foods and food and nonalcoholic beverages for										
immediate consumption <sup>4, 6</sup>	12/10	75.270	109.1	110.3	110.7	2.3	0.4	0.3	-0.2	0.5
Total finished less foods <sup>4, 6</sup>	01/10	75.836	110.5	111.6	112.1	2.4	0.4	0.3	-0.2	0.4
Total finished less energy <sup>4</sup>	01/10	75.714	111.8	112.8	113.2	1.7	0.4	0.4	0.0	0.4
Finished goods <sup>4</sup>	00/82	22.830	193.7	196.2	197.7	3.9	0.8	0.1	-0.2	0.6
Finished goods less energy <sup>4</sup>	00/82	18.322	198.0	199.6	200.4	1.8	0.4	0.1	0.6	0.5
Finished goods, excluding foods <sup>4, 6</sup>	00/82	18.444	190.7	193.2	194.4	4.5	0.6	0.1	-0.5	0.5
Finished services <sup>4</sup>	01/10	55.989	111.0	112.2	112.5	1.7	0.3	0.4	-0.2	0.4
Private capital investment services	04/10	7.085	110.9	110.8	111.5	1.4	0.6	0.5	-0.3	0.6
Finished distributive services <sup>4, 7</sup>	04/10	20.459	110.7	112.4	111.9	0.9	-0.4	0.3	-0.1	-0.4
Finished services less trade services <sup>4</sup>	04/10	38.196	110.7	111.4	112.2	2.1	0.7	0.5	-0.2	0.9
Finished services less distributive services <sup>4, 7</sup>	04/10	35.530	110.7	111.4	112.3	2.2	0.8	0.5	-0.1	0.9
Total private capital investment (goods, services, and construction)	04/10	14.424	109.8	110.0	110.4	1.1	0.4	0.2	0.0	0.4
Finished goods plus finished distributive services <sup>4</sup>	04/10	43.289	109.3	110.9	111.1	2.5	0.2	0.2	-0.2	0.2
Total exports	04/10	12.025	106.3	107.7	108.5	3.4	0.7	0.6	0.1	0.6
Goods for export.	00/82	7.637	179.0	182.1	182.8	3.7	0.4	0.4	0.3	0.2
Services for export.	04/10	4.388	112.0	112.8	114.1	2.7	1.2	0.6	-0.3	1.3
Total government purchases.	04/10	7.753	105.4	106.6	107.0	3.2	0.4	0.5	-0.1	0.2
Government purchased goods	00/82 04/10	3.370 3.709	171.6	174.9 109.8	175.0 110.5	4.9	0.1 0.6	0.4 0.7	-0.2	-0.2 0.7
Total government purchased capital investment (goods, services,	04/10	3.709	109.1	109.6	110.5	1.9	0.6	0.7	-0.2	0.7
construction)	08/13	1.932	104.2	104.4	104.8	0.8	0.4	-0.2	0.0	0.4
Personal consumption.	01/10	65.798	110.7	112.1	112.6	2.6	0.4	0.4	-0.2	0.4
Personal consumption goods (finished consumer goods)	00/82	16.894	203.4	206.7	208.9	5.0	1.1	0.1	-0.4	0.8
Personal consumption goods less energy	00/82	12.386	211.8	214.1	215.4	2.3	0.6	0.1	0.7	0.7
Personal consumption goods less foods.	00/82	12.508	202.5	206.0	207.9	6.2	0.9	0.1	-0.9	0.7
Personal consumption nondurable goods less foods	00/82	9.243	221.7	226.9	229.7	7.9	1.2	0.1	-1.4	0.8
Personal consumption services.	04/10	48.904	110.6	111.9	112.2	1.7	0.3	0.4	-0.1	0.4
Personal consumption less trade services	04/10	51.567	110.0	111.0	112.0	3.0	0.9	0.3	-0.2	0.9
Personal consumption less distributive services <sup>7</sup>	04/10	49.474	110.0	111.0	112.0	3.1	0.9	0.3	-0.2	0.9
Personal consumption less foods and energy	04/14	56.904	103.4	104.6	104.9	1.9	0.3	0.4	0.0	0.3
Personal consumption less foods, energy, and trade services <sup>5</sup>	04/14	42.673	103.6	104.3	105.0	2.1	0.7	0.3	0.0	0.8
Personal consumption less foods, energy, and distributive services <sup>7</sup>	04/14	40.580	103.9	104.7	105.4	2.2	0.7	0.3	0.0	0.8
Personal consumption goods plus personal consumption distributive										
services <sup>7</sup>	08/13	33.218	99.5	101.4	101.5	3.0	0.1	0.2	-0.2	0.1

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

<sup>&</sup>lt;sup>2</sup> Comprehensive relative importance figures are initially computed after the publication of December indexes and are recalculated after final December indexes are available. Individual items and subtotals may not add exactly to totals because of rounding differences.

<sup>&</sup>lt;sup>3</sup> The indexes for December 2016 have been recalculated to incorporate late reports and corrections by respondents. All indexes are subject to revision 4 months after original publication.

<sup>&</sup>lt;sup>4</sup> PPI defines Total finished as including only the personal consumption and private capital investment portions of final demand.

<sup>&</sup>lt;sup>5</sup> Trade indexes measure changes in margins received by wholesalers and retailers.

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

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

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

Table 2. Producer price indexes and percent changes for intermediate demand by commodity type<sup>1</sup> [Nov. 2009=100, unless otherwise indicated]

Grouping	Other index		Un	adjusted in	dex	change	ed percent to Apr. from:		onally adj it change	
	base	Dec. 2016 <sup>2</sup>	Dec. 2016 <sup>3</sup>	Mar. 2017 <sup>3</sup>	Apr. 2017 <sup>3</sup>	Apr. 2016	Mar. 2017	Jan. to Feb.	Feb. to Mar.	Mar. to Apr.
Processed goods										
Processed goods for intermediate demand	00/82	100.000	184.6	188.2	189.4	5.4	0.6	0.4	0.1	0.5
Materials and components for manufacturing	00/82	44.801	174.9	178.5	179.6	4.8	0.6	0.6	1.0	0.4
Materials for manufacturing		27.193	104.7	108.1	108.9	7.4	0.7	1.0	1.5	0.6
Materials for food manufacturing.	00/82	3.587	189.5	191.8	192.2	-0.1	0.2	-0.4	8.0	-0.3
Materials for nondurable manufacturing	1	13.776 9.830	205.0 183.4	212.2 190.0	214.3 191.3	8.8 8.3	1.0 0.7	0.8 1.7	2.0 1.2	0.8 0.6
Components for manufacturing.		17.608	149.6	150.0	150.4	0.7	0.7	0.1	0.1	0.3
Components for nondurable manufacturing	00,02	0.783	109.8	110.8	111.4	2.0	0.5	0.3	0.7	0.5
Components for durable manufacturing		16.825	105.9	106.2	106.4	0.6	0.2	0.1	0.1	0.3
Materials and components for construction	00/82	10.742	230.1	233.0	233.9	2.5	0.4	0.2	0.3	0.3
Materials for construction		5.074	115.4	117.2	118.1	3.0	0.8	0.4	0.4	0.5
Components for construction.	00/00	5.668	112.4	113.5	113.6	2.1	0.1	0.0	0.3	0.0
Processed fuels and lubricants for intermediate demand  Processed fuels and lubricants to manufacturing industries	00/82 00/82	16.853 4.406	156.5 160.8	162.7 174.3	165.1 174.6	15.1 17.7	1.5 0.2	0.6 2.4	-2.7 0.2	1.3 0.4
Processed fuels and lubricants to manufacturing industries	00/82	12.447	155.4	159.1	162.3	14.3	2.0	-0.1	-3.8	1.7
Containers for intermediate demand	00/82	2.975	220.9	223.0	224.4	3.7	0.6	0.4	0.3	0.6
Supplies for intermediate demand	00/82	24.628	190.5	191.9	192.6	1.9	0.4	0.2	0.3	0.2
Supplies to manufacturing industries	1	2.775	186.3	188.0	188.9	2.3	0.5	0.1	0.3	0.4
Supplies to nonmanufacturing industries.	1	21.853	189.6	191.0	191.6	1.9	0.3	0.2	0.3	0.2
Supplies to nonmanufacturing industries, feeds.	1	1.586	179.5	179.5	178.4	4.6	-0.6	1.1	0.1	-1.5
Supplies to nonmanufacturing industries, other than feeds	00/82	20.267	192.2	193.7	194.5	1.7	0.4	0.1	0.3	0.4
Unprocessed goods										
Unprocessed goods for intermediate demand	1	100.000	185.4	187.1	193.8	13.9	3.6	-0.2	-4.2	3.3
Unprocessed foodstuffs and feedstuffs	1	39.179	158.2	169.3	166.9	-0.1	-1.4	2.2	0.8	-2.3
Unprocessed nonfood materials	00/82 00/82	60.821 42.518	196.2 222.7	189.9 225.9	203.8 237.5	25.7 22.2	7.3 5.1	-1.6 3.7	-7.6 -2.8	7.4 5.2
Unprocessed nonfood materials except fuel to manufacturing industries	00/82	40.009	205.3	208.1	219.5	23.7	5.5	3.8	-3.0	5.5
Unprocessed nonfood materials except fuel to nonmanufacturing										
industries	00/82	2.509	242.4	248.6	248.2	2.4	-0.2	0.0	-0.1	-0.4
Unprocessed fuel.	1	18.303	148.9	128.1	145.2	35.8	13.3	-12.1	-18.7	13.6
Unprocessed fuel to manufacturing industries	1	0.689 17.614	179.6 150.9	171.4 129.2	182.4 146.8	17.8 36.7	6.4 13.6	-6.9 -12.3	-9.9 -19.0	6.8 14.0
Services	00/02	17.014	130.3	125.2	140.0	00.7	10.0	12.0	13.0	14.0
Services for intermediate demand		100.000	112.8	113.7	114.7	2.6	0.9	0.5	-0.2	0.9
Trade services for intermediate demand <sup>4</sup>		17.563	112.3	113.3	114.2	2.1	0.8	0.6	0.3	0.7
Trade services for manufacturing industries	12/12	8.329	100.5	101.3	102.2	1.8	0.9	1.0	0.1	0.9
Trade services for nonmanufacturing industries	12/12	9.234	101.9	102.9	103.6	2.4	0.7	0.3	0.5	0.6
Transportation and warehousing services for intermediate demand		13.318	118.4	120.2	120.5	2.1	0.2	0.6	0.3	0.4
Transportation of passengers for intermediate demand		1.069 0.178	113.7 113.6	116.5 116.4	117.4 117.3	4.4 4.4	0.8 0.8	0.1	-0.2 -0.2	1.9 1.9
Transportation of passengers for nonmanufacturing industries		0.176	113.7	116.5	117.3	4.4	0.8	0.0	-0.2	1.9
Transportation and warehousing of goods for intermediate demand		12.249	118.9	120.6	120.8	1.9	0.2	0.7	0.2	0.3
Transportation and warehousing of goods for manufacturing industries	12/12	1.777	99.1	99.2	99.6	1.9	0.4	0.3	0.1	0.3
Transportation and warehousing of goods for nonmanufacturing industries.	12/12	10.472	106.1	107.9	108.0	2.0	0.1	0.7	0.4	0.3
Services less trade, transportation, and warehousing for intermediate demand.		69.119	111.7	112.5	113.7	2.9	1.1	0.5	-0.4	1.0
Services less trade, transportation, and warehousing for manufacturing industries.		2.226	104.6	105.6	105.8	1.7	0.2	1.0	-0.4	0.1
Services less trade, transportation, and warehousing for nonmanufacturing										
industries		66.893	112.0	112.7	113.9	2.9	1.1	0.4	-0.4	1.1
Construction for intermediate demand.		100.000	113.2	113.3	113.8	2.5	0.4	0.1	0.2	0.6
Special groupings										
Processed materials less foods and feeds	00/82	92.091	184.4	188.2	189.6	5.8	0.7	0.5	0.0	0.6
Processed foods and feeds.	00/82	7.909	187.5	188.9	188.8	1.0	-0.1	-0.1	0.6	-0.6
Processed energy goods		16.853	157.2	163.4	165.9	15.2	1.5	0.6	-2.7	1.3
Processed materials less energy		83.147	189.1	192.0	192.9	3.5	0.5	0.4	0.7	0.4
Processed materials less foods and energy.  Intermediate distributive services <sup>5</sup> .	00/82 04/10	75.238 29.812	189.0 112.6	192.1 113.8	193.1 114.4	3.9 2.1	0.5 0.5	0.5 0.6	0.7 0.3	0.5 0.6
Processed goods plus intermediate distributive services.	04/10	29.012	103.7	105.5	106.2	4.5	0.5	0.6	0.3	0.6
Unprocessed materials less agricultural products	00/82	57.843	198.5	191.1	206.1	27.0	7.8	-2.0	-8.1	7.9
· '										

Table 2. Producer price indexes and percent changes for intermediate demand by commodity type<sup>1</sup> — Continued

[Nov. 2009=100, unless otherwise indicated]

Grouping	Other index	Relative Impor- tance	Un	adjusted in	dex	change	ed percent to Apr. from:	Seas	onally ad nt change	
, 0	base	Dec. 2016 <sup>2</sup>	Dec. 2016 <sup>3</sup>	Mar. 2017 <sup>3</sup>	Apr. 2017 <sup>3</sup>	Apr. 2016	Mar. 2017	Jan. to Feb.	Feb. to Mar.	Mar. to Apr.
Unprocessed energy materials <sup>6</sup>		35.884	155.4	138.6	157.9	36.9	13.9	-4.3	-14.6	14.1
		64.116 24.937	195.4 303.9	209.4 326.3	207.0 324.2	4.5	-1.1	1.9	1.2	-1.7
Unprocessed nonfood materials less energy <sup>7</sup>	00/82	24.937	303.9	326.3	324.2	12.9	-0.6	1.4	2.0	-0.7

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

<sup>&</sup>lt;sup>2</sup> Comprehensive relative importance figures are initially computed after the publication of December indexes and are recalculated after final December indexes are available. Individual items and subtotals may not add exactly to totals because of rounding differences.

<sup>&</sup>lt;sup>3</sup> The indexes for December 2016 have been recalculated to incorporate late reports and corrections by respondents. All indexes are subject to revision 4 months after original publication.

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

<sup>&</sup>lt;sup>5</sup> Includes intermediate trade, transportation, and warehousing services.

<sup>&</sup>lt;sup>6</sup> Includes crude petroleum.

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

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

Table 3. Producer price indexes and percent changes for intermediate demand by production flow<sup>1</sup> [Nov. 2009=100, unless otherwise indicated]

	Grouping	Other	Relative Impor- tance	Ur	nadjusted ind	dex	change to	ed percent Apr. 2017 om:		onally adj nt change	
Stage   Intermediate demand.   100,000   10.4   111.7   112.5   3.0   0.7   0.5   0.5   0.4	S. Saprag	base				Apr. 2017 <sup>3</sup>				Feb. to Mar.	Mar. to Apr.
Impuls to slage 4 goods producers.	Stage 4										
Coods	Stage 4 intermediate demand		100.000	110.4	111.7	112.5	3.0	0.7	0.5	-0.1	0.6
Foods	Inputs to stage 4 goods producers		1	107.6		109.8	1		1		0.5
Energy	Goods		1	I		108.7	1		1		0.6
Services   19.405   107.0   108.0   108.4   2.2   0.4   0.8   0.			1	I			1		1		1.3
Services	0,	1	1	I			1		1		1.5
Transportation of passengers.  20.41 113.1 114.0 115.4 3.2 11.1 0.8 0.7 Transportation and warehousing services.  20.42 113.1 114.0 115.4 3.2 0.5 0.2 0.4 Transportation and warehousing of goods.  20.41 113.0 113.0 113.0 113.0 113.0 12.0 0.5 0.2 0.4 Transportation and warehousing of goods.  20.41 113.0 113.0 113.0 113.0 113.0 12.0 0.4 0.3 0.4 Services less trade, transportation, and warehousing.  20.42 113.0 113.0 113.0 113.0 113.0 12.0 0.4 0.3 0.4 0.4 0.5 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1			1	I			1		1		0.4
Transportation and warehousing services.    Q241   113,1   114,0   114,6   22   0.5   0.2   0.4		1	1	I			1		1		0.9 1.1
Transportation of passengers.  7 Annaportation of any warehousing of goods.  8 Cooks.  1 Annaportation and warehousing.  2 Annaportation and warehousing.  2 Annaportation and warehousing.  3 Annaportation and warehousing services.  3 Annaportation and warehousing services.  3 Annaportation and warehousing and warehousing.  4 Annaportation and warehousing and warehousing.  5 Annaportation and warehousing and warehousing.  6 Annaportation and warehousing and warehousing.  6 Annaportation and warehousing and warehousing.  7 Annaportation and warehousing and warehousing.  8 Annaportation a			1	I			1		1		0.9
Transportation and warehousing of goods.  Services less trade, transportation, and warehousing.  1.172 105.4 106.9 106.9 106.9 21.0 0.4 12 0.2 0.2 1 1.0 0.0 12 0.2 0.2 1 1.0 0.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0	, and the second		1	I			1		1		1.9
Services less trade, transportation, and warehousing.		1	1	I			1		1		0.4
Goods			1.172	I	106.9	106.9	2.1	0.0	1.2	-0.2	-0.1
Foods			48.611	112.7	114.0	114.8	2.8	0.7	0.6	-0.2	0.7
Energy	Goods		14.293	109.8	111.1	111.3	2.3	0.2	0.2	0.2	0.0
Sourcises   Sarvices	Foods		2.802	116.9	118.1	117.2	-0.1	-0.8	-0.3	0.9	-1.3
Services	Energy		2.526	100.3	102.9	103.0	6.7	0.1	1	-0.7	0.2
Transportation and warehousing services   3,588   108,6   110,7   112,3   3,0   1,4   18,   0,5   0,1	Goods excluding foods and energy		1	I	113.7	114.2	1	0.4	1		0.4
Transportation and warehousing services.  2.399   114.7   116.2   116.7   21.   0.4   0.5   0.1   Transportation of passengers.  0.321   113.5   116.5   117.2   4.4   0.8   0.0   0.1   Transportation and warehousing of poods.  2.078   115.2   116.5   117.2   1.4   0.4   0.6   0.2   Construction.  1.017   112.2   113.3   113.8   2.5   0.4   0.1   0.2   Construction.  1.0187   112.2   113.3   113.8   2.5   0.4   0.1   0.2   Construction.  1.0197   112.2   113.3   113.8   2.5   0.4   0.1   0.2   Construction.  1.0187   108.4   110.1   110.7   3.5   0.5   0.1   0.0   Energy.  1.188   712.2   75.5   78.1   28.2   3.4   0.0   4.3   Codes excluding loods and energy.  1.1897   114.1   115.6   116.0   2.5   0.3   0.2   0.3   Services.  1.0198   109.8   109.8   10.1   10.5   1.7   0.4   0.2   0.0   Trade services warehousing services.  1.021   112.4   112.5   113.0   11.4   0.4   0.2   0.0   Transportation and warehousing of goods.  2.022   112.4   112.5   113.0   11.4   0.4   0.2   0.0   Transportation and warehousing of goods.  2.023   112.4   112.5   113.0   11.4   0.4   0.2   0.0   Transportation and warehousing of goods.  2.025   100.5   111.8   112.4   112.5   113.0   1.4   0.4   0.2   0.0   Transportation and warehousing of goods.  2.026   112.3   112.4   112.5   113.0   11.4   0.5   1.4   0.5   Transportation and warehousing of goods.  2.026   112.3   112.4   112.5   113.0   11.4   0.5   1.4   0.5   Transportation and warehousing of goods.  2.026   112.5   111.8   112.4   112.5   113.0   11.4   0.5   1.4   0.5   Transportation and warehousing of goods.  2.026   112.7   111.8   111.4   11.4   0.5   0.1   0.0   Transportation and warehousing of goods.  2.027   1228   1128   113.0   111.5   111.5   111.5   111.5   0.5   1.4   0.5   Transportation and warehousing of goods.  2.028   112.7   112.8   113.0   114.5   114.5   0.5   0.4   0.5   Transportation and warehousing of goods.  2.039   112.4   112.5   113.5   114.5   0.1   0.5   0.5   Transportation and warehousing of goods.  2.040   11.275   11.3   11.4   0.1   0.		1	1	1			1		1		1.0
Transportation of passengers		1	1	I			1		1		1.4
Transportation and warehousing of goods.   2.078   115.2   115.5   117.0   118   0.4   0.6   0.2	, and the second		1	I			1		1		0.6
Services less trade, transportation, and warehousing.   28.214   113.8   114.9   116.1   32   10   0.7   0.04		1	1	I			1		1		1.9
Construction			1	I			1		1		0.4
Inputs to stage 4 construction producers			1	I			1				1.0
Services   15.079   108.4   110.1   110.7   4.1   0.5   0.1   0.0		1	1	I			1		1		0.6 0.2
Energy			1	I			1		1		0.2
Goods excluding foods and energy		1	1	I			1		1		-0.1
Services	••		1	I			1		1		0.2
Trade services.   3.378   109.8   109.6   109.8   1.1   0.2   0.5   0.4   Transportation and warehousing services.   0.036   114.0   115.7   113.0   1.4   0.6   0.2   0.1   Transportation of passengers.   0.036   114.0   116.7   117.4   4.1   0.6   0.2   0.1   Transportation and warehousing of goods.   0.885   112.3   112.4   112.8   1.3   0.4   0.2   0.4   Services less trade, transportation, and warehousing.   2.052   110.5   111.8   112.4   3.1   0.5   1.4   0.5    Stage 3 intermediate demand.   100.000   108.3   111.0   111.4   4.4   0.6   0.8   0.1   Inputs to stage 3 goods producers.   48,380   110.8   111.0   111.4   4.4   0.5   0.5   1.4   1.5   Goods.   39.364   109.3   113.5   127.1   0.1   0.2   0.2   0.2   Energy.   2.045   81.5   88.7   88.8   17.9   0.1   3.8   1.9   Goods excluding foods and energy.   2.045   81.5   88.7   88.8   17.9   0.1   3.8   1.9   Goods excluding foods and energy.   2.045   81.5   88.7   110.6   111.4   1.4   0.7   1.1   0.2   Trade services.   7.257   108.7   110.6   111.4   1.4   0.7   1.1   0.2   Transportation and warehousing services   0.552   113.1   114.0   114.6   3.8   0.5   0.7   0.7   Transportation of passengers.   0.592   113.1   114.0   114.6   3.8   0.5   0.7   0.7   Transportation and warehousing of goods   0.063   11.9   113.8   114.3   3.7   0.4   0.8   0.1   Construction.   0.062   113.2   113.3   113.3   1.4   0.6   0.3   0.2   Transportation and warehousing of goods   0.063   11.9   113.8   114.3   3.7   0.4   0.8   0.7   Transportation and warehousing of goods   0.063   11.9   113.8   114.3   3.7   0.4   0.8   0.7   Transportation and warehousing of goods   0.063   11.9   113.8   114.3   3.7   0.4   0.8   0.7   Transportation and warehousing of goods   0.063   11.9   113.8   114.3   3.7   0.4   0.8   0.7   Transportation and warehousing of goods   0.063   11.9   113.8   114.3   3.7   0.4   0.8   0.7   Transportation and warehousing of goods   0.063   11.9   113.8   114.5   0.0   0.5   0.0   Transportation and warehousing of goods   0.064   0.07   0.1			1	I			1		1		0.3
Transportation of passengers.  Transportation and warehousing of goods.  Services less trade, transportation, and warehousing.  Stage 3  Stage 3  Stage 3  Stage 3 intermediate demand.  Inputs to stage 3 goods producers.  48,380  110,000  108,30  111,00  111,10  111,4  111,4  112,4  112,8  113,0,4  0,4  0,2  0,4  0,4  0,4  0,4  0,8  0,1  1,1  1,1  1,1  1,1  1,1  1,1			1	I			1		1		0.0
Transportation and warehousing of goods.  Services less trade, transportation, and warehousing.  Stage 3  Stage 3 intermediate demand.  Inputs to stage 3 goods producers.  Base 3  Stage 3 intermediate demand.  Inputs to stage 3 goods producers.  Base 3  100.000  108.3  111.0  111.4	Transportation and warehousing services		0.921	112.4	112.5	113.0	1.4	0.4	0.2	-0.4	0.4
Services less trade, transportation, and warehousing.   2.052   110.5   111.8   112.4   3.1   0.5   1.4   0.5     Stage 3   Stage 3 goods producers.   48.380   110.8   111.4   111.4   3.7   -0.3   1.3   1.1     Goods.   39.364   109.3   113.8   113.2   4.1   -0.5   1.4   1.4     Foods.   11.1275   121.8   130.5   127.1   0.1   2.6   2.0   2.0     Energy.   2.045   81.5   88.7   88.8   17.9   0.1   3.8   1.9     Goods excluding foods and energy.   26.044   108.7   111.3   111.8   5.2   0.4   0.8   1.2     Services.   8.954   109.7   110.6   111.4   11.4   0.7   1.1   -0.2     Trade services.   7.257   108.7   109.6   110.4   1.0   0.7   1.3   -0.3     Transportation and warehousing services.   0.592   113.1   114.0   114.6   3.8   0.5   0.7   0.7     Transportation and warehousing of goods.   0.563   112.9   113.8   114.3   3.7   0.4   0.8   0.1     Construction.   0.062   113.2   113.3   113.8   2.5   0.4   0.1   0.2     Inputs to stage 3 services producers.   49.745   107.1   108.6   109.8   4.8   1.1   0.4   0.9     Goods.   0.104   0.105   0.1   0.2   0.1   0.2     Inputs to stage 3 services producers.   49.745   107.1   108.6   109.8   4.8   1.1   0.4   0.9     Goods.   0.104   0.345   88.3   91.6   0.93   1.3   1.3   1.3   0.3   0.1     Energy.   6.610   7.9.9   84.4   86.3   21.7   2.3   0.1   5.3     Goods excluding foods and energy.   3.733   106.2   106.6   107.2   1.2   0.6   0.1   -0.1     Services   38.393   112.5   113.5   114.5   2.6   0.9   0.5   0.5     Transportation and warehousing services.   9.181   123.2   125.7   125.8   2.2   0.1   0.8   0.5     Transportation and warehousing services.   9.181   123.2   125.7   125.8   2.2   0.1   0.8   0.5     Transportation and warehousing services.   9.181   123.2   125.7   125.8   2.2   0.1   0.6   0.7     Transportation and warehousing services.   9.181   123.2   125.7   125.8   2.2   0.1   0.6   0.7     Transportation and warehousing of goods.   9.150   123.4   183.9   150.9   11.1   11.7	Transportation of passengers		0.036	114.0	116.7	117.4	4.1	0.6	0.2	-0.1	1.7
Stage 3 intermediate demand.         100,000         108.3         111.0         111.4         4.4         0.4         0.8         0.1           Inputs to stage 3 goods producers.         48.380         110.8         114.7         114.4         4.4         0.4         0.8         0.1           Goods.         39.364         109.3         113.8         113.2         4.1         -0.5         1.4         1.4           Foods.         11.275         121.8         130.5         127.1         0.1         -2.6         2.0	Transportation and warehousing of goods		0.885	112.3	112.4	112.8	1.3	0.4	0.2	-0.4	0.4
Stage 3 intermediate demand.	Services less trade, transportation, and warehousing		2.052	110.5	111.8	112.4	3.1	0.5	1.4	-0.5	0.6
Name	Stage 3										
Goods	Stage 3 intermediate demand		100.000	108.3	111.0	111.4	4.4	0.4	0.8	0.1	0.1
Foods.	Inputs to stage 3 goods producers		48.380	110.8	114.7	114.4	3.7	-0.3	1.3	1.1	-0.6
Energy	Goods		39.364	109.3	113.8	113.2	4.1	-0.5	1.4	1.4	-0.8
Goods excluding foods and energy.			1	121.8		127.1	0.1	-2.6	1		-3.2
Services.         8.954         109.7         110.6         111.4         1.4         0.7         1.1         -0.2           Trade services.         7.257         108.7         109.6         110.4         1.0         0.7         1.3         -0.3           Transportation and warehousing services.         0.592         113.1         114.0         114.6         3.8         0.5         0.7         0.7         0.7           Transportation and warehousing of goods.         0.563         112.9         113.8         114.3         3.7         0.4         0.8         0.7           Services less trade, transportation, and warehousing.         1.105         108.0         108.5         108.9         1.8         0.4         0.3         -0.1           Construction.         0.062         113.2         113.3         113.8         2.5         0.4         0.1         0.2           Inputs to stage 3 services producers.         49.745         107.1         108.6         109.8         4.8         1.1         0.4         -0.9           Goods.         10.345         88.3         91.6         93.1         13.7         1.6         0.0         -3.5           Foods.         0.02         133.1         129.4	==	1	1	I			1		1		-1.0
Trade services.         7.257         108.7         109.6         110.4         1.0         0.7         1.3         -0.3           Transportation and warehousing services.         0.592         113.1         114.0         114.6         3.8         0.5         0.7         0.7         0.7           Transportation of passengers.         0.029         114.9         117.6         118.3         4.0         0.6         0.3         -0.2           Transportation and warehousing of goods.         0.563         112.9         113.8         114.3         3.7         0.4         0.8         0.7           Services less trade, transportation, and warehousing.         1.105         108.0         108.5         108.9         1.8         0.4         0.3         -0.1           Construction.         0.062         113.2         113.3         113.8         2.5         0.4         0.1         0.2           Inputs to stage 3 services producers.         49.745         107.1         108.6         109.8         4.8         1.1         0.4         -0.9           Goods.         10.345         88.3         91.6         93.1         13.7         1.6         0.0         -3.5           Energy.         6.610         79.9		1	1	I			1		1		0.3
Transportation and warehousing services.         0.592         113.1         114.0         114.6         3.8         0.5         0.7         0.7           Transportation of passengers.         0.029         114.9         117.6         118.3         4.0         0.6         0.3         -0.2           Transportation and warehousing of goods.         0.563         112.9         113.8         114.3         3.7         0.4         0.8         0.7           Services less trade, transportation, and warehousing.         1.105         108.0         108.5         108.9         1.8         0.4         0.3         -0.1           Construction.         0.062         113.2         113.3         113.8         2.5         0.4         0.1         0.2           Inputs to stage 3 services producers.         49.745         107.1         108.6         109.8         4.8         1.1         0.4         -0.9           Goods.         10.345         88.3         91.6         93.1         13.7         1.6         0.0         -3.5           Foods.         0.002         133.1         129.4         127.2         0.8         -1.7         0.0         -2.1           Energy.         6.610         79.9         84.4         <		1	1	I			1		1		0.7
Transportation of passengers.         0.029         114.9         117.6         118.3         4.0         0.6         0.3         -0.2           Transportation and warehousing of goods.         0.563         112.9         113.8         114.3         3.7         0.4         0.8         0.7           Services less trade, transportation, and warehousing.         1.105         108.0         108.5         108.9         1.8         0.4         0.3         -0.1           Construction.         0.062         113.2         113.3         113.8         2.5         0.4         0.1         0.2           Inputs to stage 3 services producers.         49.745         107.1         108.6         109.8         4.8         1.1         0.4         -0.9           Goods.         10.345         88.3         91.6         93.1         13.7         1.6         0.0         -3.5           Foods.         0.002         133.1         129.4         127.2         0.8         -1.7         0.0         -2.1           Energy.         6.610         79.9         84.4         86.3         21.7         2.3         0.1         -5.3           Services.         38.393         112.5         113.5         114.5         2.6			1	1			1		1		0.7
Transportation and warehousing of goods.         0.563         112.9         113.8         114.3         3.7         0.4         0.8         0.7           Services less trade, transportation, and warehousing.         1.105         108.0         108.5         108.9         1.8         0.4         0.3         -0.1           Construction.         0.062         113.2         113.3         113.8         2.5         0.4         0.1         0.2           Inputs to stage 3 services producers.         49.745         107.1         108.6         109.8         4.8         1.1         0.4         -0.9           Goods.         10.345         88.3         91.6         93.1         13.7         1.6         0.0         -3.5           Foods.         0.002         133.1         129.4         127.2         0.8         -1.7         0.0         -2.1           Energy.         6.610         79.9         84.4         86.3         21.7         2.3         0.1         -5.3           Goods excluding foods and energy.         37.33         106.2         106.6         107.2         1.2         0.6         0.1         -0.1           Services.         2.605         125.3         125.7         128.4			1	l			1				0.3 1.6
Services less trade, transportation, and warehousing.         1.105         108.0         108.5         108.9         1.8         0.4         0.3         -0.1           Construction.         0.062         113.2         113.3         113.8         2.5         0.4         0.1         0.2           Inputs to stage 3 services producers.         49.745         107.1         108.6         109.8         4.8         1.1         0.4         -0.9           Goods.         10.345         88.3         91.6         93.1         13.7         1.6         0.0         -3.5           Foods.         0.002         133.1         129.4         127.2         0.8         -1.7         0.0         -2.1           Energy.         6.610         79.9         84.4         86.3         21.7         2.3         0.1         -5.3           Goods excluding foods and energy.         3.733         106.2         106.6         107.2         1.2         0.6         0.1         -0.1           Services.         2.605         125.3         125.7         128.4         5.2         2.1         -0.6         0.7           Transportation and warehousing services.         9.181         123.2         125.7         128.8 <td< td=""><td></td><td></td><td>1</td><td>I</td><td></td><td></td><td>1</td><td></td><td>1</td><td></td><td>0.3</td></td<>			1	I			1		1		0.3
Construction         0.062         113.2         113.3         113.8         2.5         0.4         0.1         0.2           Inputs to stage 3 services producers.         49.745         107.1         108.6         109.8         4.8         1.1         0.4         -0.9           Goods.         10.345         88.3         91.6         93.1         13.7         1.6         0.0         -3.5           Foods.         0.002         133.1         129.4         127.2         0.8         -1.7         0.0         -2.1           Energy.         6.610         79.9         84.4         86.3         21.7         2.3         0.1         -5.3           Goods excluding foods and energy.         3.733         106.2         106.6         107.2         1.2         0.6         0.1         -0.1           Services.         38.393         112.5         113.5         114.5         2.6         0.9         0.5         -0.2           Trade services.         2.605         125.3         125.7         128.4         5.2         2.1         -0.6         0.7           Transportation and warehousing services.         9.181         123.2         125.7         125.8         2.2         0.1		1	1	I			1		1		0.6
Inputs to stage 3 services producers.	, ,	1	1	I			1		1		0.6
Goods.         10.345         88.3         91.6         93.1         13.7         1.6         0.0         -3.5           Foods.         0.002         133.1         129.4         127.2         0.8         -1.7         0.0         -2.1           Energy.         6.610         79.9         84.4         86.3         21.7         2.3         0.1         -5.3           Goods excluding foods and energy.         3.733         106.2         106.6         107.2         1.2         0.6         0.1         -0.1           Services.         2.605         125.3         113.5         114.5         2.6         0.9         0.5         -0.2           Trade services.         2.605         125.3         125.7         128.4         5.2         2.1         -0.6         0.7           Transportation and warehousing services.         9.181         123.2         125.7         125.8         2.2         0.1         0.8         0.5           Transportation and warehousing of goods.         9.150         123.4         125.9         126.0         2.1         0.1         0.7         0.5           Services less trade, transportation, and warehousing.         26.607         110.0         110.5         111.7		1	1	I			1		1		0.8
Energy.       6.610       79.9       84.4       86.3       21.7       2.3       0.1       -5.3         Goods excluding foods and energy.       3.733       106.2       106.6       107.2       1.2       0.6       0.1       -0.1         Services.       38.393       112.5       113.5       114.5       2.6       0.9       0.5       -0.2         Trade services.       2.605       125.3       125.7       128.4       5.2       2.1       -0.6       0.7         Transportation and warehousing services.       9.181       123.2       125.7       125.8       2.2       0.1       0.8       0.5         Transportation of passengers.       0.031       114.2       116.9       117.7       4.2       0.7       0.1       -0.1         Transportation and warehousing of goods.       9.150       123.4       125.9       126.0       2.1       0.1       0.7       0.5         Services less trade, transportation, and warehousing.       26.607       110.0       110.5       111.7       2.5       1.1       0.6       -0.5         Construction.       1.007       113.2       113.3       113.8       2.5       0.4       0.1       0.2         Inputs to stage			10.345	I	91.6	93.1	1	1.6	0.0		0.3
Goods excluding foods and energy.     3.733     106.2     106.6     107.2     1.2     0.6     0.1     -0.1       Services.     38.393     112.5     113.5     114.5     2.6     0.9     0.5     -0.2       Trade services.     2.605     125.3     125.7     128.4     5.2     2.1     -0.6     0.7       Transportation and warehousing services.     9.181     123.2     125.7     125.8     2.2     0.1     0.8     0.5       Transportation of passengers.     0.031     114.2     116.9     117.7     4.2     0.7     0.1     -0.1       Transportation and warehousing of goods.     9.150     123.4     125.9     126.0     2.1     0.1     0.7     0.5       Services less trade, transportation, and warehousing.     26.607     110.0     110.5     111.7     2.5     1.1     0.6     -0.5       Construction.     1.007     113.2     113.3     113.8     2.5     0.4     0.1     0.2       Inputs to stage 3 construction producers.     1.873     93.7     95.0     96.1     11.4     1.2     -0.2     -1.4       Goods.     1.423     85.0     86.4     87.7     14.6     1.5     0.0     -2.1       Energy.		1	0.002	133.1	129.4	127.2	0.8	-1.7	0.0	-2.1	-1.8
Services.       38.393       112.5       113.5       114.5       2.6       0.9       0.5       -0.2         Trade services.       2.605       125.3       125.7       128.4       5.2       2.1       -0.6       0.7         Transportation and warehousing services.       9.181       123.2       125.7       125.8       2.2       0.1       0.8       0.5         Transportation of passengers.       0.031       114.2       116.9       117.7       4.2       0.7       0.1       -0.1         Transportation and warehousing of goods.       9.150       123.4       125.9       126.0       2.1       0.1       0.7       0.5         Services less trade, transportation, and warehousing.       26.607       110.0       110.5       111.7       2.5       1.1       0.6       -0.5         Construction.       1.007       113.2       113.3       113.8       2.5       0.4       0.1       0.2         Inputs to stage 3 construction producers.       1.873       93.7       95.0       96.1       11.4       1.2       -0.2       -1.4         Goods.       1.423       85.0       86.4       87.7       14.6       1.5       0.0       -2.1         Energy. </td <td>Energy</td> <td> </td> <td>6.610</td> <td>79.9</td> <td>84.4</td> <td>86.3</td> <td>21.7</td> <td>2.3</td> <td>0.1</td> <td>-5.3</td> <td>0.4</td>	Energy		6.610	79.9	84.4	86.3	21.7	2.3	0.1	-5.3	0.4
Trade services.       2.605       125.3       125.7       128.4       5.2       2.1       -0.6       0.7         Transportation and warehousing services.       9.181       123.2       125.7       125.8       2.2       0.1       0.8       0.5         Transportation of passengers.       0.031       114.2       116.9       117.7       4.2       0.7       0.1       -0.1         Transportation and warehousing of goods.       9.150       123.4       125.9       126.0       2.1       0.1       0.7       0.5         Services less trade, transportation, and warehousing.       26.607       110.0       110.5       111.7       2.5       1.1       0.6       -0.5         Construction.       1.007       113.2       113.3       113.8       2.5       0.4       0.1       0.2         Inputs to stage 3 construction producers.       1.873       93.7       95.0       96.1       11.4       1.2       -0.2       -1.4         Goods.       1.423       85.0       86.4       87.7       14.6       1.5       0.0       -2.1         Energy.       0.641       65.0       66.4       67.9       32.6       2.3       -0.6       -4.7         Goods excludi	Goods excluding foods and energy		3.733	106.2	106.6	107.2	1.2	0.6	0.1	-0.1	0.6
Transportation and warehousing services.     9.181     123.2     125.7     125.8     2.2     0.1     0.8     0.5       Transportation of passengers.     0.031     114.2     116.9     117.7     4.2     0.7     0.1     -0.1       Transportation and warehousing of goods.     9.150     123.4     125.9     126.0     2.1     0.1     0.7     0.5       Services less trade, transportation, and warehousing.     26.607     110.0     110.5     111.7     2.5     1.1     0.6     -0.5       Construction.     1.007     113.2     113.3     113.8     2.5     0.4     0.1     0.2       Inputs to stage 3 construction producers.     1.873     93.7     95.0     96.1     11.4     1.2     -0.2     -1.4       Goods.     1.423     85.0     86.4     87.7     14.6     1.5     0.0     -2.1       Energy.     0.641     65.0     66.4     67.9     32.6     2.3     -0.6     -4.7       Goods excluding foods and energy.     0.782     116.3     118.0     118.7     2.8     0.6     0.5     0.3	Services		38.393	112.5	113.5	114.5	2.6	0.9	0.5	-0.2	1.0
Transportation of passengers.     0.031     114.2     116.9     117.7     4.2     0.7     0.1     -0.1       Transportation and warehousing of goods.     9.150     123.4     125.9     126.0     2.1     0.1     0.7     0.5       Services less trade, transportation, and warehousing.     26.607     110.0     110.5     111.7     2.5     1.1     0.6     -0.5       Construction.     1.007     113.2     113.3     113.8     2.5     0.4     0.1     0.2       Inputs to stage 3 construction producers.     1.873     93.7     95.0     96.1     11.4     1.2     -0.2     -1.4       Goods.     1.423     85.0     86.4     87.7     14.6     1.5     0.0     -2.1       Energy.     0.641     65.0     66.4     67.9     32.6     2.3     -0.6     -4.7       Goods excluding foods and energy.     0.782     116.3     118.0     118.7     2.8     0.6     0.5     0.3		1	2.605	125.3	125.7	128.4	5.2	2.1	-0.6	0.7	2.1
Transportation and warehousing of goods.       9.150       123.4       125.9       126.0       2.1       0.1       0.7       0.5         Services less trade, transportation, and warehousing.       26.607       110.0       110.5       111.7       2.5       1.1       0.6       -0.5         Construction.       1.007       113.2       113.3       113.8       2.5       0.4       0.1       0.2         Inputs to stage 3 construction producers.       1.873       93.7       95.0       96.1       11.4       1.2       -0.2       -1.4         Goods.       1.423       85.0       86.4       87.7       14.6       1.5       0.0       -2.1         Energy.       0.641       65.0       66.4       67.9       32.6       2.3       -0.6       -4.7         Goods excluding foods and energy.       0.782       116.3       118.0       118.7       2.8       0.6       0.5       0.3	Transportation and warehousing services		9.181	123.2	125.7	125.8	2.2	0.1	0.8	0.5	0.2
Services less trade, transportation, and warehousing.       26.607       110.0       110.5       111.7       2.5       1.1       0.6       -0.5         Construction.       1.007       113.2       113.3       113.8       2.5       0.4       0.1       0.2         Inputs to stage 3 construction producers.       1.873       93.7       95.0       96.1       11.4       1.2       -0.2       -1.4         Goods.       1.423       85.0       86.4       87.7       14.6       1.5       0.0       -2.1         Energy.       0.641       65.0       66.4       67.9       32.6       2.3       -0.6       -4.7         Goods excluding foods and energy.       0.782       116.3       118.0       118.7       2.8       0.6       0.5       0.3			1	I			1		1		1.7
Construction.         1.007         113.2         113.3         113.8         2.5         0.4         0.1         0.2           Inputs to stage 3 construction producers.         1.873         93.7         95.0         96.1         11.4         1.2         -0.2         -1.4           Goods.         1.423         85.0         86.4         87.7         14.6         1.5         0.0         -2.1           Energy.         0.641         65.0         66.4         67.9         32.6         2.3         -0.6         -4.7           Goods excluding foods and energy.         0.782         116.3         118.0         118.7         2.8         0.6         0.5         0.3		1	1	I			1				0.2
Inputs to stage 3 construction producers.     1.873     93.7     95.0     96.1     11.4     1.2     -0.2     -1.4       Goods.     1.423     85.0     86.4     87.7     14.6     1.5     0.0     -2.1       Energy.     0.641     65.0     66.4     67.9     32.6     2.3     -0.6     -4.7       Goods excluding foods and energy.     0.782     116.3     118.0     118.7     2.8     0.6     0.5     0.3	· · · · · · · · · · · · · · · · · · ·	1	1	I			1		1		1.1
Goods.     1.423     85.0     86.4     87.7     14.6     1.5     0.0     -2.1       Energy.     0.641     65.0     66.4     67.9     32.6     2.3     -0.6     -4.7       Goods excluding foods and energy.     0.782     116.3     118.0     118.7     2.8     0.6     0.5     0.3			1	1			1		1		0.6
Energy.     0.641     65.0     66.4     67.9     32.6     2.3     -0.6     -4.7       Goods excluding foods and energy.     0.782     116.3     118.0     118.7     2.8     0.6     0.5     0.3		1	1	I			1		1		-0.2
Goods excluding foods and energy			1	I			1		1		-0.1
	•	1	1	I			1		1		-1.2
- CONTINUED - 110.0   1.7		1	1	I			1		1		0.7 -0.3
Trade services. 0.409   117.8   118.1   118.0   1.6   -0.1   -0.8   0.9			1	I			1		1		-0.3
Transportation and warehousing services. 0.001 113.6 116.5 117.3 4.4 0.7 0.0 -0.2			1	I			1				1.9

Table 3. Producer price indexes and percent changes for intermediate demand by production flow<sup>1</sup> — Continued

[Nov. 2009=100, unless otherwise indicated]

base         Dec. 2016²         Dec. 2016³         Mar. 2017³         Apr. 2017³ <th>Grouping</th> <th>Other index</th> <th>Relative Impor- tance</th> <th>Ur</th> <th>nadjusted in</th> <th>dex</th> <th>change to</th> <th>ed percent Apr. 2017 om:</th> <th></th> <th>onally adj nt change</th> <th></th>	Grouping	Other index	Relative Impor- tance	Ur	nadjusted in	dex	change to	ed percent Apr. 2017 om:		onally adj nt change	
Services less trade, transportation, and warehousing.	Chotping	1	Dec.							ı	Mar. to Apr.
Signe 2   100,000   101,7   101,3   103,7   7,5   2,4   100   -1,9   100,000   101,7   101,3   103,7   7,5   2,4   100   -1,9   100,000   101,7   101,3   103,7   7,5   2,4   100   -1,9   100,000   13,5   14,2   -0,4   -4,3   10,5	Transportation of passengers		0.001	113.6	116.5	117.3	4.4	0.7	0.0	-0.2	1.9
Slage 2 Informediate demand.	Services less trade, transportation, and warehousing		0.040	104.5	104.6	104.7	1.2	0.1	0.1	0.0	0.1
pouts braigne 2 goods producers											
Goods		1	1				1				2.2
Foods		1	1						1		4.1
Energy		1	1				1				4.7 -3.4
Services   20.662   105.7   109.1   110.0   7.4   0.8   1.0   1.4   1.5   1.			1				1				14.9
Transportation and warehousing services.  3.27   13.2   13.2   13.3   0.9   0.4   1.2   Transportation and warehousing services.  3.27   13.2   13.27   13.31   13.2   1.3   0.9   0.4   1.2   Transportation and warehousing of goods.  3.031   13.25   13.27   133.1   13.27   13.31   1.4   0.3   0.2   0.1   Services less trade, transportation, and warehousing.  2.195   101.7   10.29   103.4   2.9   0.5   0.9   0.5   Construction.  0.433   13.22   13.33   11.33	•		1								0.8
Transportation and warehousing services.    0,24	Services		5.881	113.4	114.3	114.6	2.0	0.3	0.4	-0.1	0.4
Transportation of passengers.  7. Transportation and warehousing of goods.  8. 30.31 132.5 132.7 133.1 1.4 0.3 0.2 0.1 0.2 0.1 Services liess trade, transportation, and warehousing.  9. 2195 101.7 102.9 103.4 2.9 0.5 0.9 0.5 0.9 0.5 0.9 0.5 0.0 0.5 0.0 0.5 0.0 0.5 0.0 0.5 0.0 0.5 0.0 0.5 0.0 0.5 0.0 0.5 0.0 0.5 0.0 0.0		1	1			113.2	1	-0.9		1.2	-1.0
Transportation and warehousing of goods   3.031   132.5   132.7   133.1   1.4   0.3   0.2   0.1		1	1								0.4
Services less trade, transportation, and warehousing.			1						l .		1.8
Construction.		1	1				1				0.3 0.5
Inputs to stage 2 services producers		1	1				1				0.6
Goods			1				1				0.8
Energy		1	5.450		105.7	106.6	3.0	0.9	0.2		0.7
Goods excluding bods and energy.		1	1								-0.5
Services		1	1								0.5
Transportation of warehousing services.  7.136  7.136  1.14.0  1.15.1  1.16.6  1.17.4  1.16.7  1.16.6  1.17.4  1.16.7  1.16.6  1.17.4  1.16.7  1.16.6  1.17.4  1.16.7  1.16.6  1.17.4  1.16.7  1.16.6  1.17.4  1.17.1  1.16.6  1.17.4  1.17.2  1.16.6  1.17.4  1.17.2  1.17.2  1.17.1  1.17.2	0,		1				1				0.7 0.9
Transportation and warehousing services.  7.138   114.0   116.5   116.6   2.4   0.1   0.7   0.4   Transportation of passengers  8.283   113.7   116.5   117.4   44   0.7   0.0   0.1   Transportation and warehousing of goods.  8.243   114.7   117.1   117.2   2.1   0.1   0.9   0.4   Services less trade, transportation, and warehousing.  8.100   1.377   113.2   113.3   113.8   2.5   0.4   0.1   0.2    Stage 1 intermediate demand.  100.000   106.5   108.8   109.9   6.5   1.0   0.6   0.1   Inputs to stage 1 goods producers.  8.269   104.8   106.9   106.9   109.9   9.9   0.9   1.0   0.6   Goods.  9.269   104.8   106.9   106.9   109.9   109.9   109.9   Energy.  5.260   104.8   106.9   106.1   0.5   0.7   1.9   -1.9   Energy.  5.260   104.8   106.9   106.1   0.5   0.7   1.9   -1.9   Energy.  5.260   104.8   106.9   106.1   0.5   0.7   0.6   0.3   Energy.  5.260   104.8   106.9   106.1   0.5   0.7   0.6   0.3   Energy.  5.260   104.8   106.9   106.1   0.5   0.7   0.6   0.3   Energy.  5.270   104.8   106.9   106.1   0.5   0.7   0.6   0.3   Energy.  5.271   112.1   113.6   115.6   115.6   115.6   0.7   0.6   0.3   Energy.  5.272   112.1   113.6   115.5   115.5   115.5   115.5   115.5   115.5   115.5   Energy.  6.280   115.5   115.5   115.5   115.5   115.5   115.5   115.5   Energy.  7.242   112.1   113.6   115.5   115.5   115.5   115.5   115.5   Energy.  8.280   115.5   115.5   115.5   115.5   115.5   115.5   115.5   Energy.  8.280   115.5   115.5   115.5   115.5   115.5   115.5   115.5   Energy.  8.280   115.5   115.5   115.5   115.5   115.5   115.5   Energy.  8.280   125.5   125.5   125.5   125.5   125.5   Energy.  8.280   125.5   125.5   125.5   125.5   125.5   Energy.  8.280   125.5   125.5   125.5   125.5   125.5   Energy.  8.280   125.5   125.5   125.5   Energy.  8.280   125.5   125.5   125.5   Energy.  8.280   125.5   125.5		1	1								-1.9
Transportation of passengers		1	1				1				0.4
Services less trade, transportation, and warehousing.		1	1								1.8
Stage 1   13.77   113.2   113.3   113.8   2.5   0.4   0.1   0.2		1	6.243	114.7	117.1	117.2	2.1	0.1	0.9	0.4	0.3
Stage 1   100,000   106.5   108.8   109.9   6.5   1.0   0.6   -0.1   Inputs to stage 1 goods producers.   45,955   102.0   105.9   108.9   9.9   0.9   1.0   0.6   Goods.   36,835   99.4   103.9   104.9   12.4   1.0   0.9   0.9   1.0   0.6   1.0	Services less trade, transportation, and warehousing		41.024	110.8	111.6	112.8	3.3	1.1	0.3		1.1
Stage   Intermediate demand.	Construction		1.377	113.2	113.3	113.8	2.5	0.4	0.1	0.2	0.6
Registrost stage 1 goods producers.	Stage 1										
Goods.		1	1				1				0.9
Foods		1	1				1				0.7
Energy		1	1				1				0.6 -1.1
Goods excluding foods and energy.   29,209   103,3   108,9   109,4   11,7   0.5   1.0   2.2			1								4.1
Trade services.         7.042         112.1         113.6         114.5         0.5         0.8         1.6         -0.3           Transportation and warehousing services.         1.366         115.6         116.0         116.6         1.7         0.5         0.4         -0.3           Transportation of passengers.         0.204         113.6         116.6         117.3         4.4         0.8         0.0         -0.2           Transportation and warehousing of goods.         1.162         115.7         115.6         116.1         1.1         0.4         0.5         -0.3           Services less trade, transportation, and warehousing.         0.906         100.3         101.5         101.4         0.1         -0.1         -0.3         1.0           Construction.         0.006         103.3         113.5         112.9         3.9         1.3         0.4         -0.7           Goods.         1.3858         99.4         100.7         111.5         112.9         3.9         1.3         0.4         -0.7           Goods.         1.3858         99.4         100.7         101.3         7.2         0.6         0.1         -0.8           Energy.         5.607         88.9         90.9		1	1								0.1
Transportation and warehousing services.         1.366         115.6         116.0         116.6         1.7         0.5         0.4         -0.3           Transportation of passengers.         0.204         113.6         116.4         117.3         4.4         0.8         0.0         -0.2           Transportation and warehousing of goods.         1.162         115.7         115.6         116.1         1.1         0.4         0.5         -0.3           Services less trade, transportation, and warehousing.         0.906         100.3         101.5         101.4         0.1         -0.1         0.3         1.0           Construction.         0.006         113.2         113.3         113.8         2.5         0.4         0.1         0.2           Inputs to stage 1 services producers.         46.009         110.7         111.5         112.9         3.9         1.3         0.4         -0.7           Goods.         118.58         99.4         100.7         101.3         7.2         0.6         0.1         -0.8           Foods.         0.087         85.6         82.7         86.7         -9.6         4.8         4.8         0.5           Energy.         5.607         88.9         90.9 <t< td=""><td>Services</td><td></td><td>9.314</td><td>110.5</td><td>111.9</td><td>112.6</td><td>0.7</td><td>0.6</td><td>1.3</td><td>-0.1</td><td>0.6</td></t<>	Services		9.314	110.5	111.9	112.6	0.7	0.6	1.3	-0.1	0.6
Transportation of passengers.         0.204         113.6         116.4         117.3         4.4         0.8         0.0         -0.2           Transportation and warehousing of goods.         1.162         115.7         115.6         116.1         1.1         0.4         0.5         -0.3           Services less trade, transportation, and warehousing.         0.006         100.3         101.5         101.4         0.1         -0.1         0.3         1.0           Construction.         0.006         113.2         113.3         113.8         2.5         0.4         0.1         0.2           Inputs to stage 1 services producers.         46.009         110.7         111.5         112.9         3.9         1.3         0.4         -0.7           Goods.         13.858         99.4         100.7         101.3         7.2         0.6         0.1         -0.8           Foods.         0.087         85.6         82.7         86.7         -9.6         4.8         -4.8         0.5           Energy.         5.607         88.9         90.9         91.9         16.5         1.1         0.1         -2.4           Services.         32.147         116.2         116.7         118.5         2.5<		1	1								0.8
Transportation and warehousing of goods.         1.162         115.7         115.6         116.1         1.1         0.4         0.5         -0.3           Servicese less trade, transportation, and warehousing.         0.906         100.3         101.5         101.4         0.1         -0.1         0.3         1.0           Construction.         0.006         113.2         113.3         113.8         2.5         0.4         0.1         0.2           Inputs to stage 1 services producers.         46.009         110.7         111.5         112.9         3.9         1.3         0.4         -0.7           Goods.         13.858         99.4         100.7         101.3         7.2         0.6         0.1         -0.8           Foods.         0.087         85.6         82.7         86.7         -9.6         4.8         -4.8         0.5           Energy.         5.607         88.9         90.9         91.9         16.5         1.1         0.1         -2.4           Goods excluding foods and energy.         8.164         111.4         112.2         112.5         1.7         0.3         0.2         0.4           Services.         32.147         116.2         116.7         118.5		1	1								0.7
Services less trade, transportation, and warehousing.         0.906         100.3         101.5         101.4         0.1         -0.1         0.3         1.0           Construction.         0.006         113.2         113.3         113.8         2.5         0.4         0.1         0.2           Inputs to stage 1 services producers.         46.009         110.7         111.5         111.9         3.9         1.3         0.4         -0.7           Goods.         13.858         99.4         100.7         101.3         7.2         0.6         0.1         -0.8           Foods.         0.087         85.6         82.7         86.7         -9.6         4.8         -4.8         0.5           Energy.         5.607         88.9         90.9         91.9         16.5         1.1         0.1         -2.4           Services.         32.147         116.2         116.7         118.5         2.5         1.5         0.4         -0.8           Trade services.         4.128         112.6         112.8         114.9         4.0         1.9         0.2         0.1           Transportation and warehousing services.         2.348         122.5         124.4         124.9         3.0 <t< td=""><td></td><td>1</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1.9 0.3</td></t<>		1	1								1.9 0.3
Construction.         0.006         113.2         113.3         113.8         2.5         0.4         0.1         0.2           Inputs to stage 1 services producers.         46.009         110.7         111.5         112.9         3.9         1.3         0.4         -0.7           Goods.         13.858         99.4         100.7         101.3         7.2         0.6         0.1         -0.8           Foods.         0.087         85.6         82.7         86.7         -9.6         4.8         -4.8         0.5           Energy.         5.607         88.9         90.9         91.9         16.5         1.1         0.1         -2.4           Goods excluding foods and energy.         8.164         111.4         112.2         112.5         1.7         0.3         0.2         0.4           Services.         32.147         116.2         116.7         118.5         2.5         1.5         0.4         -0.8           Trade services.         4.128         112.6         112.8         114.9         4.0         1.9         0.2         0.1           Transportation and warehousing services.         2.348         122.5         124.4         124.9         3.0         0.4 <t< td=""><td></td><td>1</td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-0.1</td></t<>		1	1								-0.1
Services	· · · · · · · · · · · · · · · · · · ·	1	1				1				0.6
Foods	Inputs to stage 1 services producers		46.009	110.7	111.5	112.9	3.9	1.3	0.4	-0.7	1.3
Energy			1				1				0.2
Goods excluding foods and energy.       8.164       111.4       112.2       112.5       1.7       0.3       0.2       0.4         Services.       32.147       116.2       116.7       118.5       2.5       1.5       0.4       -0.8         Track services.       4.128       112.6       112.8       114.9       4.0       1.9       0.2       0.1         Transportation and warehousing services.       2.348       122.5       124.4       124.9       3.0       0.4       0.0       0.0         Transportation of passengers.       1.447       113.5       116.4       117.2       4.4       0.7       0.0       -0.2         Transportation and warehousing of goods.       0.901       127.0       126.8       126.8       0.6       0.0       0.1       0.2         Services less trade, transportation, and warehousing.       25.671       116.3       116.8       118.6       2.2       1.5       0.5       -0.8         Construction.       0.004       113.2       113.3       113.8       2.5       0.4       0.1       0.2         Inputs to stage 1 construction producers.       8.037       109.7       111.3       111.7       3.1       0.4       0.2       0.1			1								1.8
Services.       32.147       116.2       116.7       118.5       2.5       1.5       0.4       -0.8         Trade services.       4.128       112.6       112.8       114.9       4.0       1.9       0.2       0.1         Transportation and warehousing services.       2.348       122.5       124.4       124.9       3.0       0.4       0.0       0.0         Transportation of passengers.       1.447       113.5       116.4       117.2       4.4       0.7       0.0       -0.2         Transportation and warehousing of goods.       0.901       127.0       126.8       126.8       0.6       0.0       0.1       0.2         Services less trade, transportation, and warehousing.       25.671       116.3       116.8       118.6       2.2       1.5       0.5       -0.8         Construction.       0.004       113.2       113.3       113.8       2.5       0.4       0.1       0.2         Inputs to stage 1 construction producers.       8.037       109.7       111.3       111.7       3.1       0.4       0.2       0.1         Goods.       5.589       107.9       109.8       110.4       3.9       0.5       0.3       0.0         Energy. </td <td></td> <td>1</td> <td>1</td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td>0.0</td>		1	1				1				0.0
Trade services.         4.128         112.6         112.8         114.9         4.0         1.9         0.2         0.1           Transportation and warehousing services.         2.348         122.5         124.4         124.9         3.0         0.4         0.0         0.0           Transportation of passengers.         1.447         113.5         116.4         117.2         4.4         0.7         0.0         -0.2           Transportation and warehousing of goods.         0.901         127.0         126.8         126.8         0.6         0.0         0.1         0.2           Services less trade, transportation, and warehousing.         25.671         116.3         116.8         118.6         2.2         1.5         0.5         -0.8           Construction.         0.004         113.2         113.3         113.8         2.5         0.4         0.1         0.2           Inputs to stage 1 construction producers.         8.037         109.7         111.3         111.7         3.1         0.4         0.2         0.1           Goods.         5.589         107.9         109.8         110.4         3.9         0.5         0.3         0.0           Energy.         0.435         74.2         79.3		1	1								0.4 1.7
Transportation and warehousing services.       2.348       122.5       124.4       124.9       3.0       0.4       0.0       0.0         Transportation of passengers.       1.447       113.5       116.4       117.2       4.4       0.7       0.0       -0.2         Transportation and warehousing of goods.       0.901       127.0       126.8       126.8       0.6       0.0       0.1       0.2         Services less trade, transportation, and warehousing.       25.671       116.3       116.8       118.6       2.2       1.5       0.5       -0.8         Construction.       0.004       113.2       113.3       113.8       2.5       0.4       0.1       0.2         Inputs to stage 1 construction producers.       8.037       109.7       111.3       111.7       3.1       0.4       0.2       0.1         Goods.       8.037       109.7       111.3       110.4       3.9       0.5       0.3       0.0         Energy.       0.435       74.2       79.3       81.9       25.2       3.3       1.2       -2.7         Goods excluding foods and energy.       5.154       113.7       115.2       115.5       2.2       0.3       0.2       0.3			1				1				1.9
Transportation and warehousing of goods.       0.901       127.0       126.8       126.8       0.6       0.0       0.1       0.2         Services less trade, transportation, and warehousing.       25.671       116.3       116.8       118.6       2.2       1.5       0.5       -0.8         Construction.       0.004       113.2       113.3       113.8       2.5       0.4       0.1       0.2         Inputs to stage 1 construction producers.       8.037       109.7       111.3       111.7       3.1       0.4       0.2       0.1         Goods.       5.589       107.9       109.8       110.4       3.9       0.5       0.3       0.0         Energy.       0.435       74.2       79.3       81.9       25.2       3.3       1.2       -2.7         Goods excluding foods and energy.       5.154       113.7       115.5       2.2       0.3       0.2       0.3         Services.       2.448       113.3       114.2       114.0       1.5       -0.2       0.1       0.4         Trade services.       1.793       113.4       114.1       113.8       1.2       -0.3       -0.5       0.7         Transportation and warehousing services.       0.09			1				1				1.3
Services less trade, transportation, and warehousing.       25.671       116.3       116.8       118.6       2.2       1.5       0.5       -0.8         Construction.       0.004       113.2       113.3       113.8       2.5       0.4       0.1       0.2         Inputs to stage 1 construction producers.       8.037       109.7       111.3       111.7       3.1       0.4       0.2       0.1         Goods.       5.589       107.9       109.8       110.4       3.9       0.5       0.3       0.0         Energy.       0.435       74.2       79.3       81.9       25.2       3.3       1.2       -2.7         Goods excluding foods and energy.       5.154       113.7       115.5       2.2       0.3       0.2       0.3         Services.       2.448       113.3       114.2       114.0       1.5       -0.2       0.1       0.4         Trade services.       1.793       113.4       114.1       113.8       1.2       -0.3       -0.5       0.7         Transportation and warehousing services.       0.091       107.3       107.8       108.4       1.9       0.6       1.1       -0.3         Transportation and warehousing of goods.       0.0	Transportation of passengers		1.447	113.5	116.4	117.2	4.4	0.7	0.0	-0.2	1.9
Construction         0.004         113.2         113.3         113.8         2.5         0.4         0.1         0.2           Inputs to stage 1 construction producers.         8.037         109.7         111.3         111.7         3.1         0.4         0.2         0.1           Goods.         5.589         107.9         109.8         110.4         3.9         0.5         0.3         0.0           Energy.         0.435         74.2         79.3         81.9         25.2         3.3         1.2         -2.7           Goods excluding foods and energy.         5.154         113.7         115.2         115.5         2.2         0.3         0.2         0.3           Services.         2.448         113.3         114.2         114.0         1.5         -0.2         0.1         0.4           Trade services.         1.793         113.4         114.1         113.8         1.2         -0.3         -0.5         0.7           Transportation and warehousing services.         0.091         107.3         107.8         108.4         1.9         0.6         1.1         -0.3           Transportation and warehousing of goods.         0.070         106.4         106.2         106.7         1.0			1	127.0	126.8	126.8	0.6	0.0			0.2
Inputs to stage 1 construction producers.   8.037   109.7   111.3   111.7   3.1   0.4   0.2   0.1			1				1				1.7
Goods.         5.589         107.9         109.8         110.4         3.9         0.5         0.3         0.0           Energy.         0.435         74.2         79.3         81.9         25.2         3.3         1.2         -2.7           Goods excluding foods and energy.         5.154         113.7         115.2         115.5         2.2         0.3         0.2         0.3           Services.         2.448         113.3         114.2         114.0         1.5         -0.2         0.1         0.4           Transportation and warehousing services.         1.793         113.4         114.1         113.8         1.2         -0.3         -0.5         0.5         0.5         0.5         0.5         0.5         0.1         0.4           Transportation and warehousing services.         0.091         107.3         107.8         108.4         1.9         0.6         1.1         -0.3           Transportation of passengers.         0.021         113.6         116.5         117.3         4.4         0.7         0.0         -0.2           Transportation and warehousing of goods.         0.070         106.4         106.2         106.7         1.0         0.5         1.5         -0.4 <td></td> <td>1</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.6</td>		1	1								0.6
Energy       0.435       74.2       79.3       81.9       25.2       3.3       1.2       -2.7         Goods excluding foods and energy.       5.154       113.7       115.2       115.5       2.2       0.3       0.2       0.3         Services.       2.448       113.3       114.2       114.0       1.5       -0.2       0.1       0.4         Trade services.       1.793       113.4       114.1       113.8       1.2       -0.3       -0.5       0.7         Transportation and warehousing services.       0.091       107.3       107.8       108.4       1.9       0.6       1.1       -0.3         Transportation of passengers.       0.021       113.6       116.5       117.3       4.4       0.7       0.0       -0.2         Transportation and warehousing of goods.       0.070       106.4       106.2       106.7       1.0       0.5       1.5       -0.4			1								0.0 0.2
Goods excluding foods and energy.       5.154       113.7       115.2       115.5       2.2       0.3       0.2       0.3         Services.       2.448       113.3       114.2       114.0       1.5       -0.2       0.1       0.4         Trade services.       1.793       113.4       114.1       113.8       1.2       -0.3       -0.5       0.7         Transportation and warehousing services.       0.091       107.3       107.8       108.4       1.9       0.6       1.1       -0.3         Transportation of passengers.       0.021       113.6       116.5       117.3       4.4       0.7       0.0       -0.2         Transportation and warehousing of goods.       0.070       106.4       106.2       106.7       1.0       0.5       1.5       -0.4		1	1								-0.1
Services.     2.448     113.3     114.2     114.0     1.5     -0.2     0.1     0.4       Trade services.     1.793     113.4     114.1     113.8     1.2     -0.3     -0.5     0.7       Transportation and warehousing services.     0.091     107.3     107.8     108.4     1.9     0.6     1.1     -0.3       Transportation of passengers.     0.021     113.6     116.5     117.3     4.4     0.7     0.0     -0.2       Transportation and warehousing of goods.     0.070     106.4     106.2     106.7     1.0     0.5     1.5     -0.4	••	1	1				1				0.2
Transportation and warehousing services.       0.091       107.3       107.8       108.4       1.9       0.6       1.1       -0.3         Transportation of passengers.       0.021       113.6       116.5       117.3       4.4       0.7       0.0       -0.2         Transportation and warehousing of goods.       0.070       106.4       106.2       106.7       1.0       0.5       1.5       -0.4		1	1	113.3	114.2	114.0	1	-0.2	0.1	0.4	-0.4
Transportation of passengers.       0.021       113.6       116.5       117.3       4.4       0.7       0.0       -0.2         Transportation and warehousing of goods.       0.070       106.4       106.2       106.7       1.0       0.5       1.5       -0.4			1								-0.6
Transportation and warehousing of goods			1								0.8
			1								1.9 0.5
	·	1	1				1				-0.1
Special groupings	Special groupings										
Total goods inputs to stage 4 intermediate demand	Total goods inputs to stage 4 intermediate demand	04/10	52.771	105.3	106.7	107.2	3.1	0.5	0.3	0.2	0.3

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 ind	dex	change to	ed percent Apr. 2017 om:		onally adj nt change	
	base	Dec. 2016 <sup>2</sup>	Dec. 2016 <sup>3</sup>	Mar. 2017 <sup>3</sup>	Apr. 2017 <sup>3</sup>	Apr. 2016	Mar. 2017	Jan. to Feb.	Feb. to Mar.	Mar. to Apr.
Total services inputs to stage 4 intermediate demand	04/10	47.091	112.2	113.3	114.3	2.9	0.9	0.8	-0.2	0.9
Total construction inputs to stage 4 intermediate demand	04/10	0.137	112.3	112.4	112.9	2.5	0.4	0.2	0.2	0.5
Total foods inputs to stage 4 intermediate demand	04/10	5.257	109.5	110.9	111.3	1.1	0.4	-0.1	0.7	-0.1
Total energy goods inputs to stage 4 intermediate demand	04/10	5.247	85.0	89.1	90.1	14.2	1.1	0.8	-1.4	0.6
Total goods less foods and energy inputs to stage 4 intermediate demand	04/10	42.267	108.5	109.6	110.0	2.1	0.4	0.3	0.3	0.3
Total goods inputs to stage 3 intermediate demand	04/10	51.132	98.2	102.1	102.1	6.2	0.0	1.1	0.3	-0.6
Total services inputs to stage 3 intermediate demand	04/10	47.797	110.7	111.7	112.6	2.4	8.0	0.6	-0.2	0.9
Total construction inputs to stage 3 intermediate demand	04/10	1.069	112.3	112.4	112.9	2.5	0.4	0.2	0.2	0.5
Total foods inputs to stage 3 intermediate demand	04/10	11.277	108.5	116.2	113.2	0.1	-2.6	2.0	1.9	-3.2
Total energy goods inputs to stage 3 intermediate demand	04/10	9.296	75.7	80.3	81.7	21.6	1.7	0.8	-3.8	-0.1
Total goods less foods and energy inputs to stage 3 intermediate demand	04/10	30.559	103.7	105.9	106.4	4.6	0.5	0.7	1.0	0.3
Total goods inputs to stage 2 intermediate demand	04/10	42.929	86.2	84.5	88.2	14.0	4.4	-0.5	-4.4	4.1
Total services inputs to stage 2 intermediate demand	04/10	55.260	111.8	112.8	113.7	3.0	8.0	0.4	0.0	8.0
Total construction inputs to stage 2 intermediate demand	04/10	1.810	112.3	112.4	112.9	2.5	0.4	0.2	0.2	0.5
Total foods inputs to stage 2 intermediate demand	04/10	4.015	111.1	111.9	109.5	-0.3	-2.1	2.1	-3.4	-3.4
Total energy goods inputs to stage 2 intermediate demand	04/10	13.214	67.5	59.7	68.2	40.3	14.2	-3.6	-15.5	14.4
Total goods less foods and energy inputs to stage 2 intermediate demand	04/10	25.700	99.7	102.4	103.3	6.4	0.9	0.8	1.2	8.0
Total goods inputs to stage 1 intermediate demand	04/10	56.082	90.0	93.1	93.8	10.2	8.0	0.6	0.3	0.4
Total services inputs to stage 1 intermediate demand	04/10	43.909	113.8	114.5	116.0	2.1	1.3	0.6	-0.5	1.3
Total construction inputs to stage 1 intermediate demand	04/10	0.010	112.3	112.4	112.9	2.5	0.4	0.2	0.2	0.5
Total foods inputs to stage 1 intermediate demand	04/10	2.146	98.0	99.7	99.2	0.1	-0.5	1.6	-1.8	-1.0
Total energy goods inputs to stage 1 intermediate demand	04/10	11.409	84.2	85.9	88.2	19.4	2.7	0.0	-3.8	1.8
Total goods less foods and energy inputs to stage 1 intermediate demand	04/10	42.527	89.7	93.2	93.6	8.6	0.4	0.8	1.6	0.1

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

<sup>&</sup>lt;sup>2</sup> Comprehensive relative importance figures are initially computed after the publication of December indexes and are recalculated after final December indexes are available. Individual items and subtotals may not add exactly to totals because of rounding differences.

The indexes for December 2016 have been recalculated to incorporate late reports and corrections by respondents. All indexes are subject to revision 4 months after original publication.

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

Table 4. Producer price indexes and percent changes for selected commodity groupings by final demand category<sup>1</sup>
[1982=100, unless otherwise indicated]

Grouping	Commodity	Other index	Un	adjusted in	dex	change to	ed percent Apr. 2017 om:		onally adj nt change	
	code	base	Dec. 2016 <sup>2</sup>	Mar. 2017 <sup>2</sup>	Apr. 2017 <sup>2</sup>	Apr. 2016	Mar. 2017	Jan. to Feb.	Feb. to Mar.	Mar. to Apr.
Final demand		11/09	111.0	112.2	112.7	2.5	0.4	0.3	-0.1	0.5
Final demand goods		11/09	108.7	110.3	111.0	4.0	0.6	0.3	-0.1	0.5
Final demand foods		11/09	113.9	115.4	116.7	1.5	1.1	0.3	0.9	0.9
Fresh fruits and melons	. 01-11		141.9	138.9	167.6	26.1	20.7	0.7	7.7	19.8
Fresh and dry vegetables <sup>3</sup>	. 01-13		171.8	211.4	271.6	41.5	28.5	16.2	7.1	28.5
Grains	. 01-2		130.3	136.2	135.6	-2.9	-0.4	2.8	-4.6	-0.4
Eggs for fresh use		12/91	144.7	101.7	104.9	12.1	3.1	-13.5	7.6	15.0
Oilseeds.			184.5	178.7	168.6	-1.6	-5.7	3.3	-8.0	-8.5
Bakery products <sup>3</sup>	<b>I</b>		277.0	278.5	278.3	-0.1	-0.1	0.2	0.2	-0.1
Milled rice <sup>3</sup>			180.9	173.4	172.9	-8.7	-0.3	-0.6	-3.5	-0.3
Pasta products.		06/85	202.6	201.8	201.6	-4.4	-0.1	0.0	0.4	-0.8
Beef and veal.			184.4	191.4	195.0	-10.1	1.9	-3.7	4.1	-1.1
Pork			139.0	143.1	137.5	0.3	-3.9	0.7	1.0	-3.3
Processed young chickens			168.4	172.6	173.6	5.1	0.6	-0.7	2.6	-0.9
Processed turkeys.			145.5	141.7	142.2	-2.6	0.4	-0.1	5.1	-0.1
Finfish and shellfish			336.9	353.7	333.0	-0.7	-5.9	-1.8	6.5	-6.6
Dairy products.			197.0	195.6	193.2	3.9	-1.2	0.0	-0.6	-1.4
Processed fruits and vegetables <sup>3</sup>			201.1 273.2	202.2	201.8	2.1	-0.2	0.5 -0.5	0.1	-0.2
Confectionery end products <sup>3</sup>			204.2	273.6	275.7	-1.9	0.8		0.4	0.8
Roasted coffee <sup>3</sup>			192.8	203.6 193.8	202.6 194.0	-1.9 -2.8	-0.5 0.1	0.3 1.9	0.1 -0.9	-0.5 0.1
Shortening and cooking oils <sup>3</sup>			249.0	265.1	264.8	10.5	-0.1	-0.6	4.0	-0.1
Frozen specialty food <sup>3</sup>	<b>I</b>		186.9	186.9	186.5	-0.5	-0.1	-0.4	0.1	-0.1
Final demand energy.		11/09	93.9	97.1	98.9	14.3	1.9	0.6	-2.9	0.8
Liquefied petroleum gas <sup>3</sup>		11/03	152.9	121.9	128.2	35.2	5.2	9.7	-20.4	5.2
Residential electric power.		12/90	171.3	175.6	174.6	3.5	-0.6	1.8	0.3	-0.4
Residential natural gas.		12/90	191.0	194.9	196.9	14.2	1.0	0.3	0.7	2.0
Gasoline.		12/00	155.2	164.8	177.1	26.0	7.5	-2.5	-8.3	3.9
Home heating oil and distillates			141.9	155.3	149.5	55.7	-3.7	-0.1	-4.7	-5.2
No. 2 diesel fuel			158.8	161.6	164.6	33.2	1.9	-0.2	-4.4	-1.7
Final demand goods less foods and energy	<b>I</b>	11/09	111.6	112.7	113.0	2.3	0.3	0.1	0.4	0.3
Alcoholic beverages <sup>3</sup>	<b>I</b>		193.7	196.8	195.4	1.2	-0.7	0.5	0.7	-0.7
Pet food <sup>3</sup>	<b>I</b>		259.1	258.9	258.7	-0.1	-0.1	0.0	0.0	-0.1
Women's, girls', and infants' apparel3	. 03-81-06	12/03	106.0	106.2	105.8	0.3	-0.4	-0.3	-0.1	-0.4
Men's and boys' apparel <sup>3</sup>		12/03	113.2	114.1	114.1	1.2	0.0	0.1	0.6	0.0
Textile housefurnishings <sup>3</sup>	. 03-82		165.8	166.1	166.2	1.5	0.1	0.1	0.1	0.1
Footwear <sup>3</sup>			199.0	199.6	199.0	-0.4	-0.3	0.7	-0.2	-0.3
Industrial chemicals	. 06-1		241.5	251.8	256.5	14.2	1.9	1.0	2.6	1.2
Pharmaceutical preparations	. 06-38	06/01	234.7	243.7	243.7	6.5	0.0	0.4	0.5	0.6
Soaps and detergents <sup>3</sup>	. 06-71		178.0	177.6	177.6	0.4	0.0	-0.5	0.3	0.0
Cleaning and polishing products <sup>3</sup>	. 06-72	06/83	176.6	177.3	177.3	0.8	0.0	-0.1	-0.2	0.0
Cosmetics and other toiletries <sup>3</sup>	. 06-75		162.6	162.8	162.8	0.4	0.0	0.0	0.0	0.0
Tires <sup>3</sup>			143.5	143.2	143.2	-0.5	0.0	0.8	0.3	0.0
Consumer, institutional, and commercial products, n.e.c.3		12/06	127.8	129.6	129.1	1.0	-0.4	-0.2	1.0	-0.4
Sanitary paper products <sup>3</sup>	. 09-15-01		182.7	180.9	182.3	0.2	0.8	-0.1	-1.0	0.8
Agricultural machinery and equipment <sup>3</sup>			226.2	226.0	226.6	1.3	0.3	0.0	0.0	0.3
Construction machinery and equipment			219.4	220.7	220.1	0.6	-0.3	-0.1	0.3	-0.3
Metal cutting machine tools <sup>3</sup>	<b>I</b>		199.0	199.2	199.6	0.2	0.2	-0.2	-0.2	0.2
Metal forming machine tools <sup>3</sup>			220.3	223.4	223.5	0.7	0.0	-0.4	0.0	0.0
Tools, dies, jigs, fixtures, and industrial molds <sup>3</sup>			150.0	150.4	150.2	0.3	-0.1	0.5	-0.3	-0.1
Pumps, compressors, and equipment			247.7	249.8	249.4	0.9	-0.2	0.3	0.3	-0.1
Industrial material handling equipment	<b>I</b>	10/00	210.2	211.8	212.2	1.6	0.2	0.3	-0.3	0.1
Electronic computers and computer equipment <sup>3</sup>	<b>I</b>	12/98	27.6	27.3	27.6	-1.1	1.1	-1.1	0.0	1.1
Textile machinery and equipment <sup>3</sup>		00/00	171.4	171.4	171.4	-2.1	0.0	0.0	0.0	0.0
Paper industries machinery <sup>3</sup> Printing trades machinery and equipment <sup>3</sup>		06/82	219.2	219.3	219.3	-0.4	0.0	0.0	0.0	0.0
			163.8	162.6	162.9	-0.8	0.2	-0.6	0.4	0.2
Transformers and power regulators <sup>3</sup>		12/85	210.2 108.7	213.5 110.2	215.1 110.3	3.2 0.9	0.7 0.1	0.1 -0.8	1.7 0.5	0.7 0.0
Electronic components and accessories.	<b>I</b>	12/05	66.9	67.1	67.7	0.9	0.1	0.0	-0.6	0.0
X-ray and electromedical equipment <sup>3</sup>	<b>I</b>		86.6	67.1 86.7	67.7 86.7	-0.8	0.9	0.0	-0.6 0.0	0.9
Oil field and gas field machinery <sup>3</sup>			214.6			-0.8	0.0	0.3		0.0
Mining machinery and equipment.			265.0	214.3 265.0	214.4 265.5	0.7	0.0	0.1	0.0 -0.1	0.0
Office and store machines and equipment <sup>3</sup>			123.3	123.6	123.4	0.7	-0.2	0.0	-0.1 0.2	-0.2
Household furniture.			206.2	207.5	207.9	1.4	0.2	0.0	0.2	0.2
Commercial furniture <sup>3</sup>			214.8	207.5	207.9	1.4	0.2	0.6	-0.2	0.3
Floor coverings <sup>3</sup>			186.0	184.2	184.3	-1.8	0.3	-0.1	-0.2 -0.8	0.3
Household appliances <sup>3</sup>			115.1	115.9	116.0	0.1	0.1	-0.1	0.4	0.1
Household appliances	12-4		113.1	110.8	110.0	0.1	U. I	-0.0	0.4	0.1

Table 4. Producer price indexes and percent changes for selected commodity groupings by final demand category<sup>1</sup> — Continued
[1982=100, unless otherwise indicated]

Grouping	Commodity code	Other index	Un	adjusted inc	dex		ed percent Apr. 2017 m:		onally adj nt change	
. 0	code	base	Dec. 2016 <sup>2</sup>	Mar. 2017 <sup>2</sup>	Apr. 2017 <sup>2</sup>	Apr. 2016	Mar. 2017	Jan. to Feb.	Feb. to Mar.	Mar. to Apr.
Home electronic equipment <sup>3</sup>	12-5		51.6	51.6	51.6	0.4	0.0	0.2	-0.2	0.0
	12-6A	12/11	103.0	-	103.0	3.7	-	_	_	-
	12-66		144.3	144.8	144.4	0.9	-0.3	0.0	0.3	-0.3
Passenger cars	14-11-01		135.6	135.7	135.9	2.1	0.1	0.1	0.4	0.4
3	14-11-05		177.6	176.5	176.2	2.0	-0.2	-0.4	1.3	0.1
Heavy motor trucks <sup>3</sup>	14-11-06		223.7	226.9	227.1	2.1	0.1	0.0	0.3	0.1
Motor vehicles parts <sup>3</sup>	14-12		125.0	124.8	125.0	0.1	0.2	0.1	0.2	0.2
Truck trailers <sup>3</sup>	14-14	00/04	200.8	202.8	202.0	0.6	-0.4	0.0	0.3	-0.4
Travel trailers and campers <sup>3</sup>	14-16	06/84	196.7	197.0	199.9	2.3	1.5	0.1	0.1	1.5
	14-21	10/05	293.4	294.6	295.0	1.0	0.1	0.1	0.2	0.1
Ships <sup>3</sup>	14-31	12/85	223.9 201.8	224.1 203.1	224.6 203.5	0.1 0.2	0.2 0.2	0.0 1.1	0.1 -0.5	0.2 0.2
· ·	15-11		155.3	155.9	154.4	-1.0	-1.0	-1.0	1.2	-1.0
Sporting and athletic goods <sup>3</sup>			137.4	137.4	137.7	-2.5	0.2	0.0	0.0	0.2
Cigarettes <sup>3</sup>			959.7	959.7	980.8	7.6	2.2	0.0	0.0	2.2
Mobile homes <sup>3</sup>			273.7	275.8	280.9	3.4	1.8	0.0	0.0	1.8
	15-6		178.0	178.3	178.1	0.2	-0.1	0.1	-0.1	-0.1
	15-94-02		230.3	234.8	235.8	5.3	0.4	1.2	-0.7	0.4
	15-94-04		179.5	181.0	181.4	1.0	0.2	0.2	-0.2	0.2
Final demand services.		11/09	111.8	112.9	113.3	1.8	0.4	0.4	-0.1	0.4
Final demand trade services <sup>4</sup>		11/09	113.0	114.7	114.4	1.1	-0.3	0.4	-0.1	-0.3
	57-11-01	03/09	119.0	116.7	118.0	0.2	1.1	-0.2	-1.2	1.1
	57-2	03/09	95.6	90.5	91.8	0.1	1.4	-3.0	-2.7	1.4
	57-5	03/09	96.5	103.9	106.5	3.8	2.5	7.1	-0.4	2.5
Paper and plastics products wholesaling <sup>3</sup>	57-6	03/09	118.2	113.4	116.2	1.0	2.5	1.7	-5.5	2.5
Apparel wholesaling <sup>3</sup>		03/09	117.5	117.4	118.7	2.1	1.1	5.2	-1.0	1.1
Food and alcohol wholesaling <sup>3</sup>	57-8	06/09	106.8	108.1	106.8	-0.9	-1.2	0.2	0.4	-1.2
Food and alcohol retailing	58-1	03/09	129.0	133.2	130.0	-0.2	-2.4	-0.4	2.1	-2.5
Health, beauty, and optical goods retailing <sup>3</sup>	58-2	03/09	119.2	116.6	114.7	-2.1	-1.6	1.9	-3.5	-1.6
Apparel, jewelry, footwear, and accessories retailing	58-3	06/09	111.6	120.4	117.6	-0.1	-2.3	1.3	-3.1	-2.1
Computer hardware, software, and supplies retailing <sup>3</sup>	58-4	03/09	93.2	97.5	95.8	-3.2	-1.7	4.4	2.8	-1.7
TV, video, and photographic equipment and supplies retailing <sup>3</sup>	58-5	03/09	53.0	67.5	70.8	45.7	4.9	11.3	5.3	4.9
Automobiles and automobile parts retailing <sup>3</sup>	58-6	06/09	94.7	95.0	94.1	-2.0	-0.9	0.2	0.6	-0.9
Manufactured (mobile) homes retailing <sup>3</sup>	58-7	03/09	106.3	106.3	106.3	3.5	0.0	0.0	0.0	0.0
RVs, trailers, and campers retailing <sup>3</sup>	58-8	03/09	105.6	98.8	101.2	-6.9	2.4	0.6	-4.0	2.4
1 00 , 0	58-9	03/09	112.8	114.5	114.6	1.2	0.1	-0.5	1.7	0.1
7 0 7	58-A	03/09	104.8	105.5	105.7	1.1	0.2	0.1	0.8	0.2
	58-B	03/09	109.5	108.5	107.6	2.3	-0.8	-0.6	0.6	-0.8
	58-C	03/09	100.9	101.8	102.0	-3.1	0.2	0.7	0.4	0.2
, , , , , ,	58-D	03/09	114.7	118.3	115.0	1.4	-2.8	-1.7	4.0	-3.4
,	58-E	03/09	81.5	87.3	82.0	1.7	-6.1	-2.1	-2.0	-8.5
· ·	58-F	06/09	135.8	162.0	138.3	2.1	-14.6	-8.0	13.8	-14.6
	58-G	03/09	149.8	151.8	156.0	4.7	2.8	-0.6	0.5	2.8
3	58-H	03/09	105.5	104.0	103.8	-6.6	-0.2	4.9	-4.0	-0.2
Final demand transportation and warehousing services	00.11	11/09	114.7	115.7	116.2	2.2	0.4	0.3	-0.2	0.7
,	30-11	12/08	115.4	116.3	116.9	4.0	0.5	0.8	0.8	0.3
	30-12	06/09	113.0	113.1	113.5	1.2	0.4	0.1	-0.4	0.4
	30-14	12/08	111.6	109.2	108.3	-2.2	-0.8	-0.8	1.1	-0.8
, , , , , , , , , , , , , , , , , , , ,	30-16 30-21	06/09	130.1	134.3	134.2	2.7	-0.1	0.6	0.3	0.4
	30-21	12/08 12/08	117.9 111.6	119.4 114.4	119.4	2.2 4.3	0.0 0.8	1.3 0.0	0.0 -0.2	0.0 2.0
Final demand services less trade, transportation, and warehousing	30-22	11/09	111.0	111.8	115.3 112.6	2.1	0.8	0.0	-0.2	0.8
Sales of books <sup>3</sup>	33-11	11/09	370.8	377.1	379.8	2.3	0.7	0.5	0.9	0.8
	33-12	06/09	112.2	114.3	114.3	2.3	0.0	1.3	0.9	0.0
	34-2	06/09	98.1	101.1	101.4	-0.1	0.0	3.5	1.8	0.0
Advertising space sales in periodicals, newspapers, directories, and	36-1	06/09	106.1	106.4	106.5	0.1	0.1	0.1	0.6	0.0
· ·	37-11	06/09	132.2	134.2	134.3	3.3	0.1	0.1	1.0	0.5
	37-21	03/09	69.2	65.6	67.1	-7.4	2.3	-3.8	-0.3	1.5
•	37-21	12/08	119.2	123.4	122.9	3.5	-0.4	-0.5	2.5	-0.7
	37-4	03/09	97.6	97.6	97.3	-0.6	-0.4	0.0	0.0	-0.7
Bundled wired telecommunications access services <sup>3</sup>		12/11	105.1	102.5	102.3	-1.7	-0.2	0.5	0.5	-0.3
_	39-12	06/09	110.9	102.3	113.7	-1.7	5.3	1.0	-4.9	5.3
" / -	39-2	04/09	61.7	62.0	61.3	-1.0	-1.1	-0.6	1.3	-1.1
	39-3	04/09	98.4	98.4	98.2	-0.5	-0.2	0.2	-0.1	-0.2
Other credit intermediation, incl. trust services (partial) <sup>3</sup>							٠.ــ	J	٠	J
Securities brokerage, dealing, investment advice, and related	40-11	06/09	135.3	130.6	139.2	9.5	6.6	-0.7	-3.8	6.6

Table 4. Producer price indexes and percent changes for selected commodity groupings by final demand category<sup>1</sup> — Continued
[1982=100, unless otherwise indicated]

Grouping	Commodity code	Other index	Un	adjusted ind	dex	change to	ed percent Apr. 2017 om:		onally adj	
	code	base	Dec. 2016 <sup>2</sup>	Mar. 2017 <sup>2</sup>	Apr. 2017 <sup>2</sup>	Apr. 2016	Mar. 2017	Jan. to Feb.	Feb. to Mar.	Mar. to Apr.
Life insurance <sup>3</sup>	41-11-01	03/09	104.6	104.3	104.3	0.1	0.0	0.0	0.2	0.0
Disability insurance, including accidental death <sup>3</sup>	41-11-02	03/09	102.0	103.4	103.4	0.9	0.0	0.0	0.9	0.0
Health and medical insurance	41-11-03	03/09	120.3	124.3	124.6	4.0	0.2	0.6	2.2	0.2
Property and casualty insurance <sup>3</sup>	41-11-04	03/09	116.9	117.0	117.0	1.7	0.0	0.7	0.0	0.0
Annuities <sup>3</sup>	41-2	03/09	112.7	113.2	115.4	3.3	1.9	-0.1	-0.1	1.9
Residential property sales and leases, brokerage fees and commissions.	43-21	12/08	124.5	125.8	126.6	5.5	0.6	0.1	0.9	0.8
Passenger car rental.	44-1	03/09	81.7	-	81.3	-2.2	0.0	-1.6	-	-
Legal services.		03/09	122.8	126.6	126.7	3.7	0.1	2.6	-1.0	-0.1
Tax preparation and planning.		04/09	111.7	113.4	110.5	-1.3	-2.6	0.2	-2.4	-1.9
Architectural and engineering services <sup>3</sup>	45-21-02	06/09	111.7	113.4	113.2	2.8	0.0	2.2	-0.4	0.0
Management, scientific, and technical consulting services <sup>3</sup>	45-4	06/09	105.0	106.5	106.1	0.7	-0.4	0.7	0.9	-0.4
Arrangement of flights (partial) <sup>3</sup>	47-1	06/09	105.0	106.5	106.7	7.7	0.2	9.8	-1.1	0.2
Arrangement of vehicle rentals and lodging <sup>3</sup>	47-2	12/08	85.1	91.2	91.1	5.1	-0.1	0.5	3.4	-0.1
Arrangement of cruises and tours <sup>3</sup>	47-3	12/08	104.0	104.0	109.1	2.6	4.9	-2.1	3.8	4.9
Physician care		03/09	106.8	107.3	107.3	0.6	0.0	0.0	0.2	0.1
Medical laboratory and diagnostic imaging care <sup>3</sup>		03/09	97.4	97.7	97.7	0.0	0.0	-0.1	0.0	0.0
Home health and hospice care <sup>3</sup>	51-11-03	12/08	106.2	106.2	106.4	0.4	0.2	0.0	0.0	0.0
Hospital outpatient care.	51-11-04	12/08	122.8	123.1	123.6	2.0	0.4	0.3	0.2	0.6
Dental care		06/10	113.5	114.4	114.2	2.8	-0.2	0.4	-0.3	-0.1
Hospital inpatient care.	51-21-01	12/08	122.2	122.6	122.1	1.7	-0.4	0.2	0.2	-0.2
Nursing home care	51-21-02	12/08	117.5	118.2	118.3	3.0	0.1	0.5	-0.1	0.2
Computer training school services <sup>3</sup>	52-1	12/08	107.2	107.7	107.9	4.6	0.2	0.1	0.1	0.2
Traveler accommodation services	53-11	06/09	106.3	114.1	120.1	7.2	5.3	4.3	-1.1	7.5
Food and beverages for immediate consumption services (partial) <sup>3</sup>	54-1	06/09	117.3	118.4	118.4	2.3	0.0	0.5	0.2	0.0
Motor vehicle repair and maintenance (partial)	55-2	12/08	127.6	128.2	128.7	1.8	0.4	0.0	0.8	0.5
Membership dues and admissions and recreation facility use fees										
(partial)	56-1	06/09	116.9	118.3	119.1	2.2	0.7	0.7	0.0	1.0
Recreational activity instruction fees (partial) <sup>3</sup>	56-2	12/08	114.4	114.5	114.3	-0.1	-0.2	0.0	0.0	-0.2
Gaming receipts (partial) <sup>3</sup>	56-3	12/08	109.0	110.0	111.6	1.8	1.5	-1.4	3.1	1.5
Mining services <sup>3</sup>	60-1	06/85	222.5	229.6	229.5	0.1	0.0	2.7	0.4	0.0
Final demand construction		11/09	114.5	115.0	115.5	1.0	0.4	-0.1	0.2	0.4
New warehouse building construction <sup>3</sup>	80-11-01	12/04	143.9	144.8	145.8	1.7	0.7	0.0	0.1	0.7
New school building construction <sup>3</sup>	80-11-02	12/05	150.7	151.7	152.1	0.3	0.3	0.1	0.0	0.3
New office building construction <sup>3</sup>	80-11-03	06/06	128.9	129.6	130.3	1.6	0.5	-0.3	0.3	0.5
New industrial building construction <sup>3</sup>	80-11-04	06/07	119.7	119.9	120.8	0.7	0.8	-0.2	0.0	0.8
New health care building construction <sup>3</sup>	80-11-05	06/12	106.2	105.9	106.3	0.0	0.4	0.0	0.0	0.4

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

<sup>&</sup>lt;sup>2</sup> The indexes for December 2016 have been recalculated to incorporate late reports and corrections by respondents. All indexes are subject to revision 4 months after original

<sup>&</sup>lt;sup>3</sup> Not seasonally adjusted.

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

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

Table 5. Producer price indexes and percent changes for selected commodity groupings of intermediate demand by commodity type category<sup>1</sup>
[1982=100, unless otherwise indicated]

Grouping	Commodity	Other	Un	adjusted in	dex	Unadjuste change to fro	Apr. 2017		onally adj nt change	
Стобриц	code	base	Dec. 2016 <sup>2</sup>	Mar. 2017 <sup>2</sup>	Apr. 2017 <sup>2</sup>	Apr. 2016	Mar. 2017	Jan. to Feb.	Feb. to Mar.	Mar. to Apr.
Processed goods for intermediate demand			184.6	188.2	189.4	5.4	0.6	0.4	0.1	0.5
Processed foods and feeds			187.5	188.9	188.8	1.0	-0.1	-0.1	0.6	-0.6
Meats	02-21		167.9	172.5	173.7	-4.9	0.7	-0.9	2.0	-0.5
Processed poultry	02-22		160.2	162.2	162.5	1.7	0.2	0.3	3.3	-1.2
, ,	l		197.0	195.6	193.2	3.9	-1.2	0.0	-0.6	-1.4
· ·	02-4		201.1	202.2	201.8	2.1	-0.2	0.5	0.1	-0.2
0 71	02-53		159.0	160.3	161.2	-3.3	0.6	0.1	0.7	0.6
	02-7		249.2	261.1	260.8	8.1	-0.1	-0.4	2.9	-0.1
·	02-9		189.0	188.8	187.9	3.5	-0.5	0.8	0.2	-1.3
Processed materials less foods and feeds	00.4		184.4	188.2	189.6	5.8	0.7	0.5	0.0	0.6
· ·	03-1		118.7	121.0	121.8	2.4	0.7	0.1	0.0	0.7
Processed yarns and threads <sup>3</sup>	03-2		133.2	137.4	138.1	3.8	0.5	1.6	0.2	0.5
Liquefied petroleum gas <sup>3</sup>			152.9	153.2 121.9	154.4 128.2	0.2	0.8 5.2	-0.5	0.1 -20.4	0.8 5.2
	05-32		152.9 190.0	121.9	126.2	35.2 3.5	-0.7	9.7 1.2	0.2	0.1
·	05-42		211.7	234.8	235.5	16.4	0.3	1.8	0.2	1.5
·	05-43	12/90	184.5	188.4	235.5 189.1	15.9	0.3	-0.3	0.5	1.5
=	05-52	12/90	156.5	152.4	159.5	13.9	4.7	-0.3	-6.2	6.4
Natural gas to electric utilities.	05-53	12/90	165.7	155.0	169.0	10.5	9.0	-2.4 -5.7	-0.∠ -11.0	13.5
· ·	05-54	12/30	155.2	164.8	177.1	26.0	7.5	-2.5	-8.3	3.9
	05-71		155.2	166.1	159.7	41.0	-3.9	4.5	-5.6	-6.1
	05-73-03		158.8	161.6	164.6	33.2	1.9	-0.2	-4.4	-1.7
	05-74		119.5	147.2	141.8	77.5	-3.7	10.7	-1.9	-3.7
	05-76		382.8	384.2	388.5	3.1	1.1	-0.4	0.5	1.1
	05-78	06/09	91.2	97.5	95.1	25.6	-2.5	4.8	1.6	-2.5
	05-81-02	06/85	128.4	166.9	162.0	49.4	-2.9	19.4	17.5	-10.1
Basic inorganic chemicals <sup>3</sup>	06-13		248.4	252.0	253.7	-0.9	0.7	0.4	0.4	0.7
· ·	06-14		240.9	252.5	257.9	17.7	2.1	1.1	3.0	1.3
•	06-21		271.4	272.4	272.9	0.3	0.2	0.3	-0.3	0.2
Paint materials <sup>3</sup>	06-22		230.5	229.4	226.6	-3.0	-1.2	1.0	-1.5	-1.2
Medicinal and botanical chemicals <sup>3</sup>	06-31		175.3	174.5	174.5	-0.5	0.0	0.1	0.1	0.0
Biological products, including diagnostics <sup>3</sup>	06-37		264.1	263.4	264.6	-0.6	0.5	0.3	-0.9	0.5
Fats and oils, inedible	06-4		234.0	223.7	221.4	4.1	-1.0	-4.0	-6.2	-3.0
Nitrogenates	06-52-01		223.0	252.4	260.5	-5.5	3.2	7.0	3.9	-0.3
·	06-52-02		173.6	179.9	186.8	-7.0	3.8	0.2	2.3	3.8
· ·	06-53		179.5	186.1	186.3	0.1	0.1	-1.4	3.2	0.1
	06-6		218.4	229.1	232.7	8.9	1.6	1.0	3.0	1.8
•	06-79-03		240.3	241.4	244.2	9.3	1.2	0.1	-0.1	1.2
	06-79-04	12/83	250.1	251.8	253.5	1.6	0.7	0.0	0.0	0.7
Synthetic rubber <sup>3</sup>			202.1	240.8	235.5	24.3	-2.2	9.5	6.1	-2.2
	07-12-01		143.5	143.2	143.2	-0.5	0.0	0.8	0.3	0.0
	07-21		212.4	214.0	215.4	2.2	0.7	0.2	-0.6	0.9
	07-22		210.8	215.7	217.6	4.3	0.9	0.8	1.8	0.9
5 · · · · · · · · · · · · · · · · · · ·	07-26	10/00	148.5	148.3	148.5	0.1	0.1	0.1	0.2	0.1
Plastic packaging products <sup>3</sup>	07-2A	12/06	107.7	108.8	109.4	1.6	0.6	-0.4	0.0	0.6
Softwood lumber <sup>3</sup>	08-11		202.1	217.6	224.2	13.3	3.0	4.8	2.3	3.0
	08-12 08-2		216.4	220.7	213.9	-2.5 3.0	-3.1	0.0 0.5	0.5	-3.1
	08-2		241.6 188.9	244.9 195.0	247.0 201.0	3.0 4.8	0.9 3.1	0.5	0.5 3.2	0.8 3.1
•	09-13		187.0	186.0	186.3	-0.2	0.2	0.0	0.3	0.2
Paperboard <sup>3</sup>			240.7	243.2	250.1	8.5	2.8	-0.9	0.7	2.8
·	09-15-03		253.6	257.2	257.2	4.2	0.0	0.6	0.7	0.0
Building paper and board <sup>3</sup>	l		207.4	214.6	218.8	11.2	2.0	1.8	1.1	2.0
Commercial printing <sup>3</sup>		06/82	170.4	170.4	170.3	0.3	-0.1	0.2	0.0	-0.1
Foundry and forge shop products <sup>3</sup>		00/02	205.9	206.0	206.5	-1.1	0.2	0.2	0.0	0.2
Steel mill products <sup>3</sup>			173.9	186.7	188.1	16.8	0.7	2.5	3.1	0.7
Primary nonferrous metals <sup>3</sup>			174.9	181.1	183.4	12.0	1.3	3.7	-0.5	1.3
Secondary nonferrous metals <sup>3</sup>			214.2	221.1	224.3	9.1	1.4	2.5	0.6	1.4
Aluminum mill shapes <sup>3</sup>			170.5	177.3	180.2	11.2	1.6	2.6	1.5	1.6
Copper and brass mill shapes <sup>3</sup>	10-25-02		378.6	381.6	381.4	19.6	-0.1	6.5	-3.1	-0.1
11	10-26		230.9	230.8	233.1	3.5	1.0	0.7	-0.1	1.0
	10-28		207.3	210.0	211.6	2.4	0.8	0.3	0.8	0.8
Metal containers <sup>3</sup>	10-3		146.1	146.5	149.6	3.5	2.1	0.1	0.1	2.1
Hardware <sup>3</sup>	10-4		211.8	212.0	213.1	1.2	0.5	0.0	-0.5	0.5
Plumbing fixtures and brass fittings	10-5		258.0	260.0	260.0	1.0	0.0	0.5	-0.1	0.0
Heating equipment <sup>3</sup>		1	254.3	255.4	254.9	1.6	-0.2	0.4	0.0	-0.2
ricating equipment										

Table 5. Producer price indexes and percent changes for selected commodity groupings of intermediate demand by commodity type category<sup>1</sup> — Continued [1982=100, unless otherwise indicated]

Grouping	Commodity	Other index	Un	adjusted in	dex	change to	ed percent Apr. 2017 om:		onally adj nt change	
	code	base	Dec. 2016 <sup>2</sup>	Mar. 2017 <sup>2</sup>	Apr. 2017 <sup>2</sup>	Apr. 2016	Mar. 2017	Jan. to Feb.	Feb. to Mar.	Mar. to Apr.
Bolts, nuts, screws, rivets, and washers <sup>3</sup>	10-81	00/82	191.2	191.8	191.8	0.1	0.0	-0.1	0.2	0.0
Lighting fixtures <sup>3</sup>	10-83	00/82	168.9	171.0	171.6	1.5	0.4	0.1	0.5	0.4
Fabricated ferrous wire products <sup>3</sup>	10-88	06/82	219.0	219.7	219.7	0.1	0.0	0.1	0.2	0.0
Other miscellaneous metal products <sup>3</sup>			155.9	156.5	156.7	0.3	0.1	0.3	-0.1	0.1
Fluid power equipment <sup>3</sup>	1		249.2	250.5	250.8	1.1	0.1	0.2	0.2	0.1
Mechanical power transmission equipment <sup>3</sup>	1		260.4	261.6	261.8	0.8	0.1	0.2	0.0	0.1
Air conditioning and refrigeration equipment <sup>3</sup>	1		181.8	184.6	183.9	1.8	-0.4	1.0	0.5	-0.4
Metal valves, except fluid power		12/82	309.4	312.5	313.3	1.9	0.3	0.2	0.2	0.3
Ball and roller bearings			255.4	258.0	257.9 228.8	1.1	0.0 0.4	0.2	1.0	0.0 0.4
Motors, generators, motor generator sets <sup>3</sup>			227.6 209.7	227.9 210.8	220.0	1.2 0.9	0.4	0.0	0.0 -0.2	0.4
Switchgear, switchboard, and industrial controls equip. <sup>3</sup>			219.4	219.2	218.3	-0.2	-0.4	-0.8	0.5	-0.4
Electronic components and accessories	1		66.9	67.1	67.7	0.6	0.9	0.0	-0.6	0.9
Internal combustion engines <sup>3</sup>	1		164.1	165.9	166.2	1.1	0.2	0.1	0.1	0.2
Machine shop products <sup>3</sup>	1		184.9	185.0	184.9	0.6	-0.1	0.0	0.0	-0.1
Flat glass <sup>3</sup>	13-11		132.6	132.9	132.9	1.3	0.0	0.0	0.1	0.0
Cement			236.0	241.8	244.0	3.7	0.9	2.1	-0.1	-0.9
Concrete products			249.2	251.9	254.8	3.3	1.2	0.3	0.3	8.0
Asphalt felts and coatings			220.3	219.2	222.8	0.7	1.6	-1.0	1.1	0.2
Paving mixtures and blocks <sup>3</sup>	1		288.4	300.0	289.9	-1.9	-3.4	-2.1	-1.0	-3.4
Motor vehicle parts <sup>3</sup>			125.0	124.8	125.0	0.1	0.2	0.1	0.2	0.2
Aircraft engines and engine parts	1	12/85	224.4	224.2	224.6	0.4	0.2	-0.3	0.2	0.4
Aircraft parts and auxiliary equipment, n.e.c		06/85	185.2 178.0	185.5 178.3	185.6 178.1	0.5 0.2	0.1 -0.1	0.0	-0.1 -0.1	0.2 -0.1
Unprocessed goods for intermediate demand			185.4	187.1	193.8	13.9	3.6	-0.2	-4.2	3.3
Unprocessed foodstuffs and feedstuffs	1		158.2	169.3	166.9	-0.1	-1.4	2.2	0.8	-2.3
Wheat <sup>3</sup>			113.1 134.9	124.8 140.0	122.3 139.9	-4.4 -1.4	-2.0 -0.1	4.3 2.4	-1.0 -5.6	-2.0 -0.1
Slaughter cattle.	1		164.6	188.5	187.5	-5.9	-0.1	0.6	3.6	0.1
Slaughter hogs.	1		70.5	89.2	78.8	-8.1	-11.7	17.4	-8.2	-10.7
Slaughter chickens			221.6	266.9	266.4	10.9	-0.2	7.0	5.8	-3.9
Slaughter turkeys			241.4	208.6	205.5	-16.0	-1.5	-0.7	-1.5	-3.6
Raw milk	01-6		143.4	131.7	123.6	8.0	-6.2	-1.6	1.6	-5.0
Alfalfa hay	01-81		244.7	229.2	261.5	3.7	14.1	-11.9	-7.8	11.0
Oilseeds			184.5	178.7	168.6	-1.6	-5.7	3.3	-8.0	-8.5
Raw cane sugar and byproducts <sup>3</sup>			163.0	169.9	164.7	4.6	-3.1	1.5	1.1	-3.1
Unprocessed nonfood materials	1		196.2	189.9	203.8	25.7	7.3	-1.6	-7.6	7.4
Raw cotton <sup>3</sup>			114.0 213.8	121.5 225.3	120.6 221.6	28.8 6.2	-0.7 -1.6	1.7 1.3	4.3 3.6	-0.7 -1.6
Coal.	1		192.5	198.3	200.4	6.3	1.1	-2.1	-1.4	1.6
Natural gas <sup>3</sup>			132.5	97.7	122.2	74.1	25.1	-18.0	-30.0	25.1
Crude petroleum <sup>3</sup>	1		138.7	128.4	148.6	41.1	15.7	8.0	-10.8	15.7
Logs, bolts, timber, pulpwood, and woodchips	08-5		241.7	240.3	240.3	0.7	0.0	-0.2	0.3	0.4
Wastepaper <sup>3</sup>			371.3	480.7	450.5	62.2	-6.3	8.6	14.9	-6.3
Iron ore <sup>3</sup>			120.2	123.4	134.1	8.8	8.7	2.9	0.0	8.7
Iron and steel scrap <sup>3</sup>			382.3	464.4	440.2	27.3	-5.2	0.2	6.9	-5.2
Nonferrous metal ores <sup>3</sup>		12/83	285.3	294.0	300.6	18.1	2.2	2.1	1.0	2.2
Copper base scrap <sup>3</sup>	1		398.2	412.1	412.8	10.0	0.2	2.8	0.8	0.2
Aluminum base scrap	1		194.5 311.9	206.9 320.4	208.1 319.8	12.2 2.4	0.6 -0.2	2.5 0.1	0.9 -0.2	0.2 -0.4
		4.4/00								
Services for intermediate demand		11/09	112.8	113.7	114.7	2.6	0.9	0.5	-0.2	0.9
Trade services for intermediate demand <sup>4</sup>	57-11-02	11/09 03/09	112.3 112.9	113.3 115.8	114.2 117.5	2.1 6.6	0.8 1.5	0.6 0.2	0.3 2.7	0.7 1.5
Building materials, paint, and hardware wholesaling <sup>3</sup>	57-11-02	03/09	96.6	91.1	93.4	0.6	2.5	-0.3	-3.4	2.5
Metals, minerals, and ores wholesaling <sup>3</sup>	57-4	03/09	136.7	136.0	133.3	-7.4	-2.0	0.4	0.6	-2.0
Chemicals and allied products wholesaling <sup>3</sup>	57-5	03/09	96.5	103.9	106.5	3.8	2.5	7.1	-0.4	2.5
Paper and plastics products wholesaling <sup>3</sup>	1	03/09	118.2	113.4	116.2	1.0	2.5	1.7	-5.5	2.5
Food wholesaling <sup>3</sup>	57-81-01	03/09	104.3	105.8	104.2	-1.2	-1.5	0.2	0.4	-1.5
Automotive parts, including tires, retailing <sup>3</sup>	58-61-02	03/09	107.4	107.5	107.1	0.9	-0.4	-0.5	0.6	-0.4
Hardware, building material, and supplies retailing	1	03/09	114.7	118.3	115.0	1.4	-2.8	-1.7	4.0	-3.4
Transportation and warehousing services for intermediate demand		11/09	118.4	120.2	120.5	2.1	0.2	0.6	0.3	0.4
Rail transportation of freight and mail		12/08	115.4	116.3	116.9	4.0	0.5	0.8	0.8	0.3
Truck transportation of freight <sup>3</sup>		06/09	113.0	113.1	113.5	1.2	0.4	0.1	-0.4	0.4
Water transportation of freight <sup>3</sup>		06/09 12/08	115.1 111.6	115.0 109.2	115.5 108.3	1.1 -2.2	0.4 -0.8	1.5 -0.8	-0.3 1.1	0.4 -0.8
Pipeline transportation of petroleum products <sup>3</sup>		06/09	152.9	153.0	153.0	-0.7	0.0	0.0	0.0	0.0
	100 1001	1 55,55	.02.0			1 0.7		1 0.0	0.0	
U.S. Postal Service <sup>3</sup>	30-16-01	06/89	213.5	217.5	217.5	2.0	0.0	1.9	0.0	0.0

Table 5. Producer price indexes and percent changes for selected commodity groupings of intermediate demand by commodity type category<sup>1</sup> — Continued [1982=100, unless otherwise indicated]

Grouping	Commodity	Other index	Un	adjusted inc	dex	change to	ed percent Apr. 2017 om:		onally adj	
	code	base	Dec. 2016 <sup>2</sup>	Mar. 2017 <sup>2</sup>	Apr. 2017 <sup>2</sup>	Apr. 2016	Mar. 2017	Jan. to Feb.	Feb. to Mar.	Mar. to Apr.
Courier and messenger services, except air mail	30-16-02	04/09	141.0	146.3	146.3	0.8	0.0	0.7	1.0	0.3
Air mail and package delivery services, excluding by USPS		04/09	150.8	158.5	157.8	7.3	-0.4	1.6	1.1	-0.4
Transportation of passengers (partial)		06/09	121.2	124.2	125.1	4.3	0.7	-0.1	-0.3	1.9
Services related to water transportation <sup>3</sup>		06/09	115.8	114.0	114.5	0.3	0.4	0.5	-1.1	0.4
Arrangement of freight and cargo <sup>3</sup>	l	12/08	103.8	104.2	104.1	1.2	-0.1	0.0	1.3	-0.1
Warehousing, storage, and related services <sup>3</sup>	32-1	12/08	100.3	101.5	103.1	2.6	1.6	-0.4	1.2	1.6
demanddemand		11/09	111.7	112.5	113.7	2.9	1.1	0.5	-0.4	1.0
Network compensation from broadcast TV, cable TV, radio <sup>3</sup>	35	06/09	123.4	129.3	129.3	4.7	0.0	0.0	0.4	0.0
Advertising space sales in periodicals and newspapers		06/09	106.2	106.7	106.7	0.3	0.0	0.0	0.8	-0.1
Advertising space sales in directories and mail lists <sup>3</sup>	36-12	12/08	107.3	107.3	107.3	-0.5	0.0	0.0	0.0	0.0
Television advertising time sales	36-2	06/09	115.7	113.8	115.4	6.5	1.4	-2.1	2.9	1.1
Radio advertising time sales	36-3	03/09	102.3	100.4	95.5	-4.6	-4.9	-1.5	3.6	-5.1
Internet advertising space sales, excluding Internet ads sold by print										
publishers <sup>3</sup>		12/09	71.3	72.7	70.8	-8.4	-2.6	5.1	3.3	-2.6
Business wired telecommunication services <sup>3</sup>		06/09	95.8	96.0	95.8	-0.9	-0.2	0.1	-0.1	-0.2
Cellular phone and other wireless telecommunication services	l	03/09	69.2	65.6	67.1	-7.4	2.3	-3.8	-0.3	1.5
Cable and satellite subscriber services	37-3	12/08	119.2	123.4	122.9	3.5	-0.4	-0.5	2.5	-0.7
Data processing and related services <sup>3</sup>		12/11 06/09	105.1 100.6	102.5 101.0	102.3 100.9	-1.7 0.5	-0.2 -0.1	0.5 0.1	0.5 0.0	-0.2 -0.1
Business loans (partial) <sup>3</sup>		04/09	185.1	192.0	198.7	3.2	3.5	2.3	-3.8	3.5
Deposit services (partial) <sup>3</sup>	39-11	04/09	61.7	62.0	61.3	-1.0	-1.1	-0.6	1.3	-1.1
Other credit intermediation, incl. trust services (partial) <sup>3</sup>	39-3	04/09	98.4	98.4	98.2	-0.5	-0.2	0.2	-0.1	-0.2
Securities brokerage, dealing, investment advice, and related <sup>3</sup>	40-11	06/09	135.3	130.6	139.2	9.5	6.6	-0.7	-3.8	6.6
Portfolio management <sup>3</sup>	40-2	12/08	190.0	195.1	199.7	7.8	2.4	0.7	0.8	2.4
Investment banking <sup>3</sup>		12/08	154.8	157.1	155.4	11.6	-1.1	0.3	1.4	-1.1
Life insurance <sup>3</sup>		03/09	104.6	104.3	104.3	0.1	0.0	0.0	0.2	0.0
Health and medical insurance	41-11-03	03/09	120.3	124.3	124.6	4.0	0.2	0.6	2.2	0.2
Property and casualty insurance <sup>3</sup>	41-11-04	03/09	116.9	117.0	117.0	1.7	0.0	0.7	0.0	0.0
Annuities <sup>3</sup>	41-2	03/09	112.7	113.2	115.4	3.3	1.9	-0.1	-0.1	1.9
Commissions from sales of insurance	42-1	06/09	104.5	104.8	104.8	1.2	0.0	0.3	0.0	0.0
Nonresidential real estate rents <sup>3</sup>	l	06/09	112.2	113.4	113.6	3.6	0.2	1.5	-0.5	0.2
		12/08	116.7	115.7	116.2	0.3	0.4	0.3	-2.5	0.4
Residential property management fees <sup>3</sup>		12/08	113.7	114.2	114.9	0.3	0.6	0.3	0.0	0.6
Passenger car rental	l	03/09	81.7		81.3	-2.2		-1.6	-	-
Truck, utility trailer, and RV rental and leasing <sup>3</sup>	44-2	06/09	102.3	100.4	102.6	-2.8	2.2	-1.7	-0.3	2.2
Metal treatment services <sup>3</sup>	59-1	12/84	182.6	183.5	183.9	1.9	0.2	0.4	-0.2	0.2
Construction, mining, and forestry machinery and equipment rental and leasing <sup>3</sup>	44-3	03/09	97.3	96.6	96.3	-0.8	-0.3	-0.4	0.3	-0.3
Legal services.	45-1	03/09	122.8	126.6	126.7	3.7	0.1	2.6	-1.0	-0.1
Accounting services (partial).		06/09	106.1	107.1	105.8	1.1	-1.2	0.0	-0.2	-0.7
Architectural and engineering services <sup>3</sup>	45-3	06/09	111.1	113.2	113.2	2.8	0.0	2.2	-0.4	0.0
Management, scientific, and technical consulting <sup>3</sup>	45-4	06/09	105.0	106.5	106.1	0.7	-0.4	0.7	0.9	-0.4
Advertising and related services (partial) <sup>3</sup>	45-5	12/08	108.4	108.7	108.5	1.0	-0.2	0.7	-0.5	-0.2
Permanent placement services <sup>3</sup>	46-1	03/09	115.5	117.4	117.9	4.2	0.4	0.7	0.9	0.4
Executive search services <sup>3</sup>	46-2	12/08	97.2	96.5	97.9	-1.2	1.5	-2.3	-1.1	1.5
Staffing services <sup>3</sup>		06/09	111.7	111.9	111.9	0.7	0.0	0.1	0.3	0.0
Security guard services <sup>3</sup>		03/09	109.3	109.3	109.5	2.1	0.2	0.2	0.0	0.2
Janitorial services <sup>3</sup>		03/09	110.5	111.0	110.8	0.6	-0.2	-0.4	0.1	-0.2
Waste collection		12/08	119.1	121.1	122.2	2.3	0.9	0.4	0.1	8.0
Traveler accommodation services.	53-11	06/09	106.3	114.1	120.1	7.2	5.3	4.3	-1.1	7.5
Commercial and industrial machinery and equipment repair and maintenance <sup>3</sup>	55-1	03/09	118.3	118.9	119.0	1.1	0.1	0.3	0.0	0.1
Aircraft repair and maintenance.	55-4	04/09	116.3	119.1	119.6	2.9	0.1	0.6	0.0	0.1
•	30 4									
Construction for intermediate demand	90.2	11/09	113.2	113.3	113.8	2.5	0.4	0.1	0.2	0.6
Maintenance and repair of non-residential buildings (partial)	80-2	12/10	114.5	114.5	115.1	2.6	0.5	0.2	0.1	0.6

<sup>1</sup> 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 2016 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.

<sup>&</sup>lt;sup>4</sup> Trade indexes measure changes in margins received by wholesalers and retailers. "-" 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.Vop.ng	code	base	Dec. 2016 <sup>2</sup>	Mar. 2017 <sup>2</sup>	Apr. 2017 <sup>2</sup>	Apr. 2016	Mar. 2017	Jan. to Feb.	Feb. to Mar.	Mar. to Apr.
Stage 4 intermediate demand		11/09	110.4	111.7	112.5	3.0	0.7	0.5	-0.1	0.6
Stage 4 intermediate demand goods		04/10	105.3	106.7	107.2	3.1	0.5	0.3	0.2	0.3
Grains	01-2		130.3	136.2	135.6	-2.9	-0.4	2.8	-4.6	-0.4
Meats	02-21		167.9	172.5	173.7	-4.9	0.7	-0.9	2.0	-0.5
Unprocessed and packaged fish			336.9	353.7	333.0	-0.7	-5.9	-1.8	6.5	-6.6
Dairy products.	1		197.0 190.0	195.6 194.7	193.2 193.4	3.9	-1.2 -0.7	0.0 1.2	-0.6 0.2	-1.4
Commercial electric power	05-42		211.7	234.8	235.5	3.5 16.4	0.7	1.8	0.2	0.1 1.5
Gasoline.	05-43		155.2	164.8	177.1	26.0	7.5	-2.5	-8.3	3.9
No. 2 diesel fuel.	05-73-03		158.8	161.6	164.6	33.2	1.9	-0.2	-4.4	-1.7
Basic organic chemicals	06-14		240.9	252.5	257.9	17.7	2.1	1.1	3.0	1.3
Prepared paint <sup>3</sup>	06-21		271.4	272.4	272.9	0.3	0.2	0.3	-0.3	0.2
Medicinal and botanical chemicals <sup>3</sup>	06-31		175.3	174.5	174.5	-0.5	0.0	0.1	0.1	0.0
Biological products, including diagnostics <sup>3</sup>	06-37		264.1	263.4	264.6	-0.6	0.5	0.3	-0.9	0.5
Pharmaceutical preparations.	06-38	06/01	234.7	243.7	243.7	6.5	0.0	0.4	0.5	0.6
Plastic construction products.	07-21	00/82	212.4	214.0	215.4	2.2	0.7	0.2	-0.6	0.9
Unsupported plastic film, sheet, and other shapes <sup>3</sup>	07-22 07-26		210.8 148.5	215.7 148.3	217.6 148.5	4.3 0.1	0.9 0.1	0.8 0.1	1.8 0.2	0.9 0.1
Plastic packaging products <sup>3</sup>		12/06	148.5	148.3	148.5	1.6	0.1	-0.4	0.2	0.1
Lumber <sup>3</sup>	08-1	00/82	203.1	214.0	215.3	6.7	0.6	2.8	1.6	0.6
Millwork	1	3,32	241.6	244.9	247.0	3.0	0.9	0.5	0.5	0.8
Paper boxes and containers <sup>3</sup>			253.6	257.2	257.2	4.2	0.0	0.6	0.4	0.0
Commercial printing <sup>3</sup>	09-47	06/82	170.4	170.4	170.3	0.3	-0.1	0.2	0.0	-0.1
Steel mill products <sup>3</sup>	10-17		173.9	186.7	188.1	16.8	0.7	2.5	3.1	0.7
Nonferrous wire and cable <sup>3</sup>	10-26		230.9	230.8	233.1	3.5	1.0	0.7	-0.1	1.0
Fabricated structural metal products	10-7		214.9	217.4	217.0	2.1	-0.2	-0.6	0.7	-0.4
Other miscellaneous metal products <sup>3</sup>	10-89		155.9	156.5	156.7	0.3	0.1	0.3	-0.1	0.1
Air conditioning and refrigeration equipment <sup>3</sup>	11-48 11-71		181.8 227.6	184.6	183.9	1.8 1.2	-0.4 0.4	1.0 0.0	0.5 0.0	-0.4 0.4
Wiring devices <sup>3</sup>	l		66.9	227.9 67.1	228.8 67.7	0.6	0.4	0.0	-0.6	0.4
Miscellaneous electrical machinery and equipment <sup>3</sup>	1		116.7	117.3	117.9	0.5	0.5	0.0	-0.0	0.5
Internal combustion engines <sup>3</sup>	1		164.1	165.9	166.2	1.1	0.2	0.1	0.1	0.2
Machine shop products <sup>3</sup>	1		184.9	185.0	184.9	0.6	-0.1	0.0	0.0	-0.1
Concrete ingredients and related products	13-2		278.4	285.8	286.1	2.8	0.1	0.7	-0.1	-0.5
Concrete products	13-3		249.2	251.9	254.8	3.3	1.2	0.3	0.3	0.8
Prepared asphalt, tar roofing and siding products			220.9	217.2	220.9	-0.4	1.7	-1.8	8.0	0.4
Paving mixtures and blocks <sup>3</sup>			288.4	300.0	289.9	-1.9	-3.4	-2.1	-1.0	-3.4
Motor vehicle parts <sup>3</sup>	1		125.0	124.8	125.0	0.1	0.2	0.1	0.2	0.2
Aircraft engines and engine parts.	1	12/85	224.4	224.2	224.6	0.4	0.2	-0.3	0.2	0.4
Aircraft parts and auxiliary equipment, n.e.c	14-25 15-6	06/85	185.2 178.0	185.5 178.3	185.6 178.1	0.5 0.2	0.1 -0.1	0.0 0.1	-0.1 -0.1	0.2 -0.1
Stage 4 intermediate demand services.	15-0	04/10	112.2	113.3	114.3	2.9	0.1	0.1	-0.1	0.9
Truck transportation of freight <sup>3</sup>	30-12	06/09	113.0	113.1	113.5	1.2	0.4	0.1	-0.4	0.4
Courier, messenger, and U.S. postal services.	30-16	06/09	130.1	134.3	134.2	2.7	-0.1	0.6	0.3	0.4
Airline passenger services	30-22	12/08	111.6	114.4	115.3	4.3	0.8	0.0	-0.2	2.0
Warehousing, storage, and related services <sup>3</sup>	32-1	12/08	100.3	101.5	103.1	2.6	1.6	-0.4	1.2	1.6
Advertising space sales in periodicals and newspapers	1	06/09	106.2	106.7	106.7	0.3	0.0	0.0	8.0	-0.1
Data processing and related services <sup>3</sup>		06/09	100.6	101.0	100.9	0.5	-0.1	0.1	0.0	-0.1
Business loans (partial) <sup>3</sup>		04/09	185.1	192.0	198.7	3.2	3.5	2.3	-3.8	3.5
Deposit services (partial) <sup>3</sup>	1	04/09	61.7	62.0	61.3	-1.0	-1.1	-0.6	1.3	-1.1
Securities brokerage, dealing, investment advice, and related services <sup>3</sup> Portfolio management <sup>3</sup>	40-11	06/09	135.3	130.6	139.2	9.5	6.6	-0.7	-3.8	6.6
Investment banking <sup>3</sup>	40-2 40-3	12/08 12/08	190.0 154.8	195.1 157.1	199.7 155.4	7.8 11.6	2.4 -1.1	0.7 0.3	0.8 1.4	2.4 -1.1
Insurance.	41-11	06/09	115.6	116.9	117.0	2.2	0.1	0.3	0.9	-0.1
Annuities <sup>3</sup>	41-2	03/09	112.7	113.2	115.4	3.3	1.9	-0.1	-0.1	1.9
Nonresidential real estate rents <sup>3</sup>	43-11	06/09	112.2	113.4	113.6	3.6	0.2	1.5	-0.5	0.2
Nonresidential property sales and leases <sup>3</sup>	43-12	12/08	116.7	115.7	116.2	0.3	0.4	0.3	-2.5	0.4
Nonresidential property management fees <sup>3</sup>	43-13	12/08	100.2	95.0	93.9	2.4	-1.2	-1.4	-0.3	-1.2
Residential property management fees <sup>3</sup>	43-22	12/08	113.7	114.2	114.9	0.3	0.6	0.3	0.0	0.6
Construction, mining, and forestry machinery and equipment rental and	44.0	00/00	07.0	00.0	00.0		0.0		0.0	0.0
leasing <sup>3</sup>	44-3 45-1	03/09	97.3	96.6	96.3	-0.8	-0.3	-0.4 2.6	0.3	-0.3
Legal services	45-1 45-51	03/09 12/08	122.8 108.4	126.6 108.7	126.7 108.5	3.7 1.0	0.1 -0.2	0.7	-1.0 -0.5	-0.1 -0.2
Accounting services (partial).	45-51	06/09	106.4	106.7	105.8	1.1	-0.2 -1.2	0.7	-0.5 -0.2	-0.2 -0.7
Architectural and engineering services <sup>3</sup>		06/09	111.1	113.2	113.2	2.8	0.0	2.2	-0.2	0.0
Management, scientific, and technical consulting <sup>3</sup>	45-4	06/09	105.0	106.5	106.1	0.7	-0.4	0.7	0.9	-0.4

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	Un	adjusted in	dex	change	ed percent to Apr. from:		onally adj	
o.cop.ig	code	base	Dec. 2016 <sup>2</sup>	Mar. 2017 <sup>2</sup>	Apr. 2017 <sup>2</sup>	Apr. 2016	Mar. 2017	Jan. to Feb.	Feb. to Mar.	Mar. to Apr.
Janitorial services <sup>3</sup>	49-1	03/09	110.5	111.0	110.8	0.6	-0.2	-0.4	0.1	-0.2
Commercial and industrial machinery and equipment repair and	FF 4	00/00	1100	110.0	110.0	,,	0.1	0.0	0.0	0.1
maintenance <sup>3</sup>	55-1 57-11-02	03/09	118.3 112.9	118.9 115.8	119.0 117.5	1.1 6.6	0.1 1.5	0.3	0.0 2.7	0.1 1.5
Building materials, paint, and hardware wholesaling	57-11-02	03/09	96.6	91.1	93.4	0.6	2.5	-0.3	-3.4	2.5
Metals, minerals, and ores wholesaling <sup>3</sup>	57-4	03/09	136.7	136.0	133.3	-7.4	-2.0	0.4	0.6	-2.0
Chemicals and allied products wholesaling <sup>3</sup>	57-5	03/09	96.5	103.9	106.5	3.8	2.5	7.1	-0.4	2.5
Paper and plastics products wholesaling <sup>3</sup>	57-6	03/09	118.2	113.4	116.2	1.0	2.5	1.7	-5.5	2.5
Food and alcohol wholesaling <sup>3</sup>	57-8	06/09	106.8	108.1	106.8	-0.9	-1.2	0.2	0.4	-1.2
Hardware and building materials and supplies retailing	58-D	03/09	114.7	118.3	115.0	1.4	-2.8	-1.7	4.0	-3.4
Metal treatment services <sup>3</sup>		12/84	182.6	183.5	183.9	1.9	0.2	0.4	-0.2	0.2
Stage 3 intermediate demand	1	11/09	108.3	111.0	111.4	4.4	0.4	0.8	0.1	0.1
Stage 3 intermediate demand goods	1	04/10	98.2 164.6	102.1 188.5	102.1 187.5	6.2 -5.9	0.0 -0.5	1.1 0.6	0.3 3.6	-0.6 0.1
Slaughter hogs.	1		70.5	89.2	78.8	-8.1	-11.7	17.4	-8.2	-10.7
Slaughter poultry			221.8	250.3	249.4	5.5	-0.4	5.3	4.3	-3.7
Raw milk	1		143.4	131.7	123.6	8.0	-6.2	-1.6	1.6	-5.0
Commercial electric power	05-42		190.0	194.7	193.4	3.5	-0.7	1.2	0.2	0.1
Industrial electric power	05-43		211.7	234.8	235.5	16.4	0.3	1.8	0.5	1.5
Gasoline.	05-71		155.2	164.8	177.1	26.0	7.5	-2.5	-8.3	3.9
Jet fuel.	05-72-03		154.7	166.1	159.7	41.0	-3.9	4.5	-5.6	-6.1
No. 2 diesel fuel	05-73-03 05-76		158.8 382.8	161.6 384.2	164.6 388.5	33.2 3.1	1.9 1.1	-0.2 -0.4	-4.4 0.5	-1.7 1.1
Lubricating oil base stocks <sup>3</sup>	05-76	06/09	91.2	97.5	95.1	25.6	-2.5	4.8	1.6	-2.5
Asphalt	05-81-02	06/85	128.4	166.9	162.0	49.4	-2.9	19.4	17.5	-10.1
Basic inorganic chemicals <sup>3</sup>	06-13		248.4	252.0	253.7	-0.9	0.7	0.4	0.4	0.7
Basic organic chemicals.	1		240.9	252.5	257.9	17.7	2.1	1.1	3.0	1.3
Paints and allied products <sup>3</sup>			264.6	265.1	265.1	-0.3	0.0	0.4	-0.6	0.0
Agricultural chemicals and chemical products <sup>3</sup>			198.3	208.4	211.6	-2.9	1.5	0.8	2.8	1.5
Plastic resins and materials	06-6 07-11-02		218.4 202.1	229.1 240.8	232.7 235.5	8.9 24.3	1.6 -2.2	1.0 9.5	3.0 6.1	1.8 -2.2
Unsupported plastic film, sheet, and other shapes <sup>3</sup>	07-11-02		210.8	215.7	233.5	4.3	0.9	0.8	1.8	0.9
Paper <sup>3</sup>	09-13		187.0	186.0	186.3	-0.2	0.2	0.0	0.3	0.3
Paperboard <sup>3</sup>	09-14		240.7	243.2	250.1	8.5	2.8	-0.9	0.7	2.8
Converted paper and paperboard products <sup>3</sup>	09-15		231.2	232.2	232.6	2.2	0.2	0.0	-0.1	0.2
Commercial printing <sup>3</sup>	1	06/82	170.4	170.4	170.3	0.3	-0.1	0.2	0.0	-0.1
Foundry and forge shop products <sup>3</sup>	1		205.9	206.0	206.5	-1.1	0.2	0.2	0.0	0.2
Steel mill products <sup>3</sup>	1		173.9 191.3	186.7	188.1 197.0	16.8 11.0	0.7 0.9	2.5 3.6	3.1 -0.1	0.7 0.9
Nonferrous foundry shop products <sup>3</sup>			207.3	195.3 210.0	211.6	2.4	0.9	0.3	0.8	0.8
Metal containers <sup>3</sup>			146.1	146.5	149.6	3.5	2.1	0.1	0.1	2.1
Structural, architectural, and pre-engineered metal products	1		207.4	210.0	208.6	2.0	-0.7	-0.1	1.1	-0.9
Bolts, nuts, screws, rivets, and washers <sup>3</sup>	1		191.2	191.8	191.8	0.1	0.0	-0.1	0.2	0.0
Other miscellaneous metal products <sup>3</sup>	1		155.9	156.5	156.7	0.3	0.1	0.3	-0.1	0.1
General purpose machinery and equipment	1		228.7	230.4	230.6	1.1	0.1	0.3	0.0	0.1
Electrical machinery and equipment			112.7 311.9	113.6 320.4	114.0 319.8	0.7 2.4	0.4 -0.2	-0.3 0.1	0.0 -0.2	0.4 -0.4
Construction sand, gravel, and crushed stone	1		236.0	320.4 241.8	244.0	3.7	-0.2 0.9	2.1	-0.2 -0.1	-0.4
Motor vehicle parts <sup>3</sup>	1		125.0	124.8	125.0	0.1	0.2	0.1	0.2	0.2
Aircraft and aircraft equipment.	1		268.0	268.6	268.9	0.7	0.1	0.0	0.1	0.2
Stage 3 intermediate demand services		04/10	110.7	111.7	112.6	2.4	0.8	0.6	-0.2	0.9
Rail transportation of freight and mail.	30-11	12/08	115.4	116.3	116.9	4.0	0.5	0.8	0.8	0.3
Courier, messenger, and U.S. postal services	1	06/09	130.1	134.3	134.2	2.7	-0.1	0.6	0.3	0.4
Arrangement of freight and cargo <sup>3</sup> Freight forwarding <sup>3</sup>		12/08 12/08	103.8 96.2	104.2 96.1	104.1	1.2 -0.5	-0.1	0.0	1.3 -0.1	-0.1
Warehousing, storage, and related services <sup>3</sup>	31-32-01	12/08	100.3	101.5	96.2 103.1	2.6	0.1 1.6	-0.4	-0.1 1.2	0.1 1.6
Advertising space sales in periodicals, newspapers, directories, and mailing lists.	36-1	06/09	106.1	106.4	106.5	0.1	0.1	0.1	0.6	0.0
Telecommunication, cable, and internet user services	37-1	06/09	111.0	111.8	111.6	0.7	-0.2	0.1	0.4	0.1
Bundled wired telecommunications access services <sup>3</sup>	37-5	12/11	105.1	102.5	102.3	-1.7	-0.2	0.5	0.5	-0.2
Data processing and related services <sup>3</sup>	1	06/09	100.6	101.0	100.9	0.5	-0.1	0.1	0.0	-0.1
Business loans (partial) <sup>3</sup>		04/09	185.1	192.0	198.7	3.2	3.5	2.3	-3.8	3.5
Deposit services (partial) <sup>3</sup>	1	04/09	61.7	62.0	61.3	-1.0	-1.1	-0.6	1.3	-1.1
Securities brokerage, dealing, investment advice, and related services <sup>3</sup> Insurance	1	06/09 06/09	135.3 115.6	130.6 116.9	139.2 117.0	9.5 2.2	6.6 0.1	-0.7 0.4	-3.8 0.9	6.6 -0.1
Nonresidential real estate rents <sup>3</sup>	43-11	06/09	115.6	116.9	117.0	3.6	0.1	1.5	-0.5	-0.1 0.2
Legal services.		03/09	122.8	126.6	126.7	3.7	0.2	2.6	-1.0	-0.1
	1	1	1	0.0		1 5	٠	1		٠

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. 2017 from:		Seasonally adjusted percent change from:		
			Dec. 2016 <sup>2</sup>	Mar. 2017 <sup>2</sup>	Apr. 2017 <sup>2</sup>	Apr. 2016	Mar. 2017	Jan. to Feb.	Feb. to Mar.	Mar. to Apr.
Accounting services (partial)	45-2	06/09	106.1	107.1	105.8	1.1	-1.2	0.0	-0.2	-0.7
Architectural and engineering services <sup>3</sup>	45-3	06/09	111.1	113.2	113.2	2.8	0.0	2.2	-0.4	0.0
Management, scientific, and technical consulting <sup>3</sup>	45-4	06/09	105.0	106.5	106.1	0.7	-0.4	0.7	0.9	-0.4
Advertising agency services <sup>3</sup>	1	12/08	108.4	108.7	108.5	1.0	-0.2	0.7	-0.5	-0.2
Staffing services <sup>3</sup>	46-3 55-4	06/09 04/09	111.7 116.3	111.9 119.1	111.9 119.6	0.7 2.9	0.0 0.4	0.1 0.6	0.3 0.2	0.0 0.6
Parts and supplies for machinery and equipment wholesaling <sup>3</sup>	57-11-02	03/09	112.9	115.8	117.5	6.6	1.5	0.0	2.7	1.5
Building materials, paint, and hardware wholesaling <sup>3</sup>	57-3	03/09	96.6	91.1	93.4	0.4	2.5	-0.3	-3.4	2.5
Metals, minerals, and ores wholesaling <sup>3</sup>	57-4	03/09	136.7	136.0	133.3	-7.4	-2.0	0.4	0.6	-2.0
Chemicals and allied products wholesaling <sup>3</sup>		03/09	96.5	103.9	106.5	3.8	2.5	7.1	-0.4	2.5
Paper and plastics products wholesaling <sup>3</sup>		03/09	118.2	113.4	116.2	1.0	2.5	1.7	-5.5	2.5
Food wholesaling <sup>3</sup>	1	03/09	104.3	105.8	104.2	-1.2	-1.5	0.2	0.4	-1.5
Metal treatment services <sup>3</sup>		12/84	182.6	183.5	183.9	1.9	0.2	0.4	-0.2	0.2
Stage 2 intermediate demand	1	11/09	101.7	101.3	103.7	7.5	2.4	0.0	-1.9	2.2
Stage 2 intermediate demand goods	1	04/10	86.2	84.5	88.2	14.0	4.4	-0.5	-4.4	4.1
Corn.	01-22-02 01-83		134.9	140.0	139.9	-1.4	-0.1	2.4	-5.6	-0.1
Oilseeds Prepared animal feeds	1		184.5 189.0	178.7 188.8	168.6 187.9	-1.6 3.5	-5.7 -0.5	3.3 0.8	-8.0 0.2	-8.5 -1.3
Coal	05-1		192.5	198.3	200.4	6.3	1.1	-2.1	-1.4	1.6
Natural gas <sup>3</sup>	05-31		132.5	97.7	122.2	74.1	25.1	-18.0	-30.0	25.1
Liquefied petroleum gas <sup>3</sup>	05-32		152.9	121.9	128.2	35.2	5.2	9.7	-20.4	5.2
Crude petroleum <sup>3</sup>	05-61		138.7	128.4	148.6	41.1	15.7	8.0	-10.8	15.7
No. 2 diesel fuel.	05-73-03		158.8	161.6	164.6	33.2	1.9	-0.2	-4.4	-1.7
Industrial chemicals.	06-1		241.5	251.8	256.5	14.2	1.9	1.0	2.6	1.2
Plastic resins and materials	1		218.4	229.1	232.7	8.9	1.6	1.0	3.0	1.8
Plastic products <sup>3</sup>	1		196.3 241.7	197.9 240.3	198.8 240.3	1.6 0.7	0.5 0.0	0.1 -0.2	0.5 0.3	0.5 0.4
Paper <sup>3</sup>	1		187.0	186.0	186.3	-0.2	0.0	0.0	0.3	0.4
Paperboard, excluding corrugated paperboard <sup>3</sup>	1	12/82	253.6	256.0	262.4	7.7	2.5	-1.1	0.8	2.5
Commercial printing <sup>3</sup>	1	06/82	170.4	170.4	170.3	0.3	-0.1	0.2	0.0	-0.1
Iron and steel scrap <sup>3</sup>			382.3	464.4	440.2	27.3	-5.2	0.2	6.9	-5.2
Steel mill products <sup>3</sup>	1		173.9	186.7	188.1	16.8	0.7	2.5	3.1	0.7
Nonferrous mill shapes <sup>3</sup>	1		191.3	195.3	197.0	11.0	0.9	3.6	-0.1	0.9
Electrical machinery and equipment.	11-7 11-78		112.7 66.9	113.6	114.0	0.7	0.4 0.9	-0.3 0.0	0.0	0.4
Electronic components and accessories	1	04/10	111.8	67.1 112.8	67.7 113.7	0.6 3.0	0.9	0.0	-0.6 0.0	0.9 0.8
Rail transportation of freight and mail		12/08	115.4	116.3	116.9	4.0	0.5	0.8	0.8	0.3
Truck transportation of freight <sup>3</sup>		06/09	113.0	113.1	113.5	1.2	0.4	0.1	-0.4	0.4
Pipeline transportation of petroleum products <sup>3</sup>		12/08	152.9	153.0	153.0	-0.7	0.0	0.0	0.0	0.0
U.S. Postal Service <sup>3</sup>		06/89	213.5	217.5	217.5	2.0	0.0	1.9	0.0	0.0
Courier and messenger services, except air	1	04/09	141.0	146.3	146.3	0.8	0.0	0.7	1.0	0.3
Air mail and package delivery services, excluding by USPS	1	04/09	150.8	158.5	157.8	7.3	-0.4	1.6	1.1	-0.4
Airline passenger services.		12/08 12/08	111.6	114.4	115.3	4.3	0.8	0.0	-0.2 1.3	2.0
Arrangement of freight and cargo <sup>3</sup>	1	06/09	103.8 115.7	104.2 113.8	104.1 115.4	1.2 6.5	-0.1 1.4	0.0 -2.1	2.9	-0.1 1.1
Wireless telecommunication services.		06/09	70.9	67.1	68.7	-7.4	2.4	-3.7	-0.3	1.5
Data processing and related services <sup>3</sup>	38-1	06/09	100.6	101.0	100.9	0.5	-0.1	0.1	0.0	-0.1
Securities brokerage, dealing, investment advice, and related services <sup>3</sup>	40-11	06/09	135.3	130.6	139.2	9.5	6.6	-0.7	-3.8	6.6
Portfolio management <sup>3</sup>	40-2	12/08	190.0	195.1	199.7	7.8	2.4	0.7	0.8	2.4
Investment banking <sup>3</sup>		12/08	154.8	157.1	155.4	11.6	-1.1	0.3	1.4	-1.1
Insurance	41-11	06/09	115.6	116.9	117.0	2.2	0.1	0.4	0.9	-0.1
Commissions from sales of insurance	1	06/09	104.5	104.8	104.8	1.2	0.0	0.3	0.0	0.0
Legal services		03/09 06/09	122.8 106.1	126.6 107.1	126.7 105.8	3.7	0.1 -1.2	2.6 0.0	-1.0 -0.2	-0.1 -0.7
Management, scientific, and technical consulting <sup>3</sup>		06/09	105.0	107.1	105.6	0.7	-0.4	0.0	0.9	-0.7
Advertising agency services <sup>3</sup>		12/08	103.0	108.7	108.5	1.0	-0.4	0.7	-0.5	-0.4
Staffing services <sup>3</sup>	1	06/09	111.7	111.9	111.9	0.7	0.0	0.1	0.3	0.0
Security guard services <sup>3</sup>	48-1	03/09	109.3	109.3	109.5	2.1	0.2	0.2	0.0	0.2
Janitorial services <sup>3</sup>	49-1	03/09	110.5	111.0	110.8	0.6	-0.2	-0.4	0.1	-0.2
Traveler accommodation services.	53-1	06/09	106.3	114.1	120.1	7.2	5.3	4.3	-1.1	7.5
Commercial and industrial machinery and equipment repair and	EE 4	02/00	1100	1100	110.0	,,	0.4	0.0	0.0	0.1
maintenance <sup>3</sup>		03/09	118.3 114.7	118.9 118.3	119.0 115.0	1.1	0.1 -2.8	0.3 -1.7	0.0 4.0	0.1 -3.4
Stage 1 intermediate demand	1	11/09 04/10	106.5 90.0	108.8 93.1	109.9	6.5 10.2	1.0 0.8	0.6 0.6	-0.1 0.3	0.9 0.4
Stage 1 intermediate demand goods	02-9	04/10	189.0	188.8	93.8 187.9	3.5	-0.5	0.6	0.3	-1.3
Commercial electric power.	05-42		190.0	194.7	193.4	3.5	-0.5	1.2	0.2	0.1
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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. 2017 from:		Seasonally adjusted percent change from:		
			Dec. 2016 <sup>2</sup>	Mar. 2017 <sup>2</sup>	Apr. 2017 <sup>2</sup>	Apr. 2016	Mar. 2017	Jan. to Feb.	Feb. to Mar.	Mar. to Apr.
Industrial electric power	05-43		211.7	234.8	235.5	16.4	0.3	1.8	0.5	1.5
Commercial natural gas	05-52	12/90	184.5	188.4	189.1	15.9	0.4	-0.3	0.5	1.7
Industrial natural gas	05-53	12/90	156.5	152.4	159.5	13.9	4.7	-2.4	-6.2	6.4
Gasoline	05-71		155.2	164.8	177.1	26.0	7.5	-2.5	-8.3	3.9
No. 2 diesel fuel	05-73-03		158.8	161.6	164.6	33.2	1.9	-0.2	-4.4	-1.7
Industrial chemicals	06-1		241.5	251.8	256.5	14.2	1.9	1.0	2.6	1.2
Prepared paint <sup>3</sup>	06-21		271.4	272.4	272.9	0.3	0.2	0.3	-0.3	0.2
Plastic construction products	07-21		212.4	214.0	215.4	2.2	0.7	0.2	-0.6	0.9
Wastepaper <sup>3</sup>	09-12		371.3	480.7	450.5	62.2	-6.3	8.6	14.9	-6.3
Paper <sup>3</sup>	09-13		187.0	186.0	186.3	-0.2	0.2	0.0	0.3	0.2
Converted paper and paperboard products <sup>3</sup>	09-15		231.2	232.2	232.6	2.2	0.2	0.0	-0.1	0.2
Iron and steel scrap <sup>3</sup>	10-12		382.3	464.4	440.2	27.3	-5.2	0.2	6.9	-5.2
Steel mill products <sup>3</sup>	10-17		173.9	186.7	188.1	16.8	0.7	2.5	3.1	0.7
Primary nonferrous metals <sup>3</sup>	10-22		174.9	181.1	183.4	12.0	1.3	3.7	-0.5	1.3
Nonferrous scrap.	10-23		309.8	323.0	329.2	13.5	1.9	2.7	-0.2	1.8
Nonferrous wire and cable <sup>3</sup>	1		230.9	230.8	233.1	3.5	1.0	0.7	-0.1	1.0
Fabricated structural metal products	10-7		214.9	217.4	217.0	2.1	-0.2	-0.6	0.7	-0.4
General purpose machinery and equipment	1		228.7	230.4	230.6	1.1	0.1	0.3	0.0	0.1
Construction sand, gravel, and crushed stone	13-21		311.9	320.4	319.8	2.4	-0.2	0.1	-0.2	-0.4
Stage 1 intermediate demand services		04/10	113.8	114.5	116.0	2.1	1.3	0.6	-0.5	1.3
Truck transportation of freight <sup>3</sup>	30-12	06/09	113.0	113.1	113.5	1.2	0.4	0.1	-0.4	0.4
Airline passenger services	30-22	12/08	111.6	114.4	115.3	4.3	0.8	0.0	-0.2	2.0
Advertising space sales in periodicals, newspapers, directories, and mailing lists	36-1	06/09	106.1	106.4	106.5	0.1	0.1	0.1	0.6	0.0
Business wired telecommunication services <sup>3</sup>	37-12	06/09	95.8	96.0	95.8	-0.9	-0.2	0.1	-0.1	-0.2
Wireless telecommunication services.	37-2	06/09	70.9	67.1	68.7	-7.4	2.4	-3.7	-0.3	1.5
Bundled wired telecommunications access services <sup>3</sup>	37-5	12/11	105.1	102.5	102.3	-1.7	-0.2	0.5	0.5	-0.2
Business loans (partial) <sup>3</sup>	39-11	04/09	185.1	192.0	198.7	3.2	3.5	2.3	-3.8	3.5
Deposit services (partial) <sup>3</sup>	39-2	04/09	61.7	62.0	61.3	-1.0	-1.1	-0.6	1.3	-1.1
Securities brokerage, dealing, investment advice, and related services <sup>3</sup>	40-11	06/09	135.3	130.6	139.2	9.5	6.6	-0.7	-3.8	6.6
Portfolio management <sup>3</sup>	40-2	12/08	190.0	195.1	199.7	7.8	2.4	0.7	0.8	2.4
Investment banking <sup>3</sup>	40-3	12/08	154.8	157.1	155.4	11.6	-1.1	0.3	1.4	-1.1
Insurance	41-11	06/09	115.6	116.9	117.0	2.2	0.1	0.4	0.9	-0.1
Nonresidential real estate rents <sup>3</sup>	1	06/09	112.2	113.4	113.6	3.6	0.2	1.5	-0.5	0.2
Architectural and engineering services <sup>3</sup>	45-3	06/09	111.1	113.2	113.2	2.8	0.0	2.2	-0.4	0.0
Management consulting services <sup>3</sup>	45-41	06/09	105.0	106.5	106.1	0.7	-0.4	0.7	0.9	-0.4
Waste collection.	50-1	12/08	119.1	121.1	122.2	2.3	0.9	0.4	0.1	0.8
Traveler accommodation services.	53-11	06/09	106.3	114.1	120.1	7.2	5.3	4.3	-1.1	7.5
Commercial and industrial machinery and equipment repair and maintenance <sup>3</sup> .	55-1	03/09	118.3	118.9	119.0	1.1	0.1	0.3	0.0	0.1
Machinery and equipment parts and supplies wholesaling <sup>3</sup>	57-11-02	03/09	112.9	115.8	117.5	6.6	1.5	0.2	2.7	1.5
Building materials, paint, and hardware wholesaling <sup>3</sup>	57-3	03/09	96.6	91.1	93.4	0.4	2.5	-0.3	-3.4	2.5
Metals, minerals, and ores wholesaling <sup>3</sup>	57-4	03/09	136.7	136.0	133.3	-7.4	-2.0	0.4	0.6	-2.0
Chemicals and allied products wholesaling	57-5	03/09	96.5	103.9	106.5	3.8	2.5	7.1	-0.4	2.5
Paper and plastics products wholesaling <sup>3</sup>	57-6	03/09	118.2	113.4	116.2	1.0	2.5	1.7	-5.5	2.5
Hardware and building materials and supplies retailing	58-D	03/09	114.7	118.3	115.0	1.4	-2.8	-1.7	4.0	-3.4
Mining services <sup>3</sup>	60-1	06/85	222.5	229.6	229.5	0.1	0.0	2.7	0.4	0.0

<sup>&</sup>lt;sup>1</sup> 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 2016 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.

<sup>&</sup>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]

	Other	Index <sup>1</sup>						
Grouping	index base	Nov. 2016	Dec. 2016	Jan. 2017	Feb. 2017	Mar. 2017	Apr. 2017	
Final demand		111.1	111.3	111.9	112.2	112.1	112.7	
Final demand goods		108.5	109.2	110.3	110.6	110.5	111.0	
Final demand foods.		113.0	113.9	114.5	114.9	115.9	117.0	
Final demand energy		94.6	96.4	100.5	101.1	98.2	99.0	
Final demand goods less foods and energy		111.4	111.7	112.1	112.2	112.6	112.9	
Final demand services		112.1	112.1	112.3	112.8	112.7	113.2	
Final demand trade services		113.5	113.1	114.1	114.5	114.4	114.0	
Final demand transportation and warehousing services		113.8	115.1	115.2	115.5	115.3	116.1	
Final demand services less trade, transportation, and warehousing		111.3	111.4	111.2	111.8	111.7	112.6	
Intermediate demand by commodity type								
Processed goods for intermediate demand	00/82	184.5	185.6	187.7	188.5	188.7	189.7	
Materials and components for manufacturing	00/82	174.4	175.3	175.8	176.9	178.7	179.5	
Materials and components for construction	00/82	230.1	230.8	231.6	232.0	232.8	233.4	
	00/82	157.9	159.8	168.2	169.2	164.6	166.8	
Containers for intermediate demand	00/82	219.1	220.9	221.5	222.3	223.0	224.4	
	00/82	190.2	191.0	191.3	191.6	192.1	192.5	
	00/82	174.6	187.4	194.9	194.6	186.4	192.6	
·	00/82	154.7	162.2	163.8	167.4	168.7	164.8	
Unprocessed nonfood materials except fuel.		207.7	223.0	223.6	231.8	225.2	236.8	
Unprocessed fuel.	00/82	131.2	148.8	178.3	156.8	127.5	144.9	
Services for intermediate demand		112.8	113.0	113.2	113.8	113.6	114.6	
Trade services for intermediate demand		111.2 118.2	112.4 119.0	112.3 118.9	113.0 119.6	113.3 119.9	114.1 120.4	
Transportation and warehousing services for intermediate demand  Services less trade, transportation, and warehousing for intermediate demand					112.9	112.5	113.6	
Intermediate demand by production flow		112.1	111.9	112.3	112.9	112.5	113.0	
Stage 4 intermediate demand		110.3	110.7	111.3	111.9	111.8	112.5	
Inputs to stage 4 goods producers.		107.3	107.8	108.4	108.9	109.3	109.9	
Inputs to stage 4 services producers.		112.9	113.1	113.6	114.3	114.1	114.9	
Inputs to stage 4 construction producers.		108.6	109.4	110.1	110.3	110.2	110.4	
Stage 3 intermediate demand.		107.9	109.2	110.1	111.0	111.1	111.2	
Inputs to stage 3 goods producers.		109.4	111.7	112.1	113.6	114.9	114.2	
Inputs to stage 3 services producers		107.7	108.1	109.3	109.7	108.7	109.6	
Inputs to stage 3 construction producers		92.8	95.2	96.9	96.7	95.3	95.1	
Stage 2 intermediate demand		100.0	102.0	103.3	103.3	101.3	103.5	
Inputs to stage 2 goods producers		89.4	93.3	95.7	95.3	91.2	94.9	
Inputs to stage 2 services producers		110.3	110.6	110.8	111.2	111.2	112.1	
Stage 1 intermediate demand		105.5	107.0	108.3	109.0	108.9	109.9	
Inputs to stage 1 goods producers		100.0	102.3	104.4	105.4	106.0	106.7	
Inputs to stage 1 services producers		110.8	111.4	112.0	112.4	111.6	113.0	
Inputs to stage 1 construction producers		109.5	110.2	111.1	111.3	111.4	111.4	
Special groupings								
Final demand less foods and energy	04/10	110.8	110.9	111.2	111.5	111.5	112.0	
Final demand less foods	04/10	109.3	109.6	110.1	110.5	110.3	110.8	
Final demand less energy	04/10	110.7	110.9	111.1	111.5	111.6	112.1	
Total finished <sup>2</sup>	01/10	110.8	111.0	111.5	111.8	111.7	112.2	
Total exports	04/10	105.9	106.6	107.0	107.6	107.7	108.3	
·	04/10	105.3	105.8	106.4	106.9	106.8	107.0	
Total private capital investment (goods, services, and construction)	04/10	109.5	109.8	109.8	110.0	110.0	110.4	
Finished goods <sup>2</sup>	00/82	193.4	194.6	196.8	197.0	196.6	197.8	
Processed materials less foods and feeds	00/82	184.5	185.5	187.6	188.6	188.6	189.8	
Processed foods and feeds	00/82	186.0	188.4	189.5	189.4	190.5	189.3	
Processed energy goods	00/82	158.6	160.6	169.0	170.0	165.4	167.5	
Processed materials less foods and energy	00/82	188.7	189.4	189.8	190.7	192.0	192.9	
Unprocessed materials less agricultural products	00/82	181.0	198.6	211.6	207.4	190.7	205.8	
Unprocessed energy materials.	00/82	136.9	155.3	169.1	161.9	138.3	157.8	
Unprocessed nonfood materials less energy.	00/82	294.4	304.5	313.9	318.4	324.8	322.4	
Total goods inputs to stage 4 intermediate demand.	04/10	105.3	105.7	106.5	106.8	107.0	107.3	
Total services inputs to stage 4 intermediate demand.	04/10	112.0	112.3	112.6	113.5	113.3	114.3	
	04/10	97.5	99.6	101.0	102.1	102.4	101.8	
Total services inputs to stage 3 intermediate demand.		110.8	111.0	111.1	111.8	111.6	112.6	
Total goods inputs to stage 2 intermediate demand		82.8	86.5	88.8	88.4	84.5	88.0	
Total services inputs to stage 2 intermediate demand	04/10	111.8	112.1	112.3	112.7	112.7	113.6	
	04/10	88.6	90.5	92.4	93.0	93.3	93.7	
Total services inputs to stage 1 intermediate demand	04/10	113.7	114.2	114.3	115.0	114.4	115.9	

<sup>&</sup>lt;sup>1</sup> 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 2016 have been recalculated to incorporate late reports and corrections by respondents.
<sup>2</sup> 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. 2017 from:		
	code	base	Dec. 2016 <sup>1</sup>	Mar. 2017 <sup>1</sup>	Apr. 2017 <sup>1</sup>	Apr. 2016	Mar. 2017
Goods							
All commodities.			188.2	191.3	193.0	5.3	0.9
Farm products, processed foods and feeds.	1		186.1	190.5	191.0	1.2	0.3
Farm products.	1		153.1	162.6	165.2	4.0	1.6
Processed foods and feeds.	1		202.3	204.3	203.8	0.2	-0.2
Industrial commodities.			188.3	191.1	193.0	6.1	1.0
Textile products and apparel	03		143.4	144.4	145.1	1.3	0.5
Hides, skins, leather, and related products	04		194.8	199.3	198.5	2.2	-0.4
Fuels and related products and power	05		154.3	156.8	161.9	17.6	3.3
Chemicals and allied products	06		270.4	278.5	280.9	6.8	0.9
Rubber and plastic products	07		185.2	188.3	188.8	2.4	0.3
Lumber and wood products	08		223.3	227.9	229.5	3.2	0.7
Pulp, paper, and allied products.	09		250.6	252.7	253.7	2.9	0.4
Metals and metal products	10		199.5	206.2	206.7	7.2	0.2
Machinery and equipment	11		136.8	137.6	137.9	0.7	0.2
Furniture and household durables.	1		165.4	166.0	166.3	0.8	0.2
Nonmetallic mineral products	1		234.0	237.1	238.0	2.0	0.4
Transportation equipment	1		179.0	179.0	179.1	1.1	0.1
Miscellaneous products	15		254.5	255.3	256.9	2.4	0.6
Industrial commodities less fuels			195.6	198.5	199.2	3.3	0.4
Other commodity groupings							
Petroleum products, refined	1		156.3	165.2	170.9	29.1	3.5
Industrial chemicals	1		241.5	251.8	256.5	14.2	1.9
Rubber and rubber products	1		173.3	180.7	180.4	5.3	-0.2
Lumber	1		203.1	214.0	215.3	6.7	0.6
Iron and steel	1		196.4	213.7	212.5	15.3	-0.6
Nonferrous metals			220.0	225.1	228.1	10.1	1.3
General purpose machinery and equipment	1		228.7	230.4	230.6	1.1	0.1
Electrical machinery and equipment	1		112.7	113.6	114.0	0.7	0.4
Electronic components and accessories.	1		66.9	67.1	67.7	0.6	0.9
Aircraft and aircraft equipment.	142		268.0	268.6	268.9	0.7	0.1
Services and construction		06/09	100.4	100.1	100.4	0.0	0.2
Transportation services.	1	06/09	120.4 110.0	122.1 109.9	122.4 110.0	2.3 0.8	0.2
Services related to transportation activities.		12/08	100.3	103.5	103.1	2.6	1.6
Warehousing, storage, and related activities	1	06/09	113.8	115.7	116.0	2.0	0.3
Publishing sales, excluding software		06/09	90.5	91.6	91.8	0.9	0.3
Network compensation from broadcast and cable television and radio.	1	06/09	123.4	129.3	129.3	4.7	0.2
Advertising space and time sales.	1	06/09	104.8	104.3	104.2	1.0	-0.1
Telecommunication, cable, and internet user services.		06/09	99.8	98.5	98.8	-1.6	0.3
Data processing and related services.	1	06/09	100.6	101.0	100.9	0.5	-0.1
Credit intermediation services (partial).		06/09	85.1	85.6	87.9	0.6	2.7
Investment services.	1	06/09	153.4	152.3	158.7	8.9	4.2
Insurance and annuities.	41	06/09	114.8	116.0	116.3	2.3	0.3
Commissions and fees from sales and administration of insurance policies (partial)		06/09	104.5	104.8	104.8	1.2	0.0
Real estate services (partial).	1	06/09	116.6	117.1	117.5	3.3	0.3
Rental and leasing of goods (partial)		06/09	90.8	88.9	90.5	-2.0	1.8
Professional services (partial).	1	06/09	113.8	116.2	116.0	2.5	-0.2
Employment services.	1	06/09	111.6	111.9	112.0	0.9	0.1
Travel arrangement services.		06/09	103.4	105.5	106.9	4.4	1.3
Selected security services (partial).	1	03/09	109.3	109.3	109.5	2.1	0.2
Cleaning and building maintenance services (partial)	1	03/09	110.5	111.0	110.8	0.6	-0.2
Waste collection and remediation services (partial).	1	12/08	119.1	121.1	122.2	2.3	0.9
Health care services.	1	06/09	115.3	115.8	115.8	1.7	0.0
Education services (partial).	1	12/08	107.2	107.7	107.9	4.6	0.2
Accommodation services.		06/09	106.3	114.1	120.1	7.2	5.3
Food and beverages for immediate consumption services (partial)		06/09	117.3	118.4	118.4	2.3	0.0
Repair and maintenance services (partial)	1	06/09	121.4	122.4	122.8	1.9	0.3
Entertainment services (partial)	1	06/09	112.5	113.6	114.8	2.0	1.1
Wholesale trade services	1	06/09	112.2	112.1	113.8	2.1	1.5
Retail trade services.	1	06/09	113.3	117.2	114.7	0.2	-2.1
Metal treatment services.	1	12/84	182.6	183.5	183.9	1.9	0.2
Mining services	1	06/85	222.5	229.6	229.5	0.1	0.0
Contract work on textile products, apparel, and leather		06/10	108.4	108.9	108.8	0.6	-0.1
Construction (partial)	1	06/09	111.5	111.8	112.4	1.3	0.5
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<sup>&</sup>lt;sup>1</sup> The indexes for December 2016 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.