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<http://stats.bls.gov/ppihome.htm> DECEMBER 11, 1998

Producer Price Indexes -- November 1998

The Producer Price Index for Finished Goods decreased 0.2 percent in November, seasonally adjusted, the Bureau of Labor Statistics of the U.S. Department of Labor reported today. This decline followed a rise of 0.2 percent in October and an advance of 0.3 percent in September. The index for finished goods other than foods and energy rose 0.1 percent, following a similar increase a month ago. Prices received by producers of intermediate goods declined 0.2 percent for the third consecutive month. The crude goods index fell 1.4 percent, after a 1.7-percent increase in October. (See table A.)

Among finished goods, prices for finished energy goods decreased 1.2 percent, following a 1.2-percent advance in October. The index for finished consumer foods also turned down, after rising in the previous month. Prices for finished consumer goods other than foods and energy and for capital equipment edged up.

Table A. Monthly and annual percent changes in selected stage-of-processing price indexes, seasonally adjusted

Month	Total	Foods	Energy	Finished ed goods	Except foods and energy	Change in finished goods from 12 months ago (unadj.)	Inter- mediate goods	Crude goods

1997							
Nov.	-0.2	-0.3	-0.4	-0.1	-0.7	0.2	1.6
Dec.	-0.2	0	-0.6	-0.1	-1.2	-0.2	-5.6
1998							
Jan.	-0.6	-0.4	-3.7	0	-1.7	-0.6	-5.8
Feb.	-0.1	0.2	-1.8	0.1	-1.5	-0.3	-1.9
Mar.	-0.1	-0.3	-2.3	0.5	-1.5	-0.4	-1.2
Apr.	0.2	0.5	0.1	0.1	-0.9	0.1	1.3
May	0.1	-0.4	0.8	0	-0.8	-0.1	-0.4
June	-0.2	0.1	-1.2	-0.1	-0.7	-0.3	-2.6
July	0.2	0.4	r-0.1	0.2	r-0.2	r0	r0.1
Aug.	-0.4	-0.4	r-2.4	-0.1	-0.8	r-0.4	r-3.7
Sept.	0.3	0.4	-0.1	0.4	-0.9	-0.2	-1.6
Oct.	0.2	0.4	1.2	0.1	-0.7	-0.2	1.7
Nov.	-0.2	-0.5	-1.2	0.1	-0.7	-0.2	-1.4

r=revised. Some of the figures shown above and elsewhere in this release may differ from those previously reported because data for July 1998 have been revised to reflect the availability of late reports and corrections by respondents.

For the first 11 months of 1998, the Producer Price Index for Finished Goods declined at a 0.6-percent seasonally adjusted annual rate (SAAR). This compares with a 1.2-percent decrease during all of 1997. Prices for finished goods other than foods and energy rose at a 1.5-percent SAAR for the first 11 months of 1998, after showing no change in the prior year. The index for intermediate goods fell at a 2.9-percent SAAR from December 1997 to November 1998, following a 0.8-percent decline during calendar year 1997. Prices for crude goods dropped at a 15.8-percent SAAR during the first 11 months of 1998, after an 11.3-percent decrease during all of 1997.

Before seasonal adjustment, the Producer Price Index for Finished Goods decreased 0.5 percent in November to stand at 130.8 (1982=100). From November 1997 to November 1998, the finished goods price index decreased 0.7 percent. Over the past 12 months, prices for finished consumer foods advanced 0.1 percent, the index for finished energy goods fell 11.0 percent, and prices for finished goods other than foods and energy increased 1.3 percent. Prices received by domestic producers of intermediate goods declined 2.9 percent for the 12 months ended in November, and the index for crude goods fell 19.0 percent during the same period.

#### Finished goods

The index for finished energy goods declined 1.2 percent in November,

following a 1.2-percent advance in October. Gasoline prices dropped 6.9 percent, after rising 5.7 percent in the previous month. The index for finished lubricants also turned down in November, following an increase in the prior month. Home heating oil prices fell more than in October. The index for residential natural gas rose less than a month ago. By contrast, prices for residential electric power rose more than in October.

Table B. Monthly and annual percent changes in selected price indexes for intermediate goods and crude goods, seasonally adjusted

Month	Intermediate goods				Crude goods			
	Foods	Energy	Excluding foods and energy	Change in intermediate goods from 12 months ago (unadj.)	Foods	Energy	Excluding foods and energy	Change in crude goods from 12 months ago (unadj.)
1997								
Nov.	1.6	0.0	0.1	-0.2	-0.1	4.6	-0.4	-0.1
Dec.	-0.6	-1.5	0	-0.8	0	-13.2	-1.6	-11.3
1998								
Jan.	-3.6	-2.9	-0.1	-1.7	-3.4	-11.2	-1.9	-19.5
Feb.	-0.3	-1.7	-0.1	-1.8	-0.7	-4.3	-0.3	-13.8
Mar.	-1.5	-2.2	0	-1.8	0.3	-2.9	-1.4	-7.6
Apr.	-0.9	0.6	-0.1	-1.6	0.2	4.5	-1.1	-7.0
May	0.3	0.4	-0.1	-1.5	-0.9	0	0.1	-9.0
June	-0.5	-1.5	-0.1	-1.8	0.6	-8.0	-0.4	-8.9
July	r0.4	r0	r-0.1	r-1.6	r-3.5	r6.0	r-1.4	r-8.4
Aug.	r-1.1	r-2.2	r0	-2.1	r-1.0	r-7.9	r-2.3	-12.0
Sept.	-0.5	0.6	-0.3	-2.4	-1.9	-1.7	-1.3	-14.4
Oct.	-0.2	0.5	-0.3	-2.5	4.0	1.9	-2.7	-16.7
Nov.	0.6	-0.8	-0.2	-2.9	-1.9	0	-2.5	-19.0

r=revised. Some of the figures shown above and elsewhere in this release may differ from those previously reported because data for July 1998 have been revised to reflect the availability of late reports and corrections by respondents.

The index for finished consumer foods moved down 0.5 percent in November, after advancing 0.4 percent in October. Prices for fresh and dry

vegetables declined 16.1 percent, following a 13.5-percent rise a month ago. Prices for eggs for fresh use, fresh fruits and melons, and dairy products also fell, after increasing in the previous month. By contrast, the index for beef and veal turned up 0.8 percent, following a 2.1-percent decline in October. Prices for processed fruits and vegetables and roasted coffee also turned up, after falling in the prior month.

The index for capital equipment turned up 0.1 percent in November, after showing no change in October. Price increases for heavy motor trucks, light motor trucks, and for X-ray and electromedical equipment slightly outweighed price decreases for electronic computers, civilian aircraft, and railroad equipment.

The index for finished consumer goods other than foods and energy rose 0.1 percent in November, following no change in October. Rising prices for alcoholic beverages, passenger cars, light motor trucks, and sanitary papers and health products offset falling prices for soaps and synthetic detergents and for men's and boys' apparel.

#### Intermediate goods

The Producer Price Index for Intermediate Materials, Supplies, and Components declined 0.2 percent in November, seasonally adjusted, after registering a similar 0.2-percent decline in October. Falling prices for intermediate energy goods, nondurable manufacturing materials, durable manufacturing materials, and for materials and components for construction outweighed rising prices for intermediate foods and feeds. Excluding foods and energy, the index for intermediate materials decreased 0.2 percent, following a 0.3-percent decrease a month earlier. (See table B.)

The index for intermediate energy goods declined 0.8 percent in November, after posting a 0.5-percent advance in October. Prices for gasoline decreased 6.9 percent, following a 5.7-percent increase in the prior month. The indexes for jet fuels, commercial electric power, natural gas to electric utilities, and commercial natural gas also fell, after rising last month. Liquefied petroleum gas prices rose less than in the previous month. By contrast, the index for industrial electric power gained 1.5 percent, following a 0.5-percent drop in October. The indexes for industrial natural gas and residual fuels also rose, after falling a month earlier. Prices for diesel fuel fell less than a month ago.

The index for nondurable manufacturing materials declined 0.6 percent in November, following a 0.7-percent decline in October. Falling prices for plastic resins and materials, paper, paperboard, woodpulp, nitrogenates, and finished fabrics outweighed rising prices for basic

organic chemicals, gray fabrics, and phosphates.

The index for durable manufacturing materials fell 0.6 percent in November, after registering a 0.9-percent drop in October. Declining prices for steel mill products, primary nonferrous metals, building paper and board, hardwood lumber, and copper and brass mill shapes outweighed rising prices for plywood, prepared paint, and cement.

The index for materials and components for construction declined 0.1 percent in November, following a 0.3-percent decline in October. Price decreases for softwood lumber, nonferrous wire and cable, wiring devices, and millwork offset rising prices for plywood, gypsum products, metal valves, and automobile stampings.

The index for intermediate foods and feeds advanced 0.6 percent, after posting a 0.2-percent decline in October. Prices for prepared animal feeds rose 1.4 percent, following a 2.1-percent drop in the prior month. The indexes for crude vegetable oils and for beef and veal also rose, after falling last month. Prices for pork fell less than a month ago. On the other hand, the index for fluid milk products decreased 0.6 percent, following a 1.8-percent increase in October. Prices for flour and for natural, processed, and imitation cheese advanced less than in the previous month. The index for confectionery materials moved down, after rising a month earlier.

#### Crude Goods

The Producer Price Index for Crude Materials for Further Processing turned down 1.4 percent in November, seasonally adjusted, after rising 1.7 percent in October. Prices for crude foodstuffs and feedstuffs also fell, after advancing in the prior month. The index for crude energy materials showed no change, following an increase a month ago. By contrast, the index for basic industrial materials fell less than in the previous month. (See table B.)

Prices for crude foodstuffs and feedstuffs declined 1.9 percent, following a 4.0-percent gain in October. The index for slaughter hogs dropped 30.9 percent, after a 0.4-percent rise in the prior month. Prices for slaughter broilers and fryers, slaughter cattle, and fresh and dry vegetables also turned down, after rising in the previous month. The index for corn rose less than a month ago. Conversely, prices for soybeans increased 4.1 percent, following a 1.9-percent rise in October. The indexes for unprocessed shellfish and raw cane sugar turned up, after falling in the previous month.

The index for crude energy materials showed no change in November, following a 1.9-percent advance in October. Prices for crude petroleum fell 7.4 percent, after a 2.2-percent decline in the prior month. The index for natural gas rose 2.7 percent, following a 5.0-percent gain a month ago. By contrast, prices for coal rose 2.5 percent, following a 0.4-percent increase in the previous month.

Prices for crude nonfood materials less energy declined 2.5 percent, after dropping 2.7 percent in October. Iron and steel scrap prices fell 8.5 percent, following a 12.4-percent decrease in the prior month. The indexes for cattle hides, copper ores, and pulpwood also fell less than in the previous month. On the other hand, prices for aluminum base scrap rose 0.1 percent, following a 2.5-percent increase a month ago. The indexes for gold ores and copper base scrap fell, after rising in the prior month. Prices for softwood logs, bolts, and timber decreased more than in the previous month.

Net output price indexes for mining, manufacturing, and other industries

Mining. The Producer Price Index for the Net Output of Total Mining Industries fell 0.3 percent in November, following a 1.2-percent advance in October. (Net output price indexes are not seasonally adjusted.) Prices for the oil and gas extraction industry group turned down 0.5 percent, after showing a 1.7-percent increase in the prior month. By contrast, the index for the coal mining industry group rose 1.6 percent, following a 0.2-percent increase in October. The metal mining industry group index fell 2.2 percent, less than in the previous month. In November, the Producer Price Index for the Net Output of Total Mining Industries stood at 67.9 (December 1984=100), 27.1 percent below its year-ago level.

Manufacturing. The Producer Price Index for the Net Output of Total Manufacturing Industries decreased 0.2 percent in November, after registering a 0.3-percent increase in October. The index for the petroleum refining and related products industry group turned down 4.0 percent, following a 1.7-percent advance in October. Prices for the transportation equipment industry group were unchanged, following a 2.7-percent increase in the previous month. The index for the printing and publishing industry group rose less than a month ago. By contrast, prices for the food and kindred products, chemicals and allied products, and measuring and controlling instruments industry groups showed no change after falling in October. The index for the lumber and wood products industry group fell less than in the prior month. In November, the Producer Price Index for the Net Output of Total Manufacturing Industries stood at 126.2 (December 1984=100), 1.0 percent below its year-ago level.

Other. Among other industries in November, price declines were registered for real estate agents and managers, deep sea foreign transportation of freight, telephone communications (except radiotelephone), hotels and motels, water transportation of freight (not elsewhere classified), and passenger car rental (without drivers). These decreases offset price increases for operators and lessors of nonresidential buildings, scheduled air transportation, skilled and intermediate care facilities, general medical and surgical hospitals, building cleaning and maintenance services (not elsewhere classified), and accounting, auditing, and bookkeeping services.

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Producer Price Index data for December 1998 will be released on Wednesday, January 13, 1999 at 8:30 a.m. (E.S.T.)

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Information in this news release will be made available to sensory impaired individuals upon request. Voice phone: 202-606-7828; TDD phone: 202-606-5897; TDD Message Referral phone: 1-800-326-2577.

Table 1. Producer price indexes and percent changes by stage of processing (1982=100)

Grouping	Relative importance	Unadjusted index			Unadjusted percent change to Nov. 1998 from:		Seasonally adjusted percent change from:			
		Dec. 1997	July 1998	Oct. 1998	Nov. 1998	Nov. 1997	Oct. 1998	Aug. to Sept.	Sept. to Oct.	Oct. to Nov.
		1997 1/	1998 2/	1998 2/	1998 2/	1997	1998	Sept.	Oct.	Nov.
Finished goods.....	100.000	131.0	131.4	130.8	-0.7	-0.5	0.3	0.2	-0.2	
Finished consumer goods.....	74.755	129.4	129.7	129.0	-.8	-.5	.4	.3	-.3	
Finished consumer foods.....	23.199	134.7	135.5	134.7	.1	-.6	.4	.4	-.5	
Crude.....	1.761	128.4	134.0	126.3	-3.1	-5.7	3.1	9.7	-6.3	
Processed.....	21.438	135.2	135.6	135.3	.3	-.2	.2	-.4	0	
Finished consumer goods, excluding foods.....	51.556	127.0	127.1	126.3	-1.3	-.6	.3	.3	-.2	
Nondurable goods less foods.....	35.297	123.3	122.5	121.4	-2.0	-.9	.1	.3	-.2	

Durable goods.....		16.259	132.0	134.3	134.2	.1	-.1	.9	.1	.2
Capital equipment.....		25.245	137.1	138.0	138.1	-.1	.1	.4	0	.1
Manufacturing industries.....		6.590	137.9	138.0	138.2	.3	.1	.1	.1	.1
Nonmanufacturing industries.....		18.655	136.8	137.9	137.9	-.3	0	.4	0	.1
Intermediate materials, supplies, and components.....		100.000	123.5	122.3	121.8	-2.9	-.4	-.2	-.2	-.2
Materials and components for manufacturing.....		47.584	126.0	125.1	124.7	-2.7	-.3	-.3	-.4	-.3
Materials for food manufacturing.....		3.500	122.9	125.3	125.3	.9	0	1.1	.7	.1
Materials for nondurable manufacturing.....		16.157	126.9	124.8	124.1	-4.5	-.6	-.9	-.7	-.6
Materials for durable manufacturing.....		10.575	127.8	126.0	125.3	-5.1	-.6	-.5	-.9	-.6
Components for manufacturing.....		17.352	125.8	125.7	125.7	-.2	0	0	0	-.1
Materials and components for construction.....		13.519	147.2	146.7	146.6	0	-.1	0	-.3	-.1
Processed fuels and lubricants.....		13.015	83.2	80.5	78.9	-10.6	-2.0	.8	.5	-.7
Manufacturing industries.....		4.844	88.3	84.7	84.0	-8.0	-.8	.8	-.6	.9
Nonmanufacturing industries.....		8.171	80.0	77.9	75.8	-12.2	-2.7	.7	1.2	-1.7
Containers.....		3.784	141.3	140.1	139.6	1.1	-.4	.1	-.6	-.4
Supplies.....		22.098	135.1	134.1	134.2	-1.4	.1	-.3	-.1	.1
Manufacturing industries.....		4.941	140.7	140.7	140.6	.3	-.1	0	.1	-.1
Nonmanufacturing industries.....		17.157	132.5	131.3	131.5	-1.8	.2	-.4	-.2	.2
Feeds.....		1.618	101.4	90.5	92.4	-25.2	2.1	-5.3	-2.5	2.1
Other supplies.....		15.539	136.4	136.2	136.2	.6	0	0	0	0
Crude materials for further processing.....		100.000	98.1	93.9	92.9	-19.0	-1.1	-1.6	1.7	-1.4
Foodstuffs and feedstuffs.....		42.088	103.7	103.4	102.4	-7.2	-1.0	-1.9	4.0	-1.9
Nonfood materials.....		57.912	90.6	83.9	83.0	-26.8	-1.1	-1.5	0	-1.1
Nonfood materials except fuel 3/.....		33.172	85.3	80.7	77.4	-23.9	-4.1	3.6	-2.5	-3.9
Manufacturing 3/.....		31.843	77.5	73.2	70.1	-24.8	-4.2	3.8	-2.5	-4.1
Construction.....		1.329	192.6	190.4	188.5	-5.6	-1.0	-.6	-.6	-1.3
Crude fuel 4/.....		24.740	90.7	81.6	83.9	-31.6	2.8	-7.9	3.6	2.8
Manufacturing industries.....		2.039	88.6	80.0	81.4	-30.7	1.8	-7.2	3.4	1.8
Nonmanufacturing industries.....		22.701	92.5	83.1	85.7	-31.8	3.1	-8.0	3.5	3.1
Special groupings										
Finished goods, excluding foods.....	5/	76.801	129.7	130.0	129.6	-.9	-.3	.3	.2	-.1
Intermediate materials less foods and feeds.....	6/	94.882	123.9	122.7	122.2	-2.7	-.4	-.2	-.2	-.2
Intermediate foods and feeds.....	6/	5.118	116.4	114.6	115.2	-7.3	.5	-.5	-.2	.6
Crude materials less agricultural products 3/ 7/.....	8/	55.307	89.7	82.7	81.8	-27.7	-1.1	-1.9	-.1	-1.1
Finished energy goods.....	5/	13.585	76.9	74.8	72.9	-11.0	-2.5	-.1	1.2	-1.2
Finished goods less energy.....	5/	86.415	141.0	142.1	141.9	.9	-.1	.4	.1	-.1
Finished consumer goods less energy.....	5/	61.170	142.5	143.6	143.4	1.4	-.1	.5	.1	-.1
Finished goods less foods and energy.....	5/	63.216	143.4	144.6	144.7	1.3	.1	.4	.1	.1
Finished consumer goods less foods and energy.....	5/	37.971	147.4	148.9	149.0	2.2	.1	.5	0	.1



Consumer nondurable goods less foods and energy..	5/	21.712	159.2	160.0	160.2	3.8	.1	.3	-.1	.2
Intermediate energy goods.....	6/	13.123	82.9	80.3	78.7	-10.6	-2.0	.6	.5	-.8
Intermediate materials less energy.....	6/	86.877	132.5	131.6	131.4	-1.8	-.2	-.2	-.4	-.2
Intermediate materials less foods and energy.....	6/	81.759	133.6	132.7	132.4	-1.5	-.2	-.3	-.3	-.2
Crude energy materials 3/.....	8/	36.418	70.9	65.4	65.4	-32.6	0	-1.7	1.9	0
Crude materials less energy.....	8/	63.582	113.9	111.0	109.3	-10.1	-1.5	-1.7	1.7	-2.1
Crude nonfood materials less energy 4/.....	8/	21.494	143.8	133.7	130.0	-15.7	-2.8	-1.3	-2.7	-2.5

1/ Comprehensive relative importance figures are initially computed after the publication of December indexes and are recalculated after final December indexes are available. The first-published and final December relative importances initially appear, respectively, in the release tables containing January and May data.

2/ The indexes for July 1998 have been recalculated to incorporate late reports and corrections by respondents. All indexes are subject to revision four months after original publication.

3/ Includes crude petroleum.

4/ Excludes crude petroleum.

5/ Percent of total finished goods.

6/ Percent of total intermediate materials.

7/ Formerly titled "Crude materials for further processing, excluding crude foodstuffs and feedstuffs, plant and animal fibers, oilseeds, and leaf tobacco."

8/ Percent of total crude materials.

Table 2. Producer price indexes and percent changes for selected commodity groupings by stage of processing (1982=100 unless otherwise indicated)

Commodity code	Grouping	Unadjusted index			Unadjusted percent change to Nov. 1998 from:		Seasonally adjusted percent change from:		
		July 1998 1/	Oct. 1998 1/	Nov. 1998 1/	Nov. 1997	Oct. 1998	Aug. to Sept.	Sept. to Oct.	Oct. to Nov.
	FINISHED GOODS.....	131.0	131.4	130.8	-0.7	-0.5	0.3	0.2	-0.2
	FINISHED CONSUMER GOODS.....	129.4	129.7	129.0	-.8	-.5	.4	.3	-.3
	FINISHED CONSUMER FOODS.....	134.7	135.5	134.7	.1	-.6	.4	.4	-.5
01-11	Fresh fruits and melons 2/.....	90.2	91.7	85.4	-4.7	-6.9	.8	.9	-6.9
01-13	Fresh and dry vegetables 2/.....	146.6	148.4	124.5	-4.2	-16.1	12.4	13.5	-16.1
01-71-07	Eggs for fresh use (Dec. 1991=100).....	80.8	92.0	100.3	-14.8	9.0	-8.8	10.2	-7.1
02-11	Bakery products 2/.....	175.6	176.2	176.3	.9	.1	-.3	.4	.1
02-13	Milled rice 2/.....	123.7	127.7	127.4	.2	-.2	1.0	2.5	-.2
02-14-02	Pasta products (June 1985=100) 2/.....	123.1	122.9	122.8	-.6	-.1	-.2	0	-.1
02-21-01	Beef and veal.....	99.3	96.9	99.9	-4.0	3.1	-2.3	-2.1	.8

02-21-04	Pork.....	101.3	90.8	83.9	-24.6	-7.6	-2.8	-4.2	-3.2
02-22-03	Processed young chickens.....	133.1	132.4	126.0	9.2	-4.8	1.4	-2.9	-4.2
02-22-06	Processed turkeys.....	96.7	101.7	102.1	-1.2	.4	2.7	3.7	.4
02-23	Finfish and shellfish.....	179.1	181.3	185.4	-2.0	2.3	-.6	-3.9	-.6
02-3	Dairy products.....	135.6	148.0	148.6	10.9	.4	4.0	1.6	-.1
02-4	Processed fruits and vegetables 2/.....	126.1	125.2	126.6	1.4	1.1	-.2	-.9	1.1
02-55	Confectionery end products 2/.....	169.0	169.7	169.9	.9	.1	0	.2	.1
02-62	Soft drinks.....	134.6	135.0	134.7	1.7	-.2	.1	-.1	.1
02-63-01	Roasted coffee 2/.....	143.2	135.8	137.7	-9.3	1.4	0	-4.4	1.4
02-76	Shortening and cooking oils 2/.....	143.7	142.7	143.5	.9	.6	3.8	.1	.6
	FINISHED CONSUMER GOODS EXCLUDING FOODS.....	127.0	127.1	126.3	-1.3	-.6	.3	.3	-.2
02-61	Alcoholic beverages.....	134.9	135.0	136.4	1.8	1.0	.8	-.1	1.2
03-81-01	Women's apparel 2/.....	121.7	122.0	122.1	.7	.1	.3	.5	.1
03-81-02	Men's and boys' apparel.....	133.6	133.5	133.2	.5	-.2	.1	-.1	-.1
03-81-03	Girls', children's, and infants' apparel 2/.....	122.2	121.9	121.9	-.2	0	-1.6	1.2	0
03-82	Textile housefurnishings 2/.....	122.9	123.2	123.2	.2	0	0	.3	0
04-3	Footwear.....	144.5	144.7	144.9	.6	.1	-.2	0	.1
05-41	Residential electric power (Dec. 1990=100).....	115.0	111.1	108.5	-1.6	-2.3	.5	.1	.3
05-51	Residential gas (Dec. 1990=100).....	112.6	113.8	114.2	-6.5	.4	-1.1	1.1	.4
05-71	Gasoline.....	56.0	52.8	49.4	-27.2	-6.4	-2.0	5.7	-6.9
05-73-02-01	Fuel oil No. 2.....	45.5	47.9	45.6	-31.4	-4.8	6.6	-.4	-5.6
06-35	Pharmaceutical preps, ethical (Prescription).....	333.8	332.8	333.2	20.2	.1	.3	0	.2
06-36	Pharmaceutical preps,proprietary (Over-counter).....	184.3	184.2	184.8	-.2	.3	.1	-.3	.2
06-71	Soaps and synthetic detergents 2/.....	126.3	126.1	125.2	-1.3	-.7	.4	-.5	-.7
06-75	Cosmetics and other toilet preparations 2/.....	133.6	133.3	133.6	2.2	.2	.4	-.7	.2
07-12	Tires, tubes, tread, etc 2/.....	93.7	93.9	94.0	-.3	.1	.2	-.1	.1
09-15-01	Sanitary papers and health products 2/.....	145.6	144.2	145.3	-.5	.8	-1.0	-.3	.8
09-31-01	Newspaper circulation 2/.....	202.7	202.8	202.8	.4	0	0	0	0
09-32-01	Periodical circulation.....	193.7	194.4	194.6	2.7	.1	.7	-.2	.3
09-33	Book publishing 2/.....	204.4	208.7	209.3	2.0	.3	-.2	2.3	.3
12-1	Household furniture 2/.....	148.4	149.0	149.0	1.4	0	.1	.3	0
12-3	Floor coverings 2/.....	128.3	127.3	128.3	-.2	.8	-.3	-.2	.8
12-4	Household appliances 2/.....	109.2	109.0	109.0	-.2	0	-.1	.2	0
12-5	Home electronic equipment 2/.....	76.8	74.5	74.5	-1.7	0	0	-3.0	0
12-62	Household glassware 2/.....	163.0	163.0	162.9	.2	-.1	.1	-.1	-.1
12-64	Household flatware 2/.....	138.3	138.3	139.4	.7	.8	.5	-.5	.8
12-66	Lawn and garden equip., ex. tractors 2/.....	131.4	132.2	132.2	1.0	0	.5	-.1	0
14-11-01	Passenger cars.....	130.1	135.5	135.4	.4	-.1	2.2	.5	.2
15-11	Toys, games, and children's vehicles.....	124.3	123.9	124.0	-.8	.1	-.3	.1	.2
15-12	Sporting and athletic goods 2/.....	126.2	126.4	126.4	1.1	0	0	.2	0
15-2	Tobacco products 2/.....	278.7	287.4	288.1	12.4	.2	.3	0	.2
15-5	Mobile homes 2/.....	154.3	155.1	155.3	1.4	.1	.3	.1	.1
15-94-02	Jewelry, platinum, & karat gold 2/.....	127.9	128.3	128.4	-.6	.1	.1	.4	.1

15-94-04	Costume jewelry and novelties 2/.....	139.8	139.5	139.8	.7	.2	0	0	.2
	CAPITAL EQUIPMENT.....	137.1	138.0	138.1	-.1	.1	.4	0	.1
11-1	Agricultural machinery and equipment 2/.....	150.0	149.8	149.7	0	-.1	-.1	.5	-.1
11-2	Construction machinery and equipment.....	145.3	145.1	145.1	1.5	0	0	-.2	.1
11-37	Metal cutting machine tools 2/.....	159.7	160.0	160.3	1.8	.2	.1	-.2	.2
11-38	Metal forming machine tools 2/.....	158.1	158.5	158.6	2.1	.1	.3	0	.1
11-39	Tools, dies, jigs, fixtures, and ind. molds 2/.....	138.7	138.8	139.0	.4	.1	0	.1	.1
11-41	Pumps, compressors, and equipment.....	149.2	149.1	149.2	1.3	.1	.1	-.2	.2
11-44	Industrial material handling equipment 2/.....	131.6	132.0	131.7	1.2	-.2	.3	.2	-.2
11-51	Electronic computers (Dec. 1990=100) 2/.....	24.5	22.6	22.2	-26.0	-1.8	-1.3	-2.2	-1.8
11-62	Textile machinery 2/.....	152.4	152.8	152.8	.2	0	.3	0	0
11-64	Paper industries machinery (June 1982=100).....	160.1	160.4	162.3	1.8	1.2	.1	.2	1.2
11-65	Printing trades machinery 2/.....	143.1	143.6	142.1	2.2	-1.0	0	.2	-1.0
11-74	Transformers and power regulators 2/.....	130.9	132.4	131.7	1.9	-.5	1.4	0	-.5
11-76	Communication & related equip. (Dec. 1985=100) 2/...	113.7	113.6	113.7	-1.0	.1	-.7	.1	.1
11-79-05	X-ray and electromedical equipment 2/.....	106.5	105.9	106.9	-.1	.9	.1	-.3	.9
11-91	Oil field and gas field machinery 2/.....	125.6	126.1	126.4	1.3	.2	-.1	.4	.2
11-92	Mining machinery and equipment 2/.....	142.1	142.1	142.3	.4	.1	.1	-.2	.1
11-93	Office and store machines and equipment 2/.....	112.4	112.2	112.3	-.3	.1	0	-.2	.1
12-2	Commercial furniture 2/.....	155.2	155.1	155.3	.2	.1	0	0	.1
14-11-05	Light motor trucks.....	152.0	159.6	159.0	-.1	-.4	2.0	0	.3
14-11-06	Heavy motor trucks 2/.....	142.0	142.8	145.4	4.5	1.8	.1	.4	1.8
14-14	Truck trailers 2/.....	135.6	134.6	135.3	4.2	.5	-.1	-.5	.5
14-21-02	Civilian aircraft (Dec. 1985=100).....	150.2	150.1	150.1	0	0	.1	.1	-.1
14-31	Ships (Dec. 1985=100) 2/.....	145.8	145.8	145.8	.3	0	0	0	0
14-4	Railroad equipment.....	135.2	135.3	134.1	-.1	-.9	-.3	-.1	-1.2
	INTERMEDIATE MATERIALS, SUPPLIES, AND COMPONENTS.....	123.5	122.3	121.8	-2.9	-.4	-.2	-.2	-.2
	INTERMEDIATE FOODS AND FEEDS.....	116.4	114.6	115.2	-7.3	.5	-.5	-.2	.6
02-12-03	Flour 2/.....	108.0	109.1	110.4	-3.3	1.2	-1.2	6.1	1.2
02-53	Refined sugar 2/.....	118.6	119.9	119.6	-.3	-.3	.7	-.7	-.3
02-54	Confectionery materials.....	93.6	93.4	92.9	-5.6	-.5	-1.7	3.2	-.9
02-72	Crude vegetable oils 2/.....	130.8	124.3	131.0	3.9	5.4	9.1	-5.4	5.4
02-9	Prepared animal feeds 2/.....	109.0	99.7	101.1	-21.1	1.4	-4.1	-2.1	1.4
	INTERMEDIATE MATERIALS LESS FOODS AND FEEDS.....	123.9	122.7	122.2	-2.7	-.4	-.2	-.2	-.2
03-1	Synthetic fibers 2/.....	110.8	107.3	106.8	-3.3	-.5	-2.1	-1.5	-.5
03-2	Processed yarns and threads 2/.....	113.0	111.9	111.3	-2.5	-.5	-.7	-.6	-.5
03-3	Gray fabrics 2/.....	121.6	118.7	119.1	-2.1	.3	-.5	-1.7	.3
03-4	Finished fabrics.....	124.0	123.6	122.6	-.9	-.8	.1	-.5	-.6

03-83-03	Industrial textile products 2/.....	130.4	130.7	130.6	0	-.1	-.1	.2	-.1
04-2	Leather.....	179.7	178.9	177.7	-4.0	-.7	-.8	0	-1.3
05-32	Liquefied petroleum gas 2/.....	55.7	54.5	55.3	-35.1	1.5	-3.6	2.1	1.5

See footnotes at end of table.

Table 2. Producer price indexes and percent changes for selected commodity groupings by stage of processing - Continued  
(1982=100 unless otherwise indicated)

Commodity code	Grouping	Unadjusted index			Unadjusted percent change to Nov. 1998 from:		Seasonally adjusted percent change from:		
		July 1998	Oct. 1998	Nov. 1998	Nov. 1997	Oct. 1998	Aug. to Sept.	Sept. to Oct.	Oct. to Nov.
		1998 1/	1998 1/	1998 1/	1997	1998	Sept.	Oct.	Nov.
	INTERMEDIATE MATERIALS LESS FOODS AND FEEDS								
	-Continued.....								
05-42	Commercial electric power.....	137.6	130.6	126.5	-0.4	-3.1	1.0	0.7	-0.1
05-43	Industrial electric power.....	134.8	129.4	127.5	-.3	-1.5	.5	-.5	1.5
05-52	Commercial natural gas (Dec. 1990=100).....	103.8	104.8	109.4	-7.7	4.4	-1.2	.1	-.7
05-53	Industrial natural gas (Dec. 1990=100).....	100.7	100.8	110.3	-8.3	9.4	-.1	-1.9	4.7
05-54	Natural gas to electric utilities (Dec. 1990=100)....	75.1	76.8	86.2	-22.6	12.2	-2.9	8.7	-3.0
05-72-03	Jet fuels.....	42.9	47.6	46.0	-27.8	-3.4	-1.4	4.6	-6.4
05-73-03	No. 2 Diesel fuel.....	44.7	46.9	45.9	-30.2	-2.1	6.7	-5.8	-1.8
05-74	Residual fuel 2/.....	47.7	39.0	39.1	-37.8	.3	11.3	-5.6	.3
06-1	Industrial chemicals 2/.....	121.1	119.7	119.6	-5.2	-.1	-1.2	0	-.1
06-21	Prepared paint.....	155.2	155.6	156.2	2.4	.4	.3	.2	.6
06-22	Paint materials 2/.....	144.6	144.6	143.6	.8	-.7	-.2	.8	-.7
06-31	Medicinal and botanical chemicals 2/.....	135.2	135.2	135.2	.2	0	0	0	0
06-4	Fats and oils, inedible 2/.....	114.6	113.7	113.2	-20.8	-.4	-3.7	2.4	-.4
06-51	Mixed fertilizers.....	115.1	114.2	113.7	.1	-.4	.5	-.9	-.3
06-52-01	Nitrogenates.....	110.7	101.6	98.5	-19.8	-3.1	-3.8	-4.3	-3.1
06-52-02	Phosphates 2/.....	112.9	114.8	115.0	5.2	.2	.1	.7	.2
06-53	Other agricultural chemicals.....	148.5	150.3	149.6	-.5	-.5	-.1	.3	-.8
06-6	Plastic resins and materials 2/.....	125.0	119.0	117.1	-13.0	-1.6	-2.4	-3.3	-1.6
07-11-02	Synthetic rubber 2/.....	117.4	116.3	116.1	-1.9	-.2	-.4	-.6	-.2
07-21	Plastic construction products 2/.....	125.6	125.0	124.7	-2.7	-.2	0	-.3	-.2
07-22	Unsupported plastic film, sheet, & other shapes.....	127.6	127.3	126.5	-3.7	-.6	-1.0	.2	-.9
07-26	Plastic parts and components for manufacturing 2/...	117.0	116.9	116.9	-.2	0	-.1	0	0
08-11	Softwood lumber 2/.....	181.6	171.2	169.4	-13.7	-1.1	-5.1	-1.8	-1.1
08-12	Hardwood lumber 2/.....	179.3	177.4	176.9	-.5	-.3	-.1	-.4	-.3

08-2	Millwork 2/.....	170.9	171.7	171.4	.4	-.2	.2	.3	-.2
08-3	Plywood 2/.....	159.1	157.3	162.0	2.6	3.0	2.8	-8.3	3.0
09-11	Woodpulp 2/.....	126.1	118.7	113.3	-14.7	-4.5	-2.9	-.8	-4.5
09-13	Paper.....	145.5	145.6	144.8	-1.2	-.5	-.3	.1	-.7
09-14	Paperboard.....	152.2	147.0	145.9	-5.5	-.7	-2.1	-2.2	-1.2
09-15-03	Paper boxes and containers 2/.....	155.8	153.4	152.5	2.9	-.6	.3	-1.1	-.6
09-2	Building paper and board 2/.....	136.2	134.9	131.6	-1.6	-2.4	.5	-3.2	-2.4
09-37	Commercial printing (June 1982=100) 2/.....	152.2	153.1	153.0	1.4	-.1	.1	.4	-.1
10-15	Foundry and forge shop products.....	134.9	135.0	134.7	.5	-.2	.1	0	-.2
10-17	Steel mill products 2/.....	114.8	111.7	110.7	-5.1	-.9	-1.1	-1.4	-.9
10-22	Primary nonferrous metals 2/.....	104.6	102.7	100.6	-16.4	-2.0	-.7	.3	-2.0
10-25-01	Aluminum mill shapes 2/.....	139.2	139.8	138.4	-7.5	-1.0	1.1	-.8	-1.0
10-25-02	Copper and brass mill shapes 2/.....	149.0	150.7	149.7	-11.1	-.7	1.5	-.9	-.7
10-26	Nonferrous wire and cable 2/.....	141.8	140.1	138.0	-5.0	-1.5	-.1	-.3	-1.5
10-3	Metal containers 2/.....	108.5	108.5	108.6	-.3	.1	0	0	.1
10-4	Hardware.....	147.3	147.1	147.1	.8	0	.1	-.1	.3
10-5	Plumbing fixtures and brass fittings.....	175.4	174.4	174.5	-.1	.1	-.1	0	.3
10-6	Heating equipment.....	153.2	153.4	153.5	.3	.1	.1	.3	.1
10-7	Fabricated structural metal products.....	143.0	143.1	143.1	1.3	0	.1	.1	0
10-88	Fabricated ferrous wire products (June 1982=100) 2/.....	130.3	130.3	130.6	1.2	.2	-.2	.1	.2
10-89	Other misc. metal products 2/.....	126.3	126.0	126.1	-.2	.1	-.2	0	.1
11-45	Mechanical power transmission equipment.....	157.7	158.0	158.3	1.9	.2	.3	.5	.3
11-48	Air conditioning and refrigeration equipment.....	135.1	135.9	136.1	2.6	.1	1.0	0	0
11-49-02	Metal valves, ex.fluid power (Dec. 1982=100) 2/.....	156.6	156.8	158.6	2.9	1.1	.1	0	1.1
11-49-05	Ball and roller bearings.....	165.2	165.7	165.7	1.5	0	.4	-.1	.1
11-71	Wiring devices.....	154.6	154.5	152.6	-1.3	-1.2	.1	.1	-1.2
11-73	Motors, generators, motor generator sets.....	145.6	146.2	146.1	1.1	-.1	.8	.1	.2
11-75	Switchgear, switchboard, etc., equipment.....	148.3	148.7	149.7	1.8	.7	.2	.5	.1
11-78	Electronic components and accessories 2/.....	99.7	100.0	99.6	-2.0	-.4	.1	.1	-.4
11-94	Internal combustion engines.....	141.0	141.0	141.1	.5	.1	-.1	.1	0
11-95	Machine shop products 2/.....	136.7	136.5	136.6	.7	.1	0	.1	.1
13-11	Flat glass 2/.....	107.9	106.8	106.9	-1.5	.1	1.0	-.2	.1
13-22	Cement.....	147.6	148.0	148.3	5.5	.2	.2	.3	.5
13-3	Concrete products.....	141.3	141.5	141.5	3.5	0	.1	-.1	-.1
13-6	Asphalt felts and coatings 2/.....	99.7	100.5	100.1	.9	-.4	.2	.1	-.4
13-7	Gypsum products 2/.....	179.1	180.1	186.5	7.9	3.6	.4	.7	3.6
13-8	Glass containers 2/.....	125.5	126.0	126.0	.1	0	.4	0	0
14-12	Motor vehicle parts 2/.....	114.8	114.3	114.2	-.9	-.1	-.1	0	-.1
14-23	Aircraft engines & engine parts (Dec. 1985=100).....	136.6	136.1	136.2	1.0	.1	-.4	-.7	.2
14-25	Aircraft parts & aux.equip.,nec (June 1985=100) 2/.....	142.6	143.1	143.3	1.5	.1	1.0	-.1	.1
15-42	Photographic supplies 2/.....	129.0	129.0	129.0	-1.2	0	0	0	0
15-6	Medical/surgical/personal aid devices.....	143.2	143.7	143.7	.4	0	.4	0	.1
	CRUDE MATERIALS FOR FURTHER PROCESSING.....	98.1	93.9	92.9	-19.0	-1.1	-1.6	1.7	-1.4

	CRUDE FOODSTUFFS AND FEEDSTUFFS.....	103.7	103.4	102.4	-7.2	-1.0	-1.9	4.0	-1.9
01-21	Wheat 2/.....	83.9	85.7	89.9	-11.7	4.9	-2.5	14.6	4.9
01-22-02-05	Corn.....	89.8	80.5	84.1	-21.2	4.5	-6.5	13.9	7.3
01-31	Slaughter cattle.....	89.6	89.7	91.2	-7.4	1.7	-2.3	1.6	-2.1
01-32	Slaughter hogs.....	57.2	46.8	30.2	-59.4	-35.5	-9.0	.4	-30.9
01-41-02	Slaughter broilers/fryers.....	172.1	171.6	157.2	28.1	-8.4	-2.9	6.2	-11.2
01-42	Slaughter turkeys.....	109.6	135.5	138.1	12.1	1.9	3.7	4.7	-2.0
01-6	Fluid milk.....	105.9	126.2	130.6	25.5	3.5	3.8	4.4	3.7
01-83-01-31	Soybeans 2/.....	109.6	92.2	96.0	-22.9	4.1	-3.4	1.9	4.1
02-52-01-01	Cane sugar,raw 2/.....	119.7	115.6	116.5	.1	.8	-2.0	-.3	.8
	CRUDE NONFOOD MATERIALS.....	90.6	83.9	83.0	-26.8	-1.1	-1.5	0	-1.1
01-51-01-01	Raw cotton.....	121.8	114.0	112.3	-2.0	-1.5	5.9	-2.7	.2
01-92-01-01	Leaf tobacco 2/.....	95.8	109.6	106.4	-1.9	-2.9	11.0	5.3	-2.9
04-11	Cattle hides 2/.....	160.6	141.1	130.5	-31.4	-7.5	-2.6	-13.0	-7.5
05-1	Coal 2/.....	94.3	91.4	93.7	-.7	2.5	-3.0	.4	2.5
05-31	Natural gas 2/.....	89.0	77.8	79.9	-37.2	2.7	-9.7	5.0	2.7
05-61	Crude petroleum 2/.....	35.9	35.3	32.7	-42.0	-7.4	18.4	-2.2	-7.4
08-5	Logs, timber, etc.....	204.2	200.9	198.6	-6.4	-1.1	-1.0	-1.0	-1.1
09-12	Wastepaper 2/.....	146.7	132.6	126.9	-23.0	-4.3	-3.7	-4.3	-4.3
10-11	Iron ore 2/.....	95.5	95.7	95.6	.4	-.1	.2	-.1	-.1
10-12	Iron and steel scrap 2/.....	175.7	128.8	117.9	-39.8	-8.5	-9.6	-12.4	-8.5
10-21	Nonferrous metal ores (Dec. 1983=100) 2/.....	68.6	66.0	64.2	-13.1	-2.7	1.2	-3.2	-2.7
10-23-01	Copper base scrap 2/.....	114.0	111.2	109.8	-21.9	-1.3	-.2	.5	-1.3
10-23-02	Aluminum base scrap.....	150.5	147.8	147.6	-23.5	-.1	1.1	2.5	.1
13-21	Construction sand, gravel, and crushed stone.....	153.6	153.5	153.6	3.3	.1	-.1	.2	.2

1/ The indexes for July 1998 have been recalculated to incorporate late reports and corrections by respondents. All indexes are subject to revision four months after original publication.

2/ Not seasonally adjusted.

3/ Not available.

Table 3. Producer price indexes for selected commodity groupings (1982=100 unless otherwise indicated)

Commodity code	Grouping	Unadjusted index 1/		
		July 1998	Oct. 1998	Nov. 1998
	Finished Goods (1967=100).....	367.5	368.6	367.1
	All commodities.....	124.9	124.0	123.5

MAJOR COMMODITY GROUPS

	Farm products and processed foods and feeds....	123.0	122.7	122.3
01	Farm products.....	105.0	104.5	102.8
02	Processed foods and feeds.....	131.9	131.7	131.9
	Industrial commodities.....	125.3	124.2	123.7
03	Textile products and apparel.....	123.0	122.3	122.0
04	Hides, skins, leather, and related products..	149.2	146.4	144.7
05	Fuels and related products and power 2/.....	77.2	74.2	72.8
06	Chemicals and allied products 2/.....	144.7	143.2	143.0
07	Rubber and plastic products.....	122.4	122.2	122.0
08	Lumber and wood products.....	178.5	175.5	175.0
09	Pulp, paper, and allied products.....	171.9	171.4	171.0
10	Metals and metal products.....	127.9	125.7	124.8
11	Machinery and equipment.....	124.8	124.7	124.7
12	Furniture and household durables.....	131.5	131.1	131.3
13	Nonmetallic mineral products.....	136.0	136.4	136.7
14	Transportation equipment.....	140.4	142.4	142.4
15	Miscellaneous products.....	155.4	156.5	156.2
	Industrial commodities less fuels and related products and power.....	139.0	138.6	138.4

OTHER COMMODITY GROUPINGS

01-1	Fruits and melons, fresh and dry vegetables, and tree nuts.....	119.9	121.5	109.3
01-2	Grains.....	92.0	84.6	88.5
01-3	Slaughter livestock.....	81.8	78.7	74.9
01-4	Slaughter poultry.....	156.7	161.8	151.4
01-5	Plant and animal fibers.....	120.9	112.6	110.9
01-7	Chicken eggs.....	95.2	111.7	124.7
01-8	Hay, hayseeds, and oilseeds.....	130.4	113.8	117.8
01-83	Oilseeds.....	120.7	103.0	108.8
01-9	Other farm products.....	142.9	163.5	158.7
02-1	Cereal and bakery products.....	157.3	157.5	157.8
02-2	Meats, poultry, and fish.....	114.9	112.0	110.8
02-22	Processed poultry.....	125.4	126.0	122.0
02-5	Sugar and confectionery.....	134.4	134.7	134.6
02-6	Beverages and beverage materials.....	137.1	136.6	137.3
02-63	Packaged beverage materials.....	139.9	133.7	135.3

02-7	Fats and oils.....	139.9	139.4	141.1	
03-81	Apparel.....	126.6	126.7	126.6	
04-4	Other leather and related products.....	144.7	144.8	144.7	
05-3	Gas fuels 2/.....	79.3	70.7	72.5	
05-4	Electric power.....	135.4	130.0	126.9	
05-7	Refined petroleum products.....	52.1	51.0	48.4	
06-3	Drugs and pharmaceuticals.....	247.7	246.9	247.5	
06-5	Agricultural chemicals and products.....	129.1	128.3	127.4	
06-7	Other chemicals and allied products.....	134.9	134.8	134.8	
07-1	Rubber and rubber products.....	115.1	115.2	115.1	
07-11	Rubber, except natural rubber.....	116.8	115.6	115.5	
07-13	Miscellaneous rubber products.....	138.4	138.8	138.6	
07-2	Plastic products.....	129.1	128.8	128.5	
08-1	Lumber.....	178.9	171.1	169.7	
09-1	Pulp, paper, and products, excluding building   paper and board.....	147.7	145.5	144.6	
09-15	Converted paper and paperboard products.....	152.8	151.2	150.9	
10-1	Iron and steel.....	124.2	117.5	115.8	
10-2	Nonferrous metals.....	121.6	120.0	118.3	
10-25	Nonferrous mill shapes.....	133.9	134.2	133.4	
11-3	Metalworking machinery and equipment.....	147.2	147.4	147.5	
11-4	General purpose machinery and equipment.....	147.5	147.8	148.2	
11-6	Special industry machinery.....	159.3	159.6	160.2	
11-7	Electrical machinery and equipment.....	120.8	120.8	120.7	
11-9	Miscellaneous machinery and equipment.....	132.1	132.1	132.1	
12-6	Other household durable goods.....	151.2	151.6	151.7	
13-2	Concrete ingredients.....	148.8	148.9	149.1	
14-1	Motor vehicles and equipment.....	130.2	133.4	133.4	
15-1	Toys, sporting goods, small arms, etc.....	132.4	132.4	132.5	
15-4	Photographic equipment and supplies.....	114.4	114.3	113.3	
15-9	Other miscellaneous products.....	134.6	135.2	134.8	

1/ Data for July 1998 have been revised to reflect the availability of late reports and corrections by respondents. All data are subject to revision four months after original publication.

2/ Prices of some items in this grouping are lagged 1 month.



Table 4. Producer price indexes for the net output of major industry groups, not seasonally adjusted

Industry code	Industry 1/	Index base	Index			Percent change to_Nov._1998_from:	
			July	Oct.	Nov.	Nov.	Oct.
			1998 2/	1998 2/	1998 2/	1997	1998
	Total mining industries.....	12/84	72.3	68.1	67.9	-27.1	-0.3
10	Metal mining.....	12/84	74.7	72.8	71.2	-9.8	-2.2
12	Coal mining.....	12/85	89.9	88.0	89.4	-1.8	1.6
13	Oil and gas extraction.....	12/85	70.1	64.9	64.6	-34.1	-.5
14	Mining and quarrying of non-metallic minerals, except fuels.....	12/84	132.6	132.8	132.8	2.4	0
	Total manufacturing industries.....	12/84	126.2	126.4	126.2	-1.0	-.2
20	Food and kindred products.....	12/84	126.6	126.5	126.5	-.8	0
21	Tobacco manufactures.....	12/84	237.9	247.0	247.8	13.0	.3
22	Textile mill products.....	12/84	118.7	117.8	117.9	-.9	.1
23	Apparel and other finished products made from fabrics and similar materials.....	12/84	124.9	125.1	125.0	.6	-.1
24	Lumber and wood products, except furniture..	12/84	157.0	155.3	155.2	-1.9	-.1
25	Furniture and fixtures.....	12/84	139.6	139.9	139.9	.7	0
26	Paper and allied products.....	12/84	136.7	135.3	134.8	-.8	-.4
27	Printing, publishing, and allied industries.	12/84	173.7	174.8	175.0	2.3	.1
28	Chemicals and allied products.....	12/84	149.5	148.2	148.2	.6	0
29	Petroleum refining and related products.....	12/84	67.0	65.5	62.9	-24.8	-4.0
30	Rubber and miscellaneous plastic products...	12/84	121.9	121.8	121.6	-1.0	-.2
31	Leather and leather products.....	12/84	137.3	137.2	136.5	-1.0	-.5
32	Stone, clay, glass, and concrete products...	12/84	129.9	130.2	130.5	2.1	.2
33	Primary metal industries.....	12/84	120.9	119.1	118.2	-5.1	-.8
34	Fabricated metal products, except machinery and transportation equipment.....	12/84	128.8	128.9	129.0	.6	.1
35	Machinery, except electrical.....	12/84	117.7	117.4	117.4	-.5	0
36	Electrical and electronic machinery, equipment, and supplies.....	12/84	110.4	110.1	110.0	-.7	-.1
37	Transportation equipment.....	12/84	132.7	135.2	135.2	.6	0
38	Measuring and controlling instruments; photographic, medical, optical goods; watches, clocks.....	12/84	125.8	125.8	125.8	0	0
39	Miscellaneous manufacturing industries.....	12/85	129.7	130.0	129.9	.6	-.1
	Services industries						
40	Railroad transportation.....	12/96	101.7	101.6	101.6	.7	0

42	Motor freight transportation and warehousing	06/93	111.9	112.5	112.4	3.1	-.1
43	United states postal service.....	06/89	132.3	132.3	132.3	0	0
44	Water transportation.....	12/92	107.9	108.4	105.8	1.6	-2.4
45	Transportation by air.....	12/92	124.2	125.2	125.9	2.0	.6
46	Pipe lines, except natural gas.....	12/86	99.2	99.2	99.2	.5	0
80	Health services.....	12/94	107.8	108.1	108.2	1.9	.1
81	Legal services.....	12/96	106.2	106.6	106.6	2.8	0

1/ Indexes in this table are derived from the net-output-weighted industry price indexes. Because of differences in coverage and aggregation methodology, they will generally not match the movements of similarly-titled indexes which are derived from traditional commodity groupings.

2/ The indexes for July 1998 have been recalculated to incorporate late reports and corrections by respondents. All indexes are subject to revision four months after original publication.

3/ Not available.

Table 5. Producer price indexes by stage of processing, seasonally adjusted (1982=100)

Grouping	Index 1/					
	June 1998	July 1998	Aug. 1998	Sep. 1998	Oct. 1998	Nov. 1998
Finished goods.....	130.5	130.7	130.2	130.6	130.9	130.7
Finished consumer goods.....	128.8	129.1	128.4	128.9	129.3	128.9
Finished consumer foods.....	134.0	134.6	134.0	134.6	135.1	134.4
Crude.....	119.4	127.9	118.4	122.1	133.9	125.4
Processed.....	135.2	135.1	135.3	135.6	135.1	135.1
Finished consumer goods, excluding foods.....	126.3	126.5	125.8	126.2	126.6	126.4
Nondurable goods less foods.....	122.4	122.4	121.7	121.8	122.2	121.9
Durable goods.....	132.0	132.6	132.0	133.2	133.3	133.5
Capital equipment.....	137.3	137.4	137.1	137.6	137.6	137.7
Manufacturing industries.....	137.9	137.9	137.8	137.9	138.0	138.1
Nonmanufacturing industries.....	137.0	137.1	136.8	137.3	137.3	137.5
Intermediate materials, supplies, and components.....	123.2	123.2	122.7	122.5	122.3	122.0
Materials and components for manufacturing.....	126.4	126.1	126.0	125.6	125.1	124.7
Materials for food manufacturing.....	123.2	122.9	122.5	123.9	124.8	124.9
Materials for nondurable manufacturing.....	127.6	127.1	126.9	125.7	124.8	124.0
Materials for durable manufacturing.....	128.0	127.8	127.8	127.2	126.0	125.3
Components for manufacturing.....	126.0	125.8	125.8	125.8	125.8	125.7
Materials and components for construction.....	146.7	147.1	147.3	147.3	146.8	146.7
Processed fuels and lubricants.....	81.1	81.2	79.3	79.9	80.3	79.7
Manufacturing industries .....	85.9	86.1	84.4	85.1	84.6	85.4

Nonmanufacturing industries.....	78.2	78.1	76.2	76.7	77.6	76.3
Containers.....	141.5	141.4	140.8	140.9	140.1	139.5
Supplies.....	134.7	135.1	134.7	134.3	134.2	134.3
Manufacturing industries.....	140.6	140.7	140.6	140.6	140.7	140.6
Nonmanufacturing industries.....	132.1	132.5	132.1	131.6	131.4	131.6
Feeds.....	99.0	101.4	98.0	92.8	90.5	92.4
Other supplies.....	136.2	136.4	136.3	136.3	136.3	136.3
Crude materials for further processing.....	97.5	97.6	94.0	92.5	94.1	92.8
Foodstuffs and feedstuffs.....	106.2	102.5	101.5	99.6	103.6	101.6
Nonfood materials.....	88.0	90.6	85.5	84.2	84.2	83.3
Nonfood materials except fuel 2/.....	84.6	85.3	80.4	83.3	81.2	78.0
Manufacturing 2/.....	76.9	77.5	72.8	75.6	73.7	70.7
Construction.....	195.6	194.7	195.3	194.1	193.0	190.5
Crude fuel 3/.....	85.7	90.7	85.6	78.8	81.6	83.9
Manufacturing industries.....	83.4	88.6	83.4	77.4	80.0	81.4
Nonmanufacturing industries.....	87.4	92.5	87.3	80.3	83.1	85.7
Special groupings						
Finished goods, excluding foods.....	129.3	129.5	128.9	129.3	129.6	129.5
Intermediate materials less foods and feeds.....	123.6	123.6	123.2	123.0	122.7	122.4
Intermediate foods and feeds.....	115.8	116.3	115.0	114.4	114.2	114.9
Crude materials less agricultural products 2/.....	87.2	89.8	84.6	83.0	82.9	82.0
Finished energy goods.....	75.5	75.4	73.6	73.5	74.4	73.5
Finished goods less energy.....	140.8	141.1	140.9	141.5	141.7	141.6
Finished consumer goods less energy.....	142.1	142.6	142.4	143.1	143.3	143.1
Finished goods less foods and energy.....	143.3	143.6	143.5	144.1	144.2	144.4
Finished consumer goods less foods and energy....	147.3	147.7	147.7	148.5	148.5	148.7
Consumer nondurable goods less foods and energy..	159.0	159.2	159.8	160.2	160.1	160.4
Intermediate energy goods.....	80.9	80.9	79.1	79.6	80.0	79.4
Intermediate materials less energy.....	132.6	132.6	132.4	132.1	131.6	131.4
Intermediate materials less foods and energy.....	133.7	133.6	133.6	133.2	132.8	132.5
Crude energy materials 2/.....	66.9	70.9	65.3	64.2	65.4	65.4
Crude materials less energy.....	116.3	113.0	111.4	109.5	111.4	109.1
Crude nonfood materials less energy 3/.....	145.9	143.8	140.5	138.7	134.9	131.5

1/ All seasonally adjusted indexes are subject to change up to five years after original publication due to the recalculation of seasonal factors each January. The indexes for July 1998 have been recalculated to incorporate late reports and corrections by respondents.

2/ Includes crude petroleum.

3/ Excludes crude petroleum.

## Technical Notes

### Brief Explanation of Producer Price Indexes

Producer price indexes (PPI) measure average changes in prices received by domestic producers of commodities in all stages of processing. Most of the information used in calculating the indexes is obtained through the systematic sampling of nearly every industry in the manufacturing and mining sectors of the economy. The PPI program also includes some information from other sectors--agriculture, fishing, forestry, services, and gas and electricity. Because producer price indexes are designed to measure only the change in prices received for the output of domestic industries, imports are not included. The sample currently contains about 3,200 commodities and 80,000 quotations per month.

There are three primary systems of indexes within the PPI program: (1) Stage of processing indexes; (2) commodity indexes; and (3) indexes for the net output of industries and their products. The stage-of-processing structure (tables 1 and 2) organizes products by class of buyer and degree of processing. The commodity structure (tables 2 and 3) organizes products by similarity of end-use or material composition. The entire output of various industries is sampled to derive price indexes for the net output of industries and their products (table 4).

Within the stage-of-processing system, finished goods are commodities that will not undergo further processing and are ready for sale to the final demand user, either an individual consumer or business firm. Consumer foods include unprocessed foods such as eggs and fresh vegetables, as well as processed foods such as bakery products and meats. Other finished consumer goods include durable goods such as automobiles, household furniture, and appliances, and nondurable goods such as apparel and home heating oil. Capital equipment includes producer durable goods such as heavy motor trucks, tractors, and machine tools.

The stage-of-processing category for intermediate materials, supplies, and components consists partly of commodities that have been processed but require further processing. Examples of such semifinished goods include

flour, cotton yarn, steel mill products, and lumber. The intermediate goods category also encompasses nondurable, physically complete items purchased by business firms as inputs for their operations. Examples include diesel fuel, belts and belting, paper boxes, and fertilizers.

Crude materials for further processing are products entering the market for the first time that have not been manufactured or fabricated and that are not sold directly to consumers. Crude foodstuffs and feedstuffs include items such as grains and livestock. Examples of crude nonfood materials include raw cotton, crude petroleum, coal, hides and skins, and iron and steel scrap.

Producer price indexes for the net output of industries and their products are grouped according to the Standard Industrial Classification (SIC) and the Census product code extension of the SIC. Industry price indexes are compatible with other economic time series organized by SIC codes, such as data on employment, wages, and productivity. Table 4 lists indexes for the net output of major mining and manufacturing industry groups at the 2-digit level.

Producer price indexes are based on 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 from these firms are also 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 are normally reported by mail questionnaire for the Tuesday of the week containing the 13th.

Price data are provided on a voluntary and confidential basis; no one but sworn BLS employees are allowed access to individual company price reports. All producer price indexes are routinely subject to revision once, 4 months after original publication, to reflect the availability of late reports and corrections by respondents.

Net output values of shipments are used as weights for industry indexes. Net output values refer to the value of shipments from establishments in one industry to establishments classified in another industry. However, weights for commodity price indexes are based on gross shipment values, including shipment values between establishments within the same industry. As a result, broad commodity grouping indexes such as the all commodities index are affected by the multiple counting of price change at

successive stages of processing, which can lead to exaggerated or misleading signals about inflation. Stage-of-processing indexes partially correct this defect, but industry indexes consistently correct for this at all levels of aggregation. Therefore, industry and stage-of-processing indexes are more appropriate than broad commodity groupings for economic analysis of general price trends.

Weights for most traditional commodity groupings of the PPI, as well as all indexes (such as stage-of-processing indexes) calculated from traditional commodity groupings, currently reflect 1987 values of shipments as reported in the Census of Manufactures and other sources. From January 1987 through December 1991, PPI weights were derived from 1982 shipment values. Industry indexes shown in table 4 are also now calculated with 1987 net output weights.

Effective with publication of January 1988 data, many important PPI series (including stage-of-processing groupings and most commodity groups and individual items) were placed on a new reference base, 1982=100, to coincide with the reference year of the shipment weights. 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 changes to previously published percent changes for affected PPI series. (See "Calculating Index Changes," below.) The new reference base is not used for indexes with a base later than December 1981, nor for indexes for the net output of industries and their products.

For further information on the underlying concepts and methodology of the Producer Price Index, see chapter 16, "Producer Prices," in BLS Handbook of Methods (September 1992), Bulletin 2414. Reprints are available from the Bureau of Labor Statistics on request.

#### Calculating Index Changes

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

Percent changes for 3-month and 6-month periods can be expressed as annual rates that are computed according to the standard formula for compound growth rates. These data

indicate what the percent change would be if the rate for a given 3- or 6-month span were maintained for a 12-month period.

#### Index Point Change

Finished 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 index	104.0
Equals	0.034
Result multiplied by 100	0.034 x 100
Equals percent change	3.4

Each index measures price changes from a reference period which equals 100.0 (1982 or some later month). An increase of 5.5 percent from the reference period in the Finished Goods Price Index, for example, is shown as 105.5. This change can also be expressed in dollars as follows: "Prices received by domestic producers of a systematic sample of finished goods have risen from \$100 in 1982 to \$105.50 to-day." Likewise, a current index of 90.0 would indicate that prices received by producers of finished goods today are 10 percent lower than they were in 1982.

#### Seasonally Adjusted and Unadjusted Data

Because price data are used for different purposes by different groups, the Bureau of Labor Statistics publishes seasonally adjusted as well as unadjusted changes each month.

Seasonally adjusted data are preferred for analyzing general price trends in the economy because they 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 cyclical trends.

Unadjusted data are of primary interest to users who need information which 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 in escalating long-term contracts such as purchasing agreements or real estate leases. (See Escalation and Producer Price Indexes: A Guide for Contracting Parties, BLS Report 807, September 1991, available on request from BLS.)

For more information, see "Appendix A: Seasonal Adjustment Methodology at BLS," in the BLS Handbook of Methods (September 1992), Bulletin 2414.