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PRODUCER PRICE INDEXES - AUGUST 2020

The Producer Price Index for final demand increased 0.3 percent in August, seasonally adjusted, the U.S. Bureau of Labor Statistics reported today. Final demand prices rose 0.6 percent in July and fell 0.2 percent in June. (See table A). On an unadjusted basis, the final demand index declined 0.2 percent for the 12 months ended in August.

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

The index for final demand less foods, energy, and trade services moved up 0.3 percent in August, the same as in both July and June. For the 12 months ended in August, prices for final demand less foods, energy, and trade services increased 0.3 percent.

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

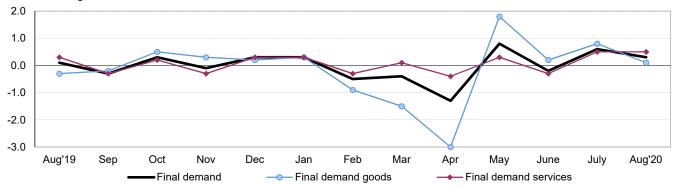
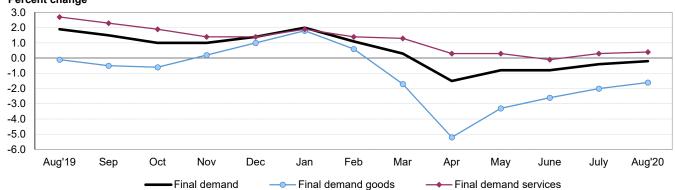


Chart 2. Twelve-month percent changes in selected PPI final demand price indexes, not seasonally adjusted Percent change



Final Demand

Final demand services: The index for final demand services rose 0.5 percent in August, the same as in July. In August, two-thirds of the advance can be traced to a 1.2-percent increase in margins for final demand trade services. (Trade indexes measure changes in margins received by wholesalers and retailers.) The indexes for final demand services less trade, transportation, and warehousing and for final demand transportation and warehousing services also moved up, 0.3 percent and 0.2 percent, respectively.

Product detail: Nearly 20 percent of the August advance in prices for final demand services is attributable to a 1.1-percent increase in margins for machinery, equipment, parts, and supplies wholesaling. The indexes for automobiles and automobile parts retailing; truck transportation of freight; food retailing; portfolio management; and securities brokerage, dealing, investment advice, and related services also rose. In contrast, margins for chemicals and allied products wholesaling declined 4.5 percent. The indexes for airline passenger services and investment banking also fell. (See table 4.)

Final demand goods: Prices for final demand goods edged up 0.1 percent in August, the fourth consecutive increase. The August rise can be attributed to a 0.3-percent advance in the index for final demand goods less foods and energy. Conversely, prices for final demand foods fell 0.4 percent, and the index for final demand energy declined 0.1 percent.

Product detail: Among prices for final demand goods in August, the index for plastic resins and materials rose 4.0 percent. Prices for diesel fuel, gas fuels, packaged fluid milk and related products, and nonferrous scrap also moved higher. In contrast, the index for chicken eggs dropped 12.2 percent. Prices for home heating oil, gasoline, and ethanol also decreased.

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

		Final demand	F	Final den	demand goods Final demand services						Change in final	Change in final demand less
Month	Total final demand	less foods, energy, and trade	Total	Foods	Energy	Less foods and energy	Total	Trade	Trans- portation and ware- housing	Other	demand from 12 months	foods, energy, and trade from 12 mo. ago (unadj.)
2019												
Aug	0.1	0.1	-0.3	-0.6	-1.4	0.0	0.3	0.9	-0.2	0.2	1.9	1.9
Sept	-0.3	0.0	-0.2	0.4	-1.4	-0.1	-0.3	-0.9	-0.2	0.0	1.5	1.7
Oct	0.3	0.0	0.5	1.4	1.8	0.1	0.2	0.5	0.4	0.0	1.0	1.5
Nov	-0.1	0.1	0.3	1.3	-0.1	0.1	-0.3	-1.2	-0.2	0.1	1.0	1.4
Dec	0.3	0.2	0.2	-0.2	1.1	0.0	0.3	0.6	1.6	0.1	1.4	1.5
2020												
Jan	0.3	0.3	0.3	0.2	0.4	0.3	0.3	0.3	-1.3	0.5	2.0	1.5
Feb	-0.5	-0.1	-0.9	-1.8	-3.9	0.1	-0.3	-0.7	-0.2	-0.3	1.1	1.4
Mar	-0.4	-0.2	-1.5	-0.1	-9.1	0.0	0.1	0.9	-2.9	0.1	0.3	1.0
Apr.1	-1.3	-0.8	-3.0	-0.5	-18.2	-0.3	-0.4	0.9	-3.4	-0.8	-1.5	-0.1
May ¹	0.8	0.0	1.8	6.1	6.3	-0.1	0.3	0.9	0.8	-0.1	-0.8	-0.4
June	-0.2	0.3	0.2	-5.2	7.7	0.1	-0.3	-1.8	0.9	0.3	-0.8	-0.1
July	0.6	0.3	0.8	-0.5	5.3	0.3	0.5	0.8	-0.8	0.4	-0.4	0.1
Aug	0.3	0.3	0.1	-0.4	-0.1	0.3	0.5	1.2	0.2	0.3	-0.2	0.3

¹ Some of the figures shown above and elsewhere in this release may differ from those previously reported because data for April 2020 have been revised to reflect the availability of late reports and corrections by respondents.

Intermediate Demand by Commodity Type

Within intermediate demand in August, prices for processed goods rose 0.6 percent, the index for unprocessed goods increased 7.0 percent, and prices for services moved up 0.7 percent. (See tables B and C.)

Processed goods for intermediate demand: The index for processed goods for intermediate demand rose 0.6 percent in August, the fourth consecutive increase. Sixty percent of the August advance can be traced to prices for processed materials less foods and energy, which moved up 0.5 percent. The index for processed energy goods rose 1.7 percent. Conversely, prices for processed foods and feeds decreased 0.5 percent. For the 12 months ended in August, the index for processed goods for intermediate demand fell 2.6 percent.

Product detail: A major factor in the August increase in prices for processed goods for intermediate demand was the index for lumber, which rose 10.5 percent. Prices for diesel fuel, primary basic organic chemicals, plastic resins and materials, utility natural gas, and softwood veneer and plywood also advanced. In contrast, the index for processed cheese and related products fell 11.0 percent. Prices for heating oil and for cold rolled steel sheet and strip also decreased. (See table 5.)

Unprocessed goods for intermediate demand: Prices for unprocessed goods for intermediate demand rose 7.0 percent in August following a 0.7-percent decrease the previous month. Over half of the broad-based increase can be attributed to an 11.7-percent advance in the index for unprocessed energy materials. Prices for unprocessed foodstuffs and feedstuffs moved up 7.0 percent, and the index for unprocessed nonfood materials less energy rose 1.7 percent. For the 12 months ended in August, prices for unprocessed goods for intermediate demand fell 9.0 percent.

Product detail: Over a quarter of the August increase in the index for unprocessed goods for intermediate demand can be traced to prices for natural gas, which jumped 22.8 percent. The indexes for crude petroleum, raw milk, slaughter steers and heifers, slaughter hogs, and nonferrous scrap also rose. Conversely, prices for corn fell 3.6 percent. The indexes for corrugated recyclable paper and coal also decreased.

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

	Process	•••••	s for inte	•••••	demand	Unprod	cessed g	goods for in	termediate	demand
Month	Total	Foods and feeds	Energy goods	Less foods and energy	Total, change from 12 months ago (unadj.)	Total	Food- stuffs and feed- stuffs	Energy materials	Nonfood materials less energy	Total, change from 12 months ago (unadj.)
2019										
A ug	-0.5	0.3	-1.4	-0.3	-3.0	-1.6	-0.5	-3.1	-0.6	-7.7
Sept	-0.1	0.8	-0.5	-0.2	-3.5	0.0	-0.9	1.5	-0.9	-8.9
Oct	0.3	0.4	0.1	0.3	-3.8	0.3	5.4	-4.1	-0.8	-11.2
Nov	0.2	1.4	1.4	-0.2	-2.9	3.1	0.6	7.8	-0.1	-5.1
Dec	-0.1	0.0	0.5	-0.2	-1.7	1.2	0.5	0.8	3.1	-7.3
2020										
Jan	-0.2	-0.2	-1.0	0.1	-1.0	-1.1	0.2	-5.9	5.0	-3.7
Feb	-0.9	-0.8	-4.0	-0.1	-2.0	-6.7	-4.9	-12.2	-1.4	-7.8
Mar	-1.5	-0.7	-7.4	-0.2	-4.0	-8.5	-4.3	-20.0	1.2	-15.6
Apr.1	-3.6	-0.1	-14.7	-1.5	-7.6	-14.1	-12.6	-25.2	-3.7	-28.6
May ¹	0.4	6.5	1.3	-0.6	-6.8	9.6	7.3	24.2	0.3	-19.4
June	0.9	-5.5	7.2	0.5	-5.0	3.1	-5.6	16.8	1.1	-14.6
July	1.5	-0.7	7.4	0.5	-3.6	-0.7	4.3	-7.4	0.3	-16.3
A ug	0.6	-0.5	1.7	0.5	-2.6	7.0	7.0	11.7	1.7	-9.0

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Services for intermediate demand: Prices for services for intermediate demand moved up 0.7 percent in August, the third consecutive increase. About three-quarters of the August advance can be attributed to a 0.9-percent rise in the index for services less trade, transportation, and warehousing for intermediate demand. Margins for trade services for intermediate demand increased 1.2 percent. In contrast, prices for transportation and warehousing services for intermediate demand decreased 0.1 percent. For the 12 months ended in August, the index for services for intermediate demand fell 0.6 percent.

Product detail: One-fifth of the August increase in the index for services for intermediate demand can be attributed to prices for securities brokerage, dealing, investment advice, and related services, which rose 5.0 percent. The indexes for portfolio management; hardware, building materials, and supplies retailing; metals, minerals, and ores wholesaling; business loans (partial); and truck transportation of freight also advanced. Conversely, prices for arrangement of freight and cargo transportation dropped 9.6 percent. The indexes for chemicals and allied products wholesaling and for investment banking also declined.

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

	ระบบรอบรอบรอบรอบรอบรอบรอบรอบรอบรอบรอบรอบร ิโ ธยบรอบรอบรอบรอบรอบ	Service	es for intermediate o	lemand		
Month	Total	Trade	Transportation and warehousing	Other	Total, change from 12 months ago (unadj.)	
2019						
Aug	0.4	1.4	0.2	0.2	2.7	
Sept	0.2	1.0	0.2	0.0	2.5	
Oct	-0.6	-0.8	0.1	-0.6	1.4	
Nov	-0.1	-0.3	-0.1	-0.1	1.3	
Dec	0.5	1.0	0.7	0.3	1.7	
2020						
Jan	0.2	0.2	-0.5	0.2	1.7	
Feb	-0.2	-0.3	-0.2	-0.3	1.3	
Mar	0.1	0.4	-1.1	0.3	1.1	
Apr.1	-1.7	-0.1	-1.4	-2.2	-1.2	
May ¹	-0.4	0.7	0.3	-0.9	-1.6	
June	0.2	-0.5	-0.2	0.4	-1.5	
July	0.7	1.1	-0.4	8.0	-1.0	
Aug	0.7	1.2	-0.1	0.9	-0.6	

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Intermediate Demand by Production Flow

Stage 4 intermediate demand: Prices for stage 4 intermediate demand advanced 0.5 percent in August, the fourth consecutive increase. In August, the index for total services inputs to stage 4 intermediate demand climbed 0.8 percent, and prices for total goods inputs moved up 0.3 percent. (See table D.) Increases in the indexes for portfolio management; hardware, building materials, and supplies retailing; diesel fuel; securities brokerage, dealing, investment advice, and related services; lumber; and metals, minerals, and ores wholesaling outweighed decreases in the indexes for chemicals and allied products wholesaling, investment banking, and processed cheese and related products. (See table 6.) For the 12 months ended in August, prices for stage 4 intermediate demand were unchanged.

Stage 3 intermediate demand: The index for stage 3 intermediate demand rose 1.4 percent in August, the fourth consecutive increase. In August, prices for total goods inputs to stage 3 intermediate demand climbed 2.5 percent, and the index for total services inputs moved up 0.7 percent. Higher prices for raw milk; slaughter steers and heifers; slaughter hogs; primary basic organic chemicals; securities brokerage, dealing, investment advice, and related services; and diesel fuel outweighed decreases in the indexes for arrangement of freight and cargo transportation; chemicals and allied products wholesaling; and heating oil. For the 12 months ended in August, prices for stage 3 intermediate demand moved down 3.8 percent.

Stage 2 intermediate demand: The index for stage 2 intermediate demand moved up 1.8 percent in August following no change in July. In August, prices for total goods inputs to stage 2 intermediate demand advanced 3.9 percent, and the index for total services inputs increased 0.7 percent. Higher prices for gas fuels; crude petroleum; plastic resins and materials; securities brokerage, dealing, investment advice, and related services; portfolio management; and television advertising time sales outweighed declines in the indexes for investment banking, arrangement of freight and cargo transportation, and cold rolled steel sheet and strip. For the 12 months ended in August, prices for stage 2 intermediate demand declined 3.3 percent.

Stage 1 intermediate demand: Prices for stage 1 intermediate demand climbed 1.0 percent in August, the third consecutive increase. In August, the index for total goods inputs to stage 1 intermediate demand rose 1.2 percent, and prices for total services inputs advanced 0.8 percent. Increases in the indexes for diesel fuel; metals, minerals, and ores wholesaling; gas fuels; securities brokerage, dealing, investment advice, and related services; crude petroleum; and business loans (partial) outweighed decreases in the indexes for chemicals and allied products wholesaling, airline passenger services, and corn. For the 12 months ended in August, prices for stage 1 intermediate demand decreased 3.2 percent.

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

	Stage 4 intermediate demand			Stage	3 interr 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	
2019													
Aug	0.1	-0.4	0.6	0.1	-0.4	0.5	-0.5	-1.4	0.3	-0.4	-1.0	0.7	
Sept	0.1	0.1	0.2	-0.3	-0.9	0.3	0.3	0.5	0.1	-0.2	-0.5	0.3	
Oct	-0.2	0.2	-0.6	0.5	1.6	-0.5	-0.7	-0.9	-0.5	-0.2	0.3	-0.8	
Nov	0.1	0.3	-0.1	0.0	0.3	-0.2	1.1	2.4	0.2	0.2	0.6	-0.5	
Dec	0.3	0.2	0.6	0.3	0.3	0.5	0.3	0.0	0.5	0.7	0.7	0.7	
2020													
Jan	0.2	-0.1	0.2	-0.1	-0.2	0.0	-0.6	-1.6	0.2	0.1	0.4	-0.2	
Feb	-0.5	-0.5	-0.4	-1.4	-2.6	-0.2	-2.0	-4.7	-0.2	-1.4	-2.3	-0.4	
Mar	-0.3	-0.6	0.1	-1.8	-3.9	0.2	-2.8	-7.2	0.2	-1.4	-2.7	0.1	
Apr.1	-1.8	-1.8	-1.7	-5.4	-10.2	-1.1	-4.5	-9.1	-1.8	-4.5	-6.7	-1.8	
May ¹	0.2	0.6	-0.2	0.9	2.6	-0.4	1.9	5.0	0.1	-0.6	-0.6	-0.8	
June	0.3	0.3	0.5	0.4	0.8	0.0	1.9	4.9	0.3	1.7	3.2	0.3	
July	1.0	0.9	1.0	1.7	3.5	0.3	0.0	-1.2	0.8	1.4	2.6	0.1	
Aug	0.5	0.3	0.8	1.4	2.5	0.7	1.8	3.9	0.7	1.0	1.2	0.8	

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The Producer Price Index for September 2020 is scheduled to be released on Wednesday, October 14, 2020 at 8:30 a.m. (ET).

Coronavirus (COVID-19) Pandemic Impact on August 2020 Producer Price Index Survey Data As was the case for March through July, the Producer Price Index (PPI) response rates for August were consistent with pre-COVID-19 response rates, and no changes in estimation procedures were necessary. Additional information is available at www.bls.gov/covid19/effects-of-covid-19-pandemic-on-producer-price-index.htm.

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 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	0112	oundary 2000
buildings Real estate agents and managers	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	8712	January 1997
Premiums for property and casualty insurance	9331	July 1998
	NAICS	
New Industrial building construction	236211	January 2008
New warehouse building construction	236221	July 2005
New school construction	236222	July 2006
New office construction	236223	January 2007
New health care building construction	236224	January 2013
Concrete contractors, nonresidential building work	23811X	July 2008
building workElectrical contractors, nonresidential	23816X	July 2008
building workPlumbing / HVAC contractors,	23821X	July 2008
nonresidential building work Merchant wholesalers, durable goods	23822X 423	July 2008 July 2005
Merchant wholesalers, nondurable goods Electronics and appliance stores	424 443	July 2005 January 2004
Building material and garden equipment and supplies dealersSporting goods, hobby, book, and	444	January 2004
music stores	451	January 2004
General merchandise stores	452	January 2004
Miscellaneous store retailers	453	January 2004
Internet service providers	518111	July 2005
Internet publishing and web search portals	519130	January 2010
Commercial banking	522110	January 2005
Savings institutions	522120	January 2005
Direct health and medical insurance carriers Construction, mining, and forestry	524114	July 2004
machinery and equipment rental and leasing	532412 541610	January 2005 January 2007

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

Weights

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

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

Price Index Reference Base

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

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

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

Calculating Index Changes

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

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

Index point change

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

Index percent change

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

Seasonally Adjusted and Unadjusted Data

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

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

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

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

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

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

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

Producer Price Index Data on the Internet

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

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

Retrieving PPI data from the PPI Web site

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

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

EXAMPLES

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

Provides data for: Commodity code

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

pdu28 # pdu331 #

Provides data for:

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

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

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

Special requests

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

Directory:

Additional information

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

For questions or comments regarding PPI data classification, methodology, or data availability on the Internet, call or e-mail the Section of Index Analysis and Public Information at (202) 691-7705 or ppi-info@bls.gov.

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

Final demand. Final demand goods. Final demand foods. Finished consumer foods ⁴ . Finished consumer foods, crude. Finished consumer foods, processed. Government purchased foods. Foods for export. Final demand energy. Finished consumer energy goods ⁴ . Government purchased energy.	00/82 00/82 00/82 00/82	Dec. 2019 ² 100.000 32.726 5.742 4.616 0.483 4.133 0.346 0.780	Apr. 2020 ³ 116.7 110.3 118.6 212.0	July 2020 ³ 118.2 113.9 119.3	Aug. 2020 ³ 118.6 113.8	Aug. 2019 -0.2	July 2020	May to June	June to July	July to Aug.
Final demand goods. Final demand foods. Finished consumer foods, crude. Finished consumer foods, crude. Government purchased foods. Foods for export. Final demand energy. Finished consumer energy goods ⁴ . Government purchased energy.	00/82 00/82	32.726 5.742 4.616 0.483 4.133 0.346	110.3 118.6 212.0	113.9		-0.2				7 tag.
Final demand foods. Finished consumer foods ⁴ . Finished consumer foods, crude. Finished consumer foods, processed. Government purchased foods. Foods for export. Final demand energy. Finished consumer energy goods ⁴ . Government purchased energy.	00/82 00/82	5.742 4.616 0.483 4.133 0.346	118.6 212.0		113.8		0.3	-0.2	0.6	0.3
Finished consumer foods ⁴ . 00 Finished consumer foods, crude. 00 Finished consumer foods, processed. 00 Government purchased foods. Foods for export. Final demand energy. Finished consumer energy goods ⁴ . 00 Government purchased energy.	00/82 00/82	4.616 0.483 4.133 0.346	212.0	119.3		-1.6	-0.1	0.2	8.0	0.1
Finished consumer foods, crude. 0 Finished consumer foods, processed. 0 Government purchased foods. Foods for export. Final demand energy. Finished consumer energy goods ⁴ 0 Government purchased energy.	00/82 00/82	0.483 4.133 0.346			118.6	0.2	-0.6	-5.2	-0.5	-0.4
Finished consumer foods, processed. 0 Government purchased foods. Foods for export. Final demand energy. Finished consumer energy goods ⁴ . 0 Government purchased energy.	00/82	4.133 0.346		213.2 206.2	212.3 202.3	0.7 5.1	-0.4 -1.9	-5.0 2.9	-0.5 1.5	-0.4 -3.3
Government purchased foods. Foods for export. Final demand energy. Finished consumer energy goods ⁴ . Government purchased energy.		0.346	209.4 212.7	214.4	213.8	0.2	-0.3	-5.8	-0.7	-3.3 -0.1
Foods for export. Final demand energy. Finished consumer energy goods ⁴ . Government purchased energy.	00/82	I	121.8	122.6	122.3	-1.2	-0.2	-8.9	-0.7	-0.2
Finished consumer energy goods ⁴ . 0 Government purchased energy.	00/82	0.760	110.1	111.1	109.5	-2.3	-1.4	-5.0	-0.4	-0.5
Government purchased energy	00/82	5.343	75.7	94.1	93.6	-12.4	-0.5	7.7	5.3	-0.1
		4.364	122.9	151.9	150.7	-11.3	-0.8	6.7	3.9	-0.5
		0.757	71.8	90.1	91.1	-15.3	1.1	12.9	10.8	1.0
Energy for export		0.222 21.641	50.3 118.0	68.6 118.2	70.5 118.4	-24.4 0.8	2.8 0.2	18.7 0.1	17.9 0.3	2.9 0.3
.91	00/82	12.841	210.1	210.1	210.3	1.3	0.2	0.1	0.3	0.3
•	00/82	6.950	234.9	234.9	235.2	1.4	0.1	0.0	0.3	0.3
9,	00/82	4.282	303.7	304.1	304.3	1.8	0.1	0.0	0.3	0.2
•	00/82	2.668	164.0	163.8	164.2	0.8	0.2	0.0	0.2	0.4
	00/82	5.891	179.1	179.1	179.2	1.1	0.1	0.1	0.2	0.1
	00/82	1.328	183.0	182.8	183.0	0.9	0.1	0.2	0.1	0.1
Private capital equipment for nonmanufacturing industries 0 Government purchased goods, excluding foods and energy	00/82	4.563 2.242	177.7 115.7	177.8 115.8	177.8 115.8	1.1 0.6	0.0 0.0	-0.1 0.2	0.2 0.3	0.1 0.1
Government purchased goods, excluding foods and energy, and capital		2.272	110.7	110.0	110.0	0.0	0.0	0.2	0.0	0.1
equipment		1.313	117.1	117.2	117.3	0.1	0.1	0.1	0.3	0.1
Government purchased capital equipment		0.929	112.3	112.3	112.3	1.3	0.0	0.1	0.2	0.0
Goods for export, excluding foods and energy		6.558	111.9	112.4	112.8	-0.1	0.4	0.4	0.4	0.4
Final demand services.		65.540	119.5	119.8	120.4	0.4	0.5	-0.3	0.5	0.5
Final demand trade services ⁵		20.290 17.592	122.3 122.1	121.3 120.7	122.8 122.2	1.6 1.7	1.2 1.2	-1.8 -1.9	0.8 0.7	1.2 1.3
Trade of infisited goods		14.428	123.2	120.7	122.2	2.2	1.2	-1.5	0.7	1.2
Trade of private capital equipment		3.164	115.9	118.9	120.9	-0.4	1.7	-3.7	2.9	1.8
Trade of government purchased goods		0.735	122.5	124.8	126.5	1.2	1.4	-1.9	1.5	1.4
Trade of government purchased goods, excluding capital										
equipment		0.460	124.9	127.1	128.6	3.0	1.2	-0.3	0.7	1.2
Trade of government purchased capital equipment		0.275 1.963	118.0 123.6	120.4 126.3	122.5 126.9	-1.8 0.6	1.7 0.5	-4.6 -1.7	2.8 1.5	1.7 0.5
Trade of exports Final demand transportation and warehousing services		4.707	118.3	119.5	118.8	-5.2	-0.6	0.9	-0.8	0.5
Transportation of passengers for final demand		1.359	98.8	105.0	99.1	-16.8	-5.6	4.7	-6.9	-3.2
Transportation of private passengers		0.928	98.9	105.0	99.2	-16.7	-5.5	4.8	-6.9	-3.2
Transportation of government passengers		0.140	99.1	105.1	99.4	-16.5	-5.4	4.8	-6.9	-3.1
Transportation of passengers for export		0.291	98.5	104.7	98.8	-17.0	-5.6	4.8	-7.0	-3.2
Transportation and warehousing of goods for final demand		3.348	125.6	124.7	126.2	-0.7	1.2	-0.5	1.6	1.2
Transportation and warehousing of finished goods ⁴ Transportation and warehousing of personal consumption		2.365	124.3	123.4	125.0	-0.7	1.3	-0.5	1.7	1.4
goods		1.852	124.7	123.8	125.4	-0.6	1.3	-0.4	1.6	1.4
Transportation and warehousing of private capital equipment		0.513	122.8	121.7	123.4	-1.0	1.4	-0.5	1.8	1.4
Transportation and warehousing of government purchased goods		0.246	124.8	124.0	125.5	-0.2	1.2	-0.5	1.5	1.2
Transportation and warehousing of exports		0.737	129.9	129.1	130.1	-0.8	8.0	-0.5	1.2	0.9
Final demand services less trade, transportation, and warehousing Finished services less trade, transportation, and warehousing ⁴		40.543 36.086	118.3 118.9	119.2 119.9	119.6 120.2	0.6 0.8	0.3 0.3	0.3 0.3	0.4 0.4	0.3 0.3
Finished consumer services less trade, transportation, and warenousing		JO.U86	110.9	119.9	120.2	0.8	0.3	0.3	0.4	0.3
warehousing		32.573	118.9	120.0	120.3	0.8	0.3	0.3	0.4	0.3
Private capital investment services less trade, transportation, and										
warehousing		3.513	119.2	120.0	119.7	0.2	-0.3	-0.3	0.5	-0.3
warehousing		3.011	111.9	111.7	112.5	-0.5	0.7	0.1	0.4	0.7
Gov. purchased services less trade, transportation, and warehousing, excl. capital investment		2.910	112.1	111.9	112.7	-0.5	0.7	0.1	0.3	0.9
Government purchased capital investment services less trade,			•				-			
transportation, and warehousing		0.101	105.2	106.1	105.7	1.2	-0.4	0.4	0.5	-0.4
Services for export less trade, transportation, and warehousing		1.446	117.6	117.9	118.8	-1.4	8.0	0.1	1.3	8.0
Final demand construction Construction for private capital investment		1.733 1.170	130.3 130.5	130.7 131.1	130.4 130.6	1.8 2.0	-0.2 -0.4	-0.3 -0.3	0.6 0.8	-0.2 -0.4
Construction for private capital investment. Construction for government.		0.563	129.6	129.9	129.9	1.6	-0.4 0.0	-0.3	0.8	-0.4 0.0
Special groupings		3.500	0.0	0.0	0.0		0.0	•••	0.0	0.0
		00.00-	42= =		4					
·	04/10 04/10	88.003	115.5	117.0	117.3	-0.1	0.3	-0.3	0.6	0.4
Final demand less government	J4/ IU	91.960	115.5	116.8	117.2	0.0	0.3	-0.3	0.6	0.4
	04/10	88.390	118.2	118.4	119.0	0.6	0.5	-0.3	0.4	0.5
	04/10	88.915	118.1	118.4	118.9	0.6	0.4	-0.3	0.5	0.4

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

[Nov 2009=100, unless otherwise indicated]

Grouping		Impor- tance	Uı	nadjusted in	dex	Unadjusted percent change to Aug. 2020 from:		Seasonally adjusted percent change from:		
. •	base	Dec. 2019 ²	Apr. 2020 ³	July 2020 ³	Aug. 2020 ³	Aug. 2019	July 2020	May to June	June to July	July to Aug.
Final demand less foods and food and nonalcoholic beverages for	0.4/4.0	00.700	1110	110.1	1100	0.0	0.4	0.4	0.7	
immediate consumption ^b	04/10	93.733	114.9	116.4	116.9	-0.2	0.4	0.1	0.7	0.5
Final demand less foods ⁶	04/10 04/10	94.258 94.657	114.9 117.9	116.4 118.2	116.8 118.6	-0.2 0.5	0.3	0.1 -0.5	0.7 0.3	0.4 0.4
Final demand less energy	1	79.710				-0.6	0.3	0.3	0.5	0.4
Final demand less trade services. Final demand less distributive services ⁷	01/10	76.362	114.1 113.7	116.1 115.8	116.2 115.9	-0.6	0.1 0.1	0.3	0.5	0.2
	01/10	27.383	117.1	117.4	117.4	0.7		-1.0	0.5	0.1
Final demand goods less energy	04/10	26.984	106.1	117.4	117.4	-2.0	0.0 0.1	1.4	1.1	0.1
Final demand services less trade services.	04/10	45.250	117.4	118.3	118.5	-0.1	0.1	0.3	0.3	0.2
Final demand distributive services ⁷	04/10	23.638	120.4	119.5	121.0	1.3	1.3	-1.7	0.9	1.3
Final demand goods plus final demand distributive services ⁷	04/10	56.364	112.9	114.6	115.2	-0.3	0.5	-0.7	0.9	0.6
Final demand less foods, energy, and trade services ⁶	08/13	68.625	110.4	111.0	111.2	0.3	0.2	0.3	0.3	0.3
Private and government purchased capital equipment	08/13	6.820	109.2	109.2	109.2	1.1	0.0	0.0	0.2	0.1
Private and government purchased capital investment services	08/13	7.566	108.5	110.0	110.8	-0.3	0.7	-1.8	1.7	0.7
Total private and government purchased capital investment	08/13	14.386	110.3	111.0	111.4	0.5	0.4	-0.8	0.9	0.4
Total finished ⁴	01/10	79.962	116.8	118.2	118.5	0.1	0.3	-0.3	0.5	0.4
Total finished less foods, food and nonalcoholic beverages for immediate	0.7.0	70.002					0.0	0.0	0.0	0
consumption, and energy ^{4, 6}	12/10	70.470	118.7	118.9	119.4	0.8	0.4	-0.3	0.4	0.5
Total finished less foods and energy ^{4, 6}	01/10	70.982	119.6	119.8	120.3	0.8	0.4	-0.3	0.4	0.5
Total finished less foods and food and nonalcoholic beverages for										
immediate consumption ^{4, 6}	12/10	74.834	115.3	116.7	117.2	0.2	0.4	0.0	0.6	0.5
Total finished less foods ^{4, 6}	01/10	75.346	116.7	118.1	118.5	0.1	0.3	0.1	0.6	0.4
Total finished less energy ⁴	01/10	75.598	119.5	119.8	120.2	0.8	0.3	-0.6	0.3	0.4
Finished goods ⁴	00/82	21.821	196.1	203.7	203.3	-1.5	-0.2	0.0	0.7	0.0
Finished goods less energy ⁴	00/82	17.457	210.2	210.5	210.4	1.1	0.0	-1.4	0.1	0.0
Finished goods, excluding foods ^{4, 6}	00/82	17.205	191.4	200.6	200.3	-2.1	-0.1	1.5	1.1	0.1
Finished services ⁴	01/10	56.971	118.9	119.1	119.7	0.7	0.5	-0.3	0.5	0.5
Private capital investment services.	04/10	7.190	116.7	118.3	119.2	-0.2	8.0	-1.7	1.6	0.7
Finished distributive services ^{4, 7}	04/10	19.957	119.9	118.6	120.1	1.4	1.3	-1.8	8.0	1.3
Finished services less trade services ⁴	04/10	39.379	117.9	118.9	119.1	0.3	0.2	0.3	0.4	0.3
Finished services less distributive services ^{4, 7}	04/10	37.014	117.7	118.8	118.9	0.3	0.1	0.3	0.3	0.2
Total private capital investment (goods, services, and construction)	04/10	14.251	116.4	117.3	117.7	0.5	0.3	-0.9	0.9	0.3
Finished goods plus finished distributive services ⁴	04/10	41.778	114.4	116.0	116.6	-0.1	0.5	-0.9	8.0	0.6
Total exports.	04/10	11.997	110.6	111.9	112.2	-1.2	0.3	-0.2	0.7	0.4
Goods for export	00/82	7.560	183.5	185.5	185.9	-1.1	0.2	0.1	0.7	0.4
Services for export	1	4.437	119.8	121.3	121.7	-1.4	0.3	-0.6	0.9	0.4
Total government purchases	04/10	8.040	108.9	111.1	111.5	-1.7	0.4	0.4	1.0	0.5
Government purchased goods	00/82	3.345	172.6	180.2	180.5	-3.3	0.2	1.2	2.1	0.2
Government purchased services	04/10	4.132	113.7	114.1	114.9	-0.7	0.7	-0.2	0.4	8.0
Total government purchased capital investment (goods, services,	00/40	1 000	444.0	110.1	110.0		0.0		0.0	0.0
construction)	1	1.868	111.6	112.1	112.3	0.9	0.2	-0.8	0.6	0.3
Personal consumption	01/10 00/82	65.711 15.930	116.8 202.8	118.3 213.8	118.6 213.2	0.0 -2.4	0.3 -0.3	-0.2 0.0	0.5 1.0	0.3 -0.1
, , , , , , , , , , , , , , , , , , , ,	1	1								
Personal consumption goods less energy	00/82 00/82	11.566 11.314	225.8	226.3 212.4	226.2 212.0	1.2 -3.6	0.0 -0.2	-2.0 2.3	0.0 1.6	0.0 0.0
Personal consumption goods less foods. Personal consumption nondurable goods less foods.	00/82	8.646	197.4 212.2	234.0	233.1	-5.0	-0.2 -0.4	3.0	2.1	-0.2
	1	1								
Personal consumption services	04/10 04/10	49.781 51.283	118.7 114.7	118.8 117.3	119.3 117.3	0.8 -0.6	0.4 0.0	-0.2 0.3	0.3 0.5	0.5 0.2
Personal consumption less trade services. Personal consumption less distributive services ⁷	04/10	49.431				-0.6	0.0		0.5	0.2
Personal consumption less distributive services	04/10	56.731	114.4 111.1	117.2 111.1	117.2 111.6	0.9	0.0	0.3 -0.2	0.4	0.1
Personal consumption less foods and energy. Personal consumption less foods, energy, and trade services ⁵	04/14	42.303	110.4	111.1	111.5	0.9	0.5	0.2	0.4	0.5
Personal consumption less foods, energy, and distributive services ⁷	04/14	1				1	0.2	0.4		
Personal consumption less foods, energy, and distributive services Personal consumption goods plus personal consumption distributive	04/14	40.451	110.6	111.6	111.7	0.5	U. I	0.4	0.3	0.2
services ⁷	08/13	32.210	104.2	105.9	106.4	-0.3	0.5	-0.8	0.7	0.6
				. 50.0		3.0	3.0			

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 April 2020 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 Aug. from:		onally adj	
	base	Dec. 2019 ²	Apr. 2020 ³	July 2020 ³	Aug. 2020 ³	Aug. 2019	July 2020	May to June	June to July	July to Aug.
Processed goods										
Processed goods for intermediate demand	00/82	100.000	185.0	191.7	192.6	-2.6	0.5	0.9	1.5	0.6
Materials and components for manufacturing	1	45.302	177.8	178.4	179.2	-2.2	0.4	-0.1	0.5	0.5
Materials for manufacturing		27.486	104.5	105.2	106.0	-3.9	0.8	-0.2	0.9	0.9
Materials for food manufacturing	1	4.116	197.0	198.6	197.8	-0.1	-0.4	-7.2	-0.9	-0.3
Materials for nondurable manufacturing	1	12.764	192.7	194.6	197.1	-6.3	1.3	1.9	1.5	1.4
Materials for durable manufacturing	1	10.606	193.3	193.7	195.0	-2.4	0.7	0.5	1.0	0.6
Components for manufacturing Components for nondurable manufacturing	1	17.816 0.749	156.2 115.1	156.1 114.5	156.0 114.0	0.3 -1.2	-0.1 -0.4	0.1 -0.3	0.0 0.1	-0.1 -0.4
Components for durable manufacturing.		17.067	110.5	110.5	110.4	0.4	-0.1	0.0	0.0	-0.1
Materials and components for construction	00/82	9.176	252.9	255.1	257.2	2.3	0.8	0.6	0.5	0.9
Materials for construction		3.998	125.9	128.2	130.6	4.4	1.9	0.6	1.3	1.9
Components for construction		5.178	124.1	124.3	124.3	0.7	0.0	0.4	-0.1	0.1
Processed fuels and lubricants for intermediate demand	00/82	18.250	131.0	160.5	162.5	-9.6	1.2	7.2	7.4	1.7
Processed fuels and lubricants to manufacturing industries	00/82	4.574	161.5	181.5	183.4	-7.0	1.0	-0.2	4.7	1.1
Processed fuels and lubricants to nonmanufacturing industries	1	13.676	121.6	154.1	156.1	-10.5	1.3 0.2	10.2	8.5	1.9
Containers for intermediate demand	00/82	2.978 24.293	235.5 200.7	235.0 201.3	235.5 201.2	-0.5 0.2	0.2	-0.3 -0.7	0.2 0.1	0.2 0.0
Supplies to manufacturing industries.	1	2.956	198.9	197.6	197.1	-1.8	-0.3	-0.1	-0.1	-0.3
Supplies to nonmanufacturing industries.	1	21.337	199.4	200.3	200.2	0.5	0.0	-0.7	0.2	0.1
Supplies to nonmanufacturing industries, feeds	00/82	1.663	180.9	175.8	174.4	-1.0	-0.8	-2.1	-1.5	-0.2
Supplies to nonmanufacturing industries, other than feeds	00/82	19.674	202.8	204.3	204.3	0.5	0.0	-0.6	0.3	0.0
Unprocessed goods										
Unprocessed goods for intermediate demand	00/82	100.000	138.1	154.8	163.6	-9.0	5.7	3.1	-0.7	7.0
Unprocessed foodstuffs and feedstuffs	1	39.497	139.1	147.6	153.6	-5.0	4.1	-5.6	4.3	7.0
Unprocessed nonfood materials	1	60.503	130.5	152.5	162.8	-11.6	6.8	9.7	-4.0	7.0
Unprocessed nonfood materials except fuel.	00/82 00/82	43.921 41.986	163.8 147.3	199.9 182.0	209.2	-12.9 -13.7	4.7 4.9	19.2 20.4	-5.1 -5.4	4.9 5.2
Unprocessed nonfood materials except fuel to manufacturing industries Unprocessed nonfood materials except fuel to nonmanufacturing					191.0					
industries.	00/82	1.935	278.9	279.7	280.3	3.9	0.2	0.3	-0.1	0.6
Unprocessed fuel. Unprocessed fuel to manufacturing industries	1	16.582 0.636	77.7 128.3	80.9 130.2	91.4 137.5	-7.8 -6.8	13.0 5.6	-11.5 -5.6	-0.7 -0.1	13.1 5.8
Unprocessed fuel to maintacturing industries.	1	15.946	77.8	81.0	91.8	-7.8	13.3	-11.7	-0.9	13.4
Services										
Services for intermediate demand.		100.000	120.2	120.5	121.5	-0.6	0.8	0.2	0.7	0.7
Trade services for intermediate demand ⁴	12/12	19.137 9.445	127.7 115.1	129.4 116.6	130.8 117.2	3.6 2.4	1.1 0.5	-0.5 -0.7	1.1 0.9	1.2 0.4
Trade services for manufacturing industries.	1	9.692	115.1	116.6	117.2	4.9	1.7	-0.7	1.4	1.7
Transportation and warehousing services for intermediate demand	127.12	12.260	127.1	126.8	126.3	-2.5	-0.4	-0.2	-0.4	-0.1
Transportation of passengers for intermediate demand		1.212	99.1	105.2	99.4	-16.5	-5.5	4.7	-6.8	-3.2
Transportation of passengers for manufacturing industries		0.202	98.5	104.7	98.8	-17.0	-5.6	4.8	-7.0	-3.2
Transportation of passengers for nonmanufacturing industries		1.010	99.2	105.3	99.6	-16.4	-5.4	4.7	-6.8	-3.2
Transportation and warehousing of goods for intermediate demand		11.048	130.1	129.0	129.1	-1.1	0.1	-0.5	0.2	0.2
Transportation and warehousing of goods for manufacturing industries Transportation and warehousing of goods for nonmanufacturing		1.684	107.5	107.0	107.8	-0.7	0.7	-0.4	1.1	0.8
industries	12/12	9.364	116.3	115.2	115.2	-1.1	0.0	-0.7	0.1	0.1
demand		68.603	116.9	117.1	118.2	-1.3	0.9	0.4	8.0	0.9
industries. Services less trade, transportation, and warehousing for nonmanufacturing		2.325	111.3	111.0	111.2	1.0	0.2	-0.1	0.1	0.1
industries		66.278	117.1	117.2	118.4	-1.4	1.0	0.5	0.7	0.9
Construction		100.000	110.4	110.5	110.0	0.0	0.1	0.1	1.0	0.1
Construction for intermediate demand		100.000	119.4	119.5	119.6	-0.2	0.1	0.1	-1.2	0.1
Processed materials less foods and feeds.	00/82	91.260	184.3	191.5	192.6	-2.8	0.6	1.6	1.8	0.7
Processed foods and feeds.	00/82	8.740	193.0	191.5	192.6	0.2	-0.7	-5.5	-0.7	-0.5
Processed energy goods.	1	18.250	131.6	161.2	163.2	-9.6	1.2	7.2	7.4	1.7
Processed materials less energy.	00/82	81.750	196.3	197.1	197.7	-1.0	0.3	-0.2	0.4	0.4
Processed materials less foods and energy	00/82	73.010	196.3	197.0	197.8	-1.1	0.4	0.5	0.5	0.5
Intermediate distributive services ⁵	04/10	30.185	126.1	126.8	127.7	1.8	0.7	-0.6	0.8	0.8
Processed goods plus intermediate distributive services.	04/10	- 57.606	107.4	110.3	110.9	-1.3	0.5	0.5	1.3	0.6
Unprocessed materials less agricultural products	00/82	57.606	129.7	152.1	163.7	-11.5	7.6	9.6	-4.4	7.7

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

[Nov. 2009=100, unless otherwise indicated]

Grouping	Other index	Relative Impor- tance	Un	adjusted in	dex	Unadjuste change 2020		Seas	onally ad nt change	
	base	Dec. 2019 ²	Apr. 2020 ³	July 2020 ³	Aug. 2020 ³	Aug. 2019	July 2020	May to June	June to July	July to Aug.
Unprocessed energy materials ⁶	00/82	38.339	70.9	95.1	106.0	-21.7	11.5	16.8	-7.4	11.7
Unprocessed materials less energy	00/82	61.661	185.6	193.4	199.2	-1.2	3.0	-3.1	2.7	5.0
Unprocessed nonfood materials less energy ⁷	00/82	22.164	328.0	331.9	336.6	5.7	1.4	1.1	0.3	1.7

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

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

³ The indexes for April 2020 have been recalculated to incorporate late reports and corrections by respondents. All indexes are subject to revision 4 months after original publication.

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

⁵ Includes intermediate trade, transportation, and warehousing services.

⁶ Includes crude petroleum.

⁷ Excludes crude petroleum.

[&]quot;-" Data not available.

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

Grouping	Other	Relative Impor- tance	Ur	nadjusted in	dex	change to	ed percent Aug. 2020 om:		onally adj	
	base	Dec. 2019 ²	Apr. 2020 ³	July 2020 ³	Aug. 2020 ³	Aug. 2019	July 2020	May to June	June to July	July to Aug.
Stage 4										
Stage 4 intermediate demand		100.000	116.8	118.9	119.5	0.0	0.5	0.3	1.0	0.5
Inputs to stage 4 goods producers		30.489	114.0	115.2	115.2	-0.2	0.0	-0.2	0.4	0.1
Goods		22.493	110.8	111.6	111.5	-0.7	-0.1	-0.2	0.3	0.1
FoodsEnergy		2.649 1.056	109.0 103.3	112.2 113.8	111.0 114.4	0.2 -2.9	-1.1 0.5	-3.1 3.3	0.9 1.3	-0.4 0.5
Goods excluding foods and energy		18.788	111.3	111.2	111.2	-0.7	0.0	0.1	0.2	0.0
Services		7.996	124.5	126.8	127.1	1.5	0.2	-0.6	1.1	0.2
Trade services		6.415	128.5	131.4	131.8	1.9	0.3	-0.6	1.3	0.3
Transportation and warehousing services		0.238	113.6	115.3	114.1	-7.1	-1.0	1.3	-1.3	-0.2
Transportation of passengers		0.089	98.5	104.7	98.8	-17.0	-5.6	4.8	-7.0	-3.2
Transportation and warehousing of goods		0.149 1.343	122.2 112.4	121.2 112.3	122.9 112.6	-1.4 1.2	1.4 0.3	-0.5 -0.3	1.8 0.2	1.4 0.4
Inputs to stage 4 services producers		50.208	119.0	121.0	121.7	-0.2	0.6	0.3	1.0	0.4
Goods		13.251	113.9	117.8	117.7	0.4	-0.1	-0.8	1.0	0.1
Foods		2.883	118.4	123.5	122.1	1.2	-1.1	-6.4	0.2	-1.0
Energy		2.212	94.7	109.3	109.5	-2.4	0.2	4.2	4.8	0.4
Goods excluding foods and energy		8.156	120.7	121.0	121.2	1.1	0.2	0.2	0.2	0.3
Services		36.807	120.6	122.0	123.0	-0.4	0.8	0.8	1.0	0.7
Trade services Transportation and warehousing services		4.268 2.330	124.0 121.0	126.2 121.2	125.5 121.0	2.0 -2.8	-0.6 -0.2	0.2 0.1	0.6 -0.4	-0.6 0.2
Transportation of passengers		0.377	98.4	104.6	98.7	-16.9	-0.2 -5.6	4.8	-0.4 -7.0	-3.2
Transportation and warehousing of goods		1.953	125.4	124.5	125.5	-0.1	0.8	-0.7	0.7	0.9
Services less trade, transportation, and warehousing		30.209	119.8	121.1	122.4	-0.6	1.1	0.9	1.1	1.0
Construction		0.150	119.4	119.5	119.6	-0.2	0.1	0.1	-1.2	0.1
Inputs to stage 4 construction producers		19.303	115.5	119.1	120.4	0.8	1.1	1.3	1.9	1.3
Goods		13.188	113.3	118.1	119.1	-0.3	0.8	2.1	2.2	0.8
Energy Goods excluding foods and energy		1.637 11.551	49.7 124.9	76.2 125.7	78.3 126.5	-15.2 1.8	2.8 0.6	24.2 0.5	22.6 0.3	3.2 0.7
Services.		6.115	120.0	120.8	123.0	3.1	1.8	-0.3	1.4	1.8
Trade services		3.287	122.7	124.8	128.5	6.8	3.0	-0.7	2.2	3.0
Transportation and warehousing services		0.837	121.0	120.3	121.6	-1.9	1.1	-0.3	1.4	1.2
Transportation of passengers		0.043	102.1	107.5	102.4	-14.3	-4.7	4.1	-6.0	-2.7
Transportation and warehousing of goods		0.794	122.0	120.9	122.6	-1.3	1.4	-0.5	1.9	1.4
Services less trade, transportation, and warehousing		1.991	117.1	116.4	116.6	-0.8	0.2	0.1	0.0	0.2
Stage 3			40=0		4400					
Stage 3 intermediate demand		100.000 48.172	107.9 110.7	111.6 113.2	112.9 115.3	-3.8 -2.8	1.2 1.9	0.4 -1.6	1.7 2.1	1.4 2.5
Goods.		38.047	105.6	108.4	111.0	-3.9	2.4	-2.1	2.5	3.3
Foods.		11.760	102.5	110.2	118.0	-5.3	7.1	-9.2	6.8	10.0
Energy		1.866	82.5	91.5	93.0	-11.9	1.6	1.5	5.6	1.9
Goods excluding foods and energy		24.421	110.9	111.0	111.5	-2.6	0.5	0.9	0.5	0.5
Services		10.059	123.9	125.1	125.4	1.6	0.2	-0.3	0.6	0.1
Trade services.		8.279	124.2	125.7	125.9	1.9	0.2	-0.6	0.7	0.1
Transportation and warehousing services Transportation of passengers		0.633 0.032	124.9 104.0	123.1 109.2	123.6 104.3	-1.7 -13.5	0.4 -4.5	0.0 3.9	-0.4 -5.6	0.5 -2.6
Transportation and warehousing of goods		0.601	126.0	123.7	124.5	-13.5	0.6	-0.2	-0.2	0.6
Services less trade, transportation, and warehousing		1.147	113.5	114.8	114.9	1.0	0.1	1.2	0.3	0.2
Construction		0.066	119.4	119.5	119.6	-0.2	0.1	0.1	-1.2	0.1
Inputs to stage 3 services producers		49.739	106.8	111.1	111.6	-4.7	0.5	2.0	1.1	0.5
Goods.		10.367	65.0	84.2	83.2	-17.9	-1.2	11.4	5.6	-0.8
Foods		0.003 7.027	126.2 46.5	143.3 73.1	141.5 71.8	6.2 -25.7	-1.3 -1.8	10.7 20.8	3.6 9.2	-2.4 -1.1
Energy Goods excluding foods and energy		3.337	109.8	109.7	109.6	-0.5	-0.1	-0.1	0.1	-0.1
Services		38.296	119.7	119.2	120.1	-1.2	0.8	0.1	0.1	0.8
Trade services		3.486	141.0	141.5	146.0	4.7	3.2	-1.2	0.9	3.2
Transportation and warehousing services		8.434	134.9	133.4	132.7	-1.8	-0.5	-0.7	-0.5	-0.4
Transportation of passengers.		0.036	102.0	107.4	102.2	-14.7	-4.8	4.2	-6.1	-2.7
Transportation and warehousing of goods.		8.398	135.3	133.7	133.0	-1.8	-0.5	-0.8	-0.5	-0.4
Services less trade, transportation, and warehousing Construction		26.376 1.076	115.1 119.4	114.7 119.5	115.7 119.6	-1.8 -0.2	0.9 0.1	0.5 0.1	0.3 -1.2	0.8 0.1
Inputs to stage 3 construction producers.		2.090	87.5	102.5	105.9	-1.6	3.3	8.3	11.6	3.5
Goods		1.648	75.0	92.1	95.4	-3.8	3.6	12.0	14.9	3.7
Energy		1.011	48.8	72.8	76.8	-8.7	5.5	27.9	30.2	5.6
Goods excluding foods and energy		0.637	127.1	128.5	130.1	3.2	1.2	0.4	8.0	1.3
Services.		0.442	128.7	131.2	134.9	6.7	2.8	-0.5	2.3	2.9
Trade services Transportation and warehousing services		0.402 0.001	131.2 98.5	134.0 104.7	138.2 98.8	7.5 -17.0	3.1 -5.6	-0.5 4.8	2.7 -7.0	3.2 -3.2
portation and majoriousing solvious		0.001	55.5	104.7	50.0	''.0	5.0	1.0	7.0	5.2

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

[Nov. 2009=100, unless otherwise indicated]

Grouping	Other index	Relative Impor- tance	Ur	nadjusted in	dex	change to	ed percent Aug. 2020 om:		onally adj	
S. Capang	base	Dec. 2019 ²	Apr. 2020 ³	July 2020 ³	Aug. 2020 ³	Aug. 2019	July 2020	May to June	June to July	July to Aug.
Transportation of passengers		0.001	98.5	104.7	98.8	-17.0	-5.6	4.8	-7.0	-3.2
Services less trade, transportation, and warehousing		0.039	106.9	106.4	106.1	-0.7	-0.3	0.2	-0.5	-0.3
Stage 2										
Stage 2 intermediate demand	1	100.000	96.2	99.8	101.6	-3.3	1.8	1.9	0.0	1.8
Inputs to stage 2 goods producers		43.322 36.506	75.5 68.1	81.4 74.8	84.2 77.9	-8.5 -9.9	3.4 4.1	4.6 5.4	-1.5 -1.6	3.7 4.4
GoodsFoods	1	3.765	109.4	108.7	106.9	-3.1	-1.7	-0.7	-0.5	0.0
Energy	1	14.107	28.8	41.0	46.2	-22.5	12.7	18.5	-7.0	12.9
Goods excluding foods and energy		18.634	108.1	108.5	109.8	-2.5	1.2	0.8	0.9	1.1
Services	1	6.343	121.9	121.6	121.6	-0.9	0.0	-0.3	0.0	0.2
Trade services	1	0.444	136.2	131.4	132.4	3.9	0.8	-1.9	-0.4	0.8
Transportation and warehousing services.	1	3.628	139.6	139.5	139.0	-3.0	-0.4	-0.4	-0.1	-0.1
Transportation of passengers Transportation and warehousing of goods	1	0.284 3.344	100.5 141.8	106.4 141.2	100.8 141.1	-15.7 -2.0	-5.3 -0.1	4.5 -0.7	-6.5 0.4	-3.0 0.1
Services less trade, transportation, and warehousing		2.271	109.5	109.9	110.4	1.6	0.5	-0.1	0.4	0.5
Construction.		0.473	119.4	119.5	119.6	-0.2	0.1	0.1	-1.2	0.1
Inputs to stage 2 services producers		56.676	116.4	117.7	118.5	0.4	0.7	0.3	0.9	0.8
Goods		4.808	108.1	110.6	111.1	-0.3	0.5	0.8	1.6	0.5
Foods.		0.067	83.9	83.4	80.1	-10.7	-4.0	3.0	3.7	-2.7
Energy.	1	0.413 4.328	71.8	93.6 112.6	95.7	-8.9 0.7	2.2	13.9 0.0	15.3 0.5	2.6 0.4
Goods excluding foods and energy Services	1	50.364	111.9 117.2	118.4	113.0 119.3	0.7	0.4 0.8	0.0	0.5	0.4
Trade services.		1.109	128.5	132.0	137.5	10.5	4.2	-0.6	3.9	4.6
Transportation and warehousing services	1	6.613	122.2	122.6	121.7	-2.4	-0.7	0.3	-0.8	-0.2
Transportation of passengers		1.044	99.0	105.1	99.4	-16.6	-5.4	4.8	-6.9	-3.1
Transportation and warehousing of goods	1	5.569	126.9	126.3	126.4	0.2	0.1	-0.4	0.2	0.2
Services less trade, transportation, and warehousing		42.642	116.9	118.1	119.1	0.7	0.8	0.3	1.0	0.8
Construction.		1.504	119.4	119.5	119.6	-0.2	0.1	0.1	-1.2	0.1
Stage 1										
Stage 1 intermediate demand.		100.000 45.339	106.3 99.9	109.5 102.9	110.5 103.8	-3.2 -3.4	0.9 0.9	1.7 1.9	1.4 0.8	1.0 0.9
Inputs to stage 1 goods producers		34.533	99.9	97.0	98.1	-3.4	1.1	2.7	1.0	1.2
Foods		2.709	104.4	103.2	100.8	-7.1	-2.3	-2.2	0.5	-1.3
Energy		6.096	66.6	81.7	85.2	-11.7	4.3	11.3	4.6	4.5
Goods excluding foods and energy		25.728	100.3	101.8	102.6	-2.8	0.8	1.6	0.4	1.0
Services		10.800	124.1	123.8	123.6	0.6	-0.2	-0.5	0.1	-0.2
Trade services.	1	7.871	130.4	130.1	130.2	2.3	0.1	-0.6	0.2	-0.1 0.3
Transportation and warehousing services		1.325 0.236	119.4 98.5	119.7 104.7	119.6 98.8	-4.6 -17.0	-0.1 -5.6	0.3 4.8	0.0 -7.0	-3.2
Transportation and warehousing of goods	1	1.089	123.5	122.5	123.6	-2.1	0.9	-0.5	1.3	0.9
Services less trade, transportation, and warehousing	1	1.604	101.2	100.8	99.5	-3.2	-1.3	-0.6	-0.1	-1.3
Construction		0.006	119.4	119.5	119.6	-0.2	0.1	0.1	-1.2	0.1
Inputs to stage 1 services producers		47.556	111.2	114.7	115.9	-3.7	1.0	1.8	2.1	1.1
Goods		15.313	93.0	104.1	105.4	-2.9	1.2	5.1	6.9	1.3
Foods		0.089 7.780	95.8 73.9	96.0 94.7	94.6 97.0	5.8 -6.1	-1.5 2.4	0.0 12.5	0.2 14.8	-1.5 2.6
Goods excluding foods and energy		7.760	116.9	117.0	117.2	0.1	0.2	0.2	0.3	0.3
Services	1	32.238	120.5	119.9	121.0	-4.1	0.9	0.5	0.0	0.8
Trade services		4.567	127.2	127.6	130.3	4.1	2.1	-1.0	8.0	2.1
Transportation and warehousing services		2.649	114.2	117.8	113.4	-12.0	-3.7	2.5	-4.4	-2.2
Transportation of passengers	1	1.681	98.4	104.6	98.7	-17.0	-5.6	4.8	-6.9	-3.3
Transportation and warehousing of goods Services less trade, transportation, and warehousing	1	0.968 25.022	132.3 120.0	130.8 118.8	129.5 120.2	-3.7 -4.8	-1.0 1.2	-1.1 0.6	-0.2 0.3	-0.8 0.9
Construction.	1	0.005	119.4	119.5	119.6	-0.2	0.1	0.0	-1.2	0.3
Inputs to stage 1 construction producers.		7.104	117.9	120.9	122.3	1.3	1.2	0.8	1.5	1.2
Goods		4.710	114.4	118.1	118.7	-0.8	0.5	1.6	1.4	0.6
Energy		0.485	51.8	76.7	77.0	-20.3	0.4	18.8	14.7	1.1
Goods excluding foods and energy		4.225	124.9	125.4	126.1	1.5	0.6	0.4	0.3	0.6
Services.		2.394	124.8	126.4	129.3	5.4	2.3	-0.3 -0.6	1.7	2.5
Trade services Transportation and warehousing services	1	1.741 0.096	127.3 105.7	129.7 106.6	133.9 105.1	7.9 -7.3	3.2 -1.4	-0.6 0.7	2.4 -1.7	3.5 -0.8
Transportation of passengers	1	0.030	98.5	100.0	98.8	-17.0	-5.6	4.8	-7.0	-3.2
Transportation and warehousing of goods	1	0.071	109.1	108.3	108.1	-4.2	-0.2	-0.5	0.1	-0.1
Services less trade, transportation, and warehousing		0.557	118.0	117.7	117.7	0.0	0.0	0.2	0.0	0.0
Special groupings										
Total goods inputs to stage 4 intermediate demand	04/10	48.932	109.6	112.2	112.4	-0.3	0.2	0.3	0.9	0.3

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

[Nov. 2009=100, unless otherwise indicated]

Grouping	Other index	Relative Impor- tance	Un	nadjusted inc	dex	change to	ed percent Aug. 2020 m:		onally ad	
	base	Dec. 2019 ²	Apr. 2020 ³	July 2020 ³	Aug. 2020 ³	Aug. 2019	July 2020	May to June	June to July	July to Aug.
Total services inputs to stage 4 intermediate demand	04/10	50.918	120.6	122.0	123.0	0.2	0.8	0.5	1.0	0.8
Total construction inputs to stage 4 intermediate demand	04/10	0.150	118.4	118.6	118.6	-0.2	0.0	0.1	-1.2	0.0
Total foods inputs to stage 4 intermediate demand	04/10	5.532	110.8	114.8	113.6	0.7	-1.0	-4.9	0.5	-0.7
Total energy goods inputs to stage 4 intermediate demand	04/10	4.905	75.8	92.8	93.7	-6.6	1.0	8.2	8.3	1.2
Total goods less foods and energy inputs to stage 4 intermediate demand	04/10	38.495	115.3	115.6	115.8	0.3	0.2	0.3	0.2	0.3
Total goods inputs to stage 3 intermediate demand	04/10	50.062	89.8	96.8	98.4	-7.1	1.7	0.8	3.5	2.5
Total services inputs to stage 3 intermediate demand	04/10	48.797	119.2	119.1	119.8	-0.6	0.6	0.0	0.3	0.7
Total construction inputs to stage 3 intermediate demand	04/10	1.142	118.4	118.6	118.6	-0.2	0.0	0.1	-1.2	0.0
Total foods inputs to stage 3 intermediate demand	04/10	11.763	91.3	98.1	105.1	-5.3	7.1	-9.2	6.8	10.0
Total energy goods inputs to stage 3 intermediate demand	04/10	9.904	51.1	73.4	73.1	-21.6	-0.4	16.4	10.2	0.1
Total goods less foods and energy inputs to stage 3 intermediate demand	04/10	28.395	106.1	106.2	106.7	-2.2	0.5	0.8	0.5	0.6
Total goods inputs to stage 2 intermediate demand	04/10	41.314	68.5	74.5	77.2	-8.9	3.6	4.9	-1.2	3.9
Total services inputs to stage 2 intermediate demand	04/10	56.707	118.5	119.5	120.3	0.4	0.7	0.3	0.8	0.7
Total construction inputs to stage 2 intermediate demand	04/10	1.977	118.4	118.6	118.6	-0.2	0.0	0.1	-1.2	0.0
Total foods inputs to stage 2 intermediate demand	04/10	3.832	109.7	109.0	107.2	-3.2	-1.7	-0.7	-0.3	-0.1
Total energy goods inputs to stage 2 intermediate demand	04/10	14.520	28.8	40.9	45.9	-21.9	12.2	18.5	-6.2	12.2
Total goods less foods and energy inputs to stage 2 intermediate demand	04/10	22.962	102.6	103.0	104.0	-2.0	1.0	0.7	0.9	1.0
Total goods inputs to stage 1 intermediate demand	04/10	54.556	85.1	90.3	91.3	-3.9	1.1	3.2	2.6	1.2
Total services inputs to stage 1 intermediate demand	04/10	45.432	120.6	120.2	121.1	-2.6	0.7	0.3	0.1	0.8
Total construction inputs to stage 1 intermediate demand	04/10	0.011	118.4	118.6	118.6	-0.2	0.0	0.1	-1.2	0.0
Total foods inputs to stage 1 intermediate demand	04/10	2.798	98.2	97.2	95.0	-6.6	-2.3	-2.1	0.5	-1.3
Total energy goods inputs to stage 1 intermediate demand	04/10	14.361	66.9	84.6	87.2	-9.0	3.1	12.1	10.4	3.3
Total goods less foods and energy inputs to stage 1 intermediate demand	04/10	37.397	89.6	90.5	91.1	-1.8	0.7	1.1	0.3	0.8

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 April 2020 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 code	Other index	Un	adjusted in	dex	change	ed percent to Aug. from:		onally adj nt change	
	code	base	Apr. 2020 ²	July 2020 ²	Aug. 2020 ²	Aug. 2019	July 2020	May to June	June to July	July to Aug.
Final demand		11/09	116.7	118.2	118.6	-0.2	0.3	-0.2	0.6	0.3
Final demand goods		11/09	110.3	113.9	113.8	-1.6	-0.1	0.2	8.0	0.1
Final demand foods		11/09	118.6	119.3	118.6	0.2	-0.6	-5.2	-0.5	-0.4
Fresh fruits and melons ³			118.6	148.0	141.8	14.3	-4.2	6.1	4.6	-4.2
Fresh and dry vegetables ³			210.9	222.3	224.3	3.1	0.9	11.9	-6.9	0.9
Grains Eggs for fresh use ³	1	12/91	134.4 221.0	133.5 113.6	126.8 102.3	-12.8 -1.1	-5.0 -9.9	3.8 -12.7	4.2 6.2	-3.7 -9.9
Oilseeds.		12/91	159.1	164.1	161.4	0.7	-1.6	-12.7	-2.8	2.2
Bakery products ³	1		294.3	293.4	293.5	0.7	0.0	0.0	-0.5	0.0
Milled rice ³			217.4	227.8	227.6	10.5	-0.1	1.3	1.4	-0.1
Pasta products		06/85	205.4	202.5	209.6	2.4	3.5	1.2	-0.2	2.4
Beef and veal	. 02-21-01		220.8	190.8	186.3	-9.9	-2.4	-44.5	-7.4	-1.5
Pork	. 02-21-04		140.3	144.8	144.4	-3.0	-0.3	-15.2	-3.5	2.2
Processed young chickens			150.6	158.6	158.8	-4.0	0.1	-8.4	-2.7	1.4
Processed turkeys			143.8	144.1	144.6	-2.6	0.3	0.3	-1.6	0.6
Finfish and shellfish ³	1		337.6	358.2	353.5	6.7	-1.3	-0.7	8.1	-1.3
Dairy products			191.3	208.5	209.2	2.3	0.3	6.6	4.0	-0.4
Processed fruits and vegetables ³			210.4 282.4	212.7 281.1	212.7 278.6	1.6 -2.5	0.0 -0.9	0.1 -0.8	-0.1 0.3	0.0 -0.9
Soft drinks ³			282.4	281.1	218.0	-2.5 2.7	-0.9 0.5	-0.8	-0.6	-0.9 0.5
Roasted coffee ³			193.4	194.7	194.7	-0.1	0.0	-0.5	0.2	0.0
Shortening and cooking oils ³			237.2	239.4	242.6	2.1	1.3	2.2	-0.7	1.3
Frozen specialty food ³			182.3	188.6	187.3	0.5	-0.7	-1.3	1.9	-0.7
Final demand energy		11/09	75.7	94.1	93.6	-12.4	-0.5	7.7	5.3	-0.1
Liquefied petroleum gas ³			42.5	94.7	101.3	3.2	7.0	21.6	2.4	7.0
Residential electric power	. 05-41	12/90	178.8	186.3	186.1	-1.4	-0.1	-0.4	0.7	0.1
Residential natural gas	. 05-51	12/90	198.2	197.2	200.1	0.5	1.5	0.4	-1.3	0.5
Gasoline			62.6	136.6	132.9	-29.7	-2.7	26.3	10.1	-1.4
Home heating oil and distillates			83.8	165.1	104.5	-43.6	-36.7	53.3	56.1	-38.1
No. 2 diesel fuel	1	44/00	123.6	181.4	192.1	-7.3	5.9	28.0	31.3	6.1
Final demand goods less foods and energy		11/09	118.0	118.2	118.4	0.8	0.2	0.1	0.3	0.3
Alcoholic beverages ³			205.8 273.1	201.2 273.3	201.7 273.4	1.4 0.7	0.2 0.0	0.2 0.0	-1.0 0.1	0.2 0.0
Women's, girls', and infants' apparel ³	1	12/03	107.9	109.6	109.6	0.7	0.0	0.0	1.6	0.0
Men's and boys' apparel ³	1	12/03	118.2	118.5	118.4	0.3	-0.1	0.3	0.0	-0.1
Textile housefurnishings ³		12/00	168.6	168.2	168.5	0.0	0.2	0.0	-0.1	0.2
Footwear			210.1	209.8	209.9	0.0	0.0	0.0	-0.2	0.2
Industrial chemicals	. 06-1		211.0	217.6	219.5	-10.7	0.9	4.1	2.9	1.0
Pharmaceutical preparations	. 06-38	06/01	274.6	274.8	274.9	2.4	0.0	0.0	0.3	0.3
Soaps and detergents ³			183.3	183.8	183.9	0.7	0.1	0.1	0.2	0.1
Cleaning and polishing products ³	1	06/83	204.0	203.5	203.5	2.1	0.0	-0.2	-0.2	0.0
Cosmetics and other toiletries ³			167.9	167.9	167.9	0.7	0.0	0.0	0.0	0.0
Tires ³		40/00	149.8	149.5	149.5	1.0	0.0	-0.1	0.0	0.0
Consumer, institutional, and commercial products, n.e.c. ³		12/06	137.6 183.6	136.9 184.4	136.9 184.6	-0.9 0.5	0.0 0.1	-0.1 -0.3	-0.4 0.7	0.0 0.1
Iron and steel scrap ³			354.1	362.2	366.9	-10.6	1.3	-0.3	-4.3	1.3
Agricultural machinery and equipment.			242.5	243.0	242.4	2.2	-0.2	0.3	0.0	-0.1
Construction machinery and equipment			236.6	236.5	236.5	1.6	0.0	0.0	-0.2	-0.2
Metal cutting machine tools ³			206.4	207.8	207.9	1.9	0.0	0.1	0.6	0.0
Metal forming machine tools			242.6	240.5	240.5	1.2	0.0	0.3	-0.7	0.2
Tools, dies, jigs, fixtures, and industrial molds ³	. 11-39		154.6	153.8	153.7	-1.7	-0.1	0.0	-0.3	-0.1
Pumps, compressors, and equipment	. 11-41		270.6	268.9	269.6	1.2	0.3	0.0	-0.7	0.4
Industrial material handling equipment	1		229.0	228.9	228.9	1.3	0.0	0.1	0.0	-0.1
Electronic computers and computer equipment ³		12/98	25.7	25.7	25.7	-1.5	0.0	-0.8	8.0	0.0
Textile machinery and equipment ³		00/00	173.9	173.9	173.9	1.0	0.0	-0.1	0.0	0.0
Paper industries machinery ³ Printing trades machinery and equipment ³	. 11-64	06/82	229.0	229.0	229.3	0.4	0.1	0.2	0.0	0.1
Transformers and power regulators ³			165.5 232.4	165.3 233.9	165.1 234.7	0.5 1.2	-0.1 0.3	0.4 0.0	-0.2 1.1	-0.1 0.3
Communication and related equipment		12/85	119.7	119.9	119.9	2.7	0.0	0.0	0.3	0.3
Electronic components and accessories.		12/00	64.9	64.7	64.3	-1.8	-0.6	0.1	0.0	-0.6
X-ray and electromedical equipment ³			86.9	87.2	87.1	0.5	-0.1	0.0	0.5	-0.1
Oil field and gas field machinery ³			217.8	217.8	217.8	-1.1	0.0	0.0	0.0	0.0
Mining machinery and equipment ³			305.6	305.7	305.7	2.0	0.0	0.0	0.0	0.0
Office and store machines and equipment ³	. 11-93		121.8	120.8	120.8	-1.1	0.0	0.1	0.3	0.0
Household furniture ³			221.6	222.7	223.3	1.5	0.3	0.4	-0.4	0.3
Commercial furniture ³			239.6	240.4	239.0	1.9	-0.6	-0.3	8.0	-0.6
Floor coverings ³	12-3	1	198.2	196.7	196.9	-0.5	0.1	0.6	-0.6	0.1

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	Un	adjusted in	dex	change	ed percent to Aug. from:		onally adj nt change	
. 0	code	base	Apr. 2020 ²	July 2020 ²	Aug. 2020 ²	Aug. 2019	July 2020	May to June	June to July	July to Aug.
Household appliances ³			124.6	126.0	128.0	3.4	1.6	0.8	0.5	1.6
Home electronic equipment ³			52.9	53.1	53.1	2.3	0.0	0.0	0.6	0.0
Lawn and garden equipment excl. garden tractors ³	1		151.2	151.2	151.2	1.2	0.0	0.0	0.0	0.0
Passenger cars.			134.4	133.8	133.8	-0.1	0.0	-0.2	0.4	0.4
Light motor trucks			176.8 233.8	175.8 233.8	175.9 234.0	0.3 0.5	0.1 0.1	-0.3 0.3	0.6 -0.1	0.3 -0.1
Motor vehicles parts ³			127.8	127.7	127.7	0.6	0.0	0.0	0.0	0.0
Truck trailers ³			224.7	223.2	222.5	-2.0	-0.3	0.0	-0.7	-0.3
Travel trailers and campers	1	06/84	219.0	219.2	219.2	0.9	0.0	-0.1	0.2	-0.2
Aircraft	14-21		310.3	310.9	311.0	1.1	0.0	0.1	0.0	0.0
Ships ³	1	12/85	230.4	230.6	230.7	0.5	0.0	0.0	0.1	0.0
Railroad equipment ³			204.4	204.4	204.4	0.4	0.0	0.0	0.0	0.0
Toys, games, and children's vehicles ³	1		159.6	161.3	161.3	2.0	0.0	0.0	0.9	0.0
Sporting and athletic goods			145.6	145.6	145.9	1.8	0.2	0.3	0.0	0.1
Cigarettes ³			1,168.4 329.8	1,196.4 332.7	1,194.3 338.7	6.1 4.5	-0.2 1.8	0.0	2.4 0.6	-0.2 1.8
Medical, surgical & personal aid devices.			185.7	186.1	185.6	2.0	-0.3	0.0	0.0	-0.1
Jewelry, platinum and karat gold ³			242.7	249.7	260.3	10.6	4.2	0.6	2.9	4.2
Costume jewelry and novelties ³			202.6	202.7	204.4	4.1	0.8	0.0	0.1	0.8
Final demand services.		11/09	119.5	119.8	120.4	0.4	0.5	-0.3	0.5	0.5
Final demand trade services ⁴		11/09	122.3	121.3	122.8	1.6	1.2	-1.8	0.8	1.2
Machinery and equipment parts and supplies wholesaling ³		03/09	129.0	133.5	134.2	1.9	0.5	-0.8	2.1	0.5
Machinery and vehicle wholesaling ³		05/19	93.5	96.4	98.0	-0.7	1.7	-7.3	4.9	1.7
Professional and commercial equipment wholesaling ³	1	05/19	92.6	91.7	93.2	-6.5	1.6	1.5	-2.1	1.6
Furnishings wholesaling ³	1	03/09	103.0	104.9	99.8	-2.0	-4.9	-1.1	8.0	-4.9
Chemicals and allied products wholesaling ³		03/09	118.1	120.9	115.5	0.7	-4.5	2.7	-0.6	-4.5
Paper and plastics products wholesaling ³		03/09	142.9 122.9	141.3 123.2	140.2 120.2	5.8 -1.2	-0.8 -2.4	-0.6 1.4	-0.2 -3.0	-0.8 -2.4
Food and alcohol wholesaling ³		06/09	113.3	114.7	115.6	0.5	-2.4 0.8	-0.9	-3.0 0.5	0.8
Food and alcohol retailing.		03/09	139.9	137.0	139.7	3.6	2.0	-1.0	0.7	1.4
Health, beauty, and optical goods retailing ³		03/09	124.3	124.1	124.6	0.6	0.4	-0.4	0.2	0.4
Apparel, jewelry, footwear, and accessories retailing		06/09	111.6	100.2	101.7	-10.5	1.5	-7.1	-2.6	1.3
Computer hardware, software, and supplies retailing ³	58-4	03/09	99.1	99.7	98.7	3.5	-1.0	1.4	-1.3	-1.0
TV, video, and photographic equipment and supplies retailing ³	58-5	03/09	62.0	61.6	64.5	15.0	4.7	-6.0	16.4	4.7
Automobiles retailing (Partial)	1	03/09	69.7	93.7	104.7	34.6	11.7	12.2	20.5	10.6
Automotive parts, including tires, retailing ³		03/09	114.1	114.6	115.3	0.6	0.6	-0.9	1.8	0.6
RVs, trailers, and campers retailing ³		03/09	96.3	103.0	127.5	20.3	23.8	2.3	0.6	23.8
Sporting goods, including boats, retailing ³ Lawn, garden, and farm equipment and supplies retailing ³		03/09	117.1	119.5	119.8	2.2	0.3	-0.7	3.4	0.3
Furniture retailing ³		03/09	112.2 104.7	113.0 111.6	112.3 110.5	2.0 6.4	-0.6 -1.0	-0.3 0.8	0.1 5.5	-0.6 -1.0
Flooring and floor coverings retailing ³		03/09	100.4	98.5	101.2	-1.1	2.7	0.0	-1.8	2.7
Hardware, building materials, and supplies retailing		03/09	128.3	135.1	143.6	15.7	6.3	-0.2	5.8	6.8
Major household appliances retailing		03/09	102.0	104.7	103.8	8.5	-0.9	-1.1	5.9	0.1
Fuels and lubricants retailing ³		06/09	286.9	217.4	210.7	9.3	-3.1	-9.4	-5.1	-3.1
Cleaning supplies and paper products retailing ³	58-G	03/09	145.0	141.1	139.8	-6.2	-0.9	-1.7	-1.8	-0.9
Book retailing ³		03/09	117.1	129.3	128.8	9.4	-0.4	4.3	5.5	-0.4
Final demand transportation and warehousing services	1	11/09	118.3	119.5	118.8	-5.2	-0.6	0.9	-0.8	0.2
Rail transportation of freight and mail ³		12/08	128.9	126.6	127.4	-1.1	0.6	-0.2	-0.2	0.6
Truck transportation of freight ³		06/09	123.2	122.2	124.1	-1.0	1.6	-0.5	2.2	1.6
Air transportation of freight ³		12/08 06/09	111.5 150.2	116.3 150.5	116.9	6.3 2.9	0.5 0.2	0.1	4.3 0.3	0.5 0.5
Rail transportation of passengers		12/08	150.2	150.5 127.8	150.8 127.6	2.9	-0.2	0.5	0.3	0.5
Airline passenger services.		12/08	96.8	102.9	97.1	-16.9	-0.2 -5.6	4.8	-7.0	-3.3
Final demand services less trade, transportation, and warehousing	1	11/09	118.3	119.2	119.6	0.6	0.3	0.3	0.4	0.3
Sales of books ³	1		404.9	400.7	399.4	2.0	-0.3	0.3	-1.7	-0.3
Sales and subscriptions of periodicals and newspapers ³	1	06/09	138.0	146.1	144.9	15.8	-0.8	0.3	5.5	-0.8
Application software publishing ³	34-2	06/09	102.1	102.8	102.4	-0.8	-0.4	0.9	-0.1	-0.4
Advertising space sales in periodicals, newspapers, directories, and mailing lists ³	36-1	06/09	100.0	98.9	99.5	-1.5	0.6	0.2	0.3	0.6
Residential wired telecommunication services		06/09	144.4	144.4	142.1	2.5	-1.6	-0.3	-0.2	-1.5
Wireless telecommunication services		06/09	65.3	64.0	63.7	-2.9	-0.5	-0.3	0.3	-0.9
Cable and satellite subscriber services ³		12/08	138.5	138.8	138.7	2.1	-0.1	0.0	0.1	-0.1
Internet access services ³	37-4	03/09	93.1	92.2	92.3	-1.3	0.1	0.0	-0.8	0.1
Bundled wired telecommunications access services ³		12/11	115.1	115.1	115.1	5.6	0.0	0.0	-0.1	0.0
Consumer loans (partial)		06/09 04/09	114.1 61.7	108.1 60.5	108.5 61.3	-7.3 -8.4	0.4 1.3	0.7 -4.2	0.2 2.0	-1.3 1.3
Other credit intermediation, incl. trust services (partial) ³	1	04/09	105.9	60.5 99.5	61.3 99.5	-8.4 -8.0	0.0	-4.2	-0.1	0.0
				33.3	33.0		UU			

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	ed percent to Aug. from:		onally adj	
C. Cap.ii.g	code	base	Apr. 2020 ²	July 2020 ²	Aug. 2020 ²	Aug. 2019	July 2020	May to June	June to July	July to Aug.
Securities brokerage, dealing, investment advice, and related									•	
services ³	40-1	06/09	141.5	135.3	142.0	-13.1	5.0	2.3	1.9	5.0
Portfolio management ³	40-2	12/08	205.5	230.9	236.5	7.1	2.4	2.2	7.8	2.4
Life insurance ³		03/09	105.2	105.5	105.2	0.7	-0.3	0.0	0.3	-0.3
Disability insurance, including accidental death ³	41-11-02	03/09	103.9	103.9	103.9	-0.1	0.0	0.0	0.0	0.0
Health and medical insurance	41-11-03	03/09	139.3	139.3	139.3	2.7	0.0	0.4	0.0	0.1
Property and casualty insurance ³	41-11-04	03/09	125.3	125.7	125.7	0.6	0.0	0.0	0.1	0.0
Annuities ³	41-2	03/09	118.1	118.5	116.6	-1.2	-1.6	0.4	0.3	-1.6
Residential property sales and leases, brokerage fees and commissions.	43-21	12/08	148.7	152.4	153.1	3.9	0.5	-0.3	1.3	0.2
Passenger car rental.	44-1	03/09	67.1	86.3	87.4	-3.9	1.3	12.0	-0.4	2.8
Legal services.	45-1	03/09	140.4	142.5	142.7	5.2	0.1	0.0	1.9	0.3
Tax preparation and planning	-	04/09	119.3	113.7	115.2	-0.9	1.3	-0.3	-5.8	1.9
Architectural and engineering services ³		06/09	118.0	117.7	117.8	0.1	0.1	0.2	0.0	0.
Management, scientific, and technical consulting services	45-4	06/09	97.8	96.8	97.8	-6.2	1.0	-0.8	-0.4	1.1
Arrangement of flights (partial) ³	47-1	06/09	98.1	96.5	98.6	-8.8	2.2	1.7	-1.4	2.2
Arrangement of vehicle rentals and lodging ³	47-2	12/08	76.4	86.6	81.4	-4.7	-6.0	0.4	5.5	-6.0
Arrangement of cruises and tours ³	47-3	12/08	102.2	53.1	72.3	-43.7	36.2	-26.0	-14.4	36.2
Physician care	51-11-01	03/09	110.8	111.3	112.2	1.8	0.8	0.5	0.4	0.8
Medical laboratory and diagnostic imaging care ³	51-11-02	03/09	95.2	95.2	95.4	-0.1	0.2	0.3	-0.3	0.2
Home health and hospice care ³	1	12/08	114.4	115.6	115.5	2.9	-0.1	0.4	0.4	-0.
Hospital outpatient care.		12/08	134.0	134.6	135.1	2.5	0.4	0.4	0.4	0.2
Dental care	-	06/10	117.6	121.6	121.3	4.2	-0.2	-3.7	1.1	-0.2
Hospital inpatient care.		12/08	132.4	133.9	134.0	3.3	0.1	0.8	0.1	-0.1
Nursing home care	51-21-02	12/08	130.4	131.7	132.6	4.7	0.7	0.3	0.5	0.7
Traveler accommodation services	53-11	06/09	98.6	103.3	103.0	-19.7	-0.3	2.4	-3.2	2.6
Food and beverages for immediate consumption services (partial) ³	54-1	06/09	120.7	121.5	119.8	-0.4	-1.4	1.9	0.9	-1.4
Motor vehicle repair and maintenance (partial)	55-2	12/08	141.1	141.6	141.8	2.1	0.1	-0.1	0.3	0.7
Membership dues and admissions and recreation facility use fees										
(partial)	56-1	06/09	125.7	125.1	123.0	-1.3	-1.7	-0.2	8.0	-1.4
Recreational activity instruction fees (partial) ³	56-2	12/08	123.1	123.1	123.1	2.4	0.0	0.0	-0.2	0.0
Gaming receipts (partial) ³	56-3	12/08	108.2	_	112.6	-1.8	_	_	_	_
Mining services ³	60-1	06/85	222.8	220.9	218.4	-5.5	-1.1	-0.5	-0.3	-1.1
nal demand construction		11/09	130.3	130.7	130.4	1.8	-0.2	-0.3	0.6	-0.2
New warehouse building construction ³	80-11-01	12/04	162.7	162.0	161.7	0.4	-0.2	0.0	0.3	-0.2
New school building construction ³	80-11-02	12/05	174.5	174.8	175.1	2.2	0.2	-0.6	0.6	0.2
New office building construction ³	80-11-03	06/06	145.9	146.6	146.0	1.7	-0.4	-0.6	1.0	-0.4
New industrial building construction ³	80-11-04	06/07	139.8	140.7	140.7	3.2	0.0	-0.1	8.0	0.0
New health care building construction ³	80-11-05	06/12	119.7	120.3	119.2	1.5	-0.9	0.0	0.8	-0.9

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

¹ Further information about the Final Demand-Intermediate Demand Aggregation system is available online at https://www.bls.gov/ppi/fdidaggregation.htm ² The indexes for April 2020 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 index	Un	nadjusted in	dex	change to	ed percent Aug. 2020 om:		onally ad	
Стостринд	code	base	Apr. 2020 ²	July 2020 ²	Aug. 2020 ²	Aug. 2019	July 2020	May to June	June to July	July to Aug.
Processed goods for intermediate demand			185.0	191.7	192.6	-2.6	0.5	0.9	1.5	0.6
Processed foods and feeds			193.0	194.8	193.5	0.2	-0.7	-5.5	-0.7	-0.5
	02-21		185.9	177.6	175.3	-5.0	-1.3	-27.7	-8.0	-0.1
Processed poultry			153.2	156.6	154.9	0.8	-1.1	-1.5	-0.3	0.7
Dairy products Processed fruits and vegetables ³			191.3 210.4	208.5 212.7	209.2 212.7	2.3 1.6	0.3 0.0	6.6 0.1	4.0 -0.1	-0.4 0.0
Refined sugar and byproducts ³			182.4	183.3	184.2	5.0	0.5	-0.1	0.1	0.0
Fats and oils ³			236.9	237.7	241.5	2.7	1.6	2.2	-0.8	1.6
	02-9		192.3	188.3	187.3	-0.5	-0.5	-1.2	-0.7	-0.4
Processed materials less foods and feeds			184.3	191.5	192.6	-2.8	0.6	1.6	1.8	0.7
,	03-1		127.7	127.6	126.9	-3.9	-0.5	-0.5	0.6	-0.5
,	03-2		137.2	135.9	136.1	-3.3	0.1	-0.8	0.1	0.1
_	03-4		161.5	162.6	162.7	0.8	0.1	0.2	0.5	0.1
	05-32		42.5	94.7	101.3	3.2	7.0	21.6	2.4	7.0
·	05-42		191.7	211.7	210.9	0.7	-0.4	1.5	2.1	-0.1
·	05-43 05-52	12/90	233.0 180.7	253.1 178.1	253.2 182.3	-1.5 -3.3	0.0 2.4	2.4 0.6	-0.6 -1.1	0.2 0.8
S .	05-52	12/90	131.6	126.7	133.0	-3.8	5.0	-0.4	-3.1	5.9
9	05-54	12/90	122.4	119.9	130.6	-4.7	8.9	-3.3	-3.8	11.4
· ·	05-71		62.6	136.6	132.9	-29.7	-2.7	26.3	10.1	-1.4
Jet fuel ³	05-72-03		74.6	121.2	123.0	-39.0	1.5	47.0	15.0	1.5
No. 2 diesel fuel	05-73-03		123.6	181.4	192.1	-7.3	5.9	28.0	31.3	6.1
	05-74		72.1	93.3	102.8	-35.9	10.2	90.4	42.9	10.2
	05-76		439.1	433.4	434.4	-0.8	0.2	-0.1	-0.7	0.2
S .	05-78	06/09	76.9	83.5	86.2	-29.4	3.2	-41.7	24.1	3.2
'	05-81-02	06/85	147.9	158.0	167.7	-31.8	6.1	8.5	4.7	7.2
ů .	06-13 06-14		268.3 202.7	272.6 209.6	270.9 212.1	-2.8 -12.1	-0.6 1.2	-0.8 5.2	0.9 3.4	-0.6 1.3
	06-14		305.1	306.5	306.4	2.1	0.0	0.2	0.7	0.0
· · · ·	06-22		266.0	265.7	265.7	1.2	0.0	0.1	0.2	0.0
	06-31		179.3	179.3	182.2	0.1	1.6	-3.3	0.0	1.6
Biological products, including diagnostics	06-37		279.9	281.5	282.1	1.8	0.2	0.1	0.5	0.1
Fats and oils, inedible	06-4		190.6	192.3	199.6	3.0	3.8	4.2	2.2	5.0
Nitrogenates	06-52-01		247.8	234.2	230.8	-8.7	-1.5	-2.1	-0.8	2.9
·	06-52-02		163.5	165.5	167.3	-7.7	1.1	5.7	1.3	1.3
9	06-53		192.0	195.3	195.3	-1.6	0.0	1.2	1.9	0.0
	06-6 06-79-03		207.9 275.8	207.3 273.3	215.6	-4.0	4.0 -2.2	2.0 -0.4	1.7 0.0	4.0 -2.2
9	06-79-03	12/83	269.5	273.3 269.5	267.3 270.0	-5.6 1.0	0.2	0.0	-0.3	0.2
	07-11-02	12/03	191.1	184.1	184.8	-9.8	0.4	-0.5	-0.3	0.2
	07-12-01		149.8	149.5	149.5	1.0	0.0	-0.1	0.0	0.0
	07-21		230.9	230.5	232.4	1.3	0.8	-0.5	0.6	0.8
· · · · · · · · · · · · · · · · · · ·	07-22		220.2	218.4	216.1	-2.9	-1.1	-0.9	0.8	-1.1
Parts for manufacturing from plastics ³	07-26		153.3	152.6	152.0	-0.8	-0.4	-0.1	-0.3	-0.4
Plastic packaging products ³	07-2A	12/06	113.7	111.8	110.9	-4.5	-0.8	-0.3	-1.1	-0.8
	08-11		212.3	269.4	312.4	45.0	16.0	12.9	11.0	14.9
Hardwood lumber ³			203.9	202.1	202.3	-3.9	0.1	-0.9	0.3	0.1
Millwork			268.1	270.9	275.8	4.8	1.8	-0.2	1.1	2.0
Plywood ³ Paper ³			202.0 193.7	216.5 194.4	239.4 194.3	23.0 -3.2	10.6 -0.1	0.6 0.3	9.7 0.4	10.6 -0.1
	09-13		255.0	256.1	256.3	-3.2	0.1	0.3	0.4	0.1
,	09-14-03		268.0	267.4	268.3	-0.5	0.3	-0.4	0.2	0.1
·	09-2		206.9	229.9	252.9	30.2	10.0	4.7	6.1	10.0
Commercial printing ³	09-47	06/82	178.5	178.0	178.2	0.3	0.1	-0.8	0.3	0.1
	10-15		212.2	212.2	212.4	0.5	0.1	0.0	0.1	0.1
Steel mill products ³			187.4	179.9	176.9	-10.7	-1.7	-1.0	-0.6	-1.7
	10-22		176.5	188.7	191.8	5.0	1.6	3.7	3.6	1.6
Secondary nonferrous metals ³			241.7	249.6	253.4	6.1	1.5	1.2	3.1	1.5
Aluminum mill shapes ³			177.9 361.7	173.1 403.6	176.1 416.6	-9.8 7.9	1.7 3.2	-0.4 3.7	1.8 7.3	1.7 3.2
Nonferrous wire and cable ³			238.5	403.6 242.6	416.6 248.2	1.1	3.2 2.3	-0.5	7.3 1.2	2.3
Nonferrous foundry shop products.			236.5	211.6	246.2	-0.5	0.4	0.0	0.5	0.5
Metal containers ³			162.8	162.8	162.6	-0.1	-0.1	-0.4	0.4	-0.1
Hardware ³	10-4		227.6	227.1	227.8	1.7	0.3	0.0	0.0	0.3
		ı				1		l .		0.3
Plumbing fixtures and brass fittings	10-5		287.8	286.6	286.6	1.5	0.0	-2.5	2.2	0.0
			287.8 283.8	286.6	285.1	1.5	0.0	0.1	-0.2	0.5

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	adjusted in	dex	change to	ed percent Aug. 2020 om:		onally adj nt change	
	code	base	Apr. 2020 ²	July 2020 ²	Aug. 2020 ²	Aug. 2019	July 2020	May to June	June to July	July to Aug.
Bolts, nuts, screws, rivets, and washers ³	10-81	00/82	213.6	220.0	219.4	4.4	-0.3	0.5	-0.5	-0.3
Lighting fixtures ³		00/82	188.0	187.6	188.0	1.2	0.2	0.2	-0.1	0.2
Fabricated ferrous wire products ³	10-88	06/82	252.1	252.3	253.5	-0.5	0.5	0.0	-0.2	0.5
Other miscellaneous metal products ³			166.4	166.1	165.7	-0.6	-0.2	0.1	-0.1	-0.2
Fluid power equipment ³			270.2	270.5	270.8	1.9	0.1	-0.2	0.1	0.1
Mechanical power transmission equipment ³			282.4	283.8	284.2	1.7	0.1	0.3	0.1	0.1
Air conditioning and refrigeration equipment			204.0	203.5	205.0	1.8	0.7	0.5	-0.3	0.8
Metal valves, except fluid power		12/82	348.2	348.1	348.2	2.4	0.0	0.8	-0.1	0.2
Ball and roller bearings ³			282.5	281.8	282.4	1.2	0.2	-0.4	0.0	0.2
Motors, generators, motor generator sets ³			240.0 222.2	240.7 222.2	241.6 222.2	2.0 0.5	0.4 0.0	0.2	0.5 0.0	0.4 0.0
Switchgear, switchboard, and industrial controls equip. ³			234.9	236.4	234.9	1.4	-0.6	0.2	0.4	-0.6
Electronic components and accessories			64.9	64.7	64.3	-1.8	-0.6	0.0	0.0	-0.6
Internal combustion engines ³			171.1	171.2	171.4	0.9	0.1	0.0	0.1	0.1
Machine shop products ³			195.1	195.2	195.4	-0.2	0.1	0.0	-0.2	0.1
Flat glass ³	13-11		138.8	139.0	138.9	1.0	-0.1	0.4	-0.1	-0.1
Cement	13-22		260.3	261.7	262.2	1.4	0.2	0.9	8.0	0.5
Concrete products			279.9	279.0	278.3	1.3	-0.3	0.0	0.0	-0.3
Asphalt felts and coatings ³			246.4	252.4	248.5	1.4	-1.5	1.1	1.9	-1.5
Paving mixtures and blocks ³			315.7	304.7	305.7	-5.4	0.3	-0.8	-2.7	0.3
Motor vehicle parts ³			127.8	127.7	127.7	0.6	0.0	0.0	0.0	0.0
Aircraft engines and engine parts		12/85	231.0	231.8	231.8	0.9	0.0	0.3	-0.1	0.1
Aircraft parts and auxiliary equipment, n.e.c		06/85	191.2 185.7	192.3 186.1	192.4 185.6	2.1 2.0	0.1 -0.3	-0.1 0.1	0.1 0.0	0.1 -0.1
Medical, surgical, and personal aid devices	15-0									
Unprocessed goods for intermediate demand			138.1	154.8	163.6	-9.0	5.7	3.1	-0.7	7.0
Unprocessed foodstuffs and feedstuffs	01 01		139.1	147.6	153.6	-5.0	4.1	-5.6	4.3	7.0
Corn.	01-21 01-22-02		150.2 126.0	139.9 127.2	131.3 120.2	5.7 -19.8	-6.1 -5.5	-2.6 6.3	-1.1 6.7	-6.1 -3.6
Slaughter cattle.			159.2	149.6	159.4	-13.6	6.6	-2.2	-5.7	10.4
Slaughter hogs.			57.0	59.4	66.8	-32.4	12.5	-39.3	-12.8	24.7
Slaughter chickens.			115.6	184.3	168.9	-23.6	-8.4	-7.7	6.5	2.8
Slaughter turkeys			213.2	220.0	226.4	23.6	2.9	0.8	-0.7	5.1
Raw milk	01-6		109.9	126.3	150.9	4.6	19.5	-13.0	43.7	16.7
Alfalfa hay	01-81		328.4	336.0	337.9	1.4	0.6	10.6	4.1	2.9
Oilseeds			159.1	164.1	161.4	0.7	-1.6	-1.1	-2.8	2.2
Raw cane sugar and byproducts ³	02-52-01		169.7	176.3	174.1	13.2	-1.2	1.0	1.8	-1.2
Unprocessed nonfood materials			130.5	152.5	162.8	-11.6	6.8	9.7	-4.0	7.0
Raw cotton ³	01-51		78.5	94.9	94.7	6.9	-0.2	3.3	4.3	-0.2
Coal.	05-1		93.4 190.7	72.8 190.1	72.9 187.6	-40.6 -6.6	0.1 -1.3	-1.2 -0.3	-2.9 -1.0	2.3 -1.1
Natural gas ³	05-31		48.5	52.3	64.2	-9.1	22.8	-18.4	-1.5	22.8
Crude petroleum ³			46.0	94.0	104.7	-33.3	11.4	71.9	-13.6	11.4
Logs, bolts, timber, pulpwood, and woodchips			240.6	230.5	234.6	-1.5	1.8	-0.6	-1.7	1.9
Recyclable paper ³	09-12		273.4	261.3	238.6	50.9	-8.7	-1.9	-17.8	-8.7
Iron ores	10-11		146.5	149.8	149.6	1.1	-0.1	-1.6	3.1	1.9
Iron and steel scrap ³			354.1	362.2	366.9	-10.6	1.3	-0.9	-4.3	1.3
Nonferrous metal ores ³		12/83	414.4	425.9	453.4	26.0	6.5	2.1	5.3	6.5
Copper base scrap ³			345.6	435.9	446.1	13.2	2.3	10.3	9.0	2.3
Aluminum base scrap.			161.4	145.7	149.4	-12.3	2.5	1.5	-2.9	3.1
Construction sand, gravel, and crushed stone	13-21		363.5	365.5	366.3	4.7	0.2	0.4	-0.2	0.6
Services for intermediate demand		11/09	120.2	120.5	121.5	-0.6	0.8	0.2	0.7	0.7
Trade services for intermediate demand ⁴	,, ,,	11/09	127.7	129.4	130.8	3.6	1.1	-0.5	1.1	1.2
Machinery and equipment parts and supplies wholesaling ³	57-11-02 57-3	03/09	129.0	133.5	134.2 103.0	1.9 2.7	0.5	-0.8 1.2	2.1 1.9	0.5 -1.4
Building materials, paint, and hardware wholesaling	57-3 57-4	03/09	102.0 163.0	103.3 159.4	167.9	3.5	-0.3 5.3	-4.5	0.6	5.3
Chemicals and allied products wholesaling	57- 4 57-5	03/09	118.1	120.9	115.5	0.7	-4.5	2.7	-0.6	-4.5
Paper and plastics products wholesaling ³	57-6	03/09	142.9	141.3	140.2	5.8	-0.8	-0.6	-0.2	-0.8
Food wholesaling ³	57-81-01	03/09	111.0	112.5	113.4	-0.5	0.8	-1.2	0.4	0.8
Automotive parts, including tires, retailing ³	58-61-02	03/09	114.1	114.6	115.3	0.6	0.6	-0.9	1.8	0.6
Hardware, building material, and supplies retailing	58-D	03/09	128.3	135.1	143.6	15.7	6.3	-0.2	5.8	6.8
Transportation and warehousing services for intermediate demand		11/09	127.1	126.8	126.3	-2.5	-0.4	-0.2	-0.4	-0.1
Rail transportation of freight and mail ³		12/08	128.9	126.6	127.4	-1.1	0.6	-0.2	-0.2	0.6
Truck transportation of freight ³		06/09	123.2	122.2	124.1	-1.0	1.6	-0.5	2.2	1.6
Water transportation of freight ³		06/09	117.8	117.0	116.8	-4.3	-0.2	-0.7	0.2	-0.2
	130-14	12/08	111.5	116.3	116.9	6.3	0.5	0.1	4.3	0.5
Air transportation of freight ³		10/00	160.0	100.0	100.0	0.4	0.0	0.0	4 -	^ ^
Air transportation of freight* Pipeline transportation of petroleum products U.S. Postal Service	30-15-01	12/08 06/89	160.6 237.5	166.6 237.5	166.6 237.5	3.1 2.3	0.0 0.0	0.2 0.1	1.5 -0.1	0.2 0.2

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

Grouping	Commodity code	Other index	Ur	nadjusted ind	dex	Unadjuste change to fro	Aug. 2020		onally adj	
	Code	base	Apr. 2020 ²	July 2020 ²	Aug. 2020 ²	Aug. 2019	July 2020	May to June	June to July	July to Aug.
Courier and messenger services, except air mail	30-16-02	04/09	167.7	167.5	168.3	4.4	0.5	0.4	0.3	8.0
Air mail and package delivery services, excluding by USPS	30-16-03	04/09	177.6	180.1	180.5	1.3	0.2	2.2	1.3	0.4
Transportation of passengers (partial)	30-2	06/09	105.4	111.9	105.8	-16.6	-5.5	4.8	-6.9	-3.2
Services related to water transportation	31-1	06/09	124.6	123.3	124.0	-0.1	0.6	0.2	0.6	8.0
Arrangement of freight and cargo ³	31-31	12/08	107.8	98.5	89.0	-21.0	-9.6	-2.5	-5.0	-9.6
Warehousing, storage, and related services ³	32-1	12/08	106.8	105.6	107.7	0.8	2.0	-1.9	0.6	2.0
Services less trade, transportation, and warehousing for intermediate demand.		11/09	116.9	117.1	118.2	-1.3	0.9	0.4	0.8	0.9
Network compensation from broadcast TV, cable TV, radio ³	35	06/09	146.5	146.5	146.5	4.6	0.0	0.0	0.0	0.0
Advertising space sales in periodicals and newspapers ³	36-11	06/09	100.6	99.3	100.1	-1.7	8.0	0.2	0.4	8.0
Advertising space sales in directories and mail lists ³	36-12	12/08	100.8	100.8	100.8	0.0	0.0	0.0	0.0	0.0
Television advertising time sales.	36-2	06/09	101.3	100.5	105.3	3.2	4.8	3.8	6.6	4.3
Radio advertising time sales.	36-3	03/09	91.5	86.7	90.3	-13.1	4.2	4.1	3.9	5.0
Internet advertising space sales, excluding Internet ads sold by print	36-5	12/09	E0 1	E0.0	E7 1	-7.2	0.0	11.0	-0.6	0.0
publishers ³	37-12	06/09	59.1 102.0	52.0 102.0	57.1 102.0	0.4	9.8 0.0	-11.2 0.0	0.0	9.8 0.0
Wireless telecommunication services	37-12	06/09	1	64.0		-2.9	-0.5		0.0	
Cable and satellite subscriber services ³	37-2		65.3		63.7 138.7	1		-0.3		-0.9 -0.1
Bundled wired telecommunication access services ³	37-3	12/08 12/11	138.5 115.1	138.8 115.1	138.7 115.1	2.1 5.6	-0.1 0.0	0.0 0.0	0.1 -0.1	-0.1 0.0
Data processing and related services ³	38-1	06/09	103.3	103.5	104.5	3.2	1.0	0.0	0.5	1.0
Business loans (partial).	39-11	04/09	187.3	156.5	168.5	-28.6	7.7	-2.0	-4.6	4.1
Deposit services (partial) ³	39-11	04/09	1					-2.0 -4.2		
Other credit intermediation, incl. trust services (partial) ³	39-2	04/09	61.7 105.9	60.5 99.5	61.3 99.5	-8.4 -8.0	1.3 0.0	-4.2 -3.7	2.0 -0.1	1.3 0.0
Securities brokerage, dealing, investment advice, and related										
services ³	40-1	06/09	141.5	135.3	142.0	-13.1	5.0	2.3	1.9	5.0
Portfolio management ³	40-2	12/08	205.5	230.9	236.5	7.1	2.4	2.2	7.8	2.4
Investment banking ³	40-3	12/08	204.9	199.1	186.8	0.1	-6.2	-5.8	3.2	-6.2
Life insurance ³		03/09	105.2	105.5	105.2	0.7	-0.3	0.0	0.3	-0.3
Health and medical insurance	41-11-03	03/09	139.3	139.3	139.3	2.7	0.0	0.4	0.0	0.1
Property and casualty insurance ³		03/09	125.3	125.7	125.7	0.6	0.0	0.0	0.1	0.0
Annuities ³		03/09	118.1	118.5	116.6	-1.2	-1.6	0.4	0.3	-1.6
Nonresidential real estate rents ³		06/09	108.5	108.7	108.5	0.4	-0.2	0.2	0.0	-0.2
Nonresidential property sales and leases ³	43-11 43-12	06/09	117.9	121.6	122.3	1.7	0.6	7.2 -0.9	1.0	0.6
Residential property management fees ³	43-12	12/08	129.1	130.9	130.6	4.1	-0.2		1.5	-0.2
		12/08	118.3	118.3	117.8	-0.3	-0.4	0.0	0.1	-0.4
Passenger car rental.	44-1 44-2	03/09 06/09	67.1 109.9	86.3	87.4	-3.9 0.7	1.3	12.0 -0.7	-0.4	2.8
Truck, utility trailer, and RV rental and leasing ³	44-2	06/09	109.9	111.1	111.1	0.7	0.0	-0.7	1.0	0.0
and leasing ³	44-3	03/09	97.7	96.1	95.8	-3.3	-0.3	0.1	-1.7	-0.3
Legal services.	45-1	03/09	140.4	142.5	142.7	5.2	0.1	0.0	1.9	0.3
Accounting services (partial).	45-2	06/09	113.9	109.8	110.5	-0.7	0.6	-1.4	-3.5	1.0
Architectural and engineering services ³	45-3	06/09	118.0	117.7	117.8	0.1	0.1	0.2	0.0	0.1
Management, scientific, and technical consulting services	45-4	06/09	97.8	96.8	97.8	-6.2	1.0	-0.8	-0.4	1.1
Advertising and related services (partial) ³	45-5	12/08	108.4	108.1	107.8	-2.4	-0.3	-0.4	0.0	-0.3
Permanent placement services ³	46-1	03/09	119.3	116.4	115.9	-0.2	-0.4	-0.9	-2.4	-0.4
Executive search services ³	46-2	12/08	95.1	98.2	95.4	-1.3	-2.9	1.7	1.0	-2.9
Staffing services.	46-3	06/09	115.6	118.5	119.7	3.1	1.0	0.6	-0.3	0.8
Security guard services ³		03/09	121.5	122.0	122.2	3.8	0.2	0.1	0.0	0.2
Janitorial services ³	49-1	03/09	112.3	112.3	112.0	-0.2	-0.3	-0.2	0.3	-0.3
Waste collection.	-	12/08	136.5	134.7	135.4	2.7	0.5	-0.3	0.2	0.2
Traveler accommodation services	53-11	06/09	98.6	103.3	103.0	-19.7	-0.3	2.4	-3.2	2.6
Commercial and industrial machinery and equipment repair and maintenance ³	55-1	03/09	127.2	127.3	127.4	2.4	0.1	0.0	0.1	0.1
Aircraft repair and maintenance	55-4	04/09	127.2	126.2	126.8	0.6	0.5	0.0	0.2	0.6
Metal treatment services ³	59-1	12/84	189.6	189.8	189.7	0.9	-0.1	-0.2	0.3	-0.1
Construction for intermediate demand		11/09	119.4	119.5	119.6	-0.2	0.1	0.1	-1.2	0.1
Maintenance and repair of non-residential buildings (partial) ³	80-2	12/10	120.7	120.8	120.9	-0.2	0.1	0.1	-1.2	0.1

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

¹ Further information about the Final Demand-Intermediate Demand Aggregation system is available online at https://www.bls.gov/ppi/fdidaggregation.htm
² The indexes for April 2020 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	Un	adjusted in	dex	change	ed percent to Aug. from:		onally ad	
Crouping	code	base	Apr. 2020 ²	July 2020 ²	Aug. 2020 ²	Aug. 2019	July 2020	May to June	June to July	July to Aug.
Stage 4 intermediate demand		11/09	116.8	118.9	119.5	0.0	0.5	0.3	1.0	0.5
Stage 4 intermediate demand goods	1	04/10	109.6	112.2	112.4	-0.3	0.2	0.3	0.9	0.3
Grains	1		134.4	133.5	126.8	-12.8	-5.0	3.8	4.2	-3.7
Meats	02-21		185.9	177.6	175.3	-5.0	-1.3	-27.7	-8.0	-0.1
Unprocessed and packaged fish ³	02-23		337.6	358.2	353.5	6.7	-1.3	-0.7	8.1	-1.3
Dairy products	02-3		191.3	208.5	209.2	2.3	0.3	6.6	4.0	-0.4
Commercial electric power	05-42		191.7	211.7	210.9	0.7	-0.4	1.5	2.1	-0.1
Industrial electric power	05-43		233.0	253.1	253.2	-1.5	0.0	2.4	-0.6	0.2
Gasoline	05-71		62.6	136.6	132.9	-29.7	-2.7	26.3	10.1	-1.4
No. 2 diesel fuel	05-73-03		123.6	181.4	192.1	-7.3	5.9	28.0	31.3	6.1
Basic organic chemicals	06-14		202.7	209.6	212.1	-12.1	1.2	5.2	3.4	1.3
Prepared paint ³	06-21		305.1	306.5	306.4	2.1	0.0	0.2	0.7	0.0
Medicinal and botanical chemicals ³	06-31		179.3	179.3	182.2	0.1	1.6	-3.3	0.0	1.6
Biological products, including diagnostics	06-37		279.9	281.5	282.1	1.8	0.2	0.1	0.5	0.1
Pharmaceutical preparations	06-38	06/01	274.6	274.8	274.9	2.4	0.0	0.0	0.3	0.3
Plastic construction products ³		00/82	230.9	230.5	232.4	1.3	8.0	-0.5	0.6	0.8
Unsupported plastic film, sheet, and other shapes ³			220.2	218.4	216.1	-2.9	-1.1	-0.9	8.0	-1.1
Parts for manufacturing from plastics ³		l	153.3	152.6	152.0	-0.8	-0.4	-0.1	-0.3	-0.4
Plastic packaging products ³	1	12/06	113.7	111.8	110.9	-4.5	-0.8	-0.3	-1.1	-0.8
Lumber	1	00/82	204.5	239.6	266.6	27.6	11.3	8.2	7.6	10.5
Millwork			268.1	270.9	275.8	4.8	1.8	-0.2	1.1	2.0
Paper boxes and containers ³			268.0	267.4	268.3	-0.5	0.3	-0.4	0.2	0.3
Commercial printing ³		06/82	178.5	178.0	178.2	0.3	0.1	-0.8	0.3	0.1
Steel mill products ³			187.4	179.9	176.9	-10.7	-1.7	-1.0	-0.6	-1.7
Nonferrous wire and cable ³	1		238.5	242.6	248.2	1.1	2.3	-0.5	1.2	2.3
Fabricated structural metal products			238.5	239.0	237.4	-0.5	-0.7	0.6	-0.5	-0.5
Other miscellaneous metal products ³	1		166.4	166.1	165.7	-0.6	-0.2	0.1	-0.1	-0.2
Air conditioning and refrigeration equipment	1		204.0	203.5	205.0	1.8	0.7	0.5	-0.3	8.0
Wiring devices ³	1		240.0	240.7	241.6	2.0	0.4	0.2	0.5	0.4
Electronic components and accessories.	1		64.9	64.7	64.3	-1.8	-0.6	0.0	0.0	-0.6
Miscellaneous electrical machinery and equipment ³	1		124.7	124.8	124.8	0.6	0.0	-0.1	0.2	0.0
Internal combustion engines ³	1		171.1	171.2	171.4	0.9	0.1	0.0	0.1	0.1
Machine shop products ³	1		195.1	195.2	195.4	-0.2	0.1	0.0	-0.2	0.1
Concrete ingredients and related products	1		319.8	321.5	322.2	3.9	0.2	0.5	0.1	0.6
Concrete products.			279.9	279.0	278.3	1.3	-0.3	0.0	0.0	-0.3
Prepared asphalt, tar roofing and siding products ³			246.6	253.5	249.2	1.7	-1.7	1.3	2.3	-1.7
Paving mixtures and blocks ³			315.7	304.7	305.7	-5.4	0.3	-0.8	-2.7	0.3
Motor vehicle parts ³	1	10/05	127.8	127.7	127.7	0.6 0.9	0.0 0.0	0.0 0.3	0.0 -0.1	0.0
Aircraft parts and engine parts. Aircraft parts and auxiliary equipment, n.e.c.		12/85 06/85	231.0 191.2	231.8 192.3	231.8 192.4	2.1	0.0	-0.1	0.1	0.1 0.1
Medical, surgical and personal aid devices.	1	00/65	185.7	186.1	185.6	2.1	-0.3	0.1	0.0	-0.1
Stage 4 intermediate demand services.	1	04/10	120.6	122.0	123.0	0.2	0.8	0.5	1.0	0.8
Truck transportation of freight ³	1	06/09	123.2	122.2	124.1	-1.0	1.6	-0.5	2.2	1.6
Courier, messenger, and U.S. postal services.	1	06/09	150.2	150.5	150.8	2.9	0.2	0.5	0.3	0.5
Airline passenger services.	30-22	12/08	96.8	102.9	97.1	-16.9	-5.6	4.8	-7.0	-3.3
Warehousing, storage, and related services ³		12/08	106.8	105.6	107.7	0.8	2.0	-1.9	0.6	2.0
Advertising space sales in periodicals and newspapers ³	1	06/09	100.6	99.3	100.1	-1.7	0.8	0.2	0.4	0.8
Data processing and related services ³	1	06/09	103.3	103.5	104.5	3.2	1.0	0.9	0.5	1.0
Business loans (partial)		04/09	187.3	156.5	168.5	-28.6	7.7	-2.0	-4.6	4.1
Deposit services (partial) ³		04/09	61.7	60.5	61.3	-8.4	1.3	-4.2	2.0	1.3
Securities brokerage, dealing, investment advice, and related services ³	40-1	06/09	141.5	135.3	142.0	-13.1	5.0	2.3	1.9	5.0
Portfolio management ³	40-2	12/08	205.5	230.9	236.5	7.1	2.4	2.2	7.8	2.4
Investment banking ³		12/08	204.9	199.1	186.8	0.1	-6.2	-5.8	3.2	-6.2
Insurance		06/09	126.0	126.3	126.2	1.3	-0.1	0.1	0.0	0.0
Annuities ³	1	03/09	118.1	118.5	116.6	-1.2	-1.6	0.4	0.3	-1.6
Nonresidential real estate rents ³	43-11	06/09	117.9	121.6	122.3	1.7	0.6	7.2	1.0	0.6
Nonresidential property sales and leases ³	43-12	12/08	129.1	130.9	130.6	4.1	-0.2	-0.9	1.5	-0.2
Nonresidential property management fees ³		12/08	92.7	83.5	89.1	-6.1	6.7	-7.3	-5.4	6.7
Residential property management fees ³	43-22	12/08	118.3	118.3	117.8	-0.3	-0.4	0.0	0.1	-0.4
Construction, mining, and forestry machinery and equipment rental and	44.0	00/00	07.7	00.1	05.0		0.0			0.0
leasing ³	1	03/09	97.7	96.1	95.8	-3.3	-0.3	0.1	-1.7	-0.3
Legal services.		03/09	140.4	142.5	142.7	5.2	0.1	0.0	1.9	0.3
Advertising agency services ³	1	12/08	108.4	108.1	107.8	-2.4	-0.3	-0.4	0.0	-0.3
Accounting services (partial).		06/09	113.9	109.8	110.5	-0.7	0.6	-1.4	-3.5	1.0
Architectural and engineering services ³	1	06/09	118.0	117.7	117.8	0.1	0.1	0.2	0.0	0.1
Management, scientific, and technical consulting services	45-4	06/09	97.8	96.8	97.8	-6.2	1.0	-0.8	-0.4	1.1 0.8
Staffing services	46-3	06/09	115.6	118.5	119.7	3.1	1.0	0.6	-0.3	

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]

Commercial and industrial machinery and equipment repair and maintenance ³ . Machinery and equipment parts and supplies wholesaling ³ . Building materials, paint, and hardware wholesaling. Metals, minerals, and ores wholesaling ³ . Chemicals and allied products wholesaling ³ . Paper and plastics products wholesaling ³ . Food and alcohol wholesaling ³ . Hardware and building materials and supplies retailing. Metal treatment services ³ . In a sintermediate demand. Stage 3 intermediate demand goods. Slaughter cattle. Slaughter hogs. Slaughter poultry. Raw milk. Commercial electric power. Industrial electric power. Gasoline. Jet fuel ³ . No. 2 diesel fuel. Finished lubricants ³ . Lubricating oil base stocks ³ . Asphalt. Basic inorganic chemicals. Paints and allied products ³ .	Commodity	Other index	Un	Unadjusted index			Unadjusted percent change to Aug. 2020 from:		Seasonally adjusted percent change from:		
y	code	base	Apr. 2020 ²	July 2020 ²	Aug. 2020 ²	Aug. 2019	July 2020	May to June	June to July	July to Aug.	
	49-1	03/09	112.3	112.3	112.0	-0.2	-0.3	-0.2	0.3	-0.3	
	1	00/00	107.0	107.0	107.4	0.4	0.1		0.1	0.4	
	55-1 57-11-02	03/09	127.2 129.0	127.3 133.5	127.4 134.2	2.4 1.9	0.1 0.5	0.0 -0.8	0.1 2.1	0.1 0.5	
	57-11-02	03/09	102.0	103.3	103.0	2.7	-0.3	1.2	1.9	-1.4	
	57-4	03/09	163.0	159.4	167.9	3.5	5.3	-4.5	0.6	5.3	
Chemicals and allied products wholesaling ³	57-5	03/09	118.1	120.9	115.5	0.7	-4.5	2.7	-0.6	-4.5	
Paper and plastics products wholesaling ³	57-6	03/09	142.9	141.3	140.2	5.8	-0.8	-0.6	-0.2	-0.8	
Food and alcohol wholesaling ³	57-8	06/09	113.3	114.7	115.6	0.5	8.0	-0.9	0.5	0.8	
	. 58-D	03/09	128.3	135.1	143.6	15.7	6.3	-0.2	5.8	6.8	
Metal treatment services ³	59-1	12/84	189.6	189.8	189.7	0.9	-0.1	-0.2	0.3	-0.1	
Stage 3 intermediate demand	1	11/09	107.9	111.6	112.9	-3.8	1.2	0.4	1.7	1.4	
Stage 3 intermediate demand goods	1	04/10	89.8	96.8	98.4	-7.1	1.7	0.8	3.5	2.5	
•	1		159.2	149.6	159.4	-1.0	6.6	-2.2	-5.7	10.4	
			57.0	59.4	66.8	-32.4	12.5	-39.3	-12.8	24.7	
	1		135.5	189.7	179.1	-15.1	-5.6	-5.5	4.5	3.3	
	1		109.9 191.7	126.3 211.7	150.9 210.9	4.6 0.7	19.5 -0.4	-13.0 1.5	43.7 2.1	16.7 -0.1	
·	05-42		233.0	253.1	253.2	-1.5	0.0	2.4	-0.6	0.2	
Gasoline.	05-71		62.6	136.6	132.9	-29.7	-2.7	26.3	10.1	-1.4	
Jet fuel ³	05-72-03		74.6	121.2	123.0	-39.0	1.5	47.0	15.0	1.5	
No. 2 diesel fuel	05-73-03		123.6	181.4	192.1	-7.3	5.9	28.0	31.3	6.1	
Finished lubricants ³	05-76		439.1	433.4	434.4	-0.8	0.2	-0.1	-0.7	0.2	
Lubricating oil base stocks ³	05-78	06/09	76.9	83.5	86.2	-29.4	3.2	-41.7	24.1	3.2	
Asphalt	1	06/85	147.9	158.0	167.7	-31.8	6.1	8.5	4.7	7.2	
· ·	1		268.3	272.6	270.9	-2.8	-0.6	-0.8	0.9	-0.6	
· ·	1		202.7	209.6	212.1	-12.1	1.2	5.2	3.4	1.3	
Agricultural chemicals and chemical products.	1		298.6 206.7	299.5	299.4	1.8 -4.4	0.0	0.2	0.6	0.0	
Plastic resins and materials.	1		200.7	207.0 207.3	207.0 215.6	-4.4	0.0 4.0	0.8 2.0	1.5 1.7	1.7 4.0	
Synthetic rubber ³	07-11-02		191.1	184.1	184.8	-9.8	0.4	-0.5	-2.6	0.4	
Unsupported plastic film, sheet, and other shapes ³	07-22		220.2	218.4	216.1	-2.9	-1.1	-0.9	0.8	-1.1	
Paper ³	09-13		193.7	194.4	194.3	-3.2	-0.1	0.3	0.4	-0.1	
Paperboard ³	09-14		255.0	256.1	256.3	-2.7	0.1	0.2	0.2	0.1	
Converted paper and paperboard products ³	09-15		241.1	240.9	241.2	-0.3	0.1	-0.2	0.4	0.1	
Commercial printing ³	1	06/82	178.5	178.0	178.2	0.3	0.1	-0.8	0.3	0.1	
Foundry and forge shop products ³	1		212.2	212.2	212.4	0.5	0.1	0.0	0.1	0.1	
Steel mill products ³	1		187.4	179.9	176.9	-10.7	-1.7	-1.0	-0.6	-1.7	
Nonferrous mill shapes ³	1		194.4 212.1	196.7 211.6	200.5 212.5	-4.7 -0.5	1.9 0.4	0.9 0.0	2.7 0.5	1.9 0.5	
Metal containers ³	1		162.8	162.8	162.6	-0.5	-0.1	-0.4	0.3	-0.1	
Structural, architectural, and pre-engineered metal products	1		229.5	229.6	227.6	-1.3	-0.1	1.9	-2.2	-0.1	
Bolts, nuts, screws, rivets, and washers ³			213.6	220.0	219.4	4.4	-0.3	0.5	-0.5	-0.3	
Other miscellaneous metal products ³	1		166.4	166.1	165.7	-0.6	-0.2	0.1	-0.1	-0.2	
General purpose machinery and equipment	11-4		250.9	250.9	251.5	1.6	0.2	0.2	-0.1	0.4	
Electrical machinery and equipment			117.7	117.7	117.5	0.7	-0.2	0.1	0.2	-0.1	
Construction sand, gravel, and crushed stone			363.5	365.5	366.3	4.7	0.2	0.4	-0.2	0.6	
Cement	1 -		260.3	261.7	262.2	1.4	0.2	0.9	8.0	0.5	
Motor vehicle parts ³	1		127.8	127.7	127.7	0.6	0.0	0.0	0.0	0.0	
Aircraft and aircraft equipment.	1	04/40	280.0	280.9	281.0	1.3	0.0	0.1	0.0	0.0	
Stage 3 intermediate demand services. Rail transportation of freight and mail ³	1	04/10 12/08	119.2	119.1	119.8	-0.6 -1.1	0.6 0.6	0.0 -0.2	0.3	0.7	
Courier, messenger, and U.S. postal services.		06/09	128.9 150.2	126.6 150.5	127.4 150.8	2.9	0.6	0.5	-0.2 0.3	0.6 0.5	
Arrangement of freight and cargo ³	1	12/08	107.8	98.5	89.0	-21.0	-9.6	-2.5	-5.0	-9.6	
Freight forwarding ³		12/08	98.6	96.9	97.7	-0.7	0.8	-2.4	-0.8	0.8	
Warehousing, storage, and related services ³		12/08	106.8	105.6	107.7	0.8	2.0	-1.9	0.6	2.0	
Advertising space sales in periodicals, newspapers, directories, and mailing lists ³ .	36-1	06/09	100.0	98.9	99.5	-1.5	0.6	0.2	0.3	0.6	
Wired telephone services ³	37-1	06/09	118.0	118.0	117.5	0.9	-0.4	0.0	-0.1	-0.4	
Bundled wired telecommunications access services ³		12/11	115.1	115.1	115.1	5.6	0.0	0.0	-0.1	0.0	
Data processing and related services ³	1	06/09	103.3	103.5	104.5	3.2	1.0	0.9	0.5	1.0	
Business loans (partial)		04/09	187.3	156.5	168.5	-28.6	7.7	-2.0	-4.6	4.1	
Deposit services (partial) ³	1	04/09	61.7	60.5	61.3	-8.4	1.3	-4.2	2.0	1.3	
Securities brokerage, dealing, investment advice, and related services ³	. 40-1	06/09	141.5	135.3	142.0	-13.1	5.0	2.3	1.9	5.0	
Insurance	41-11	06/09	126.0	126.3	126.2	1.3	-0.1	0.1	0.0	0.0	
INUTITE SIDETILIAI TEAT ESTATE TETTIS	1	06/09	117.9	121.6	122.3	1.7	0.6	7.2	1.0	0.6	
Legal services	45-1	03/09	140.4	142.5	142.7	5.2	0.1	0.0	1.9	0.3	

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			change	ed percent to Aug. from:	Seasonally adjusted percent change from:		
	code	base	Apr. 2020 ²	July 2020 ²	Aug. 2020 ²	Aug. 2019	July 2020	May to June	June to July	July to Aug.
Accounting services (partial)	45-2	06/09	113.9	109.8	110.5	-0.7	0.6	-1.4	-3.5	1.0
Architectural and engineering services ³	45-3	06/09	118.0	117.7	117.8	0.1	0.1	0.2	0.0	0.1
Management, scientific, and technical consulting services	45-4	06/09	97.8	96.8	97.8	-6.2	1.0	-0.8	-0.4	1.1
Advertising agency services ³	45-51	12/08	108.4	108.1	107.8	-2.4	-0.3	-0.4	0.0	-0.3
Staffing services	46-3 55-4	06/09 04/09	115.6 127.3	118.5 126.2	119.7 126.8	3.1 0.6	1.0 0.5	0.6 0.2	-0.3 0.2	0.8 0.6
Machinery and equipment parts and supplies wholesaling ³	57-11-02	03/09	127.3	133.5	134.2	1.9	0.5	-0.8	2.1	0.5
Building materials, paint, and hardware wholesaling	57-3	03/09	102.0	103.3	103.0	2.7	-0.3	1.2	1.9	-1.4
Metals, minerals, and ores wholesaling ³	57-4	03/09	163.0	159.4	167.9	3.5	5.3	-4.5	0.6	5.3
Chemicals and allied products wholesaling ³	57-5	03/09	118.1	120.9	115.5	0.7	-4.5	2.7	-0.6	-4.5
Paper and plastics products wholesaling ³	57-6	03/09	142.9	141.3	140.2	5.8	-0.8	-0.6	-0.2	-0.8
Food wholesaling ³	1	03/09	111.0	112.5	113.4	-0.5	8.0	-1.2	0.4	8.0
Metal treatment services ³	59-1	12/84	189.6	189.8	189.7	0.9	-0.1	-0.2	0.3	-0.1
Stage 2 intermediate demand		11/09	96.2	99.8	101.6	-3.3	1.8	1.9	0.0	1.8
Stage 2 intermediate demand goods		04/10	68.5	74.5	77.2	-8.9	3.6	4.9	-1.2	3.9
Corn	01-22-02		126.0	127.2	120.2	-19.8	-5.5	6.3	6.7	-3.6
Oilseeds	01-83		159.1	164.1	161.4	0.7	-1.6	-1.1	-2.8	2.2
Prepared animal feeds	02-9		192.3	188.3	187.3	-0.5	-0.5	-1.2	-0.7	-0.4
Coal	05-1		190.7	190.1	187.6	-6.6	-1.3	-0.3	-1.0	-1.1
Natural gas ³	05-31		48.5	52.3	64.2	-9.1	22.8	-18.4	-1.5	22.8
Liquefied petroleum gas ³	05-32 05-61		42.5 46.0	94.7 94.0	101.3 104.7	3.2 -33.3	7.0 11.4	21.6 71.9	2.4 -13.6	7.0 11.4
No. 2 diesel fuel.	05-73-03		123.6	181.4	192.1	-7.3	5.9	28.0	31.3	6.1
Industrial chemicals.	06-1		211.0	217.6	219.5	-10.7	0.9	4.1	2.9	1.0
Plastic resins and materials.	1		207.9	207.3	215.6	-4.0	4.0	2.0	1.7	4.0
Plastic products ³	1		207.2	205.6	205.0	-1.7	-0.3	-0.4	-0.1	-0.3
Logs, bolts, timber, pulpwood, and wood chips	1		240.6	230.5	234.6	-1.5	1.8	-0.6	-1.7	1.9
Paper ³	09-13		193.7	194.4	194.3	-3.2	-0.1	0.3	0.4	-0.1
Paperboard, excluding corrugated paperboard ³	09-14-11	12/82	267.5	269.0	269.2	-2.1	0.1	0.3	0.2	0.1
Commercial printing ³	09-47	06/82	178.5	178.0	178.2	0.3	0.1	-0.8	0.3	0.1
Iron and steel scrap ³	10-12		354.1	362.2	366.9	-10.6	1.3	-0.9	-4.3	1.3
Steel mill products ³	1		187.4	179.9	176.9	-10.7	-1.7	-1.0	-0.6	-1.7
Nonferrous mill shapes ³	1		194.4	196.7	200.5	-4.7	1.9	0.9	2.7	1.9
Electrical machinery and equipment.	11-7		117.7	117.7	117.5	0.7	-0.2	0.1	0.2	-0.1
Electronic components and accessories	11-78	04/10	64.9 118.5	64.7 119.5	64.3 120.3	-1.8 0.4	-0.6 0.7	0.0 0.3	0.0 0.8	-0.6 0.7
Rail transportation of freight and mail ³	1	12/08	128.9	126.6	120.3	-1.1	0.7	-0.2	-0.2	0.7
Truck transportation of freight ³	1	06/09	123.2	122.2	124.1	-1.0	1.6	-0.5	2.2	1.6
Pipeline transportation of petroleum products.		12/08	160.6	166.6	166.6	3.1	0.0	0.2	1.5	0.2
U.S. Postal Service.	30-16-01	06/89	237.5	237.5	237.5	2.3	0.0	0.1	-0.1	0.2
Courier and messenger services, except air	30-16-02	04/09	167.7	167.5	168.3	4.4	0.5	0.4	0.3	0.8
Air mail and package delivery services, excluding by USPS	30-16-03	04/09	177.6	180.1	180.5	1.3	0.2	2.2	1.3	0.4
Airline passenger services	1	12/08	96.8	102.9	97.1	-16.9	-5.6	4.8	-7.0	-3.3
Arrangement of freight and cargo ³	1	12/08	107.8	98.5	89.0	-21.0	-9.6	-2.5	-5.0	-9.6
Television advertising time sales	1	06/09	101.3	100.5	105.3	3.2	4.8	3.8	6.6	4.3
Wireless telecommunication services.	37-2	06/09	65.3	64.0	63.7	-2.9	-0.5	-0.3	0.3	-0.9
Data processing and related services ³ Securities brokerage, dealing, investment advice, and related services ³	38-1 40-1	06/09 06/09	103.3 141.5	103.5 135.3	104.5 142.0	3.2 -13.1	1.0 5.0	0.9 2.3	0.5 1.9	1.0 5.0
Portfolio management ³	40-1	12/08	205.5	230.9	236.5	7.1	2.4	2.3	7.8	2.4
Investment banking ³	40-21	12/08	204.9	199.1	186.8	0.1	-6.2	-5.8	3.2	-6.2
Insurance.	41-11	06/09	126.0	126.3	126.2	1.3	-0.1	0.1	0.0	0.0
Commissions from sales of insurance ³	1	06/09	108.5	108.7	108.5	0.4	-0.2	0.2	0.0	-0.2
Legal services	1	03/09	140.4	142.5	142.7	5.2	0.1	0.0	1.9	0.3
Accounting services (partial)		06/09	113.9	109.8	110.5	-0.7	0.6	-1.4	-3.5	1.0
Management, scientific, and technical consulting services	45-4	06/09	97.8	96.8	97.8	-6.2	1.0	-0.8	-0.4	1.1
Advertising agency services ³	45-51	12/08	108.4	108.1	107.8	-2.4	-0.3	-0.4	0.0	-0.3
Staffing services		06/09	115.6	118.5	119.7	3.1	1.0	0.6	-0.3	0.8
Security guard services ³	48-1	03/09	121.5	122.0	122.2	3.8	0.2	0.1	0.0	0.2
Janitorial services ³	49-1	03/09	112.3	112.3	112.0	-0.2	-0.3	-0.2	0.3	-0.3
Traveler accommodation services.	53-1	06/09	98.6	103.3	103.0	-19.7	-0.3	2.4	-3.2	2.6
Commercial and industrial machinery and equipment repair and maintenance ³	55-1	03/09	127.2	127.3	127.4	2.4	0.1	0.0	0.1	0.1
Hardware and building materials and supplies retailing	1	03/09	128.3	135.1	143.6	15.7	6.3	-0.2	5.8	6.8
		11/09	106.3	109.5	110.5	-3.2	0.9	1.7	1.4	1.0
Stage 1 intermediate demand	1	04/10	85.1	90.3	91.3	-3.2	1.1	3.2	2.6	1.0
· ·	02-9	3 1, 10	192.3	188.3	187.3	-0.5	-0.5	-1.2	-0.7	-0.4
Prepared animal feeds	102-9		1 192.0			-0.0	-(1.:)			
Prepared animal feeds	05-42		192.3	211.7	210.9	0.7	-0.5	1.5	2.1	-0.1

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	Other index	Unadjusted index			Unadjusted percent change to Aug. 2020 from:		Seasonally adjusted percent change from:		
	code	base	Apr. 2020 ²	July 2020 ²	Aug. 2020 ²	Aug. 2019	July 2020	May to June	June to July	July to Aug.
Industrial electric power	05-43		233.0	253.1	253.2	-1.5	0.0	2.4	-0.6	0.2
Commercial natural gas	05-52	12/90	180.7	178.1	182.3	-3.3	2.4	0.6	-1.1	0.8
Industrial natural gas	05-53	12/90	131.6	126.7	133.0	-3.8	5.0	-0.4	-3.1	5.9
Gasoline	05-71		62.6	136.6	132.9	-29.7	-2.7	26.3	10.1	-1.4
No. 2 diesel fuel	05-73-03		123.6	181.4	192.1	-7.3	5.9	28.0	31.3	6.1
Industrial chemicals	06-1		211.0	217.6	219.5	-10.7	0.9	4.1	2.9	1.0
Prepared paint ³	06-21		305.1	306.5	306.4	2.1	0.0	0.2	0.7	0.0
Plastic construction products ³	07-21		230.9	230.5	232.4	1.3	0.8	-0.5	0.6	8.0
Recyclable paper ³	09-12		273.4	261.3	238.6	50.9	-8.7	-1.9	-17.8	-8.7
Paper ³	09-13		193.7	194.4	194.3	-3.2	-0.1	0.3	0.4	-0.1
Converted paper and paperboard products ³	09-15		241.1	240.9	241.2	-0.3	0.1	-0.2	0.4	0.1
Iron and steel scrap ³	10-12		354.1	362.2	366.9	-10.6	1.3	-0.9	-4.3	1.3
Steel mill products ³	10-17		187.4	179.9	176.9	-10.7	-1.7	-1.0	-0.6	-1.7
Primary nonferrous metals ³			176.5	188.7	191.8	5.0	1.6	3.7	3.6	1.6
Nonferrous scrap	10-23		366.3	374.5	403.1	19.3	7.6	5.2	3.9	7.8
Nonferrous wire and cable ³	10-26		238.5	242.6	248.2	1.1	2.3	-0.5	1.2	2.3
Fabricated structural metal products	10-7		238.5	239.0	237.4	-0.5	-0.7	0.6	-0.5	-0.5
General purpose machinery and equipment	11-4		250.9	250.9	251.5	1.6	0.2	0.2	-0.1	0.4
Construction sand, gravel, and crushed stone	13-21		363.5	365.5	366.3	4.7	0.2	0.4	-0.2	0.6
Stage 1 intermediate demand services		04/10	120.6	120.2	121.1	-2.6	0.7	0.3	0.1	0.8
Truck transportation of freight ³	30-12	06/09	123.2	122.2	124.1	-1.0	1.6	-0.5	2.2	1.6
Airline passenger services.	30-22	12/08	96.8	102.9	97.1	-16.9	-5.6	4.8	-7.0	-3.3
Advertising space sales in periodicals, newspapers, directories, and					• • • • • • • • • • • • • • • • • • • •					
mailing lists ³	36-1	06/09	100.0	98.9	99.5	-1.5	0.6	0.2	0.3	0.6
Business wired telecommunication services ³	37-12	06/09	102.0	102.0	102.0	0.4	0.0	0.0	0.0	0.0
Wireless telecommunication services	37-2	06/09	65.3	64.0	63.7	-2.9	-0.5	-0.3	0.3	-0.9
Bundled wired telecommunications access services ³	37-5	12/11	115.1	115.1	115.1	5.6	0.0	0.0	-0.1	0.0
Business loans (partial)	39-11	04/09	187.3	156.5	168.5	-28.6	7.7	-2.0	-4.6	4.1
Deposit services (partial) ³	39-2	04/09	61.7	60.5	61.3	-8.4	1.3	-4.2	2.0	1.3
Securities brokerage, dealing, investment advice, and related services ³	40-1	06/09	141.5	135.3	142.0	-13.1	5.0	2.3	1.9	5.0
Portfolio management ³	40-2	12/08	205.5	230.9	236.5	7.1	2.4	2.2	7.8	2.4
Investment banking ³	40-3	12/08	204.9	199.1	186.8	0.1	-6.2	-5.8	3.2	-6.2
Insurance	41-11	06/09	126.0	126.3	126.2	1.3	-0.1	0.1	0.0	0.0
Nonresidential real estate rents ³	43-11	06/09	117.9	121.6	122.3	1.7	0.6	7.2	1.0	0.6
Architectural and engineering services ³	45-3	06/09	118.0	117.7	117.8	0.1	0.1	0.2	0.0	0.1
Management consulting services	45-41	06/09	97.8	96.8	97.8	-6.2	1.0	-0.8	-0.4	1.1
Waste collection	50-1	12/08	136.5	134.7	135.4	2.7	0.5	-0.3	0.2	0.2
Traveler accommodation services	53-11	06/09	98.6	103.3	103.0	-19.7	-0.3	2.4	-3.2	2.6
Commercial and industrial machinery and equipment repair and										
maintenance ³		03/09	127.2	127.3	127.4	2.4	0.1	0.0	0.1	0.1
Machinery and equipment parts and supplies wholesaling ³	1	03/09	129.0	133.5	134.2	1.9	0.5	-0.8	2.1	0.5
Building materials, paint, and hardware wholesaling		03/09	102.0	103.3	103.0	2.7	-0.3	1.2	1.9	-1.4
Metals, minerals, and ores wholesaling ³		03/09	163.0	159.4	167.9	3.5	5.3	-4.5	0.6	5.3
Chemicals and allied products wholesaling ³	1	03/09	118.1	120.9	115.5	0.7	-4.5	2.7	-0.6	-4.5
Paper and plastics products wholesaling ³	57-6	03/09	142.9	141.3	140.2	5.8	-0.8	-0.6	-0.2	-0.8
Hardware and building materials and supplies retailing	58-D	03/09	128.3	135.1	143.6	15.7	6.3	-0.2	5.8	6.8
Mining services ³	60-1	06/85	222.8	220.9	218.4	-5.5	-1.1	-0.5	-0.3	-1.1

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 April 2020 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]

Grouping	Other index	Index ¹						
	base	Mar. 2020	Apr. 2020	May 2020	June 2020	July 2020	Aug. 2020	
Final demand.		118.1	116.6	117.5	117.3	118.0	118.4	
Final demand goods.		113.7	110.3	117.3	112.5	113.4	113.5	
Final demand foods.		119.2	118.6	125.8	119.2	118.6	118.1	
Final demand energy.		93.0	76.1	80.9	87.1	91.7	91.6	
Final demand goods less foods and energy.		118.2	117.9	117.8	117.9	118.3	118.6	
Final demand services.		119.8	117.3	117.6	119.2	119.8	120.4	
Final demand trade services.		120.6	121.7	122.8	120.6	121.6	123.0	
Final demand transportation and warehousing services.		122.0	117.8	118.8	119.9	119.0	119.2	
Final demand services less trade, transportation, and warehousing		119.3	118.3	118.2	118.5	119.0	119.4	
Intermediate demand by commodity type		110.0	110.0	110.2	110.5	113.0	115.4	
, , , , ,	00/82	192.2	185.3	186.0	187.7	190.5	191.6	
ÿ	00/82	181.4	177.6	177.4	177.3	178.2	179.1	
,	00/82	254.1	252.3	252.4	253.8	255.0	257.2	
·	00/82	156.5	133.5	135.3	145.0	155.8	158.4	
	00/82	236.0	235.4	235.2	234.6	235.0	235.5	
	00/82	201.1	200.4	202.0	200.6	200.9	200.9	
***	00/82	159.4	137.0	150.1	154.7	153.6	164.3	
, ,	00/82	156.8	137.0	147.1	138.8	144.8	154.9	
Unprocessed nonfood materials except fuel.				176.7		199.8	209.6	
·	00/82	199.2 83.8	163.2 77.6	92.2	210.6 81.6	81.0	209.6 91.6	
Unprocessed fuel	00/02	83.8 122.1	77.6 120.0	92.2 119.5	81.6 119.7	81.0 120.5	91.6 121.4	
Trade services for intermediate demand		127.7	127.6	128.5	127.8	129.2	130.7	
Transportation and warehousing services for intermediate demand		128.6	126.8	127.2	127.0	126.5	126.4	
Services less trade, transportation, and warehousing for intermediate demand		119.4	116.8	115.7	116.2	117.1	118.1	
Intermediate demand by production flow		110.0	1100	117.0	447.4	110.0	110.0	
Stage 4 intermediate demand.		118.9	116.8	117.0	117.4	118.6	119.2	
Inputs to stage 4 goods producers		115.2	114.1	114.7	114.5	115.0	115.1	
Inputs to stage 4 services producers.		121.1	118.9	119.1	119.5	120.7	121.3	
Inputs to stage 4 construction producers		118.8	115.3	115.0	116.5	118.7	120.2	
Stage 3 intermediate demand		113.9	107.8	108.8	109.2	111.1	112.7	
Inputs to stage 3 goods producers		116.2	110.5	112.0	110.2	112.5	115.3	
Inputs to stage 3 services producers		113.0	106.6	107.4	109.5	110.7	111.2	
Inputs to stage 3 construction producers		100.0	87.9	84.0	91.0	101.6	105.2	
Stage 2 intermediate demand		100.5	96.0	97.8	99.7	99.7	101.5	
Inputs to stage 2 goods producers		82.2	75.3	78.8	82.4	81.2	84.2	
Inputs to stage 2 services producers		118.4	116.2	116.3	116.7	117.7	118.6	
Stage 1 intermediate demand		111.2	106.2	105.6	107.4	108.9	110.0	
Inputs to stage 1 goods producers		105.0	99.8	99.9	101.8	102.6	103.5	
Inputs to stage 1 services producers		116.3	111.4	109.7	111.7	114.0	115.2	
Inputs to stage 1 construction producers		120.5	117.6	117.7	118.7	120.5	122.0	
Special groupings								
	04/10	118.4	117.9	118.1	117.8	118.4	118.9	
Final demand less foods.	04/10	116.3	114.8	115.3	115.4	116.2	116.7	
	04/10	118.2	117.7	118.3	117.7	118.1	118.6	
9	01/10	117.9	116.6	117.6	117.3	117.9	118.4	
	04/10	112.6	110.5	111.2	111.0	111.8	112.2	
Total Government purchases.		111.6	109.0	109.2	109.6	110.7	111.3	
Total private capital investment (goods, services, and construction)		116.4	116.4	117.2	116.2	117.3	117.7	
	00/82	202.4	196.3	201.2	201.2	202.7	202.6	
_								
	00/82	192.2	184.7	184.2	187.1	190.4	191.7	
	00/82	193.1	192.9	205.5	194.3	193.0	192.0	
57 5	00/82	157.3	134.1	135.9	145.7	156.5	159.1	
Processed materials less foods and energy	00/82	199.0	196.1	195.0	195.9	196.9	197.8	
Unprocessed materials less agricultural products.	00/82	152.6	129.5	145.2	159.1	152.1	163.8	
,	00/82	94.6	70.8	87.9	102.7	95.1	106.2	
	00/82	339.0	326.3	327.2	330.9	331.8	337.6	
	04/10	111.7	109.7	110.4	110.7	111.7	112.0	
, ,	04/10	122.5	120.4	120.1	120.7	121.9	122.9	
Total goods inputs to stage 3 intermediate demand	04/10	99.8	89.6	91.9	92.6	95.8	98.2	
· · · · · · · · · · · · · · · · ·	04/10	120.4	119.1	118.6	118.6	118.9	119.7	
, ,			00.0	71 7	75.0	7/2	77.2	
Total goods inputs to stage 2 intermediate demand	04/10	75.1	68.3	71.7	75.2	74.3		
Total goods inputs to stage 2 intermediate demand	04/10	120.4	118.2	118.3	118.6	119.5	120.3	
Total goods inputs to stage 2 intermediate demand								

¹ All seasonally adjusted indexes are subject to change up to 5 years after original publication due to the recalculation of seasonal factors each January. The indexes for April 2020 have been recalculated to incorporate late reports and corrections by respondents.

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

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

Percent change to Aug. Other Index Commodity 2020 from: Grouping code Aug. 2020¹ base Apr. 2020¹ July 2020¹ Aug. 2019 July 2020 Goods 192.9 All commodities. 185.5 194.0 -2.60.6 Farm products, processed foods and feeds..... 187.1 190.0 190.5 -0.9 0.3 Farm products.... 140.4 147.1 150.1 -4.3 2.0 210.0 210.3 0.4 -0.3 Processed foods and feeds..... 211.0 Industrial commodities. 184.7 193.0 194.3 -29 0.7 Textile products and apparel..... 149.2 149.5 149.4 -0.8 -0.1 Hides, skins, leather, and related products..... 04 152.0 144.3 144.5 -11.8 0.1 Fuels and related products and power..... 05 116.1 1447 147 4 -1271.9 275.6 Chemicals and allied products..... 273.4 277.7 -3.1 0.8 Rubber and plastic products. 07 194.4 193.0 192.6 -0.2 -1.6 Lumber and wood products. 08 236.5 248.7 261.4 11.0 5 1 Pulp, paper, and allied products..... 258.4 259.0 259.1 0.3 0.0 215.9 217.3 Metals and metal products..... 10 216.0 -0.8 0.6 Machinery and equipment..... 1448 1448 1448 0.9 0.0 178.6 179.6 Furniture and household durables..... 179.2 1.7 0.2 Nonmetallic mineral products..... 13 257.5 257.0 256.6 0.9 -0.2 Transportation equipment.... 14 183.6 183.4 183.4 0.5 0.0 280.5 282.6 Miscellaneous products.... 283.1 2.9 0.2 205.2 205.8 206.5 0.0 Industrial commodities less fuels..... 0.3 Other commodity groupings Petroleum products, refined..... 057 90.3 149.1 149.1 -23.2 0.0 061 211.0 217.6 219.5 -10.7 Industrial chemicals. 0.9 Rubber and rubber products. 071 178.8 177.5 177.5 -1.3 0.0 204.5 239.6 266.6 27.6 11.3 Iron and steel..... 101 204.7 200.4 198 7 -8.8 -0.8 245.1 250.7 259.5 6.9 Nonferrous metals. 102 3.5 250.9 250.9 251.5 0.2 General purpose machinery and equipment..... 114 1.6 Electrical machinery and equipment..... 117.7 117.7 117.5 0.7 -0.2 Electronic components and accessories.... 1178 64.9 64 7 64.3 -18 -0.6 280.0 280.9 281.0 Aircraft and aircraft equipment.... 142 1.3 0.0 Services and construction 06/09 127 1 128 2 127 7 Transportation services..... -3.5 -0.4 Services related to transportation activities..... 06/09 113.2 109.9 107.4 -8.4 -2.3 Warehousing, storage, and related activities..... 12/08 106.8 105.6 107.7 8.0 2.0 Publishing sales, excluding software.... 06/09 127 6 129 1 128 1 -0.8 46 Software publishing..... 06/09 92.7 93.1 92.8 -0.4 -0.3 Network compensation from broadcast and cable television and radio..... 06/09 146.5 146.5 146.5 4.6 0.0 06/09 -1.8 Advertising space and time sales. 92.8 89.3 93.4 4.6 Telecommunication, cable, and internet user services..... 37 06/09 104.3 103.7 103.5 1.2 -0.2 Data processing and related services..... 06/09 103.3 103.5 104.5 3.2 1.0 06/09 86.7 80.3 82.3 -14.4 2.5 Credit intermediation services (partial)..... 40 06/09 167.8 175.6 179.3 -1.0 21 Investment services. Insurance and annuities..... 06/09 124.5 124.8 124.5 1.0 -0.2 42 06/09 108.5 108.7 108.5 0.4 Commissions and fees from sales and administration of insurance policies (partial). . . -0.2 Real estate services (partial)..... 43 06/09 126.4 128.8 129.5 1.7 0.5 Rental and leasing of goods (partial)..... 06/09 86.2 94.5 94.9 -2.5 0.4 06/09 120.9 120.7 121.1 0.4 0.3 Professional services (partial). 45 Employment services. 46 06/09 115.4 118.0 119.0 29 0.8 Travel arrangement services..... 06/09 98.9 90.6 94.2 -12.9 4.0 03/09 122.2 Selected security services (partial)..... 121.5 122.0 3.8 0.2 Cleaning and building maintenance services (partial)..... 49 03/09 112.3 112.3 112.0 -0.2 -0.3 Waste collection and remediation services (partial)..... 12/08 136.5 134.7 135.4 2.7 0.5 06/09 123.4 124.5 124.9 2.8 Health care services.... 51 0.3 Accommodation services.... 06/09 98.6 103.3 103.0 -19.7 -0.3 06/09 120.7 119.8 Food and beverages for immediate consumption services (partial)..... 121.5 -0.4-1.4 06/09 55 132.6 132.7 132.8 0.1 Repair and maintenance services (partial)..... 1.6 Entertainment services (partial)..... 56 06/09 116.6 118.2 1174 -1.5 -0.7 Wholesale trade services..... 06/09 122.2 124.2 125.5 1.5 1.0 06/09 125.5 123.6 Retail trade services.... 58 121.9 3.1 1.4 Metal treatment services..... 59 12/84 189.6 189.8 189.7 0.9 -0.1 06/85 222.8 220.9 218.4 Mining services..... -5.5 -1.1 06/10 Contract work on textile products, apparel, and leather..... 119.8 120.0 120.5 4.0 0.4 Construction (partial)..... 06/09 124.8 125.2 124.9 1.4 -0.2

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

¹ The indexes for April 2020 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.