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PRODUCER PRICE INDEXES – OCTOBER 2018

The Producer Price Index for final demand rose 0.6 percent in October, seasonally adjusted, the U.S. Bureau of Labor Statistics reported today. Final demand prices advanced 0.2 percent in September and declined 0.1 percent in August. (See table A.) On an unadjusted basis, the final demand index increased 2.9 percent for the 12 months ended in October.

In October, over 60 percent of the rise in final demand prices can be traced to a 0.7-percent advance in the index for final demand services. Prices for final demand goods moved up 0.6 percent.

The index for final demand less foods, energy, and trade services rose 0.2 percent in October after climbing 0.4 percent in September. For the 12 months ended in October, prices for final demand less foods, energy, and trade services advanced 2.8 percent.

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

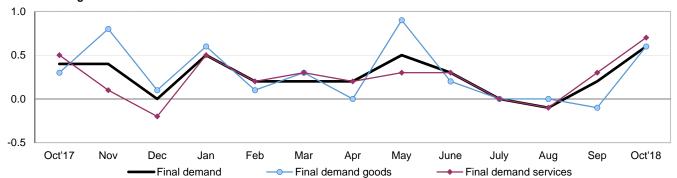
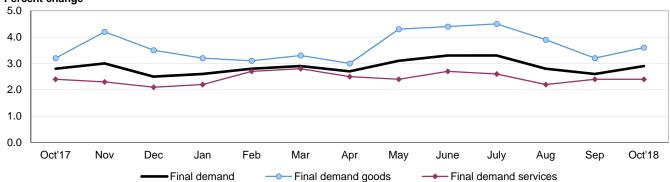


Chart 2. Twelve-month percent changes in selected PPI final demand price indexes, not seasonally adjusted Percent change



Final Demand

Final demand services: The index for final demand services increased 0.7 percent in October, the largest advance since climbing 0.8 percent in January 2016. Nearly three-fourths of the broad-based October rise can be traced to margins for final demand trade services, which moved up 1.6 percent. (Trade indexes measure changes in margins received by wholesalers and retailers.) Prices for final demand services less trade, transportation, and warehousing and for final demand transportation and warehousing services increased 0.2 percent and 0.6 percent, respectively.

Product detail: About one-fifth of the October advance in prices for final demand services is attributable to a 1.2-percent rise in margins for machinery, equipment, parts, and supplies wholesaling. The indexes for food and alcohol retailing; health, beauty, and optical goods retailing; inpatient care; apparel, jewelry, footwear, and accessories retailing; and traveler accommodation services also moved higher. In contrast, prices for loan services (partial) fell 0.5 percent. The indexes for hospital outpatient care and furniture retailing also declined. (See table 4.)

Final demand goods: The index for final demand goods climbed 0.6 percent in October, the largest rise since advancing 0.9 percent in May. Nearly three-fourths of the October increase can be traced to prices for final demand energy, which moved up 2.7 percent. The index for final demand foods rose 1.0 percent. Prices for final demand goods less foods and energy were unchanged.

Product detail: Over 60 percent of the October increase in prices for final demand goods is attributable to the gasoline index, which jumped 7.6 percent. Prices for diesel fuel, fresh and dry vegetables, beef and veal, cigarettes, and jet fuel also moved higher. Conversely, the motor vehicles index fell 0.7 percent. (In accordance with usual practice, most new-model-year passenger car and light motor trucks were introduced into the PPI in October. See *Report on Quality Changes for 2019 Model Vehicles* at www.bls.gov/web/ppi/ppimotveh.htm.) Prices for liquefied petroleum gas and for fresh fruits and melons also decreased.

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

		Final demand	Final demand goods				Fi	inal den	nand service	Change in final	Change in final demand less	
Month final for demand en	less foods,	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.)	
2017												
Oct	0.4	0.4	0.3	0.3	0.2	0.3	0.5	0.9	0.7	0.4	2.8	2.4
Nov	0.4	0.2	0.8	0.2	3.5	0.3	0.1	-0.3	0.9	0.2	3.0	2.4
Dec	0.0	0.1	0.1	-0.2	0.2	0.1	-0.2	-0.4	-0.6	0.2	2.5	2.3
2018												
Jan	0.5	0.5	0.6	0.1	2.9	0.3	0.5	0.4	-0.2	0.5	2.6	2.5
Feb	0.2	0.3	0.1	-0.6	0.1	0.3	0.2	0.1	1.0	0.3	2.8	2.7
Mar	0.2	0.3	0.3	2.2	-2.0	0.3	0.3	-0.1	0.5	0.3	2.9	2.9
Apr	0.2	0.2	0.0	-1.3	0.4	0.3	0.2	0.3	0.7	0.0	2.7	2.6
May	0.5	0.3	0.9	0.4	3.7	0.2	0.3	0.5	0.7	0.2	3.1	2.7
June ¹	0.3	0.2	0.2	-1.2	1.5	0.3	0.3	0.5	0.7	0.3	3.3	2.7
July ¹	0.0	0.2	0.0	-0.1	-0.8	0.3	0.0	-0.2	0.3	0.0	3.3	2.8
Aug	-0.1	0.1	0.0	-0.6	0.4	0.0	-0.1	-0.9	-0.6	0.3	2.8	2.9
Sept	0.2	0.4	-0.1	-0.6	-0.8	0.2	0.3	0.1	1.8	0.3	2.6	2.9
Oct	0.6	0.2	0.6	1.0	2.7	0.0	0.7	1.6	0.6	0.2	2.9	2.8

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

Intermediate Demand by Commodity Type

Within intermediate demand in October, prices for processed goods rose 0.8 percent, the index for unprocessed goods increased 3.6 percent, and prices for services moved up 0.4 percent. (See tables B and C.)

Processed goods for intermediate demand: The index for processed goods for intermediate demand increased 0.8 percent in October after no change in each of the previous two months. In October, the broadbased rise was led by prices for processed energy goods, which advanced 2.6 percent. The indexes for processed materials less foods and energy and for processed foods and feeds both moved up 0.4 percent. For the 12 months ended in October, the index for processed goods for intermediate demand climbed 5.9 percent.

Product detail: In October, a major factor in the rise in prices for processed goods for intermediate demand was the index for diesel fuel, which jumped 5.4 percent. The indexes for basic organic chemicals, gasoline, utility natural gas, jet fuel, and beef and veal also increased. In contrast, prices for softwood lumber dropped 10.3 percent. The indexes for liquefied petroleum gas and natural, processed, and imitation cheese also fell. (See table 5.)

Unprocessed goods for intermediate demand: The index for unprocessed goods for intermediate demand moved up 3.6 percent in October, the largest increase since a 3.6-percent rise in January 2017. Over half of the October advance is attributable to a 5.8-percent jump in the index for unprocessed foodstuffs and feedstuffs. Prices for unprocessed energy materials climbed 3.6 percent, while the index for unprocessed nonfood materials less energy was unchanged. For the 12 months ended in October, prices for unprocessed goods for intermediate demand rose 7.8 percent.

Product detail: A major factor in the October increase in prices for unprocessed goods for intermediate demand was the index for slaughter livestock, which jumped 9.6 percent. Prices for crude petroleum, raw milk, slaughter chickens, oilseeds, and copper base scrap also moved higher. Conversely, the index for natural gas declined 1.0 percent. Prices for citrus fruits and aluminum base scrap also moved lower.

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

lor goods b	<i></i>	Processed goods for intermediate demand Unprocessed goods for intermediate deman										
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.)		
2017												
Oct	0.6	0.5	1.6	0.4	4.8	0.5	1.2	1.8	-2.6	8.5		
Nov	0.8	-0.2	2.5	0.5	5.4	2.6	2.5	4.7	-0.2	11.0		
Dec	0.3	0.1	0.8	0.2	5.0	1.3	-0.7	3.3	1.8	5.0		
2018												
Jan	0.8	0.1	2.1	0.5	4.7	1.9	-0.6	3.5	3.5	3.3		
Feb	0.6	1.2	0.8	0.5	4.8	1.7	2.2	2.3	0.0	5.3		
Mar	-0.1	1.0	-2.9	0.6	4.8	-3.5	-0.2	-9.2	1.2	5.3		
Apr	0.4	0.3	1.1	0.3	4.8	0.9	-2.4	4.1	0.6	4.2		
May	1.2	0.4	3.5	0.8	6.2	2.2	0.2	5.1	-0.2	7.4		
June ¹	0.6	-1.3	2.3	0.4	6.6	-1.0	-0.8	-1.8	0.5	6.5		
July ¹	0.1	-0.7	-0.8	0.4	6.8	2.1	-2.5	7.9	-1.7	8.2		
Aug	0.0	-0.8	-0.3	0.2	6.3	-5.8	-5.2	-7.9	-1.9	2.9		
Sept	0.0	-1.4	-0.2	0.2	5.8	1.7	0.6	4.7	-2.8	4.3		
Oct	0.8	0.4	2.6	0.4	5.9	3.6	5.8	3.6	0.0	7.8		

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Services for intermediate demand: The index for services for intermediate demand rose 0.4 percent in October after a 0.5-percent increase in September. In October, over 60 percent of the broad-based advance can be traced to margins for trade services for intermediate demand, which climbed 1.5 percent. The index for services less trade, transportation, and warehousing for intermediate demand moved up 0.2 percent, and prices for transportation and warehousing services for intermediate demand rose 0.3 percent. For the 12 months ended in October, the index for services for intermediate demand increased 3.2 percent.

Product detail: In October, a quarter of the rise in the index for services for intermediate demand can be traced to margins for metals, minerals, and ores wholesaling, which jumped 7.8 percent. The indexes for broadcast and network television advertising time sales; paper and plastics products wholesaling; services related to securities brokerage and dealing (partial); portfolio management; and management, scientific, and technical consulting services also moved higher. In contrast, gross rents for retail properties fell 4.1 percent. Prices for cable network advertising time sales and passenger car rental also declined.

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

indexes for services by commodity type, seasonally adjusted

		Services for intermediate demand										
Month	Total	Trade	Transportation and warehousing	Other	Total, change from 12 months ago (unadj.)							
2017												
Oct	0.6	1.0	0.6	0.6	3.3							
Nov	0.2	-0.3	0.6	0.2	3.2							
Dec	0.2	0.4	-0.1	0.2	2.9							
2018												
Jan	0.3	0.4	0.1	0.3	3.2							
Feb	0.3	0.6	0.6	0.3	3.1							
Mar	0.3	0.3	0.4	0.1	3.2							
A pr	0.3	0.8	0.4	0.2	3.0							
May	0.3	0.4	0.5	0.2	3.1							
June ¹	0.2	0.5	0.3	0.1	3.0							
July ¹	0.2	-0.2	0.2	0.2	3.0							
A ug	0.1	-1.1	-0.1	0.5	2.9							
Sept	0.5	0.7	1.0	0.3	3.3							
Oct	0.4	1.5	0.3	0.2	3.2							

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Intermediate Demand by Production Flow

Stage 4 intermediate demand: Prices for stage 4 intermediate demand advanced 0.5 percent in October, the largest rise since moving up 0.5 percent in May. In October, the index for total goods inputs to stage 4 intermediate demand increased 0.5 percent, and prices for total services inputs climbed 0.4 percent. (See table D.) Advances in the indexes for diesel fuel; metals, minerals, and ores wholesaling; paper and plastics products wholesaling; gasoline; portfolio management; and basic organic chemicals outweighed decreases in prices for gross rents for retail properties, softwood lumber, and citrus fruits. (See table 6.) For the 12 months ended in October, the index for stage 4 intermediate demand moved up 3.6 percent.

Stage 3 intermediate demand: The index for stage 3 intermediate demand moved up 1.6 percent in October, the largest rise since a 1.6-percent increase in February 2011. In October, prices for total goods inputs to stage 3 intermediate demand jumped 2.9 percent, and the index for total services inputs climbed 0.4 percent. Increases in the indexes for slaughter livestock; gasoline; raw milk; jet fuel; slaughter chickens; and metals, minerals, and ores wholesaling outweighed declines in prices for gross rents for retail properties, integrated microcircuits, and passenger car rental. For the 12 months ended in October, the index for stage 3 intermediate demand rose 5.3 percent.

Stage 2 intermediate demand: Prices for stage 2 intermediate demand climbed 0.8 percent in October following a 0.9-percent rise in September. In October, the index for total goods inputs to stage 2 intermediate demand increased 1.4 percent, and prices for total services inputs moved up 0.3 percent. Advances in the indexes for crude petroleum; services related to securities brokerage and dealing (partial); basic organic chemicals; portfolio management; oilseeds; and management, scientific, and technical consulting services outweighed decreases in prices for gas fuels, cable network advertising time sales, and softwood lumber. For the 12 months ended in October, the index for stage 2 intermediate demand rose 6.1 percent.

Stage 1 intermediate demand: The index for stage 1 intermediate demand moved up 1.1 percent in October, the largest rise since a 1.1-percent increase in January. In October, prices for total goods inputs to stage 1 intermediate demand advanced 1.5 percent, and the index for total services inputs climbed 0.5 percent. Increases in the indexes for basic organic chemicals; diesel fuel; metals, minerals, and ores wholesaling; gasoline; crude petroleum; and paper and plastics products wholesaling outweighed declines in prices for aluminum base scrap, gross rents for retail properties, and passenger car rental. For the 12 months ended in October, the index for stage 1 intermediate demand advanced 6.0 percent.

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

production flow, seasonally adjusted

	Stage	4 intern demand		Stage 3 intermediate demand			Stage	2 interr demand		Stage 1 intermediate demand			
Month	Total	Goods inputs	Ser- vices inputs	Total	Goods inputs	Ser- vices inputs	Total	Goods inputs	Ser- vices inputs	Total	Goods inputs	Ser- vices inputs	
2017													
Oct	0.5	0.4	0.7	0.8	8.0	0.7	0.7	0.8	0.5	0.5	0.3	0.9	
Nov	0.4	0.6	0.2	1.0	1.8	0.1	1.0	1.7	0.3	0.7	1.4	-0.1	
Dec	0.1	0.1	0.1	0.3	0.3	0.3	0.6	1.3	0.1	0.5	0.9	0.0	
2018													
Jan	0.5	0.8	0.3	0.6	1.0	0.3	0.9	1.5	0.5	1.1	1.9	0.2	
Feb	0.3	0.2	0.3	0.7	1.0	0.3	0.8	1.4	0.3	0.3	0.3	0.3	
Mar	0.3	0.5	0.2	-0.3	-0.7	0.2	-1.2	-3.1	0.3	0.0	-0.2	0.3	
A pr	0.3	0.3	0.3	0.1	-0.3	0.3	0.8	1.9	0.2	0.4	0.5	0.3	
May	0.5	0.9	0.2	1.0	1.9	0.3	1.3	2.8	0.1	1.0	1.4	0.7	
June ¹	0.3	0.4	0.3	0.5	0.9	0.2	-0.1	-0.4	0.1	0.6	0.8	0.3	
July ¹	0.0	0.1	-0.1	0.0	-0.1	0.1	1.1	2.3	0.3	0.3	0.3	0.4	
Aug	0.0	-0.1	0.2	-0.8	-1.5	0.1	-1.2	-2.8	0.1	-0.5	-0.8	-0.2	
Sept	0.3	0.0	0.5	0.3	0.2	0.4	0.9	1.9	0.2	0.0	-0.4	0.6	
Oct	0.5	0.5	0.4	1.6	2.9	0.4	0.8	1.4	0.3	1.1	1.5	0.5	

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The Producer Price Index for November 2018 is scheduled to be released on Tuesday, December 11, 2018 at 8:30 a.m. (EST).

Resampling of Industries

Effective with the release of data for October 2018, the Producer Price Index (PPI) includes data for 21 resampled industries classified according to the 2017 North American Industry Classification System (NAICS). The Bureau of Labor Statistics periodically updates the sample of producers providing data for the PPI to reflect current conditions more accurately when the structure, membership, technology, or product mix of an industry shifts. The first results of this systematic process were published in July 1986. Subsequent efforts have been completed at regular intervals.

For information on index additions, deletions, and recodes effective October 2018, see the current issue of the *PPI Detailed Report* online at www.bls.gov/ppi/ppidr201810.pdf, or contact the PPI Section of Index Analysis and Public Information at *ppi-info@bls.gov* or (202) 691-7705.

NAICS	
Code	Industry
311111	Dog and cat food manufacturing
311313	Beet sugar manufacturing
312112	Bottled water manufacturing
314999	All other miscellaneous textile product mills
321999	Miscellaneous wood product manufacturing
322299	All other converted paper product manufacturing
32311K	Commercial printing, except screen and books
325211	Plastics material and resins manufacturing
331314	Secondary smelting and alloying of aluminum
333922	Conveyor and conveying equipment manufacturing
334512	Automatic environmental control manufacturing
335121	Residential electric lighting fixture manufacturing
335122	Nonresidential electric lighting fixture manufacturing
336310	Motor vehicle gasoline engine and engine parts manufacturing
336360	Motor vehicle seating and interior trim manufacturing
339993	Fastener, button, needle, and pin manufacturing
444110	Home centers
444120	Paint and wallpaper stores
481111	Scheduled passenger air transportation
531320	Offices of real estate appraisers
621991	Blood and organ banks

Recalculated Seasonal Adjustment Factors and Relative Importance Figures to be Available on February 12, 2019

Each year with the release of PPI data for January, seasonal adjustment factors and relative importance figures are recalculated to reflect price movements from the just-completed calendar year. The following seasonal information will be available on February 12, 2019 (2 workdays prior to the release of PPI data for January 2019 on February 14, 2019):

- Direct seasonal factors for PPI commodity indexes for the year 2019,
- Recalculated seasonal factors for the last 5 years (2014-2018) for PPI commodity indexes,
- Recalculated seasonal factors for the last 5 years (2014-2018) for PPI Final Demand-Intermediate Demand indexes,
- Recalculated seasonal index data for the last 5 years (2014-2018) for Final Demand-Intermediate
 Demand and commodity indexes. This revision to seasonally adjusted indexes for the previous 5
 years will be posted to the PPI database on the BLS website.

In addition, the following relative importance tables, which include values for December 2018, will be available on February 12, 2019:

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

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

Technical Note

Brief Explanation of Producer Price Indexes

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

More than 10,000 PPIs for individual products and groups of products are released each month. PPIs are available for the products of virtually every industry in the mining and manufacturing sectors. Over time, new PPIs have been introduced for products of industries in the services and construction sectors of the U.S. economy. As of January 2018, the PPI covered 71 percent of services as measured by 2012 Census revenue, and 31 percent of construction.

More than 100,000 price quotations per month are organized into three sets of PPIs: (1) Final demand-Intermediate demand (FD-ID) indexes, (2) commodity indexes, and (3) indexes for the net output of industries and their products. The FD-ID structure organizes products by class of buyer and degree of fabrication as well as by stage of production. The commodity structure organizes products by similarity of end use or product type. The entire output of various industries is sampled to derive price indexes for the net output of industries and their products.

Final Demand–Intermediate Demand Indexes

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

Compared with finished goods under the SOP system, the PPI for final demand goods includes nearly a 50 percent expansion of coverage. This increase can be traced to the addition of government purchases and exports. For overall final demand, expansion to include final demand services represents an even larger increase in coverage. In December 2017, final demand goods were about 33 percent of overall final demand, final demand services were roughly 65.5 percent, and final demand construction was about 1.5 percent of final demand. Within intermediate demand, coverage of services for intermediate demand resulted in about a 45 percent increase in coverage of the intermediate demand portion of the economy.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Comparing the PPI with CPI

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

Commodity Indexes

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

Industry Net-Output Price Indexes

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

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

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

Data Collection

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

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

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

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

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

Title	Code	PPI Detailed Report Issue
	SIC	
Wireless telecommunications	4812	July 1999
Telephone communications, except radio telephone	4813 4833	July 1995 July 2002
Grocery stores	5411	July 2000
Meat and fish (seafood) markets	5421	July 2000
Fruit and vegetable markets	5431	July 2000
Candy, nut, and confectionery stores	5441	July 2000
Retail bakeries	5461	July 2000
Miscellaneous food stores	5499	July 2000
New car dealers	5511	July 2000

Title	Code	PPI Detailed Report Issue
	SIC	
Gasoline service stations	5541	January 2002
Boat dealers	5551	January 2002
Recreational vehicle dealers	5561	January 2002
Miscellaneous retail	59	January 2001
Security brokers, dealers, and		
investment bankers	6211 6282	January 2001 January 2003
Life insurance carriers	6311	January 1999
Property and casualty insurance	6331	July 1998
Insurance agencies and brokerages	6412	January 2003
Operators and lessors of nonresidential buildings	6512 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
Roofing contractors, nonresidential building work	23816X	July 2008
building workPlumbing / HVAC contractors,	23821X	July 2008
nonresidential building work	23822X	July 2008
Merchant wholesalers, durable goods	423	July 2005
Merchant wholesalers, nondurable goods	424	July 2005
Electronics and appliance stores	443	January 2004
Building material and garden equipment and supplies dealers		
	444	January 2004
music stores	451	January 2004
music stores	451 452	January 2004 January 2004
music stores	451 452 453	January 2004 January 2004 January 2004
music stores	451 452	January 2004 January 2004
music stores	451 452 453	January 2004 January 2004 January 2004
music stores General merchandise stores Miscellaneous store retailers Internet service providers Internet publishing and web search portals Commercial banking	451 452 453 518111 519130	January 2004 January 2004 January 2004 July 2005 January 2010
music stores General merchandise stores Miscellaneous store retailers Internet service providers Internet publishing and web search portals Commercial banking Savings institutions Direct health and medical insurance carriers	451 452 453 518111 519130 522110	January 2004 January 2004 January 2004 July 2005 January 2010 January 2005
General merchandise stores	451 452 453 518111 519130 522110 522120	January 2004 January 2004 January 2005 January 2010 January 2005 January 2005

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

Weights

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

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

Price Index Reference Base

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

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

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

Calculating Index Changes

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

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

Index point change

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

Index percent change

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

Seasonally Adjusted and Unadjusted Data

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

https://www.bls.gov/ppi/ppiescalation.htm.

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

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

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

Since January 1988, the PPI has used Intervention Analysis Seasonal Adjustment methods to enhance the calculation of seasonal factors. With this technique, outlier values that may distort the seasonal pattern are removed from the data prior to applying the standard seasonal factor estimation procedure. For example, a possible economic cause for large price movements for petroleum-based products might have been the Persian Gulf War. In this case, intervention techniques allowed for better estimates of seasonally adjusted data. On the whole, very few series have required intervention. Out of almost 400 seasonally adjusted series, only 42 were subject to intervention in 2018.

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

Producer Price Index Data on the Internet

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

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

Retrieving PPI data from the PPI Web site

PPI data can be obtained from the WWW address (https://www.bls.gov/ppi). On this page, under the tab labeled "Featured PPI databases" links provide the following methods of data retrieval:

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

EXAMPLES

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

Commodity code Provides data for:

wps141101 Passenger cars, seasonally adjusted wpu141101

Passenger cars, not seasonally

adjusted

Final demand, not seasonally wpufd4

adjusted

Services for intermediate demand, wpsid63

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.

Commodity code Provides data for:

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 6digit industry code is listed twice) followed by up to 7 alphanumeric characters identifying product detail. Dashes are used as placeholders for higher-level industry group codes.

Industry-product code, current NAICS series

pcu325---325---

pcu336110336110

pcu621111621111411

Provides data for:

Chemical manufacturing Automobile and light duty motor vehicle manufacturing Offices of physicians, one- and

two-physician practices and single-specialty group practices, general/family

practice

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

Industry-product code,

discontinued SIC series Provides data for:

pdu28__# pdu331_#

Chemicals and allied products Blast furnaces, steel works, and rolling and finishing mills

Passenger cars

pdu3711#111

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
Lead and zinc ore mining
Lead, zinc concentrates
Lead concentrates

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

Special requests

/pub/time.series/pc
/pub/time.series/nd
/pub/time.series/pd
/pub/time.series/wp
/pub/time.series/wd
/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 demand¹ [Nov 2009=100, unless otherwise indicated]

Grouping	Other index	Relative Impor- tance	Un	adjusted in	dex	change to	ed percent Oct. 2018 om:	Seasonally adjusted percent change from:		
	base	Dec. 2017 ²	June 2018 ³	Sept. 2018 ³	Oct. 2018 ³	Oct. 2017	Sept. 2018	July to Aug.	Aug. to Sept.	Sept. to Oct
Final demand		100.000	116.6	116.5	117.4	2.9	0.8	-0.1	0.2	0.6
Final demand goods		33.022	116.0	115.6	116.0	3.6	0.3	0.0	-0.1	0.6
Final demand foods		5.723	116.9	115.0	115.6	-0.7	0.5	-0.6	-0.6	1.0
Finished consumer foods ⁴	00/82	4.604	206.9	205.1	206.1	-0.7	0.5	-0.9	-0.4	0.9
Finished consumer foods, crude	00/82 00/82	0.484 4.120	191.4 209.1	192.2 206.9	195.9 207.6	-7.8 0.1	1.9 0.3	-5.8 -0.3	-2.2 -0.2	3.5 0.6
Finished consumer foods, processed	00/62	0.344	121.1	119.0	119.7	-0.7	0.6	-0.3	0.0	1.2
Foods for export.		0.775	114.6	108.2	108.9	-0.7	0.6	1.3	-1.8	1.5
Final demand energy.		5.577	115.3	114.4	114.7	12.5	0.3	0.4	-0.8	2.7
Finished consumer energy goods ⁴	00/82	4.549	181.7	179.8	179.8	10.9	0.0	0.6	-0.9	2.6
Government purchased energy		0.786	118.4	119.0	120.1	17.6	0.9	0.0	-0.5	3.4
Energy for export		0.242	108.7	109.4	112.4	24.9	2.7	-1.7	-0.3	4.1
Final demand goods less foods and energy	00/00	21.722	116.0	116.2	116.6	2.5	0.3	0.0	0.2	0.0
Finished goods less foods and energy ⁴ Finished consumer goods less foods and energy	00/82 00/82	12.775 6.902	202.9 226.7	203.7 227.4	204.7 228.5	2.2 2.5	0.5 0.5	0.1 0.1	0.3 0.3	0.0
Nondurable consumer goods less foods and energy	00/82	4.205	290.1	291.2	291.6	2.7	0.5	0.1	0.3	0.0
Durable consumer goods	00/82	2.697	160.9	161.2	162.9	2.0	1.1	0.1	0.4	-0.2
Private capital equipment	00/82	5.873	173.2	174.0	174.9	2.0	0.5	0.2	0.3	0.0
Private capital equipment for manufacturing industries	00/82	1.316	176.7	178.2	178.5	3.0	0.2	0.1	0.5	0.0
Private capital equipment for nonmanufacturing industries	00/82	4.557	172.0	172.6	173.6	1.8	0.6	0.2	0.2	-0.1
Government purchased goods, excluding foods and energy		2.241	112.9	113.4	113.5	2.4	0.1	0.2	0.2	0.1
Government purchased goods excluding foods, energy, and capital		1 000	445.4	115.0	115.0	0.0	0.4		0.0	0.1
equipment		1.309 0.932	115.1 108.6	115.8 108.8	115.9 108.8	3.2 1.3	0.1 0.0	0.2 0.1	0.3 0.1	0.1 0.2
Government purchased capital equipment		6.706	114.1	113.6	113.8	2.8	0.0	-0.3	0.0	-0.1
Final demand services.		65.333	116.6	116.6	117.6	2.4	0.9	-0.1	0.3	0.7
Final demand trade services ⁵		20.290	117.2	116.3	118.7	1.5	2.1	-0.9	0.1	1.6
Trade of finished goods ⁴		17.671	116.7	115.8	118.4	1.4	2.2	-0.8	0.0	1.6
Trade of personal consumption goods		14.474	115.7	114.9	117.6	0.9	2.3	-0.7	-0.1	1.7
Trade of private capital equipment		3.197	120.3	119.0	120.8	3.7	1.5	-1.4	0.4	1.5
Trade of government purchased goods		0.721	119.9	119.2	120.8	2.0	1.3	-1.1	0.6	1.3
Trade of government purchased goods, excluding capital equipment		0.443	117.0	117.4	118.6	1.1	1.0	-0.7	1.1	1.0
Trade of government purchased capital equipment		0.448	123.9	121.7	123.8	3.5	1.7	-1.7	-0.2	1.7
Trade of exports		1.898	120.5	119.4	120.8	2.7	1.2	-0.6	0.6	1.2
Final demand transportation and warehousing services		4.485	122.6	122.4	123.7	5.8	1.1	-0.6	1.8	0.6
Transportation of passengers for final demand		1.235	117.1	113.7	117.3	3.5	3.2	-1.9	5.4	1.1
Transportation of private passengers		0.844	117.2	113.8	117.3	3.5	3.1	-1.9	5.4	1.1
Transportation of government passengers		0.127	117.2	113.8	117.4	3.6	3.2	-1.9	5.4	1.1
Transportation of passengers for export		0.264	117.1	113.6	117.2	3.5	3.2	-2.0	5.6	1.0
Transportation and warehousing of goods for final demand Transportation and warehousing of finished goods ⁴		3.250 2.296	124.1 123.1	125.2 124.2	125.6 124.6	6.4 6.7	0.3 0.3	-0.1 -0.2	0.5 0.5	0.3
Transportation and warehousing of personal consumption		2.230	120.1	124.2	124.0	0.7	0.5	-0.2	0.5	0.5
goods		1.798	123.3	124.4	124.8	6.6	0.3	-0.1	0.4	0.3
Transportation and warehousing of private capital equipment		0.498	122.0	123.2	123.6	6.9	0.3	-0.1	0.5	0.3
Transportation and warehousing of government purchased goods		0.239	122.8	123.7	124.0	5.7	0.2	-0.1	0.4	0.3
Transportation and warehousing of exports		0.715	127.7	128.7	129.1	6.0	0.3	0.0	0.6	0.3
Final demand services less trade, transportation, and warehousing		40.558	115.7	116.2	116.6	2.6	0.3	0.3	0.3	0.2
Finished services less trade, transportation, and warehousing ⁴ Finished consumer services less trade, transportation, and		36.063	116.1	116.6	117.0	2.8	0.3	0.3	0.2	0.3
warehousing		32.606	116.0	116.5	116.9	2.6	0.3	0.3	0.2	0.3
Private capital investment services less trade, transportation, and										
warehousing		3.457	116.9	117.8	117.8	3.7	0.0	-0.1	0.5	0.0
warehousing		3.048	110.7	111.3	111.4	1.5	0.1	0.3	0.3	0.1
warehousing, excl. capital investment		2.947	111.0	111.7	111.8	1.5	0.1	0.4	0.3	0.0
transportation, and warehousing		0.101	101.3	102.4	102.0	1.5	-0.4	-1.2	1.5	-0.4
Services for export less trade, transportation, and warehousing		1.447	116.9	117.9	117.9	3.4	0.0	0.0	0.7	0.1
Final demand construction.		1.644	120.7	121.3	123.6	4.7	1.9	0.1	0.1	1.9
Construction for private capital investment.		1.108	120.8	121.5	123.7	4.9	1.8	0.1	0.1	1.8
Construction for government.		0.536	120.4	120.9	123.4	4.5	2.1	0.0	0.1	2.1
Special groupings	04/15			4	4 · = -		2.5		• •	
Final demand less exports.	04/10	87.953	115.0	115.0	115.9	2.8	0.8	-0.1	0.2	0.7
Final demand less government	04/10	91.958	115.0	114.9	115.8	2.8	8.0	-0.1	0.2	0.7
Final demand less foods, food and nonalcoholic heverages for immediate						1		i		
Final demand less foods, food and nonalcoholic beverages for immediate consumption, and energy ⁶	04/10	88.146	115.3	115.4	116.3	2.5	0.8	-0.1	0.3	0.5

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

[Nov 2009=100, unless otherwise indicated]

Grouping	Other index	Relative Impor- tance	Uı	nadjusted in	dex	change to	ed percent Oct. 2018 om:		onally adj nt change	
. •	base	Dec. 2017 ²	June 2018 ³	Sept. 2018 ³	Oct. 2018 ³	Oct. 2017	Sept. 2018	July to Aug.	Aug. to Sept.	Sept. to Oct.
Final demand less foods and food and nonalcoholic beverages for	04/10	00.700	1110	1110	115.0	0.1	0.0	0.0	0.0	0.7
immediate consumption ⁶		93.723	114.9	114.9	115.8	3.1	0.8	0.0	0.2	0.7
Final demand less energy.	1	94.277 94.423	114.9 115.2	114.9 115.1	115.8 116.0	3.1 2.4	0.8 0.8	0.0 -0.2	0.2 0.3	0.6 0.5
•		79.710	115.2	115.1	115.8	3.3	0.8	0.1	0.3	0.5
Final demand less trade services Final demand less distributive services ⁷	1	76.460	114.9	114.9	115.6	3.1	0.4	0.1	0.1	0.5
Final demand goods less energy.		27.445	115.2	114.9	115.4	1.8	0.4	-0.1	0.0	0.4
Final demand goods less foods.		27.445	113.2	113.1	113.4	4.4	0.3	0.1	-0.1	0.6
Final demand services less trade services.		45.043	115.5	115.1	116.4	3.0	0.3	0.1	0.3	0.3
Final demand distributive services ⁷		23.540	115.5	115.9	117.4	2.3	1.8	-0.7	0.3	1.4
Final demand goods plus final demand distributive services ⁷		56.562	114.4	113.3	117.4	3.0	1.0	-0.7	0.0	1.4
Final demand less foods, energy, and trade services ⁶	. 08/13	68.410	108.4	108.7	109.2	2.8	0.5	0.1	0.4	0.2
Private and government purchased capital equipment.	. 08/13	6.805	105.4	106.7	106.5	2.0	0.5	0.1	0.4	0.0
Private and government purchased capital equipment	. 08/13	7.531	109.3	100.0	110.0	3.8	0.5	-0.7	0.5	0.7
Total private and government purchased capital investment services	08/13	14.336	109.3	109.2	109.2	3.1	0.7	-0.7	0.3	0.6
Total finished ⁴		79.910	115.9	115.8	116.8	2.8	0.0	-0.2	0.3	0.0
Total finished less foods, food and nonalcoholic beverages for immediate	. 01/10	79.910	115.9	113.0	110.0	2.0	0.9	-0.1	0.2	0.7
consumption, and energy ^{4, 6}	. 12/10	70.216	115.3	115.4	116.4	2.6	0.9	-0.1	0.3	0.6
Total finished less foods and energy ^{4, 6}		70.757	116.1	116.2	117.3	2.5	0.9	-0.1	0.3	0.6
Total finished less foods and food and nonalcoholic beverages for		10					0.0	"	0.0	0.0
immediate consumption ^{4, 6}	. 12/10	74.765	114.6	114.6	115.5	3.0	0.8	0.0	0.2	0.7
Total finished less foods ^{4, 6}		75.306	115.9	115.9	116.9	3.0	0.9	0.0	0.2	0.7
Total finished less energy ⁴	. 01/10	75.361	116.1	116.1	117.1	2.3	0.9	-0.2	0.2	0.6
Finished goods ⁴	. 00/82	21.928	205.9	205.5	206.2	3.4	0.3	0.0	-0.1	0.7
Finished goods less energy ⁴	1	17.379	203.6	203.7	204.7	1.5	0.5	-0.1	0.1	0.2
Finished goods, excluding foods ^{4, 6}	. 00/82	17.324	204.8	204.8	205.5	4.5	0.3	0.2	0.0	0.7
Finished services ⁴	01/10	56.874	115.7	115.7	116.8	2.5	1.0	-0.2	0.3	0.6
Private capital investment services	. 04/10	7.152	117.5	117.4	118.2	3.8	0.7	-0.7	0.4	0.7
Finished distributive services ^{4, 7}	. 04/10	19.967	115.1	114.5	116.7	2.0	1.9	-0.7	0.0	1.5
Finished services less trade services ⁴	. 04/10	39.203	115.6	116.1	116.5	3.0	0.3	0.2	0.3	0.3
Finished services less distributive services ^{4, 7}	. 04/10	36.907	115.4	115.8	116.2	2.7	0.3	0.3	0.3	0.3
Total private capital investment (goods, services, and construction)	. 04/10	14.133	114.5	114.7	115.5	3.1	0.7	-0.3	0.3	0.5
Finished goods plus finished distributive services ⁴	. 04/10	41.895	115.0	114.6	115.9	2.7	1.1	-0.3	-0.1	1.1
Total exports	. 04/10	12.047	113.2	112.5	113.0	3.3	0.4	-0.3	0.2	0.4
Goods for export	. 00/82	7.723	191.0	189.3	189.7	3.0	0.2	-0.2	-0.3	0.3
Services for export	. 04/10	4.324	119.0	118.8	119.7	3.6	8.0	-0.3	0.9	0.7
Total government purchases	. 04/10	8.042	111.9	112.2	112.7	3.6	0.4	0.0	0.3	0.7
Government purchased goods	. 00/82	3.371	188.2	188.6	189.3	5.6	0.4	0.0	-0.1	1.1
Government purchased services	. 04/10	4.135	112.8	113.2	113.6	1.9	0.4	0.0	0.5	0.4
Total government purchased capital investment (goods, services,										
construction)	1	1.847	107.9	107.9	108.9	2.6	0.9	-0.3	0.2	8.0
Personal consumption	1	65.777	116.1	116.0	117.0	2.7	0.9	0.0	0.1	8.0
Personal consumption goods (finished consumer goods)	1	16.055	219.6	218.6	219.3	3.9	0.3	0.0	-0.2	1.0
Personal consumption goods less energy	1	11.506	218.9	218.6	219.6	1.2	0.5	-0.3	0.0	0.4
Personal consumption goods less foods	1	11.451	223.1	222.5	223.1	5.8	0.3	0.2	-0.1	1.0
Personal consumption nondurable goods less foods	1	8.754	250.7	249.7	249.8	6.9	0.0	0.3	-0.3	1.5
Personal consumption services	1	49.722	114.9	115.0	116.1	2.3	1.0	0.0	0.2	0.6
Personal consumption less trade services	1	51.303	116.0	116.0	116.5	3.2	0.4	0.2	0.1	0.5
Personal consumption less distributive services ⁷	1	49.505	115.8	115.9	116.3	3.0	0.3	0.2	0.1	0.5
Personal consumption less foods and energy	1	56.624	107.5	107.6	108.6	2.4	0.9	0.0	0.2	0.6
Personal consumption less foods, energy, and trade services ⁵	. 04/14	42.150	108.0	108.4	108.9	2.8	0.5	0.3	0.3	0.2
Personal consumption less foods, energy, and distributive services ⁷	. 04/14	40.352	108.2	108.5	109.0	2.6	0.5	0.3	0.3	0.2
Personal consumption goods plus personal consumption distributive	. 08/13		40	46	4.6					, -
services'		32.327	105.2	104.7	106.0	2.7	1.2	-0.3	-0.2	1.2

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

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

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

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

⁵ Trade indexes measure changes in margins received by wholesalers and retailers.

⁶ 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.

⁷ Distributive services include transportation, warehousing, and trade of goods.

[&]quot;-" Data not available.

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

Grouping	Other index	Relative Impor- tance	Un	adjusted in	dex	change	ed percent to Oct. from:		onally adj	
	base	Dec. 2017 ²	June 2018 ³	Sept. 2018 ³	Oct. 2018 ³	Oct. 2017	Sept. 2018	July to Aug.	Aug. to Sept.	Sept. to Oct.
Processed goods										
Processed goods for intermediate demand	00/82	100.000	203.4	203.8	204.3	5.9	0.2	0.0	0.0	0.8
Materials and components for manufacturing	00/82	45.759	188.4	189.2	190.3	5.0	0.6	0.2	0.2	0.6
Materials for manufacturing		28.268	116.2	116.7	117.6	6.6	0.8	0.2	0.3	0.8
Materials for food manufacturing	00/82	4.060	197.5	193.0	193.6	-1.8	0.3	-0.9	-0.3	0.7
Materials for nondurable manufacturing	00/82	13.579	225.5	229.1	233.2	8.0	1.8	0.5	0.7	1.7
Materials for durable manufacturing	00/82	10.629	210.4	210.3	209.6	7.9	-0.3	0.2	-0.1	-0.3
Components for manufacturing	00/82	17.491	153.5	154.3	154.6	2.4	0.2	0.1	0.1	0.2
Components for nondurable manufacturing		0.743	114.2	115.1	115.8	3.2	0.6	0.3	0.0	0.6
Components for durable manufacturing		16.748	108.6	109.1	109.3	2.3	0.2	0.1	0.1	0.3
Materials and components for construction	00/82	8.787	249.0	249.8	250.0	5.5	0.1	-0.1	0.3	0.1
Materials for construction		3.875	126.4	125.9	125.3	4.8	-0.5	-0.6	0.2	-0.5
Components for construction	1	4.912	120.3	121.5	122.1	6.1	0.5	0.3	0.3	0.5
Processed fuels and lubricants for intermediate demand	1	18.846	198.2	198.1	197.6	12.5	-0.3	-0.3	-0.2	2.7
Processed fuels and lubricants to manufacturing industries	1	4.678	206.2	208.8	202.5	8.8	-3.0	0.6	0.1	0.5
Processed fuels and lubricants to nonmanufacturing industries	1	14.168	195.8	194.8	196.2	13.7	0.7	-0.6	-0.3	3.4
Containers for intermediate demand	00/82	2.909	235.0	236.1	235.8	3.8	-0.1	0.1	0.0	-0.1
Supplies for intermediate demand	00/82	23.698	199.5	199.0	199.2	2.8	0.1	-0.1 0.2	-0.4 0.2	0.2
	00/82	2.870	198.7 198.1	199.8 197.3	200.9	5.1 2.4	0.6 0.1	-0.1	-0.4	0.6 0.2
Supplies to nonmanufacturing industries	00/82 00/82	20.828 1.663		197.3	197.4	1.3	-0.9	-1.0	-0.4 -5.5	-0.2
Supplies to nonmanufacturing industries, reeds	00/82	19.165	189.7 200.6	200.9	175.8 201.1	2.5	0.1	0.0	0.0	-0.2 0.1
	00/62	19.105	200.0	200.9	201.1	2.5	0.1	0.0	0.0	0.1
Unprocessed goods										
Unprocessed goods for intermediate demand	00/82	100.000	204.2	194.9	200.7	7.8	3.0	-5.8	1.7	3.6
Unprocessed foodstuffs and feedstuffs	00/82	36.697	171.9	150.5	156.3	-1.5	3.9	-5.2	0.6	5.8
Unprocessed nonfood materials	00/82	63.303	218.0	218.2	223.6	13.5	2.5	-6.1	2.2	2.6
Unprocessed nonfood materials except fuel	00/82	42.776	275.0	272.5	283.0	21.3	3.9	-7.9	2.8	4.0
Unprocessed nonfood materials except fuel to manufacturing industries	00/82	41.044	255.2	252.8	263.0	22.3	4.0	-8.2	2.9	4.1
Unprocessed nonfood materials except fuel to nonmanufacturing	00/00									
industries	00/82	1.732	259.9	260.3	260.4	3.3	0.0	-0.2	0.5	0.3
Unprocessed fuel.	00/82	20.527	128.3	131.6	130.4	-3.0	-0.9	-1.4	0.8	-0.9
Unprocessed fuel to manufacturing industries.	00/82	0.700 19.827	169.4 129.5	172.2	170.9	-1.5 -3.0	-0.8 -0.9	-1.0 -1.4	0.3 0.8	-0.7 -0.9
Unprocessed fuel to nonmanufacturing industries	00/82	19.027	129.5	132.9	131.7	-3.0	-0.9	-1.4	0.6	-0.9
Services										
Services for intermediate demand.		100.000	118.6	119.1	119.7	3.2	0.5	0.1	0.5	0.4
Trade services for intermediate demand ⁴	10/10	15.935	120.6	119.8	121.6	4.3	1.5	-1.1	0.7	1.5
Trade services for manufacturing industries.		6.897	108.6	107.6	109.5	4.8	1.8	-0.9	0.6	1.9
Trade services for nonmanufacturing industries	12/12	9.038	108.8	108.3	109.7	3.8	1.3	-1.2	0.6	1.3
Transportation of passengers for intermediate demand		12.878 1.138	125.7 117.2	126.0 113.8	126.6 117.4	4.3 3.6	0.5 3.2	-0.1 -1.9	1.0 5.4	0.3 1.1
Transportation of passengers for manufacturing industries		0.189	117.2	113.6	117.4	3.5	3.2	-2.0	5.6	1.0
Transportation of passengers for manufacturing industries		0.169	117.1	113.8	117.4	3.5	3.2	-1.8	5.3	1.1
Transportation and warehousing of goods for intermediate demand		11.740	126.5	127.2	127.4	4.3	0.2	0.1	0.6	0.2
Transportation and warehousing of goods for manufacturing industries	12/12	0.719	105.6	106.8	107.1	6.0	0.3	-0.1	0.7	0.3
Transportation and warehousing of goods for nonmanufacturing	,	0	100.0	.00.0		0.0	0.0	"	0.,	0.0
industries	12/12	11.021	112.9	113.4	113.5	3.8	0.1	0.1	0.5	0.3
Services less trade, transportation, and warehousing for intermediate demand		71.187	116.7	117.7	117.9	2.8	0.2	0.5	0.3	0.2
Services less trade, transportation, and warehousing for manufacturing industries.		2.399	107.4	107.9	108.3	1.7	0.4	0.2	0.0	0.4
Services less trade, transportation, and warehousing for nonmanufacturing industries.		68.788	117.1	118.0	118.2	2.8	0.2	0.5	0.3	0.2
Construction										
Construction for intermediate demand		100.000	116.0	116.3	116.8	1.9	0.4	-0.1	0.2	0.4
Special groupings										
Processed materials less foods and feeds	00/82	91.422	204.4	205.3	205.8	6.5	0.2	0.0	0.1	0.9
Processed foods and feeds	00/82	8.578	194.5	189.1	189.0	-1.0	-0.1	-0.8	-1.4	0.4
Processed energy goods		18.846	199.1	199.0	198.5	12.5	-0.3	-0.3	-0.2	2.6
Processed materials less energy		81.154	202.0	202.4	203.2	4.4	0.4	0.0	0.0	0.4
Processed materials less foods and energy	1	72.576	202.5	203.7	204.5	5.0	0.4	0.2	0.2	0.4
Intermediate distributive services ⁵		27.675	120.4	120.1	121.3	4.2	1.0	-0.7	0.6	1.1
Processed goods plus intermediate distributive services	1	-	113.4	113.5	114.0	5.5	0.4	-0.2	0.1	0.9
Unprocessed materials less agricultural products	00/82	60.683	219.8	220.9	226.7	13.6	2.6	-6.4	2.4	2.6

Table 2. Producer price indexes and percent changes for intermediate demand by commodity $type^1$ — Continued

[Nov. 2009=100, unless otherwise indicated]

Grouping	Other index	Relative Impor- tance	Un	adjusted ind	dex	change	ed percent to Oct. from:		onally adj nt change	
	base	Dec. 2017 ²	June 2018 ³	Sept. 2018 ³	Oct. 2018 ³	Oct. 2017	Sept. 2018	July to Aug.	Aug. to Sept.	Sept. to Oct.
Unprocessed energy materials ⁶	00/82	41.494	166.9	173.4	179.5	20.6	3.5	-7.9	4.7	3.6
Unprocessed materials less energy	00/82	58.506	217.2	194.5	199.1	-0.7	2.4	-3.9	-0.8	3.6
Unprocessed nonfood materials less energy ⁷	00/82	21.809	350.8	326.4	326.2	0.8	-0.1	-1.9	-2.8	0.0

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

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

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

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

⁵ Includes intermediate trade, transportation, and warehousing services.

⁶ Includes crude petroleum.

⁷ Excludes crude petroleum.

[&]quot;-" Data not available.

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

Grouping	Other index	Relative Impor- tance	Un	nadjusted ind	dex	change to	ed percent Oct. 2018 om:		onally adj nt change	
	base	Dec. 2017 ²	June 2018 ³	Sept. 2018 ³	Oct. 2018 ³	Oct. 2017	Sept. 2018	July to Aug.	Aug. to Sept.	Sept to Oc
Stage 4										
Stage 4 intermediate demand		100.000	117.5	117.7	117.9	3.6	0.2	0.0	0.3	0.5
Inputs to stage 4 goods producers		30.540	113.9	113.6	113.9	3.1	0.3	0.0	0.1	0.5
Goods		22.950	112.8	112.7	112.6	3.2	-0.1	0.0	-0.1	0.3
Foods		2.673	114.6	109.8	109.1	-0.9	-0.6	-1.2	-1.5	0.2
Energy		1.123	120.1	120.7	116.1	5.4	-3.8	1.1	-0.4	0.5
Goods excluding foods and energy		19.154	111.9	112.4	112.7	3.6	0.3	0.2	0.1	0.4
Services		7.590	117.8	116.9	118.1	2.8	1.0	-0.1	0.9	1.0
Trade services.		6.022	120.7	119.4	120.9	3.0	1.3	-0.2	1.0	1.2
Transportation and warehousing services.		0.226	120.4	119.8	121.4	6.1	1.3	-0.8	2.2	0.6
Transportation and warehousing of goods		0.081 0.145	117.1 121.9	113.6 123.0	117.2 123.4	3.5 7.1	3.2 0.3	-2.0 -0.1	5.6 0.2	1.0 0.3
Transportation and warehousing of goods		1.342	108.0	108.3	108.7	1.5	0.3	0.1	0.2	0.4
Inputs to stage 4 services producers.		50.303	118.6	119.2	119.1	2.6	-0.1	0.1	0.2	0.3
Goods		13.366	116.5	116.1	115.8	2.4	-0.1	-0.3	0.0	0.4
Foods		2.857	118.6	116.4	116.7	-1.4	0.3	-1.9	0.0	0.0
Energy		2.318	116.3	115.4	113.0	4.2	-2.1	-0.1	-1.0	1.0
Goods excluding foods and energy		8.191	118.2	118.6	118.7	3.1	0.1	0.1	0.2	0.
Services		36.787	119.2	120.2	120.2	2.7	0.0	0.5	0.5	0.
Trade services		4.104	115.3	115.5	116.7	2.5	1.0	0.4	0.9	1.
Transportation and warehousing services		2.280	121.7	121.5	122.3	4.1	0.7	-0.3	1.1	0.
Transportation of passengers		0.346	116.9	113.5	117.1	3.6	3.2	-1.9	5.5	1.
Transportation and warehousing of goods		1.934	122.7	123.2	123.4	4.1	0.2	-0.1	0.3	0.
Services less trade, transportation, and warehousing		30.403	119.2	120.4	120.1	2.6	-0.2	0.6	0.3	0.
Construction		0.150	116.0	116.3	116.8	1.9	0.4	-0.1	0.2	0.
Inputs to stage 4 construction producers		19.158	120.1	120.3	121.2	7.1	0.7	-0.5	0.2	1.
Goods		13.135	121.2	121.8	122.5	7.9	0.6	-0.3	0.3	1.
Energy		1.683	111.5	111.8	115.0	27.6	2.9	-1.9	0.0	5.
Goods excluding foods and energy		11.452	122.8	123.4	123.7	5.3	0.2	0.0	0.3	0.
Services		6.023	117.4	116.8	118.1	5.2	1.1	-1.2	0.1	1.
Trade services		3.197	119.0	117.4	119.4	6.6	1.7	-2.3	0.1	1.
Transportation and warehousing services		0.814	121.4	122.3	122.8	7.0	0.4	-0.2	0.6	0.
Transportation of passengers		0.039	117.4	114.5	118.0	3.5	3.1	-1.7	4.8	1.1
Transportation and warehousing of goods		0.775 2.012	121.5 115.1	122.6 115.7	123.0 115.9	7.0 2.0	0.3 0.2	-0.1 0.3	0.3 -0.2	0.:
Services less trade, transportation, and warehousing		2.012	113.1	113.7	115.9	2.0	0.2	0.3	-0.2	0
Stage 3				4.4= 0						
tage 3 intermediate demand		100.000	118.5	117.2	118.5	5.3	1.1	-0.8	0.3	1.
Inputs to stage 3 goods producers.		48.271	121.0	117.8	120.0	4.9	1.9	-1.8	0.6	2.
GoodsFoods		38.740 11.717	119.8	116.0	118.2	4.7	1.9	-2.2 -8.6	0.5 1.6	2. 7.
		1.916	131.2 109.0	113.5 111.4	119.6 111.0	-1.8 16.8	5.4 -0.4	1.0	-0.7	2.
EnergyGoods excluding foods and energy	1	25.107	118.0	119.3	120.3	6.8	0.8	0.4	0.3	0.
Services	1	9.466	117.7	117.6	119.3	5.4	1.4	-0.5	0.8	1.
Trade services.		7.715	117.2	116.9	118.9	5.8	1.7	-0.8	0.8	1.
Transportation and warehousing services		0.606	121.8	123.6	123.8	6.3	0.2	0.0	1.6	0.
Transportation of passengers		0.030	118.4	115.5	119.0	3.4	3.0	-1.6	4.5	1.
Transportation and warehousing of goods		0.576	121.9	123.9	124.0	6.5	0.1	0.1	1.4	0.
Services less trade, transportation, and warehousing		1.145	111.1	112.2	112.0	1.9	-0.2	0.6	0.2	-0.2
Construction		0.065	116.0	116.3	116.8	1.9	0.4	-0.1	0.2	0.
Inputs to stage 3 services producers		49.659	116.7	117.0	117.4	5.2	0.3	0.3	0.1	0.
Goods		10.662	110.6	109.7	111.3	16.2	1.5	0.7	-1.2	3.
Foods		0.003	128.6	129.0	128.3	-2.1	-0.5	-1.4	-0.1	-1.
Energy	1	7.315	109.7	108.4	110.8	22.8	2.2	0.9	-1.7	5.
Goods excluding foods and energy		3.344	109.4	109.5	109.1	1.9	-0.4	0.1	0.0	-0.
Services		37.939	117.9	118.7	118.7	2.2	0.0	0.2	0.4	0.
Trade services		3.378	131.5	131.8	133.2	-0.6	1.1	-2.0	0.9	1.
Transportation and warehousing services	1	8.201	130.7	131.1	131.2	3.2	0.1	0.2	0.6	0.
Transportation of passengers		0.032	117.7	114.6	118.2	3.5	3.1	-1.7	4.9	1.
Transportation and warehousing of goods		8.169	130.9	131.4	131.5	3.3	0.1	0.2	0.5	0.
Services less trade, transportation, and warehousing		26.360	114.9	115.8	115.6	2.3	-0.2	0.5	0.3	0.
Construction.		1.058	116.0	116.3	116.8	1.9	0.4	-0.1	0.2	0.
Inputs to stage 3 construction producers		2.068	120.1	120.3	122.3	15.2	1.7	-2.3	0.8	3.
Goods		1.639	114.5	115.0	117.0	17.7	1.7	-2.3	0.8	3.
Energy		1.010	105.7	106.5	109.4	27.1	2.7	-3.6	1.3	5.
Goods excluding foods and energy	1	0.629	126.8	126.6	126.8	4.9	0.2	-0.2	0.1	0.
Services		0.429 0.388	124.9 126.9	123.4 125.3	124.8 126.8	5.1 5.6	1.1 1.2	-1.8 -1.8	0.3 0.3	1.: 1.:
Transportation and warehousing services.	[0.388	117.1	113.6	126.8	3.5	3.2	-2.0	0.3 5.6	1.4

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

[Nov. 2009=100, unless otherwise indicated]

Grouping	Other index	Relative Impor- tance	Un	adjusted ind	dex	Unadjuste change to from	Oct. 2018		onally adj	
Clouping	base	Dec. 2017 ²	June 2018 ³	Sept. 2018 ³	Oct. 2018 ³	Oct. 2017	Sept. 2018	July to Aug.	Aug. to Sept.	Sept. to Oct.
Transportation of passengers		0.001	117.1	113.6	117.2	3.5	3.2	-2.0	5.6	1.0
Services less trade, transportation, and warehousing		0.040	106.3	106.2	106.6	0.2	0.4	0.1	-0.6	0.4
Stage 2										
Stage 2 intermediate demand		100.000	108.8	109.3	110.3	6.1	0.9	-1.2	0.9	0.8
Inputs to stage 2 goods producers		45.291	102.0	102.9	104.3	10.0	1.4	-2.7	1.9	1.4
Goods		38.838	98.2	99.1	100.6	11.2	1.5	-3.2	2.2	1.5
Foods		3.674	115.7	105.8	106.3	-1.6	0.5	3.5	-2.9	1.2
Energy		16.208	76.1	79.3	82.0	22.4	3.4	-8.0	5.6	3.4
Goods excluding foods and energy		18.956	118.5	118.6	118.6	5.9	0.0	0.0	0.3	-0.2
Services.		6.001	118.8	119.4	120.1	3.5	0.6	-0.1	0.6	0.4
Trade services Transportation and warehousing services		0.414 3.408	121.6 138.3	119.5 139.6	122.0 140.3	2.5 4.4	2.1 0.5	-1.2 -0.1	-0.1 0.8	2.0 0.4
Transportation of passengers		0.251	117.6	114.4	117.9	3.5	3.1	-1.8	5.2	1.2
Transportation and warehousing of goods		3.157	138.8	140.4	140.9	4.5	0.4	0.1	0.5	0.3
Services less trade, transportation, and warehousing		2.179	106.0	106.4	106.7	2.4	0.3	0.1	0.3	0.4
Construction		0.452	116.0	116.3	116.8	1.9	0.4	-0.1	0.2	0.4
Inputs to stage 2 services producers		54.709	115.7	115.8	116.3	2.8	0.4	0.1	0.2	0.3
Goods		4.652	111.9	111.9	112.1	4.0	0.2	-0.2	0.0	0.4
Foods		0.059	91.9	85.8	86.0	6.2	0.2	8.1	-3.1	1.0
Energy	1	0.407	121.4	121.6	123.3	17.9	1.4	-1.9	0.2	3.9
Goods excluding foods and energy		4.186	111.1	111.2	111.3	2.7	0.1	-0.1	0.0	0.0
Services		48.621	116.0	116.2	116.7	2.7	0.4	0.1	0.2	0.3
Trade services		1.050	124.8	123.4	124.3	7.2	0.7	-1.8	1.0	1.0
Transportation and warehousing services.		6.159	121.1	120.8	121.5	3.7	0.6	-0.2	1.2	0.4
Transportation and warehousing of goods		0.916 5.243	117.2 122.2	113.8 122.6	117.4 122.7	3.5 3.6	3.2 0.1	-1.9 0.1	5.4 0.6	1.1 0.2
Transportation and warehousing of goods		41.412	115.8	116.0	116.5	2.5	0.1	0.1	0.0	0.2
Construction		1.436	116.0	116.3	116.8	1.9	0.4	-0.1	0.2	0.4
							0	"	0.2	0
Stage 1 Stage 1 intermediate demand		100.000	118.0	117.5	118.3	6.0	0.7	-0.5	0.0	1.1
Inputs to stage 1 goods producers.		46.645	115.3	113.8	115.2	7.3	1.2	-1.0	-0.6	1.5
Goods		36.623	113.8	112.1	113.2	7.5	1.0	-0.9	-0.7	1.3
Foods		2.574	114.6	105.5	106.4	3.3	0.9	3.1	-4.6	1.6
Energy		6.488	110.7	112.3	113.6	17.1	1.2	-3.0	1.3	3.1
Goods excluding foods and energy		27.561	116.2	114.4	115.5	5.8	1.0	-0.7	-1.0	1.0
Services		10.016	119.3	118.3	120.5	5.8	1.9	-1.4	0.1	1.8
Trade services		7.198	122.8	121.2	124.1	6.7	2.4	-1.9	-0.2	2.3
Transportation and warehousing services		1.217	122.3	122.7	123.7	6.7	0.8	-0.3	1.1	0.4
Transportation of passengers.		0.209	117.1	113.6	117.2	3.6	3.2	-2.0	5.6	1.0
Transportation and warehousing of goods Services less trade, transportation, and warehousing		1.008 1.601	122.9 102.2	124.1 103.1	124.5 103.0	7.2 1.0	0.3 -0.1	0.0	0.1 0.4	0.3 -0.1
Construction.		0.006	116.0	116.3	116.8	1.0	0.4	-0.1	0.4	0.4
Inputs to stage 1 services producers.		46.555	120.4	121.0	121.2	4.7	0.2	-0.2	0.6	0.7
Goods.		15.172	116.4	116.8	117.3	9.3	0.4	-1.0	0.3	2.0
Foods		0.112	115.4	108.2	108.2	-8.3	0.0	-0.5	-0.6	0.0
Energy		7.770	118.2	118.4	119.1	15.3	0.6	-1.8	0.3	3.6
Goods excluding foods and energy		7.290	116.6	117.3	117.5	3.4	0.2	0.1	0.3	0.3
Services		31.379	122.0	122.8	122.8	2.5	0.0	0.2	0.7	0.1
Trade services		4.294	118.5	118.2	119.9	0.8	1.4	-1.3	0.6	1.4
Transportation and warehousing services		2.427	126.5	124.3	126.8	3.1	2.0	-1.2	3.6	0.7
Transportation and warehousing of goods		1.486	117.0	113.6	117.1	3.5	3.1	-1.9 0.0	5.5	1.0
Transportation and warehousing of goods		0.941 24.658	131.6 122.2	132.0 123.5	132.1 123.0	2.3 2.7	0.1 -0.4	0.0	0.5 0.5	0.2 -0.2
Construction.		0.004	116.0	116.3	116.8	1.9	0.4	-0.1	0.2	0.4
Inputs to stage 1 construction producers		6.799	120.4	120.5	121.5	7.0	0.8	-0.4	0.2	1.1
Goods	1	4.517	119.7	120.5	121.3	7.8	0.7	0.2	0.2	1.0
Energy		0.484	110.3	110.8	114.1	28.6	3.0	-0.2	-1.1	5.6
Goods excluding foods and energy		4.033	122.2	123.0	123.5	5.6	0.4	0.2	0.3	0.4
Services		2.282	121.4	120.1	121.6	5.2	1.2	-1.6	0.2	1.2
Trade services		1.649	123.4	121.3	123.3	6.4	1.6	-2.2	0.2	1.7
Transportation and warehousing services		0.086	109.8	110.0	110.9	6.5	0.8	-0.4	1.2	0.4
Transportation of passengers	1	0.022	117.1	113.6	117.2	3.5	3.2	-2.0	5.6	1.0
Transportation and warehousing of goods		0.064	108.6	109.9	110.0	7.5	0.1	0.3	-0.3	0.1
Services less trade, transportation, and warehousing		0.547	115.4	115.9	116.0	1.2	0.1	0.3	-0.3	0.1
Special groupings										
Total goods inputs to stage 4 intermediate demand	04/10	49.451	113.2	113.2	113.3	4.3	0.1	-0.1	0.0	0.5
-										

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 Oct. 2018 m:		onally adj nt change	
	base	Dec. 2017 ²	June 2018 ³	Sept. 2018 ³	Oct. 2018 ³	Oct. 2017	Sept. 2018	July to Aug.	Aug. to Sept.	Sept. to Oct.
Total services inputs to stage 4 intermediate demand	04/10	50.400	118.2	118.7	119.0	2.9	0.3	0.2	0.5	0.4
Total construction inputs to stage 4 intermediate demand	04/10	0.150	115.0	115.4	115.9	1.9	0.4	-0.1	0.3	0.4
Total foods inputs to stage 4 intermediate demand	04/10	5.530	113.6	110.2	110.0	-1.2	-0.2	-1.6	-0.7	0.4
Total energy goods inputs to stage 4 intermediate demand	04/10	5.124	108.9	108.7	108.0	11.9	-0.6	-0.5	-0.6	2.9
Total goods less foods and energy inputs to stage 4 intermediate demand	04/10	38.797	114.6	115.1	115.3	4.0	0.2	0.1	0.2	0.3
Total goods inputs to stage 3 intermediate demand	04/10	51.041	111.5	108.7	110.7	7.7	1.8	-1.5	0.2	2.9
Total services inputs to stage 3 intermediate demand	04/10	47.834	116.6	117.1	117.5	2.9	0.3	0.1	0.4	0.4
Total construction inputs to stage 3 intermediate demand	04/10	1.123	115.0	115.4	115.9	1.9	0.4	-0.1	0.3	0.4
Total foods inputs to stage 3 intermediate demand	04/10	11.720	116.8	101.1	106.5	-1.8	5.3	-8.6	1.5	7.5
Total energy goods inputs to stage 3 intermediate demand	04/10	10.241	104.9	104.5	106.3	22.0	1.7	0.6	-1.3	4.6
Total goods less foods and energy inputs to stage 3 intermediate demand	04/10	29.080	111.9	113.0	113.8	6.3	0.7	0.4	0.2	0.7
Total goods inputs to stage 2 intermediate demand	04/10	43.490	94.9	95.7	97.0	10.2	1.4	-2.8	1.9	1.4
Total services inputs to stage 2 intermediate demand	04/10	54.622	117.1	117.3	117.8	2.8	0.4	0.1	0.2	0.3
Total construction inputs to stage 2 intermediate demand	04/10	1.888	115.0	115.4	115.9	1.9	0.4	-0.1	0.3	0.4
Total foods inputs to stage 2 intermediate demand	04/10	3.733	116.1	106.2	106.7	-1.5	0.5	3.5	-2.8	1.1
Total energy goods inputs to stage 2 intermediate demand	04/10	16.615	74.9	78.0	80.6	22.3	3.3	-7.7	5.4	3.3
Total goods less foods and energy inputs to stage 2 intermediate demand	04/10	23.142	110.4	110.5	110.5	5.3	0.0	0.0	0.2	-0.1
Total goods inputs to stage 1 intermediate demand	04/10	56.312	103.2	102.4	103.3	8.1	0.9	-0.8	-0.4	1.5
Total services inputs to stage 1 intermediate demand	04/10	43.677	120.4	120.6	121.2	3.3	0.5	-0.2	0.6	0.5
Total construction inputs to stage 1 intermediate demand	04/10	0.010	115.0	115.4	115.9	1.9	0.4	-0.1	0.3	0.4
Total foods inputs to stage 1 intermediate demand	04/10	2.686	108.2	99.7	100.5	2.9	0.8	3.1	-4.5	1.5
Total energy goods inputs to stage 1 intermediate demand	04/10	14.742	109.8	110.6	111.6	16.5	0.9	-2.3	0.7	3.4
Total goods less foods and energy inputs to stage 1 intermediate demand	04/10	38.884	98.9	98.0	98.8	5.3	0.8	-0.5	-0.5	0.7
						1				

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

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

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

[&]quot;-" Data not available.

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

Grouping	Commodity	Other index	Un	adjusted in	dex	change to	ed percent Oct. 2018 om:		onally adj nt change	
	code	base	June 2018 ²	Sept. 2018 ²	Oct. 2018 ²	Oct. 2017	Sept. 2018	July to Aug.	Aug. to Sept.	Sept. to Oct
Final demand	.	11/09	116.6	116.5	117.4	2.9	0.8	-0.1	0.2	0.6
Final demand goods	.	11/09	116.0	115.6	116.0	3.6	0.3	0.0	-0.1	0.6
Final demand foods		11/09	116.9	115.0	115.6	-0.7	0.5	-0.6	-0.6	1.0
Fresh fruits and melons	I		148.2	145.6	133.5	-5.6	-8.3	-11.3	-1.1	-7.2
Fresh and dry vegetables ³	I		185.9	181.8	199.1	-14.7	9.5	12.4	-6.1	9.5
Grains.		10/01	151.0	139.0	139.3	7.8	0.2	9.6	-3.8	0.9
Eggs for fresh use ³	-	12/91	122.4 174.0	131.4 146.4	145.3 151.1	-7.6 -12.6	10.6 3.2	-16.5 8.1	-13.9 -3.9	10.6 4.4
Bakery products ³			286.0	286.7	288.9	2.6	0.8	0.0	0.2	0.8
Milled rice ³	I		206.3	207.3	205.4	7.1	-0.9	-0.1	-0.5	-0.9
Pasta products.		06/85	201.5	203.9	204.6	0.8	0.3	0.4	0.5	0.4
Beef and veal	. 02-21-01		220.2	199.1	202.3	4.0	1.6	-1.9	1.2	4.0
Pork	. 02-21-04		138.8	134.7	137.2	-3.9	1.9	-2.4	1.6	4.6
Processed young chickens	. 02-22-03		161.8	154.6	154.9	-9.8	0.2	-1.4	-3.2	1.5
Processed turkeys	I		140.6	143.4	143.2	5.8	-0.1	0.6	-1.5	-1.9
Finfish and shellfish	I		324.4	347.8	346.8	6.5	-0.3	-4.7	5.2	-1.1
Dairy products			193.8	193.6	195.2	-1.9	0.8	-1.2	-0.7	1.2
Processed fruits and vegetables ³			208.1	208.2	208.4	2.5	0.1	-0.4	0.7	0.1
Confectionery end products ³			278.4	277.4	278.0	1.1	0.2	0.4	-0.7	0.2
Soπ drinks*			203.1	207.5 193.8	208.7 193.4	2.6 -0.2	0.6 -0.2	1.2 -0.3	0.4 0.1	0.6 -0.2
Shortening and cooking oils ³			194.2 249.7	243.5	244.5	-5.7	-0.2 0.4	-0.3	-0.5	0.4
Frozen specialty food ³			186.3	186.6	186.3	0.1	-0.2	0.2	-0.5 -0.1	-0.2
Final demand energy.		11/09	115.3	114.4	114.7	12.5	0.3	0.4	-0.1	2.7
Liquefied petroleum gas ³		11700	203.2	218.5	206.4	16.2	-5.5	1.0	18.0	-5.5
Residential electric power.		12/90	184.3	182.9	178.3	1.0	-2.5	0.6	-0.6	0.2
Residential natural gas	I	12/90	193.5	196.2	193.8	-2.6	-1.2	1.8	-0.5	-1.4
Gasoline	I		222.3	215.0	223.0	27.1	3.7	0.6	-3.5	7.6
Home heating oil and distillates	. 05-73-02		215.7	222.3	221.0	28.0	-0.6	-0.9	8.7	-1.1
No. 2 diesel fuel	05-73-03		261.4	264.1	271.1	27.0	2.7	-3.8	1.6	5.4
Final demand goods less foods and energy		11/09	116.0	116.2	116.6	2.5	0.3	0.0	0.2	0.0
Alcoholic beverages ³			200.2	198.8	195.0	-0.5	-1.9	0.1	-0.2	-1.9
Pet food ³			261.9	261.9	262.0	2.5	0.0	0.2	-0.2	0.0
Women's, girls', and infants' apparel ³	I	12/03	108.7	109.0	109.1	0.4	0.1	0.1	0.0	0.1
Men's and boys' apparel ³		12/03	115.5	115.4	115.6	0.7	0.2	0.0	-0.2	0.2
Textile housefurnishings ³			167.4	168.9	169.0	0.4	0.1	-0.1	0.1	0.1
Footwear	I		203.3 272.5	203.8 278.8	203.8 287.7	0.4 11.3	0.0 3.2	0.0 0.8	0.3 0.2	0.2 3.2
Pharmaceutical preparations.		06/01	257.9	259.0	259.0	3.5	0.0	-0.2	0.2	0.3
Soaps and detergents ³		00/01	181.6	181.5	181.2	1.9	-0.2	-0.1	0.1	-0.2
Cleaning and polishing products ³		06/83	193.3	197.6	195.5	8.1	-1.1	1.0	1.1	-1.1
Cosmetics and other toiletries ³			165.2	165.2	165.8	1.8	0.4	0.1	-0.1	0.4
Tires ³			146.0	146.8	148.7	1.2	1.3	0.5	0.1	1.3
Consumer, institutional, and commercial products, n.e.c.3		12/06	136.8	138.6	138.9	3.3	0.2	0.1	0.6	0.2
Sanitary paper products ³	. 09-15-01		178.7	181.0	180.1	-1.5	-0.5	0.1	0.6	-0.5
Iron and steel scrap ³			548.4	477.1	475.1	9.9	-0.4	-5.6	-6.8	-0.4
Agricultural machinery and equipment ³			228.4	231.3	232.4	2.4	0.5	0.3	0.1	0.5
Construction machinery and equipment			219.6	221.7	221.9	0.4	0.1	0.8	0.3	0.2
Metal cutting machine tools ³			201.1	206.7	201.2	0.8	-2.7	0.3	2.4	-2.7
Tools, dies, jigs, fixtures, and industrial molds ³			227.7 153.0	226.2 153.7	226.3 153.7	0.8 1.8	0.0 0.0	0.0 0.0	0.0 0.4	0.0
Pumps, compressors, and equipment	. 11-41		258.5	261.8	263.9	4.2	0.8	0.6	0.4	0.9
Industrial material handling equipment			218.2	223.0	223.0	4.5	0.0	0.3	1.4	0.0
Electronic computers and computer equipment ³		12/98	27.5	27.4	27.5	0.0	0.4	0.4	-0.4	0.4
Textile machinery and equipment ³			171.7	171.7	171.9	0.4	0.1	0.0	0.0	0.1
Paper industries machinery ³	. 11-64	06/82	222.2	222.4	222.4	1.1	0.0	0.2	0.0	0.0
Printing trades machinery and equipment ³			164.1	164.0	165.1	1.5	0.7	-0.1	-0.4	0.7
Transformers and power regulators ³	I		225.4	230.6	229.7	6.0	-0.4	0.7	2.0	-0.4
Communication and related equipment		12/85	112.2	112.4	112.4	2.2	0.0	0.3	0.3	0.1
Electronic components and accessories	I		66.0	65.6	64.0	-2.9	-2.4	0.0	-0.3	-2.4
X-ray and electromedical equipment ³			86.0	86.3	86.3	0.1	0.0	0.0	0.0	0.0
Oil field and gas field machinery ³			216.1	217.1	217.1	1.1	0.0	0.5	0.0	0.0
Mining machinery and equipment Office and store machines and equipment ³			273.6 120.7	273.6 120.9	273.6	2.3 -1.0	0.0 0.2	0.0 0.2	0.1 0.0	0.0
Chice and side machines and equipment	. 11-93		I		121.1	1		l		0.2 1.1
	12-1		1 2146	2150	21/4	1 3 8				
Household furniture ³			214.6 226.3	215.0 227.7	217.4 227.8	3.8 4.6	1.1 0.0	0.1 0.1	0.0 0.8	0.0

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

Grouping	Commodity	Other index	Un	adjusted ind	dex	change to	ed percent Oct. 2018 om:		onally adj nt change	
Clouping	code	base	June 2018 ²	Sept. 2018 ²	Oct. 2018 ²	Oct. 2017	Sept. 2018	July to Aug.	Aug. to Sept.	Sep to O
Household appliances ³	12-4		119.3	120.7	119.9	3.3	-0.7	-0.1	1.3	-0.
Home electronic equipment ³	12-5		51.3	51.5	51.2	-0.6	-0.6	0.0	0.0	-0.
Lawn and garden equipment excl. garden tractors ³	12-66		146.4	146.7	147.3	1.9	0.4	0.0	-0.1	0.
Passenger cars	14-11-01		133.8	133.6	135.2	0.5	1.2	0.7	-0.1	-1.
Light motor trucks	14-11-05		177.1	176.6	181.2	1.6	2.6	-0.1	0.8	-0.
Heavy motor trucks ³	14-11-06		229.1	229.4	229.5	1.5	0.0	0.1	-0.2	0.
Motor vehicles parts ³	14-12		126.9	127.0	127.2	1.3	0.2	-0.1	0.0	0.
Truck trailers ³	14-14		210.3	215.7	218.6	7.6	1.3	0.0	0.4	1.3
Travel trailers and campers		06/84	211.6	211.9	212.4	3.5	0.2	-0.2	0.0	0.
Aircraft			300.9	302.4	302.7	1.7	0.1	0.2	0.1	0.
Ships ³		12/85	224.2	224.2	224.2	0.0	0.0	0.0	0.0	0.
Railroad equipment ³			202.1	204.1	204.6	0.9	0.2	0.0	0.8	0.
Toys, games, and children's vehicles ³			157.6	157.7	157.7	1.9	0.0	0.0	-0.1	0.
Sporting and athletic goods ³			138.1	137.8	137.9	0.8	0.1	-0.2	0.0	0.
Cigarettes ³			1,043.7	1,043.2	1,075.8	6.7	3.1	0.1	0.0	3.
Mobile homes ³			297.9	302.5	302.5	4.9	0.0	0.1	-0.3	0.
Medical, surgical & personal aid devices			180.5	180.5	180.9	1.2	0.2	0.0	0.2	0.
Jewelry, platinum and karat gold ³			227.6	223.6	225.8	-4.0	1.0	-0.4	-0.5	1.
Costume jewelry and novelties ³			187.6	189.2	189.1	3.2	-0.1	0.0	0.9	-0
nal demand services		11/09	116.6	116.6	117.6	2.4	0.9	-0.1	0.3	0
Final demand trade services ⁴		11/09	117.2	116.3	118.7	1.5	2.1	-0.9	0.1	1
Machinery and equipment wholesaling ³		03/09	126.2	123.7	125.9	3.9	1.8	-1.7	-0.2	1
Parts and supplies for machinery and equipment wholesaling ³	57-11-02	03/09	120.3	117.8	118.1	-0.5	0.3	0.5	1.3	C
Furnishings wholesaling ³		03/09	94.6	99.8	98.4	1.2	-1.4	1.5	5.6	-1
Chemicals and allied products wholesaling ³		03/09	106.7	106.9	107.2	1.5	0.3	1.6	0.2	C
Paper and plastics products wholesaling ³	57-6	03/09	129.7	127.8	135.4	6.3	5.9	1.3	-1.9	5
Apparel wholesaling ³	57-7	03/09	122.1	116.7	118.8	0.9	1.8	-2.5	3.2	1
Food and alcohol wholesaling ³	57-8	06/09	107.6	113.0	113.9	8.3	8.0	1.2	3.2	(
Food and alcohol retailing	58-1	03/09	132.4	131.9	134.8	4.3	2.2	1.1	-0.3	2
Health, beauty, and optical goods retailing ³	58-2	03/09	119.7	116.1	119.9	0.6	3.3	-2.7	-0.1	3
Apparel, jewelry, footwear, and accessories retailing	58-3	06/09	110.9	111.0	120.0	-1.1	8.1	-1.4	-2.5	1
Computer hardware, software, and supplies retailing ³	58-4	03/09	93.9	93.3	95.2	4.3	2.0	-2.9	2.2	2
TV, video, and photographic equipment and supplies retailing ³	58-5	03/09	64.4	67.0	64.4	-8.9	-3.9	6.6	-1.2	-3
Automobiles and automobile parts retailing ³	58-6	06/09	96.0	93.6	94.3	2.4	0.7	-2.5	-1.1	0
Manufactured (mobile) homes retailing ³		03/09	107.7	107.7	107.7	0.6	0.0	0.0	0.0	C
RVs, trailers, and campers retailing ³	58-8	03/09	103.5	106.0	106.0	1.2	0.0	-0.5	-0.1	0
Sporting goods, including boats, retailing ³	58-9	03/09	111.6	111.5	113.7	3.4	2.0	2.6	-2.5	2
Lawn, garden, and farm equipment and supplies retailing ³	58-A	03/09	105.1	113.5	112.6	6.4	-0.8	2.4	7.3	-0
Furniture retailing ³	58-B	03/09	102.4	103.2	100.8	-5.3	-2.3	1.2	-1.2	-2
Flooring and floor coverings retailing ³	58-C	03/09	98.9	99.5	100.4	-6.0	0.9	0.4	0.3	0
Hardware, building materials, and supplies retailing	58-D	03/09	128.7	126.0	126.7	9.1	0.6	-3.2	0.6	1
Major household appliances retailing	58-E	03/09	94.2	89.0	89.2	4.9	0.2	5.7	3.0	-3
Fuels and lubricants retailing ³	58-F	06/09	174.8	156.0	160.1	-9.8	2.6	4.5	-4.9	2
Cleaning supplies and paper products retailing ³		03/09	139.3	139.7	141.3	3.6	1.1	0.8	-2.2	1
Book retailing ³	58-H	03/09	107.3	113.8	115.3	4.0	1.3	2.6	3.5	1
Final demand transportation and warehousing services		11/09	122.6	122.4	123.7	5.8	1.1	-0.6	1.8	(
Rail transportation of freight and mail ³		12/08	124.6	126.7	126.8	6.5	0.1	0.2	1.4	(
Truck transportation of freight ³		06/09	122.9	124.0	124.4	7.1	0.3	-0.2	0.4	(
Air transportation of freight ³	30-14	12/08	111.5	111.8	111.6	0.4	-0.2	-0.9	0.4	-(
Courier, messenger, and U.S. postal services	30-16	06/09	140.0	140.3	140.5	4.3	0.1	0.2	0.7	(
Rail transportation of passengers ³	30-21	12/08	121.4	121.4	124.4	2.6	2.5	0.0	0.0	2
Airline passenger services		12/08	115.1	111.7	115.2	3.6	3.1	-2.0	5.5	1
Final demand services less trade, transportation, and warehousing		11/09	115.7	116.2	116.6	2.6	0.3	0.3	0.3	(
Sales of books ³			391.8	383.3	385.6	2.9	0.6	-1.0	0.0	C
Sales and subscriptions of periodicals and newspapers ³	33-12	06/09	118.1	118.8	117.2	2.6	-1.3	0.3	0.7	-1
Application software publishing ³	34-2	06/09	98.6	97.9	99.1	0.3	1.2	-3.7	1.2	1
Advertising space sales in periodicals, newspapers, directories, and										
mailing lists		06/09	103.4	103.3	103.6	-1.3	0.3	-0.3	0.3	(
Residential wired telecommunication services	37-11	06/09	138.4	139.9	140.0	3.1	0.1	0.3	0.4	(
Cellular phone and other wireless telecommunication services ³	37-21	03/09	63.5	63.4	64.2	-1.8	1.3	0.3	-0.3	1
Cable and satellite subscriber services		12/08	131.3	131.4	131.4	7.0	0.0	0.3	1.6	(
Internet access services ³		03/09	93.7	93.8	93.5	-1.7	-0.3	0.0	-0.3	-(
Bundled wired telecommunications access services ³		12/11	106.0	108.0	107.4	3.7	-0.6	3.4	-0.4	-(
Consumer loans (partial)		06/09	118.4	120.7	118.9	5.0	-1.5	4.2	-0.5	-0
Deposit services (partial) ³		04/09	63.8	65.4	65.0	5.9	-0.6	-2.6	4.1	-0
Other credit intermediation, incl. trust services (partial) ³		04/09	101.3	104.6	104.7	0.7	0.1	2.9	0.3	0
Securities brokerage, dealing, investment advice, and related										,
services ³	40-11	06/09	155.2	156.8	159.4	11.5	1.7	0.1	-0.8	1

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

Grouping	Commodity	Other index	Una	adjusted ind	dex	change to	ed percent Oct. 2018 om:		onally adj nt change	
3	code	base	June 2018 ²	Sept. 2018 ²	Oct. 2018 ²	Oct. 2017	Sept. 2018	July to Aug.	Aug. to Sept.	Sept. to Oct
Portfolio management ³	40-2	12/08	211.3	214.3	216.8	6.0	1.2	1.0	0.9	1.2
Life insurance ³	41-11-01	03/09	104.1	104.2	104.2	-0.1	0.0	-0.1	0.2	0.0
Disability insurance, including accidental death ³	41-11-02	03/09	104.0	104.0	104.0	0.6	0.0	0.0	0.0	0.0
Health and medical insurance	41-11-03	03/09	131.3	131.5	131.5	4.9	0.0	0.4	0.3	0.3
Property and casualty insurance ³	41-11-04	03/09	121.2	121.8	122.0	1.9	0.2	0.2	0.3	0.2
Annuities ³	41-2	03/09	117.6	120.2	120.1	2.8	-0.1	-0.1	1.9	-0.1
Residential property sales and leases, brokerage fees and commissions.	43-21	12/08	141.0	142.8	143.2	8.4	0.3	0.6	0.7	0.2
Passenger car rental.	44-1	03/09	85.3	92.2	87.3	0.2	-5.3	3.7	5.6	-5.4
Legal services.	45-1	03/09	130.6	130.0	130.0	2.0	0.0	-0.2	0.2	0.2
Tax preparation and planning.	45-21-02	04/09	112.3	112.3	112.9	0.7	0.5	-5.5	2.0	1.2
Architectural and engineering services ³	45-3	06/09	115.0	115.6	115.6	1.6	0.0	0.3	-0.2	0.0
Management, scientific, and technical consulting services ³	45-4	06/09	105.3	105.2	106.2	2.2	1.0	0.0	-0.3	1.0
Arrangement of flights (partial) ³	47-1	06/09	102.4	102.8	102.7	1.3	-0.1	-1.8	-0.4	-0.1
Arrangement of vehicle rentals and lodging ³	47-2	12/08	87.2	90.4	87.5	3.7	-3.2	0.2	-0.1	-3.2
Arrangement of cruises and tours ³	47-3	12/08	116.3	118.6	117.2	6.7	-1.2	-0.2	2.6	-1.2
Physician care.	51-11-01	03/09	108.7	109.2	109.1	1.4	-0.1	0.6	0.2	-0.1
Medical laboratory and diagnostic imaging care ³	51-11-02	03/09	96.5	96.6	96.3	-1.2	-0.3	-0.3	0.5	-0.3
Home health and hospice care ³	51-11-03	12/08	109.3	109.5	109.7	2.2	0.2	0.0	0.2	0.2
Hospital outpatient care	51-11-04	12/08	127.9	128.0	128.0	2.2	0.0	-0.5	0.2	-0.3
· · · ·	51-11-05	06/10	115.3	115.8	115.6	1.2	-0.2	0.2	0.3	-0.2
	51-21-01	12/08	124.9	125.8	126.8	2.2	0.8	0.2	0.0	0.6
Nursing home care	51-21-02	12/08	122.6	123.2	124.4	3.8	1.0	1.5	0.3	0.6
Traveler accommodation services.	53-11	06/09	121.5	119.0	123.3	4.1	3.6	0.2	-2.0	1.7
Food and beverages for immediate consumption services (partial) ³	54-1	06/09	119.9	116.6	117.1	-2.7	0.4	-0.3	-2.2	0.4
Motor vehicle repair and maintenance (partial)	55-2	12/08	132.4	134.4	134.6	3.0	0.1	0.6	1.4	0.4
Membership dues and admissions and recreation facility use fees	002	-2/00	.02			0.0	0	0.0		0
(partial)	56-1	06/09	121.6	121.5	123.9	5.2	2.0	-0.8	0.1	3.0
Recreational activity instruction fees (partial) ³	56-2	12/08	117.9	117.9	117.9	3.1	0.0	-0.1	-0.2	0.0
Gaming receipts (partial) ³	56-3	12/08	109.1	109.0	108.2	1.2	-0.7	-0.3	0.7	-0.7
Mining services ³	60-1	06/85	232.5	233.1	233.4	1.2	0.1	-0.3	0.0	0.1
nal demand construction		11/09	120.7	121.3	123.6	4.7	1.9	0.1	0.1	1.9
New warehouse building construction ³	80-11-01	12/04	151.5	152.5	154.4	3.7	1.2	0.1	0.3	1.2
New school building construction ³	80-11-02	12/05	159.4	160.1	164.6	5.2	2.8	0.1	-0.1	2.8
New office building construction ³	80-11-03	06/06	136.0	136.8	138.8	5.0	1.5	0.2	0.1	1.5
New industrial building construction ³	80-11-04	06/07	127.2	128.1	131.7	6.0	2.8	0.0	0.1	2.8
New health care building construction ³	80-11-05	06/12	111.4	112.0	113.6	4.3	1.4	0.1	0.0	1.4

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

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

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

³ Not seasonally adjusted.

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

[&]quot;-" Data not available.

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

Grouping	Commodity	Other	Un	nadjusted in	dex	Unadjuste change to fro	Oct. 2018		onally adj nt change	
Grouping	code	base	June 2018 ²	Sept. 2018 ²	Oct. 2018 ²	Oct. 2017	Sept. 2018	July to Aug.	Aug. to Sept.	Sept. to Oct.
Processed goods for intermediate demand			203.4	203.8	204.3	5.9	0.2	0.0	0.0	0.8
Processed foods and feeds			194.5	189.1	189.0	-1.0	-0.1	-0.8	-1.4	0.4
Meats	02-21		184.4	173.5	175.0	-0.1	0.9	-1.7	0.7	2.6
Processed poultry	02-22		152.2	146.7	145.4	-9.7	-0.9	-0.5	-4.9	-0.3
Dairy products			193.8	193.6	195.2	-1.9	8.0	-1.2	-0.7	1.2
Processed fruits and vegetables ³	02-4		208.1	208.2	208.4	2.5	0.1	-0.4	0.7	0.1
Refined sugar and byproducts ³	02-53		173.7	171.4	171.3	1.5	-0.1	0.1	8.0	-0.1
Fats and oils ³	02-7		246.7	241.6	242.2	-5.1	0.2	-0.8	-0.5	0.2
Prepared animal feeds	02-9		197.1	187.5	186.3	1.6	-0.6	-0.4	-3.3	1.1
Processed materials less foods and feeds	00.4		204.4	205.3	205.8	6.5	0.2	0.0	0.1	0.9
Synthetic fibers ³	03-1		128.7	131.8	131.9	7.9	0.1	1.2	-0.1	0.1
Processed yarns and threads ³	03-2		144.5	145.5	146.6	8.0	0.8	0.5	0.3	0.8
Liquefied petroleum gas ³			156.3	156.7	159.3	3.7	1.7	0.1	0.1	1.7
	05-32		203.2	218.5 206.3	206.4	16.2	-5.5 -3.5	1.0 0.4	18.0	-5.5
Commercial electric power	05-42		208.3 255.2	256.6	199.0 242.6	-1.0 1.6	-3.5 -5.5	1.8	-1.2 -0.6	0.4 -0.3
Commercial natural gas.	05-43	12/90	183.7	184.8	184.4	-0.2	-0.2	1.7	-1.5	0.1
Industrial natural gas.	05-52	12/90	152.8	150.0	153.9	-1.4	2.6	-1.7	-0.3	1.5
Natural gas to electric utilities.	05-53	12/90	164.9	163.2	170.8	5.0	2.0 4.7	-1.7	1.7	3.7
Gasoline.	05-54	12/30	222.3	215.0	223.0	27.1	3.7	0.6	-3.5	7.6
Jet fuel.	05-72-03		232.8	236.1	242.5	32.0	2.7	2.5	-0.1	4.7
No. 2 diesel fuel.	05-73-03		261.4	264.1	271.1	27.0	2.7	-3.8	1.6	5.4
Residual fuels ³	05-74		190.3	181.8	195.1	25.5	7.3	-4.0	-8.1	7.3
Finished lubricants ³ .	05-76		421.3	428.8	428.9	9.1	0.0	0.8	0.1	0.0
Lubricating oil base stocks ³		06/09	122.1	126.0	120.1	6.8	-4.7	-1.0	1.4	-4.7
Asphalt		06/85	226.4	249.1	259.8	51.3	4.3	7.0	-3.2	6.9
Basic inorganic chemicals ³			278.7	278.6	280.8	7.3	0.8	0.2	-0.1	0.8
Basic organic chemicals	06-14		272.4	279.7	289.8	12.0	3.6	0.8	0.3	3.6
Prepared paint ³	06-21		286.0	287.2	289.5	4.9	0.8	0.3	0.1	0.8
Paint materials ³	06-22		257.8	259.6	259.9	6.2	0.1	-0.4	1.0	0.1
Medicinal and botanical chemicals ³	06-31		181.3	182.1	182.0	4.2	-0.1	0.0	0.0	-0.1
Biological products, including diagnostics ³	06-37		265.7	266.5	266.6	1.9	0.0	0.8	-0.2	0.0
Fats and oils, inedible	06-4		188.9	189.2	184.9	-18.1	-2.3	-0.3	4.6	-1.9
Nitrogenates	06-52-01		254.2	250.0	261.6	17.7	4.6	4.2	1.9	4.3
Phosphates ³	06-52-02		205.6	212.4	217.7	23.7	2.5	-1.2	3.1	2.5
Other agricultural chemicals ³	06-53		197.7	192.4	192.7	4.3	0.2	-0.1	-2.8	0.2
Plastic resins and materials	06-6		243.8	244.7	245.6	3.3	0.4	-0.1	1.6	-0.5
Industrial gases ³	06-79-03		251.1	251.3	250.9	-0.6	-0.2	0.1	0.0	-0.2
Adhesives and sealants ³	06-79-04	12/83	261.8	262.3	262.8	3.5	0.2	0.4	0.0	0.2
Synthetic rubber ³			222.6	225.3	226.8	12.6	0.7	1.3	0.7	0.7
Tires ³			146.0	146.8	148.7	1.2	1.3	0.5	0.1	1.3
Plastic construction products	07-21		226.4	227.0	227.9	3.0	0.4	0.5	0.2	0.1
Unsupported plastic film, sheet, other shapes ³	07-22		222.9	222.6	224.8	2.4	1.0	0.1	-0.4	1.0
Parts for manufacturing from plastics ³	07-26		152.1	152.9	152.9	2.2	0.0	0.0	0.3	0.0
Plastic packaging products ³	07-2A	12/06	117.2	117.5	119.4	7.8	1.6	0.7	0.4	1.6
Softwood lumber ³	08-11		273.6	239.7	215.1	-7.9	-10.3	-9.6	-0.4	-10.3
Hardwood lumber ³	08-12		236.9	225.8	228.6	3.4	1.2	-1.3	-2.0	1.2
Millwork	08-2		261.8	263.1	262.1	5.0	-0.4	0.2	0.0	-0.3
Plywood ³	08-3		243.1	230.1	229.2	4.8	-0.4	-3.4	-2.0	-0.4
Paper ³ Paperboard ³			196.8	201.7	202.4	8.2	0.3	0.5	0.7	0.3
Paper boxes and containers ³			276.8	278.3	278.2	4.5	0.0	0.1	-0.1	0.0
Building paper and board ³	09-15-03		266.8 248.5	267.8 227.7	267.7 227.4	2.8 -5.3	0.0 -0.1	0.0 -5.9	0.2 -2.7	0.0 -0.1
Commercial printing ³		06/82	171.8	172.4	173.0	1.6	0.3	-0.1	0.0	0.3
Foundry and forge shop products ³		00/02	210.1	211.7	212.0	2.4	0.3	0.0	0.0	0.3
Steel mill products ³			213.9	223.5	221.8	18.2	-0.8	2.6	0.0	-0.8
Primary nonferrous metals ³			203.1	185.4	185.6	-5.7	0.1	-3.2	-1.2	0.1
Secondary nonferrous metals ³		1	244.5	230.5	228.1	-3.1	-1.0	-2.9	-0.4	-1.0
Aluminum mill shapes ³		1	214.5	204.3	203.5	8.2	-0.4	-2.5	-0.4	-0.4
Copper and brass mill shapes ³	10-25-01	1	436.2	385.6	393.1	-5.7	1.9	-3.8	-1.0	1.9
Nonferrous wire and cable ³	10-25-02	1	253.8	246.1	249.8	3.0	1.5	-0.2	-2.3	1.5
Nonferrous foundry shop products	10-28	1	217.7	217.3	217.0	1.8	-0.1	-0.2	0.0	0.0
Metal containers ³		1	162.1	163.4	162.6	8.0	-0.5	0.4	0.1	-0.5
Hardware ³		1	217.2	220.3	221.1	3.1	0.4	0.0	1.2	0.4
Plumbing fixtures and brass fittings			269.6	269.7	270.5	2.1	0.3	0.1	0.2	0.4
Heating equipment ³		1	267.7	270.4	271.9	5.9	0.6	0.2	0.4	0.6
Fabricated structural metal products			234.8	238.3	239.3	8.8	0.4	0.2	0.5	0.7
i abilibated structural metal products	10-7		204.0	200.3	203.3	0.0	0.4	0.2	0.0	0.7

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

Grouping	Commodity	Other index	Un	nadjusted ind	dex		ed percent Oct. 2018 m:		onally adj nt change	
G. Gopping	code	base	June 2018 ²	Sept. 2018 ²	Oct. 2018 ²	Oct. 2017	Sept. 2018	July to Aug.	Aug. to Sept.	Sept. to Oct.
Bolts, nuts, screws, rivets, and washers ³	10-81	00/82	193.9	196.0	196.4	2.3	0.2	0.6	0.6	0.2
	10-83	00/82	173.4	176.6	180.6	5.4	2.3	0.1	0.6	2.3
	10-88	06/82	242.4	256.8	256.3	16.2	-0.2	2.2	8.0	-0.2
. '	10-89		162.4	164.2	166.0	4.9	1.1	0.4	0.1	1.1
	11-43		256.5	260.6	261.4	3.2	0.3	0.9	0.9	0.3
	11-45		269.1	272.3	273.7	3.8	0.5	0.6	0.3	0.5
3 1 1	11-48		193.3	194.9	195.2	5.3	0.2	0.6	0.4	0.2
	11-49-02	12/82	327.6	331.3	334.3	5.5	0.9	0.3	1.2	0.5
3.	11-49-05		266.6	267.2	267.7	3.6	0.2	0.6	0.0	0.2
9	11-71 11-73		233.5	232.6	233.4	2.1	0.3	0.0	-0.2	0.3
Switchgear, switchboard, and industrial controls equip. ³			215.7 224.4	219.5 227.1	219.4 226.6	3.8 2.7	0.0 -0.2	0.1 0.1	1.6 0.4	0.0 -0.2
	11-73		66.0	65.6	64.0	-2.9	-0.2	0.0	-0.3	-0.2
Internal combustion engines ³			168.0	168.4	168.4	1.5	0.0	-0.1	0.1	0.0
Machine shop products ³			189.0	189.1	192.4	4.1	1.7	0.0	-0.1	1.7
Flat glass ³			136.5	136.5	136.3	2.3	-0.1	-0.1	0.2	-0.1
Cement.			254.2	253.3	253.7	2.8	0.2	-0.2	0.7	0.6
	13-3		264.2	264.9	263.9	3.4	-0.4	0.0	0.4	-0.3
	13-6	1	236.2	244.1	246.5	10.0	1.0	-0.5	3.4	0.5
,	13-94		308.7	320.4	322.3	11.6	0.6	1.8	0.6	0.6
Motor vehicle parts ³	14-12		126.9	127.0	127.2	1.3	0.2	-0.1	0.0	0.2
Aircraft engines and engine parts	14-23	12/85	226.6	226.6	226.6	0.9	0.0	0.1	0.1	-0.1
Aircraft parts and auxiliary equipment, n.e.c	14-25	06/85	186.5	186.8	186.8	0.9	0.0	-0.1	0.2	-0.1
Medical, surgical, and personal aid devices	15-6		180.5	180.5	180.9	1.2	0.2	0.0	0.2	0.1
Unprocessed goods for intermediate demand			204.2	194.9	200.7	7.8	3.0	-5.8	1.7	3.6
Unprocessed foodstuffs and feedstuffs			171.9	150.5	156.3	-1.5	3.9	-5.2	0.6	5.8
*	01-21		163.3	147.3	150.1	14.8	1.9	6.6	-6.9	1.9
Corn			144.9	133.6	133.8	5.6	0.1	11.7	-2.9	1.3
Slaughter cattle	01-31		167.5	165.0	163.3	-1.8	-1.0	0.1	2.4	1.2
Slaughter hogs			98.2	60.1	85.2	18.3	41.8	-29.8	2.8	46.3
Slaughter chickens	01-41-02		342.6	223.0	223.7	-1.6	0.3	-17.1	-1.6	6.2
Slaughter turkeys	01-42		167.8	168.6	171.7	-11.4	1.8	-5.4	0.5	-0.3
Raw milk	01-6		124.4	116.6	127.5	-6.7	9.3	-10.2	2.9	9.4
Alfalfa hay	01-81		344.9	328.0	327.4	14.6	-0.2	10.9	-0.4	-0.4
	01-83-01		174.0	146.4	151.1	-12.6	3.2	8.1	-3.9	4.4
• • • • • • • • • • • • • • • • • • • •	02-52-01		149.9	151.7	148.7	-7.1	-2.0	-0.9	0.3	-2.0
Unprocessed nonfood materials			218.0	218.2	223.6	13.5	2.5	-6.1	2.2	2.6
	01-51		139.7	125.6	116.6	6.7	-7.2	-5.3	-0.4	-7.2
Hides and skins ³			167.5	149.1	149.8	-20.1	0.5	-8.2	-2.2	0.5
	05-1		199.4	198.9	198.1	1.5	-0.4	-0.4	-0.9	0.1
9	05-31 05-61		103.1 188.5	106.7 198.4	105.6 213.2	-2.9 49.7	-1.0 7.5	-1.8 -13.4	1.1 8.7	-1.0 7.5
'	08-5		248.0	256.3	252.3	49.7	-1.6	2.6	1.5	-2.1
	09-12		254.2	279.2	280.7	-10.3	0.5	10.9	-5.8	0.5
1.1	10-11		145.3	140.3	140.9	5.8	0.4	-0.9	-1.6	0.4
	10-12		548.4	477.1	475.1	9.9	-0.4	-5.6	-6.8	-0.4
· .	10-21	12/83	345.0	306.8	314.9	-5.1	2.6	-3.5	-4.7	2.6
	10-23-01		489.6	414.1	423.6	-6.9	2.3	-9.3	-5.3	2.3
	10-23-02		239.1	206.7	191.9	-11.3	-7.2	-8.3	-0.9	-8.0
Construction sand, gravel, and crushed stone	13-21		335.7	336.8	337.2	3.7	0.1	0.0	0.6	0.4
Services for intermediate demand		11/09	118.6	119.1	119.7	3.2	0.5	0.1	0.5	0.4
Trade services for intermediate demand ⁴		11/09	120.6	119.1	121.6	4.3	1.5	-1.1	0.5	1.5
_	57-11-02	03/09	120.0	117.8	118.1	-0.5	0.3	0.5	1.3	0.3
	57-11-02	03/09	98.3	99.0	99.3	6.1	0.3	1.1	-0.9	0.3
	57-4	03/09	172.9	160.7	173.2	25.9	7.8	-10.5	-1.7	7.8
· · · · · · · · · · · · · · · · · · ·	57-5	03/09	106.7	106.9	107.2	1.5	0.3	1.6	0.2	0.3
	57-6	03/09	129.7	127.8	135.4	6.3	5.9	1.3	-1.9	5.9
	57-81-01	03/09	105.5	111.5	112.0	9.1	0.4	1.1	3.7	0.4
	58-61-02	03/09	110.1	107.0	106.9	1.1	-0.1	-2.5	-0.2	-0.1
	58-D	03/09	128.7	126.0	126.7	9.1	0.6	-3.2	0.6	1.2
Transportation and warehousing services for intermediate demand		11/09	125.7	126.0	126.6	4.3	0.5	-0.1	1.0	0.3
	30-11	12/08	124.6	126.7	126.8	6.5	0.1	0.2	1.4	0.1
Truck transportation of freight ³	30-12	06/09	122.9	124.0	124.4	7.1	0.3	-0.2	0.4	0.3
Water transportation of freight ³	30-13	06/09	117.4	118.9	119.0	7.7	0.1	0.3	-0.3	0.1
· ·									0.4	-0.2
Air transportation of freight ³	30-14	12/08	111.5	111.8	111.6	0.4	-0.2	-0.9	0.4	0.2
Air transportation of freight ³	30-14 30-15-01 30-16-01	12/08 06/09 06/89	111.5 151.3 222.0	111.8 154.3 222.0	111.6 155.6 222.0	0.4 1.8 2.1	-0.2 0.8 0.0	-0.9 0.0 0.1	0.4 0.0 0.1	0.8 0.1

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

Grouping	Commodity	Other index	Un	nadjusted ind	dex	change to	ed percent Oct. 2018 om:		onally adj nt change	
	code	base	June 2018 ²	Sept. 2018 ²	Oct. 2018 ²	Oct. 2017	Sept. 2018	July to Aug.	Aug. to Sept.	Sept. to Oct.
Courier and messenger services, except air mail	30-16-02	04/09	153.9	154.5	154.6	5.2	0.1	0.5	0.9	0.6
Air mail and package delivery services, excluding by USPS	30-16-03	04/09	170.7	171.4	172.4	7.9	0.6	0.1	1.3	0.6
Transportation of passengers (partial)	1	06/09	124.9	121.3	125.1	3.6	3.1	-2.0	5.6	1.0
Services related to water transportation ³		06/09	120.0	119.9	120.9	2.8	8.0	0.4	-0.2	8.0
Arrangement of freight and cargo ³	31-31	12/08	107.7	107.7	107.7	2.2	0.0	0.0	0.0	0.0
Warehousing, storage, and related services ³	32-1	12/08	107.3	107.2	107.4	1.2	0.2	-0.6	0.3	0.2
Services less trade, transportation, and warehousing for intermediate		44/00	4407	4477	447.0	0.0	0.0	0.5	0.0	0.0
demand	35	11/09 06/09	116.7 137.2	117.7 138.3	117.9 137.2	2.8 4.6	0.2 -0.8	0.5	0.3 0.0	0.2 -0.8
Advertising space sales in periodicals and newspapers	1	06/09	104.7	104.7	105.0	-1.7	0.3	-0.4	0.0	0.2
Advertising space sales in periodicals and mail lists ³	1	12/08	100.6	104.7	100.7	0.2	0.3	0.0	0.0	0.2
Television advertising time sales		06/09	100.0	100.8	119.8	7.2	9.6	0.0	0.7	5.0
Radio advertising time sales.	36-3	03/09	97.7	99.9	99.5	2.9	-0.4	0.3	2.0	-0.7
Internet advertising space sales, excluding Internet ads sold by print	000	00/03	37.7	33.3	33.3	2.5	0.4	0.4	2.0	0.7
publishers ³	36-5	12/09	62.9	63.3	62.0	-11.7	-2.1	-0.2	4.1	-2.1
Business wired telecommunication services ³		06/09	101.9	101.9	101.5	0.1	-0.4	0.1	-0.1	-0.4
Cellular phone and other wireless telecommunication services ³		03/09	63.5	63.4	64.2	-1.8	1.3	0.3	-0.3	1.3
Cable and satellite subscriber services		12/08	131.3	131.4	131.4	7.0	0.0	0.3	1.6	0.2
Bundled wired telecommunication access services ³	37-5	12/11	106.0	108.0	107.4	3.7	-0.6	3.4	-0.4	-0.6
Data processing and related services ³	38-1	06/09	101.3	101.3	101.2	0.3	-0.1	-0.1	0.4	-0.1
Business loans (partial)	39-11	04/09	226.9	231.1	222.7	10.5	-3.6	2.4	1.1	-0.3
Deposit services (partial) ³	39-2	04/09	63.8	65.4	65.0	5.9	-0.6	-2.6	4.1	-0.6
Other credit intermediation, incl. trust services (partial) ³	39-3	04/09	101.3	104.6	104.7	0.7	0.1	2.9	0.3	0.1
Securities brokerage, dealing, investment advice, and related ³	40-11	06/09	155.2	156.8	159.4	11.5	1.7	0.1	-0.8	1.7
Portfolio management ³	40-2	12/08	211.3	214.3	216.8	6.0	1.2	1.0	0.9	1.2
Investment banking ³	40-3	12/08	175.4	179.7	180.5	8.7	0.4	0.8	1.4	0.4
Life insurance ³	41-11-01	03/09	104.1	104.2	104.2	-0.1	0.0	-0.1	0.2	0.0
Health and medical insurance	41-11-03	03/09	131.3	131.5	131.5	4.9	0.0	0.4	0.3	0.3
Property and casualty insurance ³	41-11-04	03/09	121.2	121.8	122.0	1.9	0.2	0.2	0.3	0.2
Annuities ³		03/09	117.6	120.2	120.1	2.8	-0.1	-0.1	1.9	-0.1
Commissions from sales of insurance ³		06/09	107.2	107.2	107.4	1.6	0.2	0.2	0.3	0.2
Nonresidential real estate rents ³		06/09	112.6	114.9	113.4	-0.2	-1.3	2.1	-0.6	-1.3
Nonresidential property sales and leases ³		12/08	123.3	125.0	124.7	5.0	-0.2	0.4	1.6	-0.2
Residential property management fees ³		12/08	116.6	117.5	117.3	1.4	-0.2	-0.2	0.9	-0.2
Passenger car rental	1	03/09	85.3	92.2	87.3	0.2	-5.3	3.7	5.6	-5.4
Truck, utility trailer, and RV rental and leasing ³	44-2	06/09	107.2	109.3	109.3	1.9	0.0	0.0	1.4	0.0
Construction, mining, and forestry machinery and equipment rental and leasing ³	44-3	03/09	98.0	98.0	98.2	-2.3	0.2	0.2	-0.6	0.2
Legal services.	1	03/09	130.6	130.0	130.0	2.0	0.2	-0.2	0.2	0.2
Accounting services (partial).	1	06/09	107.1	109.7	111.0	3.7	1.2	0.5	2.1	1.1
Architectural and engineering services ³		06/09	115.0	115.6	115.6	1.6	0.0	0.3	-0.2	0.0
Management, scientific, and technical consulting ³		06/09	105.3	105.2	106.2	2.2	1.0	0.0	-0.2	1.0
Advertising and related services (partial) ³	45-5	12/08	109.1	109.2	109.0	0.2	-0.2	0.1	0.2	-0.2
Permanent placement services ³	46-1	03/09	117.8	121.8	118.9	2.1	-2.4	0.2	0.5	-2.4
Executive search services ³	1	12/08	93.2	92.3	91.8	-7.2	-0.5	-2.1	-1.2	-0.5
Staffing services.	46-3	06/09	113.0	113.4	113.2	0.2	-0.2	-0.1	0.1	-0.2
Security guard services ³		03/09	112.4	113.2	113.3	2.4	0.1	0.1	0.4	0.1
Janitorial services ³	1	03/09	111.3	111.5	111.4	0.5	-0.1	0.0	0.0	-0.1
Waste collection		12/08	127.1	128.0	128.2	3.6	0.2	0.3	0.0	0.3
Traveler accommodation services	53-11	06/09	121.5	119.0	123.3	4.1	3.6	0.2	-2.0	1.7
Commercial and industrial machinery and equipment repair and										
maintenance ³	1	03/09	121.9	122.6	122.8	1.7	0.2	0.3	-0.2	0.2
Aircraft repair and maintenance		04/09	123.4	122.7	123.6	2.9	0.7	0.3	0.2	1.0
Metal treatment services ³	59-1	12/84	187.4	188.0	189.0	2.5	0.5	0.2	-0.3	0.5
Construction for intermediate demand		11/09	116.0	116.3	116.8	1.9	0.4	-0.1	0.2	0.4
Maintenance and repair of non-residential buildings (partial)	80-2	12/10	117.3	117.6	118.1	2.0	0.4	0.0	0.2	0.4

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

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

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

³ Not seasonally adjusted.

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

[&]quot;-" Data not available.

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

Grouping	Commodity	Other index	Unadjusted index			change	ed percent to Oct. from:	Seasonally adjusted percent change from:		
агосрия	code	base	June 2018 ²	Sept. 2018 ²	Oct. 2018 ²	Oct. 2017	Sept. 2018	July to Aug.	Aug. to Sept.	Sept. to Oct.
Stage 4 intermediate demand		11/09	117.5	117.7	117.9	3.6	0.2	0.0	0.3	0.5
Stage 4 intermediate demand goods		04/10	113.2	113.2	113.3	4.3	0.1	-0.1	0.0	0.5
Grains	01-2		151.0	139.0	139.3	7.8	0.2	9.6	-3.8	0.9
Meats	02-21		184.4	173.5	175.0	-0.1	0.9	-1.7	0.7	2.6
Unprocessed and packaged fish			324.4	347.8	346.8	6.5	-0.3	-4.7	5.2	-1.1
Dairy products.	I		193.8	193.6	195.2	-1.9	0.8	-1.2	-0.7	1.2
Commercial electric power.	1		208.3	206.3	199.0	-1.0	-3.5	0.4	-1.2	0.4
Industrial electric power	05-43 05-71		255.2 222.3	256.6 215.0	242.6 223.0	1.6 27.1	-5.5 3.7	1.8 0.6	-0.6 -3.5	-0.3 7.6
No. 2 diesel fuel.	05-71		261.4	264.1	271.1	27.1	2.7	-3.8	1.6	5.4
Basic organic chemicals.	06-14		272.4	279.7	289.8	12.0	3.6	0.8	0.3	3.6
Prepared paint ³	06-21		286.0	287.2	289.5	4.9	0.8	0.3	0.1	0.8
Medicinal and botanical chemicals ³	06-31		181.3	182.1	182.0	4.2	-0.1	0.0	0.0	-0.1
Biological products, including diagnostics ³	06-37		265.7	266.5	266.6	1.9	0.0	0.8	-0.2	0.0
Pharmaceutical preparations	06-38	06/01	257.9	259.0	259.0	3.5	0.0	-0.2	0.7	0.3
Plastic construction products	07-21	00/82	226.4	227.0	227.9	3.0	0.4	0.5	0.2	0.1
Unsupported plastic film, sheet, and other shapes ³	07-22		222.9	222.6	224.8	2.4	1.0	0.1	-0.4	1.0
Parts for manufacturing from plastics ³	07-26	10.5	152.1	152.9	152.9	2.2	0.0	0.0	0.3	0.0
Plastic packaging products ³	1	12/06	117.2	117.5	119.4	7.8	1.6	0.7	0.4	1.6
Lumber ³	08-1	00/82	254.5	229.4	214.9	-3.9	-6.3	-6.9	-0.9	-6.3
Millwork.			261.8	263.1	262.1	5.0	-0.4	0.2	0.0	-0.3
Paper boxes and containers ³		06/82	266.8 171.8	267.8 172.4	267.7 173.0	2.8 1.6	0.0 0.3	0.0 -0.1	0.2 0.0	0.0 0.3
Steel mill products ³		00/62	213.9	223.5	221.8	18.2	-0.8	2.6	0.0	-0.8
Nonferrous wire and cable ³	10-17		253.8	246.1	249.8	3.0	1.5	-0.2	-2.3	1.5
Fabricated structural metal products.	10-7		234.8	238.3	239.3	8.8	0.4	0.2	0.5	0.7
Other miscellaneous metal products ³	10-89		162.4	164.2	166.0	4.9	1.1	0.4	0.1	1.1
Air conditioning and refrigeration equipment	11-48		193.3	194.9	195.2	5.3	0.2	0.6	0.4	0.2
Wiring devices ³	11-71		233.5	232.6	233.4	2.1	0.3	0.0	-0.2	0.3
Electronic components and accessories	11-78		66.0	65.6	64.0	-2.9	-2.4	0.0	-0.3	-2.4
Miscellaneous electrical machinery and equipment ³	11-79		123.1	126.4	127.1	6.0	0.6	0.0	0.0	0.6
Internal combustion engines ³	I		168.0	168.4	168.4	1.5	0.0	-0.1	0.1	0.0
Machine shop products ³	I		189.0	189.1	192.4	4.1	1.7	0.0	-0.1	1.7
Concrete ingredients and related products	1		299.7	300.1	300.5	3.5	0.1	-0.1	0.6	0.5
Concrete products.			264.2	264.9	263.9	3.4	-0.4	0.0	0.4	-0.3
Prepared asphalt, tar roofing and siding products ³			234.3	243.4	246.0	10.3	1.1	-0.1	3.1	1.1
Paving mixtures and blocks ³			308.7 126.9	320.4 127.0	322.3 127.2	11.6 1.3	0.6 0.2	1.8 -0.1	0.6 0.0	0.6 0.2
Aircraft engines and engine parts.	I	12/85	226.6	226.6	226.6	0.9	0.2	0.1	0.0	-0.1
Aircraft parts and auxiliary equipment, n.e.c	14-25	06/85	186.5	186.8	186.8	0.9	0.0	-0.1	0.1	-0.1
Medical, surgical and personal aid devices.	15-6	00/03	180.5	180.5	180.9	1.2	0.2	0.0	0.2	0.1
Stage 4 intermediate demand services.		04/10	118.2	118.7	119.0	2.9	0.3	0.2	0.5	0.4
Truck transportation of freight ³	30-12	06/09	122.9	124.0	124.4	7.1	0.3	-0.2	0.4	0.3
Courier, messenger, and U.S. postal services	30-16	06/09	140.0	140.3	140.5	4.3	0.1	0.2	0.7	0.2
Airline passenger services	30-22	12/08	115.1	111.7	115.2	3.6	3.1	-2.0	5.5	1.1
Warehousing, storage, and related services ³	1	12/08	107.3	107.2	107.4	1.2	0.2	-0.6	0.3	0.2
Advertising space sales in periodicals and newspapers	I	06/09	104.7	104.7	105.0	-1.7	0.3	-0.4	0.9	0.2
Data processing and related services ³		06/09	101.3	101.3	101.2	0.3	-0.1	-0.1	0.4	-0.1
Business loans (partial)		04/09	226.9	231.1	222.7	10.5	-3.6	2.4	1.1	-0.3
Securities brokerage, dealing, investment advice, and related services ³	39-2 40-11	04/09	63.8	65.4	65.0	5.9	-0.6	-2.6 0.1	4.1 -0.8	-0.6
Portfolio management ³	40-11	12/08	155.2 211.3	156.8 214.3	159.4 216.8	11.5 6.0	1.7 1.2	1.0	0.9	1.7 1.2
Investment banking ³	40-2	12/08	175.4	179.7	180.5	8.7	0.4	0.8	1.4	0.4
Insurance	41-11	06/09	121.1	121.6	121.7	2.6	0.4	0.3	0.3	0.0
Annuities ³	41-2	03/09	117.6	120.2	120.1	2.8	-0.1	-0.1	1.9	-0.1
Nonresidential real estate rents ³	43-11	06/09	112.6	114.9	113.4	-0.2	-1.3	2.1	-0.6	-1.3
Nonresidential property sales and leases ³	43-12	12/08	123.3	125.0	124.7	5.0	-0.2	0.4	1.6	-0.2
Nonresidential property management fees ³	43-13	12/08	91.4	92.1	89.3	-0.6	-3.0	-0.5	1.7	-3.0
Residential property management fees ³	43-22	12/08	116.6	117.5	117.3	1.4	-0.2	-0.2	0.9	-0.2
Construction, mining, and forestry machinery and equipment rental and leasing ³	44-3	03/09	98.0	98.0	98.2	-2.3	0.2	0.2	-0.6	0.2
Legal services.	45-1	03/09	130.6	130.0	130.0	2.0	0.2	-0.2	-0.6 0.2	0.2
Advertising agency services ³	45-1	12/08	109.1	109.2	109.0	0.2	-0.2	0.1	0.2	-0.2
Accounting services (partial)	45-2	06/09	107.1	109.7	111.0	3.7	1.2	0.5	2.1	1.1
	1	1		115.6	115.6	1.6	0.0	0.3	-0.2	0.0
Architectural and engineering services ³	45-3	06/09	115.0	115.0	113.0	1.0		0.5		
Architectural and engineering services ³	45-3 45-4	06/09	105.3	105.2	106.2	2.2	1.0	0.0	-0.3	1.0

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

Grouping	Commodity	Other index base	Unadjusted index			change	ed percent e to Oct. from:	Seasonally adjusted percent change from:		
	code		June 2018 ²	Sept. 2018 ²	Oct. 2018 ²	Oct. 2017	Sept. 2018	July to Aug.	Aug. to Sept.	Sept. to Oct.
Janitorial services ³	49-1	03/09	111.3	111.5	111.4	0.5	-0.1	0.0	0.0	-0.1
Commercial and industrial machinery and equipment repair and maintenance ³	55-1	03/09	121.9	122.6	122.8	1.7	0.2	0.3	-0.2	0.2
Machinery and equipment parts and supplies wholesaling ³	57-11-02	03/09	120.3	117.8	118.1	-0.5	0.2	0.5	1.3	0.2
Building materials, paint, and hardware wholesaling	57-11-02	03/09	98.3	99.0	99.3	6.1	0.3	1.1	-0.9	0.2
Metals, minerals, and ores wholesaling ³	1	03/09	172.9	160.7	173.2	25.9	7.8	-10.5	-1.7	7.8
Chemicals and allied products wholesaling ³	57-5	03/09	106.7	106.9	107.2	1.5	0.3	1.6	0.2	0.3
Paper and plastics products wholesaling ³	57-6	03/09	129.7	127.8	135.4	6.3	5.9	1.3	-1.9	5.9
Food and alcohol wholesaling ³	57-8	06/09	107.6	113.0	113.9	8.3	0.8	1.2	3.2	0.8
Hardware and building materials and supplies retailing	58-D	03/09	128.7	126.0	126.7	9.1	0.6	-3.2	0.6	1.2
Metal treatment services ³	59-1	12/84	187.4	188.0	189.0	2.5	0.5	0.2	-0.3	0.5
Stage 3 intermediate demand		11/09	118.5	117.2	118.5	5.3	1.1	-0.8	0.3	1.6
Stage 3 intermediate demand goods	01.01	04/10	111.5	108.7	110.7	7.7	1.8	-1.5	0.2	2.9
Slaughter cattle	01-31		167.5 98.2	165.0 60.1	163.3 85.2	-1.8 18.3	-1.0 41.8	0.1 -29.8	2.4 2.8	1.2 46.3
Slaughter hogs. Slaughter poultry.	01-32		301.5	209.6	210.8	-3.2	0.6	-15.4	-1.3	5.1
Raw milk.	01-6		124.4	116.6	127.5	-6.7	9.3	-10.2	2.9	9.4
Commercial electric power.	05-42		208.3	206.3	199.0	-1.0	-3.5	0.4	-1.2	0.4
Industrial electric power	05-43		255.2	256.6	242.6	1.6	-5.5	1.8	-0.6	-0.3
Gasoline	05-71		222.3	215.0	223.0	27.1	3.7	0.6	-3.5	7.6
Jet fuel	05-72-03		232.8	236.1	242.5	32.0	2.7	2.5	-0.1	4.7
No. 2 diesel fuel	05-73-03		261.4	264.1	271.1	27.0	2.7	-3.8	1.6	5.4
Finished lubricants ³	05-76 05-78	06/00	421.3 122.1	428.8	428.9	9.1 6.8	0.0	0.8	0.1	0.0
Asphalt.	05-76	06/09 06/85	226.4	126.0 249.1	120.1 259.8	51.3	-4.7 4.3	-1.0 7.0	1.4 -3.2	-4.7 6.9
Basic inorganic chemicals ³	06-13	00/03	278.7	278.6	280.8	7.3	0.8	0.2	-0.1	0.8
Basic organic chemicals	06-14		272.4	279.7	289.8	12.0	3.6	0.8	0.3	3.6
Paints and allied products ³	06-2		282.9	284.2	285.9	5.1	0.6	0.1	0.3	0.6
Agricultural chemicals and chemical products	06-5		222.9	222.1	225.8	11.7	1.7	0.8	0.3	1.3
Plastic resins and materials	06-6		243.8	244.7	245.6	3.3	0.4	-0.1	1.6	-0.5
Synthetic rubber ³	07-11-02		222.6	225.3	226.8	12.6	0.7	1.3	0.7	0.7
Unsupported plastic film, sheet, and other shapes ³	07-22 09-13		222.9 196.8	222.6 201.7	224.8 202.4	2.4 8.2	1.0 0.3	0.1 0.5	-0.4 0.7	1.0 0.3
Paperboard ³			276.8	278.3	278.2	4.5	0.0	0.5	-0.1	0.0
Converted paper and paperboard products ³			237.8	239.5	239.0	1.7	-0.2	0.0	0.3	-0.2
Commercial printing ³		06/82	171.8	172.4	173.0	1.6	0.3	-0.1	0.0	0.3
Foundry and forge shop products ³			210.1	211.7	212.0	2.4	0.1	0.0	0.0	0.1
Steel mill products ³	1		213.9	223.5	221.8	18.2	-0.8	2.6	0.0	-0.8
Nonferrous mill shapes ³	10-25		228.9	216.2	217.0	4.3	0.4	-2.1	-0.4	0.4
Nonferrous foundry shop products			217.7	217.3	217.0	1.8	-0.1	-0.1	0.0	0.0
Structural, architectural, and pre-engineered metal products	10-3 10-74		162.1 229.9	163.4 232.8	162.6 233.3	8.0 9.3	-0.5 0.2	0.4 0.3	0.1 -0.1	-0.5 0.6
Bolts, nuts, screws, rivets, and washers ³	10-74		193.9	196.0	196.4	2.3	0.2	0.6	0.6	0.2
Other miscellaneous metal products ³	1		162.4	164.2	166.0	4.9	1.1	0.4	0.1	1.1
General purpose machinery and equipment			238.9	241.5	242.5	4.1	0.4	0.5	0.5	0.4
Electrical machinery and equipment	11-7		115.0	115.7	114.9	1.3	-0.7	0.2	0.1	-0.6
Construction sand, gravel, and crushed stone	1		335.7	336.8	337.2	3.7	0.1	0.0	0.6	0.4
Cement	1		254.2	253.3	253.7	2.8	0.2	-0.2	0.7	0.6
Motor vehicle parts ³	1		126.9	127.0	127.2	1.3	0.2	-0.1	0.0	0.2
Aircraft and aircraft equipment	1	04/10	272.6 116.6	273.5 117.1	273.6 117.5	1.4 2.9	0.0 0.3	0.1 0.1	0.1 0.4	0.0 0.4
Rail transportation of freight and mail ³		12/08	124.6	126.7	126.8	6.5	0.3	0.1	1.4	0.4
Courier, messenger, and U.S. postal services		06/09	140.0	140.3	140.5	4.3	0.1	0.2	0.7	0.2
Arrangement of freight and cargo ³	31-31	12/08	107.7	107.7	107.7	2.2	0.0	0.0	0.0	0.0
Freight forwarding ³	31-32-01	12/08	98.5	98.5	98.5	1.5	0.0	0.0	0.0	0.0
Warehousing, storage, and related services ³	32-1	12/08	107.3	107.2	107.4	1.2	0.2	-0.6	0.3	0.2
Advertising space sales in periodicals, newspapers, directories, and	00.4	00/00	100.4	100.0	100.0	1.0	0.0	0.0	0.0	0.5
mailing lists	36-1 37-1	06/09 06/09	103.4 116.7	103.3 116.9	103.6 116.7	-1.3 1.1	0.3 -0.2	-0.3 0.2	0.3 0.0	0.5 -0.2
Bundled wired telecommunications access services ³	37-1	12/11	106.0	108.0	107.4	3.7	-0.2 -0.6	3.4	-0.4	-0.2 -0.6
Data processing and related services ³	38-1	06/09	101.3	101.3	101.2	0.3	-0.1	-0.1	0.4	-0.1
Business loans (partial).	39-11	04/09	226.9	231.1	222.7	10.5	-3.6	2.4	1.1	-0.3
	39-2	04/09	63.8	65.4	65.0	5.9	-0.6	-2.6	4.1	-0.6
Deposit services (partial) ³	100 5									
Securities brokerage, dealing, investment advice, and related services ³	40-11	06/09	155.2	156.8	159.4	11.5	1.7	0.1	-0.8	1.7
Securities brokerage, dealing, investment advice, and related services ³ Insurance	40-11 41-11	06/09	121.1	121.6	121.7	2.6	0.1	0.3	0.3	0.0
Securities brokerage, dealing, investment advice, and related services ³	40-11	1				1				

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

Grouping	Commodity	Other index	Unadjusted index			Unadjuste change 2018		Seasonally adjusted percent change from:		
3	code	base	June 2018 ²	Sept. 2018 ²	Oct. 2018 ²	Oct. 2017	Sept. 2018	July to Aug.	Aug. to Sept.	Sept to Oc
, ,	45-2	06/09	107.1	109.7	111.0	3.7	1.2	0.5	2.1	1.1
0 0	45-3	06/09	115.0	115.6	115.6	1.6	0.0	0.3	-0.2	0.0
	45-4	06/09	105.3	105.2	106.2	2.2	1.0	0.0	-0.3	1.0
0 0 7	45-51	12/08	109.1	109.2	109.0	0.2	-0.2	0.1	0.2	-0.2
	46-3	06/09	113.0	113.4	113.2	0.2	-0.2	-0.1	0.1	-0.2
Aircraft repair maintenance		04/09	123.4	122.7	123.6	2.9	0.7	0.3	0.2	1.0
, , , , ,	57-11-02	03/09	120.3	117.8	118.1	-0.5	0.3	0.5	1.3	0.3
	57-3	03/09	98.3	99.0	99.3	6.1	0.3	1.1	-0.9	0.2
Metals, minerals, and ores wholesaling ³		03/09	172.9	160.7	173.2	25.9	7.8	-10.5	-1.7	7.8
	57-5 57-6	03/09	106.7 129.7	106.9 127.8	107.2 135.4	1.5 6.3	0.3 5.9	1.6 1.3	0.2 -1.9	0.3 5.9
	57-81-01	03/09	105.5	111.5	112.0	9.1	0.4	1.1	3.7	0.4
· .	59-1	12/84	187.4	188.0	189.0	2.5	0.5	0.2	-0.3	0.5
	55 1									
age 2 intermediate demand		11/09	108.8	109.3	110.3	6.1	0.9	-1.2	0.9	0.6
Stage 2 intermediate demand goods	04 00 00	04/10	94.9	95.7	97.0	10.2	1.4	-2.8	1.9	1.4
	01-22-02		144.9	133.6	133.8	5.6	0.1	11.7	-2.9	1.3
	01-83		174.0	146.4	151.1	-12.6	3.2	8.1	-3.9	4.4
'	02-9		197.1	187.5	186.3	1.6	-0.6 -0.4	-0.4 -0.4	-3.3 -0.9	1.1 0.1
_	05-1 05-31		199.4 103.1	198.9 106.7	198.1 105.6	1.5 -2.9	-0.4 -1.0	-0.4 -1.8	-0.9 1.1	-1.
Liquefied petroleum gas ³			203.2	218.5	206.4	16.2	-1.0 -5.5	1.0	18.0	-1. -5.
	05-61		188.5	198.4	213.2	49.7	7.5	-13.4	8.7	-3. 7.
·	05-73-03		261.4	264.1	271.1	27.0	2.7	-3.8	1.6	7. 5.
	06-1		272.5	278.8	287.7	11.3	3.2	0.8	0.2	3.
	06-6		243.8	244.7	245.6	3.3	0.4	-0.1	1.6	-0.
_	07-2		207.6	209.1	210.6	4.2	0.7	0.5	0.1	0.
•	08-5		248.0	256.3	252.3	4.1	-1.6	2.6	1.5	-2.
	09-13		196.8	201.7	202.4	8.2	0.3	0.5	0.7	0.
'	09-14-11	12/82	291.5	292.6	292.6	4.5	0.0	0.0	-0.1	0.
	09-47	06/82	171.8	172.4	173.0	1.6	0.3	-0.1	0.0	0.
Iron and steel scrap ³			548.4	477.1	475.1	9.9	-0.4	-5.6	-6.8	-0.
Steel mill products ³			213.9	223.5	221.8	18.2	-0.8	2.6	0.0	-0.
Nonferrous mill shapes ³	10-25		228.9	216.2	217.0	4.3	0.4	-2.1	-0.4	0.
Electrical machinery and equipment	11-7		115.0	115.7	114.9	1.3	-0.7	0.2	0.1	-0.
Electronic components and accessories	11-78		66.0	65.6	64.0	-2.9	-2.4	0.0	-0.3	-2.
Stage 2 intermediate demand services		04/10	117.1	117.3	117.8	2.8	0.4	0.1	0.2	0.
Rail transportation of freight and mail ³	30-11	12/08	124.6	126.7	126.8	6.5	0.1	0.2	1.4	0.
	30-12	06/09	122.9	124.0	124.4	7.1	0.3	-0.2	0.4	0.
h	30-15-01	12/08	151.3	154.3	155.6	1.8	0.8	0.0	0.0	0.
	30-16-01	06/89	222.0	222.0	222.0	2.1	0.0	0.1	0.1	0.
3	30-16-02	04/09	153.9	154.5	154.6	5.2	0.1	0.5	0.9	0.
1 0 , , , , , , , , , , , , , , , , , ,	30-16-03	04/09	170.7	171.4	172.4	7.9	0.6	0.1	1.3	0.
	30-22	12/08	115.1	111.7	115.2	3.6	3.1	-2.0	5.5	1.
	31-31	12/08	107.7	107.7	107.7	2.2	0.0	0.0	0.0	0.
•	36-21	06/09	109.0	109.3	119.8	7.2	9.6	0.3	0.7	5.
_	37-2	06/09	65.0	64.9	65.8	-1.8	1.4	0.3	-0.3	1.
' "	38-1	06/09	101.3	101.3	101.2	0.3	-0.1	-0.1	0.4	-0.
9 / 9/	40-11	06/09	155.2	156.8	159.4	11.5	1.7	0.1	-0.8	1.
• .	40-2	12/08	211.3	214.3	216.8	6.0	1.2	1.0	0.9	1.
· · · · · · · · · · · · · · · · · · ·	40-31 41-11	12/08 06/09	175.4 121.1	179.7 121.6	180.5 121.7	8.7 2.6	0.4 0.1	0.8 0.3	1.4 0.3	0. 0.
	42-11	06/09	107.2	107.2	107.4	1.6	0.1	0.3	0.3	0.
	45-11	03/09	130.6	130.0	130.0	2.0	0.0	-0.2	0.3	0.
š	45-2	06/09	107.1	109.7	111.0	3.7	1.2	0.5	2.1	1.
	45-4	06/09	105.3	105.7	106.2	2.2	1.0	0.0	-0.3	1.
	45-51	12/08	109.1	109.2	109.0	0.2	-0.2	0.0	0.2	-0.
	46-3	06/09	113.0	113.4	113.2	0.2	-0.2	-0.1	0.2	-0. -0.
•	48-1	03/09	112.4	113.2	113.3	2.4	0.1	0.1	0.4	0.
	49-1	03/09	111.3	111.5	111.4	0.5	-0.1	0.0	0.0	-0.
	53-1	06/09	121.5	119.0	123.3	4.1	3.6	0.2	-2.0	1.
Commercial and industrial machinery and equipment repair and	-								•	
	55-1	03/09	121.9	122.6	122.8	1.7	0.2	0.3	-0.2	0.
Hardware and building materials and supplies retailing	58-D	03/09	128.7	126.0	126.7	9.1	0.6	-3.2	0.6	1.
		11/09	118.0	117.5	118.3	6.0	0.7	-0.5	0.0	1.
age 1 intermediate demand				111.0		1 0.0	J.,	1 0.0	0.0	
age 1 intermediate demand		1		102 4	103.3	8 1	0.9	-0.8	-0.4	1
Stage 1 intermediate demand goods	02-9	04/10	103.2 197.1	102.4 187.5	103.3 186.3	8.1 1.6	0.9 -0.6	-0.8 -0.4	-0.4 -3.3	1. 1.

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 , I maex I		adjusted in	dex	change	ed percent e to Oct. 3 from:		onally adj	
. 0	code	base	June 2018 ²	Sept. 2018 ²	Oct. 2018 ²	Oct. 2017	Sept. 2018	July to Aug.	Aug. to Sept.	Sept. to Oct.
Industrial electric power	05-43		255.2	256.6	242.6	1.6	-5.5	1.8	-0.6	-0.3
Commercial natural gas	05-52	12/90	183.7	184.8	184.4	-0.2	-0.2	1.7	-1.5	0.1
Industrial natural gas	05-53	12/90	152.8	150.0	153.9	-1.4	2.6	-1.7	-0.3	1.5
Gasoline	05-71		222.3	215.0	223.0	27.1	3.7	0.6	-3.5	7.6
No. 2 diesel fuel	05-73-03		261.4	264.1	271.1	27.0	2.7	-3.8	1.6	5.4
Industrial chemicals	06-1		272.5	278.8	287.7	11.3	3.2	0.8	0.2	3.2
Prepared paint ³	06-21		286.0	287.2	289.5	4.9	0.8	0.3	0.1	0.8
Plastic construction products	07-21		226.4	227.0	227.9	3.0	0.4	0.5	0.2	0.1
Wastepaper ³	09-12		254.2	279.2	280.7	-10.3	0.5	10.9	-5.8	0.5
Paper ³	09-13		196.8	201.7	202.4	8.2	0.3	0.5	0.7	0.3
Converted paper and paperboard products ³	09-15		237.8	239.5	239.0	1.7	-0.2	0.0	0.3	-0.2
Iron and steel scrap ³	10-12		548.4	477.1	475.1	9.9	-0.4	-5.6	-6.8	-0.4
Steel mill products ³			213.9	223.5	221.8	18.2	-0.8	2.6	0.0	-0.8
Primary nonferrous metals ³	10-22		203.1	185.4	185.6	-5.7	0.1	-3.2	-1.2	0.1
Nonferrous scrap.	10-23		383.0	336.3	332.6	-6.0	-1.1	-8.7	-0.1	-1.5
Nonferrous wire and cable ³	10-26		253.8	246.1	249.8	3.0	1.5	-0.2	-2.3	1.5
Fabricated structural metal products	10-7		234.8	238.3	239.3	8.8	0.4	0.2	0.5	0.7
General purpose machinery and equipment	11-4		238.9	241.5	242.5	4.1	0.4	0.5	0.5	0.4
Construction sand, gravel, and crushed stone	13-21		335.7	336.8	337.2	3.7	0.1	0.0	0.6	0.4
Stage 1 intermediate demand services		04/10	120.4	120.6	121.2	3.3	0.5	-0.2	0.6	0.5
Truck transportation of freight ³	30-12	06/09	122.9	124.0	124.4	7.1	0.3	-0.2	0.4	0.3
Airline passenger services	30-22	12/08	115.1	111.7	115.2	3.6	3.1	-2.0	5.5	1.1
Advertising space sales in periodicals, newspapers, directories, and mailing lists.	36-1	06/09	103.4	103.3	103.6	-1.3	0.3	-0.3	0.3	0.5
Business wired telecommunication services ³	37-12	06/09	101.9	101.9	101.5	0.1	-0.4	0.1	-0.1	-0.4
Wireless telecommunication services ³		06/09	65.0	64.9	65.8	-1.8	1.4	0.3	-0.3	1.4
Bundled wired telecommunications access services ³		12/11	106.0	108.0	107.4	3.7	-0.6	3.4	-0.4	-0.6
Business loans (partial)	39-11	04/09	226.9	231.1	222.7	10.5	-3.6	2.4	1.1	-0.3
Deposit services (partial) ³	39-2	04/09	63.8	65.4	65.0	5.9	-0.6	-2.6	4.1	-0.6
Securities brokerage, dealing, investment advice, and related services ³	40-11	06/09	155.2	156.8	159.4	11.5	1.7	0.1	-0.8	1.7
Portfolio management ³	40-2	12/08	211.3	214.3	216.8	6.0	1.2	1.0	0.9	1.2
Investment banking ³	40-3	12/08	175.4	179.7	180.5	8.7	0.4	0.8	1.4	0.4
Insurance	41-11	06/09	121.1	121.6	121.7	2.6	0.1	0.3	0.3	0.0
Nonresidential real estate rents ³	43-11	06/09	112.6	114.9	113.4	-0.2	-1.3	2.1	-0.6	-1.3
Architectural and engineering services ³	45-3	06/09	115.0	115.6	115.6	1.6	0.0	0.3	-0.2	0.0
Management consulting services ³		06/09	105.3	105.2	106.2	2.2	1.0	0.0	-0.3	1.0
Waste collection.	50-1	12/08	127.1	128.0	128.2	3.6	0.2	0.3	0.0	0.3
Traveler accommodation services	53-11	06/09	121.5	119.0	123.3	4.1	3.6	0.2	-2.0	1.7
Commercial and industrial machinery and equipment repair and maintenance ³	55-1	03/09	121.9	122.6	122.8	1.7	0.2	0.3	-0.2	0.2
Machinery and equipment parts and supplies wholesaling ³		03/09	120.3	117.8	118.1	-0.5	0.3	0.5	1.3	0.3
Building materials, paint, and hardware wholesaling	1	03/09	98.3	99.0	99.3	6.1	0.3	1.1	-0.9	0.2
Metals, minerals, and ores wholesaling ³		03/09	172.9	160.7	173.2	25.9	7.8	-10.5	-1.7	7.8
Chemicals and allied products wholesaling ³		03/09	106.7	106.9	107.2	1.5	0.3	1.6	0.2	0.3
Paper and plastics products wholesaling ³	1	03/09	129.7	127.8	135.4	6.3	5.9	1.3	-1.9	5.9
Hardware and building materials and supplies retailing	1	03/09	128.7	126.0	126.7	9.1	0.6	-3.2	0.6	1.2
Mining services ³	1	06/85	232.5	233.1	233.4	1.2	0.1	-0.3	0.0	0.1

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

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

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

³ Not seasonally adjusted.

[&]quot;-" Data not available.

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

[Nov 2009=100, unless otherwise indicated]

Ownership	Other	Index ¹							
Grouping	index base	May 2018	June 2018	July 2018	Aug. 2018	Sept. 2018	Oct. 2018		
Final demand.		116.1	116.4	116.4	116.3	116.5	117.2		
		115.2	115.4	115.4	115.4	115.3	116.0		
Final demand goods.	1								
Final demand foods.		117.5	116.1	116.0	115.3	114.6	115.8		
Final demand energy	1	111.2	112.9	112.0	112.4	111.5	114.5		
Final demand goods less foods and energy	1	115.7	116.0	116.3	116.3	116.5	116.5		
Final demand services.	1	116.1	116.5	116.5	116.4	116.7	117.5		
Final demand trade services.		116.7	117.3	117.1	116.1	116.2	118.1		
Final demand transportation and warehousing services.	1	121.1	121.9	122.3	121.6	123.8	124.5		
Final demand services less trade, transportation, and warehousing	•	115.4	115.7	115.7	116.0	116.3	116.5		
Intermediate demand by commodity type									
Processed goods for intermediate demand	1	201.0	202.3	202.6	202.6	202.6	204.3		
Materials and components for manufacturing	1	187.1	187.9	188.7	189.0	189.3	190.4		
Materials and components for construction	1	247.6	248.7	249.5	249.3	250.1	250.3		
Processed fuels and lubricants for intermediate demand	. 00/82	190.2	194.4	193.0	192.5	192.1	197.2		
Containers for intermediate demand	. 00/82	233.4	235.0	235.7	236.0	236.1	235.9		
Supplies for intermediate demand	. 00/82	199.5	199.2	199.6	199.5	198.8	199.2		
Unprocessed goods for intermediate demand	. 00/82	203.0	201.0	205.2	193.3	196.5	203.6		
Unprocessed foodstuffs and feedstuffs	. 00/82	166.5	165.2	161.0	152.6	153.5	162.4		
Unprocessed nonfood materials except fuel	. 00/82	280.7	274.4	288.2	265.5	272.9	283.7		
Unprocessed fuel.		125.6	128.1	132.9	131.0	132.0	130.8		
Services for intermediate demand.	1	118.2	118.4	118.6	118.7	119.3	119.8		
Trade services for intermediate demand		119.9	120.5	120.3	119.0	119.8	121.6		
Transportation and warehousing services for intermediate demand	1	125.0	125.4	125.6	125.5	126.7	127.1		
Services less trade, transportation, and warehousing for intermediate demand	1	116.5	116.6	116.8	117.4	117.8	118.0		
Intermediate demand by production flow	•	110.5	110.0	110.0	117.4	117.0	110.0		
		1160	117.2	117.2	117.0	1175	118.1		
Stage 4 intermediate demand	1	116.8			117.2	117.5			
Inputs to stage 4 goods producers	1	113.3	113.7	113.4	113.4	113.5	114.1		
Inputs to stage 4 services producers	1	118.1	118.3	118.3	118.6	119.0	119.3		
Inputs to stage 4 construction producers	1	118.8	119.8	120.2	119.6	119.8	121.1		
Stage 3 intermediate demand	1	116.9	117.5	117.5	116.6	117.0	118.9		
Inputs to stage 3 goods producers	-	118.8	119.6	119.6	117.4	118.1	120.9		
Inputs to stage 3 services producers		115.7	116.1	116.1	116.4	116.5	117.5		
Inputs to stage 3 construction producers		116.1	119.8	119.2	116.5	117.4	121.0		
Stage 2 intermediate demand	.	108.7	108.6	109.8	108.5	109.5	110.4		
Inputs to stage 2 goods producers	.	102.1	101.7	104.0	101.2	103.1	104.5		
Inputs to stage 2 services producers	.	115.4	115.5	115.7	115.8	116.0	116.4		
Stage 1 intermediate demand	.	116.7	117.4	117.8	117.2	117.2	118.5		
Inputs to stage 1 goods producers	.	114.4	114.7	115.5	114.4	113.7	115.4		
Inputs to stage 1 services producers	.	118.9	119.8	119.9	119.7	120.4	121.3		
Inputs to stage 1 construction producers	1	119.1	120.0	120.5	120.0	120.2	121.5		
Special groupings									
Final demand less foods and energy	1	114.9	115.3	115.4	115.3	115.5	116.1		
Final demand less foods		114.3	114.7	114.7	114.7	114.9	115.6		
Final demand less energy	1	114.8	115.1	115.2	115.0	115.3	115.9		
Total finished ²	. 01/10	115.3	115.7	115.7	115.6	115.8	116.6		
Total exports	. 04/10	112.7	112.9	112.8	112.5	112.7	113.2		
Total Government purchases	. 04/10	111.2	111.6	111.6	111.6	111.9	112.7		
Total private capital investment (goods, services, and construction)	. 04/10	114.2	114.5	114.8	114.5	114.9	115.5		
Finished goods ²	. 00/82	204.3	204.7	204.8	204.9	204.7	206.2		
Processed materials less foods and feeds.	. 00/82	201.6	203.3	203.7	203.8	204.1	205.9		
Processed foods and feeds.	1	195.9	193.4	192.1	190.5	187.8	188.5		
Processed energy goods	1	191.1	195.4	193.9	193.4	193.0	198.1		
Processed materials less foods and energy	. 00/82	201.3	202.2	203.1	203.5	203.9	204.7		
Unprocessed materials less agricultural products	. 00/82	221.9	219.6	230.8	216.0	221.2	227.0		
Unprocessed energy materials.	. 00/82	169.8	166.8	180.0	165.7	173.5	179.8		
Unprocessed nonfood materials less energy		347.8	349.6	343.5	337.1	327.8	327.8		
Total goods inputs to stage 4 intermediate demand	1	112.3	112.7	112.8	112.7	112.7	113.3		
Total services inputs to stage 4 intermediate demand	1	117.7	118.1	118.0	118.2	118.8	119.3		
Total goods inputs to stage 3 intermediate demand	1	108.9	109.9	109.8	108.1	108.3	111.4		
Total services inputs to stage 3 intermediate demand	1	116.3	116.5	116.6	116.7	117.2	117.7		
Total goods inputs to stage 2 intermediate demand	. 04/10	95.0	94.6	96.8	94.1	95.9	97.2		
Total services inputs to stage 2 intermediate demand	. 04/10	116.8	116.9	117.2	117.3	117.5	117.9		
Total goods inputs to stage 1 intermediate demand	. 04/10	101.8	102.6	102.9	102.1	101.7	103.2		
Total services inputs to stage 1 intermediate demand	1	119.7	120.0	120.5	120.2	120.9	121.5		
- San Sollies inpute to diago i intermediate demand			120.0	120.0	120.2	120.0	121.5		

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 June 2018 have been recalculated to incorporate late reports and corrections by respondents.
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 Oct. 2018 from:		
	code	base	June 2018 ¹	Sept. 2018 ¹	Oct. 2018 ¹	Oct. 2017	Sept. 2018	
Condo								
Goods All commodities.			204.2	203.2	204.3	4.8	0.5	
Farm products, processed foods and feeds.			194.1	186.0	187.5	-0.8	0.8	
Farm products	01		166.2	148.2	152.6	-2.4	3.0	
Processed foods and feeds.	02		207.8	204.6	204.7	-0.2	0.0	
Industrial commodities.			205.8	206.3	207.3	6.0	0.5	
Textile products and apparel.	03		149.0	150.0	150.9	3.9	0.6	
Hides, skins, leather, and related products	04		179.3	171.9	172.0	-7.5	0.1	
Fuels and related products and power.	05		188.0	188.6	189.9	13.6	0.7	
Chemicals and allied products	06		294.3	297.0	300.4	5.7	1.1	
Rubber and plastic products	07		194.9	196.3	197.7	3.9	0.7	
Lumber and wood products	08		253.0	245.7	240.4	2.6	-2.2	
Pulp, paper, and allied products	09		260.6	263.0	262.9	2.7	0.0	
Metals and metal products	10		227.4	224.4	224.8	6.8	0.2	
Machinery and equipment	11		140.0	140.8	140.8	2.0	0.0	
Furniture and household durables	12		171.9	172.7	173.1	3.5	0.2	
Nonmetallic mineral products	13		247.2	249.6	249.6	4.3	0.0	
Transportation equipment	14		180.9	181.2	182.5	1.4	0.7	
Miscellaneous products	15		263.9	264.5	266.4	2.7	0.7	
Industrial commodities less fuels.			207.0	207.4	208.3	3.7	0.4	
Other commodity groupings								
Petroleum products, refined	057		228.9	226.6	233.1	25.5	2.9	
Industrial chemicals	061		272.5	278.8	287.7	11.3	3.2	
Rubber and rubber products	071		179.7	180.8	181.9	3.3	0.6	
Lumber	081		254.5	229.4	214.9	-3.9	-6.3	
Iron and steel	101		242.5	242.1	240.8	13.9	-0.5	
Nonferrous metals	102		256.5	238.8	239.8	-0.7	0.4	
General purpose machinery and equipment	114		238.9	241.5	242.5	4.1	0.4	
Electrical machinery and equipment	117		115.0	115.7	114.9	1.3	-0.7	
Electronic components and accessories.	1178		66.0	65.6	64.0	-2.9	-2.4	
Aircraft and aircraft equipment	142		272.6	273.5	273.6	1.4	0.0	
Services and construction								
Transportation services	30	06/09	128.8	128.8	129.9	5.5	0.9	
Services related to transportation activities	31	06/09	113.8	114.3	114.2	2.1	-0.1	
Warehousing, storage, and related activities	32	12/08	107.3	107.2	107.4	1.2	0.2	
Publishing sales, excluding software	33	06/09	119.0	118.4	118.2	2.4	-0.2	
Software publishing	34	06/09	90.7	90.3	91.0	0.4	8.0	
Network compensation from broadcast and cable television and radio	35	06/09	137.2	138.3	137.2	4.6	-0.8	
Advertising space and time sales	36	06/09	98.4	98.8	102.4	0.0	3.6	
Telecommunication, cable, and internet user services	37	06/09	100.8	101.3	101.5	1.9	0.2	
Data processing and related services.	38	06/09	101.3	101.3	101.2	0.3	-0.1	
Credit intermediation services (partial)	39	06/09	93.5	95.6	93.8	6.5	-1.9	
Investment services.	40	06/09	172.5	174.9	177.2	8.4	1.3	
Insurance and annuities.	41	06/09	120.2	120.9	121.0	2.6	0.1	
Commissions and fees from sales and administration of insurance policies (partial)	42	06/09	107.2	107.2	107.4	1.6	0.2	
Real estate services (partial)	43	06/09	121.1	123.1	122.1	2.3	-0.8	
Rental and leasing of goods (partial)	44	06/09	93.8	97.4	95.2	-0.3	-2.3	
Professional services (partial)	45	06/09	117.8	118.1	118.5	2.0	0.3	
Employment services.	46	06/09	112.9	113.5	113.1	0.2	-0.4	
Travel arrangement services	47	06/09	104.3	105.3	104.6	0.8	-0.7	
Selected security services (partial)	48	03/09	112.4	113.2	113.3	2.4	0.1	
Cleaning and building maintenance services (partial)	49	03/09	111.3	111.5	111.4	0.5	-0.1	
Waste collection and remediation services (partial)	50	12/08	127.1	128.0	128.2	3.6	0.2	
Health care services.	51	06/09	118.4	118.9	119.2	2.0	0.3	
Accommodation services.	53	06/09	121.5	119.0	123.3	4.1	3.6	
Food and beverages for immediate consumption services (partial)	54	06/09	119.9	116.6	117.1	-2.7	0.4	
Repair and maintenance services (partial)	55	06/09	126.4	127.4	127.7	2.7	0.2	
Entertainment services (partial)	56	06/09	114.9	114.8	115.7	3.4	0.8	
Wholesale trade services.	57	06/09	118.6	118.3	119.9	3.0	1.4	
	58	06/09	117.0	115.2	118.4	1.0	2.8	
Retail trade services.				100.0	400.0		0.5	
Retail trade services. Metal treatment services.	59	12/84	187.4	188.0	189.0	2.5	0.5	
	59 60	12/84 06/85	187.4 232.5	188.0 233.1	189.0 233.4	2.5 1.2	0.5	
Metal treatment services.	1	1						

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

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