

**Table 2. Variance estimates for selected Producer Price Index commodity-based indexes, 1-month and 12-month median absolute percent changes and median 1-month and 12-month standard errors of the percent change, 2018**

Index	Index code	1-month median absolute percent change	1-month median standard error	12-month median absolute percent change	12-month median standard error
<b>Goods</b>					
Farm products	01	2.81	0.00	2.55	0.00
Fruits & melons, fresh/dry vegs. & nuts	011	5.27	0.00	3.11	0.00
Fresh fruits and melons	0111	5.06	0.00	4.83	0.00
Citrus fruits	011101	4.98	0.00	13.73	0.00
Other fruits and berries	011102	5.11	0.00	9.67	0.00
Fresh and dry vegetables	0113	15.77	0.00	12.82	0.00
Dry vegetables	011301	1.64	0.00	16.74	0.00
Fresh vegetables, except potatoes	011302	22.58	0.00	17.41	0.00
Sweet potatoes	011303	0.98	0.00	6.41	0.00
Potatoes	011306	5.45	0.00	18.00	0.00
Tree nuts	0119	1.26	0.00	4.77	0.00
Tree nuts	011901	1.26	0.00	4.77	0.00
Grains	012	3.70	0.00	8.84	0.00
Wheat	0121	5.71	0.00	16.39	0.00
Wheat	012101	5.71	0.00	16.39	0.00
Other grains	0122	4.08	0.00	6.29	0.00
Barley	012201	1.51	0.00	20.26	0.00
Corn	012202	4.18	0.00	5.70	0.00
Oats	012203	3.89	0.00	3.69	0.00
Sorghum	012205	3.39	0.00	10.60	0.00
Rough rice	0123	1.34	0.00	21.68	0.00
Rough rice	012301	1.34	0.00	21.68	0.00
Slaughter livestock	013	2.19	0.00	6.24	0.00
Slaughter cattle	0131	1.67	0.00	3.89	0.00
Slaughter steers and heifers	013101	2.16	0.00	4.50	0.00
Slaughter cows and bulls	013102	4.89	0.00	12.72	0.00
Slaughter vealers	013103	0.40	0.00	3.93	0.00
Slaughter hogs	0132	11.42	0.00	12.46	0.00
Slaughter barrows and gilts	013201	11.94	0.00	11.94	0.00
Slaughter sows	013202	14.54	0.00	22.38	0.00
Slaughter lambs	0133	7.65	0.00	8.79	0.00
Slaughter lambs	013301	7.65	0.00	8.79	0.00
Slaughter poultry	014	6.21	0.00	4.94	0.00
Slaughter chickens	0141	6.77	0.00	8.33	0.00
Broilers and other meat type chickens	014102	6.77	0.00	8.33	0.00
Slaughter turkeys	0142	2.75	0.00	17.55	0.00
Slaughter turkeys	014201	2.75	0.00	17.55	0.00
Slaughter ducks	0143	0.00	0.00	0.39	0.00
Slaughter ducks	014301	0.00	0.00	0.39	0.00
Raw cotton	015	4.75	0.00	5.01	0.00
Raw cotton	0151	4.75	0.00	5.01	0.00
Raw cotton	015101	4.75	0.00	5.01	0.00
Raw milk	016	3.39	0.00	6.13	0.00
Raw milk	0161	3.39	0.00	6.13	0.00
Raw milk	016101	3.39	0.00	6.13	0.00
Chicken eggs	017	19.91	0.00	51.32	0.00
Chicken eggs	0171	19.91	0.00	51.32	0.00
Eggs for fresh use	017107	19.67	0.00	40.21	0.00
Breaker stock and checks and undergrades	017108	16.59	0.00	65.88	0.00
Hay, hayseeds, and oilseeds	018	2.91	0.00	7.96	0.00
Hay and hayseeds	0181	5.01	0.00	17.47	0.00
Hay and hayseeds	018101	5.01	0.00	17.47	0.00
Oilseeds	0183	3.19	0.00	7.63	0.00
Oilseeds	018301	3.19	0.00	7.63	0.00
Processed foods and feeds	02	0.36	0.20	0.87	0.41
Cereal and bakery products	021	0.22	0.15	2.19	0.34
Bakery products	0211	0.24	0.23	2.52	0.45
Bread (white, wheat, rye, etc.), including frozen	021102	0.44	0.59	2.63	0.80

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Rolls (bread-type), muffins, bagels, and croissants	021105	0.22	0.31	3.15	0.73
Other sweet goods, excluding frozen	021107	1.37	1.06	4.33	1.91
Soft cakes, excluding frozen	021108	0.25	0.20	0.57	0.74
Pies (fruit, cream, and custard), excluding frozen	021109	0.90	0.54	4.78	2.28
Cookies, crackers, and related products	021121	0.01	0.01	0.27	0.74
Retail bakery products	021130	0.29	0.29	5.26	2.50
Flour and flour base mixes and doughs	0212	0.39	0.23	1.32	0.71
Wheat flour	021203	0.79	0.45	1.87	1.43
Flour base mixes and doughs	021204	0.05	0.04	0.96	0.48
Milled rice and byproducts	0213	0.70	0.27	11.27	2.21
Head rice	021301	0.66	0.25	12.48	2.51
Milled rice (incl second heads, screenings, brewers, bran, sharps, rice flour, and byproducts)	021302	1.27	0.88	5.82	5.26
Cereal and pasta products	0214	0.33	0.22	0.83	0.63
Dry macaroni, spaghetti, and egg noodle products, made from purchased flour	021402	0.51	0.62	0.64	1.93
Cereal and mill products, other than flour	021409	0.33	0.26	0.83	0.65
Meats, poultry, and fish	022	1.08	0.70	2.15	1.30
Meats	0221	0.66	0.94	3.44	1.50
Beef and veal products, fresh or frozen	022101	1.87	1.73	3.63	2.88
Lamb/mutton, fresh or frozen, not canned or made into sausage, made in slaughtering plants	022103	1.07	1.12	3.61	3.90
Pork products, fresh, frozen, or processed, except sausage	022104	2.22	1.94	4.61	2.63
Other meats, fresh, frozen, or canned	022105	0.45	0.46	2.95	1.30
Processed poultry	0222	1.43	1.46	5.74	3.01
Young chickens, including bulk, chilled, frozen, whole, and in parts	022203	1.55	1.23	6.40	3.25
Turkeys, including frozen, whole, and in parts	022206	1.78	1.01	4.13	5.04
Canned, cooked, smoked or prepared poultry	022208	1.39	3.63	6.06	6.09
Chicken hens and other poultry/small game	022209	0.41	1.02		
Unprocessed and prepared seafood	0223	3.79	0.38	2.28	1.46
Unprocessed finfish	022301	13.92	0.00	10.05	0.00
Canned seafood (including soups, stews, and chowders)	022304	1.80	1.96	9.90	6.18
Unprocessed shellfish	022305	5.34	0.00	1.21	0.00
Prepared fresh and frozen seafood	022306	0.56	0.64	1.28	2.41
Dairy products	023	0.70	0.20	2.43	0.53
Fluid milk products	0231	0.87	0.20	1.93	0.53
Packaged fluid milk and related products	023103	1.26	0.22	2.97	0.54
Cottage cheese	023104	0.35	0.18	2.75	2.15
Other milk products	023105	0.28	0.10	0.27	0.28
Bulk fluid milk and cream	023106	0.66	0.81	2.79	2.09
Butter	0232	3.12	0.67	4.11	1.22
Butter	023201	3.12	0.67	4.11	1.22
Natural, processed, and imitation cheese	0233	1.21	0.38	2.23	0.95
Natural cheese, except cottage cheese	023302	0.86	0.33	2.15	0.85
Process cheese and related products	023303	2.00	1.45	3.93	2.44
Cheese substitutes and imitations	023304	2.37	2.65		
Raw liquid whey	023307	2.03	2.27	25.17	8.34
Ice cream and frozen desserts	0234	0.43	0.26	1.01	0.59
Ice cream and frozen desserts	023402	0.43	0.26	1.01	0.59
Dry, condensed, and evaporated milk products	0235	0.79	0.62	6.45	2.34
Dry milk products, including feed grade	023502	1.23	0.65	8.52	2.97
Liquid milk products	023503	0.49	1.13	3.31	3.69
Ice cream mixes and related products	023505	0.84	0.74	2.35	1.39
Processed fruits and vegetables	024	0.21	0.25	2.45	0.75
Canned fruits and juices	0241	0.31	0.55	0.75	1.47
Canned fruits, excluding baby foods	024101	0.43	0.56	2.11	1.75
Canned and fresh fruit juices, nectars, and concentrates	024102	0.36	0.37	1.01	2.00
Frozen fruits, juices and ades	0242	0.34	0.53	7.57	5.68
Frozen fruits	024202	0.19	0.19	2.18	2.46
Frozen juices, ades, drinks, and cocktails	024203	0.19	0.65	12.39	9.70
Canned vegetables and juices	0244	0.70	0.54	2.90	0.99
Canned vegetables and juices	024401	0.70	0.54	2.90	0.99
Frozen vegetables	0245	0.27	0.18	4.47	1.30

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Frozen potato products (French-fried, patties, puffs, etc.)	024502	0.07	0.07	4.46	1.51
Frozen vegetables, other than potato products	024505	0.07	0.08	4.16	2.21
Dried and dehydrated food	0248	0.17	0.36	1.49	0.90
Dried and dehydrated food	024801	0.17	0.36	1.49	0.90
Sugar and confectionery	025	0.28	0.25	0.97	0.54
Raw cane sugar and sugar cane mill products and by-products	0252	1.54	1.09	6.26	3.45
Raw cane sugar and sugarcane mill products and by-products	025201	1.54	1.09	6.26	3.45
Refined sugar products and by-products	0253	0.26	0.35	3.92	0.89
Refined sugar products and by-products	025307	0.26	0.35	3.92	0.89
Confectionery materials	0254	0.87	0.88	0.90	1.05
Confectionery materials	025401	0.87	0.88	0.90	1.05
Confectionery end products	0255	0.36	0.25	1.16	0.69
Chewing gum, bubble gum, and chewing gum base	025502	0.00	0.00	0.70	0.61
Candy and nuts	025503	0.32	0.26	1.12	0.73
Beverages and beverage materials	026	0.20	0.21	1.56	0.45
Alcoholic beverages	0261	0.34	0.25	1.96	0.86
Malt beverages	026101	0.04	0.05	1.11	0.92
Distilled and bottled liquor, excluding brandy	026102	1.27	0.93	6.18	2.78
Wines, brandy, and brandy spirits	026104	0.07	0.14	0.23	0.45
Soft drinks	0262	0.48	0.37	1.11	0.66
Soft drinks, non-carbonated and bottled water	026206	0.42	0.44	0.57	0.83
Soft drinks, bottle/can, carbonated, all types	026210	0.31	0.55	1.21	0.78
Packaged beverage materials	0263	0.12	0.09	0.27	0.55
Coffee (whole bean, ground, & instant)	026301	0.17	0.10	0.26	0.50
Tea in consumer packages, exc. canned ice tea	026303	0.18	0.22	0.38	1.94
Other beverage materials	0264	0.07	0.07	1.45	0.96
Other beverage materials	026401	0.07	0.07	1.45	0.96
Fats and oils	027	0.55	0.49	2.90	1.36
Shortening, cooking oil, and margarine	0278	0.73	0.53	3.07	1.46
Shortening, cooking oil, and margarine	027801	0.73	0.53	3.07	1.46
Other oilseed processing	027A	0.47	1.06	0.70	4.82
Other oilseed processing	027A01	0.47	1.06	0.70	4.82
Corn oil, crude and refined	027B	1.11	3.18		
Corn oil, made by wet milling	027B01	1.11	3.18	9.39	12.66
Miscellaneous processed foods	028	0.29	0.22	2.52	0.93
Canned jams, jellies, and preserves	0281	0.04	0.03	0.59	0.42
Canned jams, jellies, and preserves	028101	0.04	0.03	0.59	0.42
Pickles and other pickled products, including horseradish	0282	0.02	0.02	5.06	0.91
Pickles and other pickled products	028201	0.02	0.02	5.06	0.91
Processed eggs, liquid, dried, or frozen	0283	5.87	3.24	91.35	15.12
Processed eggs, liquid, dried, or frozen	028301	5.87	3.24	91.35	15.12
Specialty canning	0284	0.27	0.28	0.29	0.82
Specialty canning	028401	0.27	0.28	0.29	0.82
Frozen specialty food	0285	0.11	0.12	0.41	0.38
Frozen specialty food	028501	0.11	0.12	0.41	0.38
Prepared sauces, except tomato	0286	0.00	0.00	1.17	0.47
Prepared sauces, excluding tomato-based sauces and sauces comprised of 20 percent or more meat	028601	0.00	0.00	1.17	0.47
Other miscellaneous processed foods	0289	0.22	0.17	1.94	1.28
Other miscellaneous processed foods	028901	0.22	0.17	1.94	1.28
Prepared animal feeds	029	0.98	0.32	3.98	0.89
Soybean cake, meal, and other byproducts	0292	2.47	1.00	11.21	1.65
Soybean cake, meal, and other byproducts	029201	2.47	1.00	11.21	1.65
Formula feeds	0293	1.18	0.33	4.63	0.65
Formula feeds	029301	1.18	0.33	4.63	0.65
Miscellaneous feedstuffs	0294	0.95	0.45	1.35	1.57
Pet food	029402	0.06	0.09	1.83	0.58
Miscellaneous feedstuffs other than pet food	029403	1.58	1.33	2.73	4.81
Textile products and apparel	03	0.26	0.12	2.66	0.33
Synthetic fibers	031	0.28	0.17	6.56	1.22

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Index	Index code	1-month median absolute percent change	1-month median standard error	12-month median absolute percent change	12-month median standard error
Unprocessed filament yarns	0315	0.28	0.17	6.56	1.22
Noncellulosic fibers	031502	0.38	0.24	8.97	1.68
Processed yarns and threads	032	0.54	0.35	5.50	0.94
Yarns	0326	0.56	0.36	5.65	0.97
Spun cotton yarns	032601	1.49	0.71	13.39	2.92
Spun synthetic yarns	032603	0.89	0.71	7.23	3.42
Textured and twisted yarns	032604	0.16	0.12	0.58	0.42
Other spun noncellulosic and natural fiber (excluding cotton and wool) yarns	032607	0.19	0.21	2.65	1.28
Thread	0327	0.00	0.00	0.31	0.10
Thread	032705	0.00	0.00	0.31	0.10
Greige fabrics	033	0.19	0.20	2.23	0.72
Greige broadwoven fabrics	0337	0.23	0.23	1.06	0.77
Greige manmade fiber broadwoven fabrics	033703	0.26	0.28	0.39	0.92
Greige knit fabrics	0338	0.00	0.05	1.20	1.52
Warp knit fabrics, greige goods (excluding hosiery)	033804	0.00	0.00	0.87	0.75
Tire cord and tire fabric	0339	0.26	0.14	5.72	1.92
Tire cord and tire fabrics	033901	0.26	0.14	5.72	1.92
Finished fabrics	034	0.25	0.21	1.53	0.70
Finished broadwoven fabrics	0342	0.40	0.42	1.34	0.88
Finished cotton broadwoven fabrics	034201	0.48	1.32	3.41	2.25
Finished wool broadwoven fabrics and felts	034202	0.00	0.00	2.20	2.08
Finished manmade fiber, silk and other natural fiber (excl. cotton and wool) broadwoven fabrics	034203	0.11	0.21	0.58	0.86
Woven and braided narrow fabrics	0344	0.02	0.03	2.93	1.56
Woven and braided narrow fabrics	034402	0.02	0.03	2.93	1.56
Nonwoven fabrics and felts	0345	0.36	0.43	1.99	1.77
Nonwoven fabrics and felts	034503	0.36	0.43	1.99	1.77
Coated fabrics, not rubberized	0346	0.28	0.26	2.33	1.53
Coated fabrics, not rubberized	034601	0.28	0.26	2.33	1.53
Screen printed textile materials, embroideries, and lace goods	0347	0.01	0.02	0.84	0.50
Screen printed textile and apparel materials and embroideries	034701	0.01	0.02	0.85	0.51
Knit fabrics, finished in knitting mills	0348	0.04	0.05	0.77	1.06
Warp knit goods, knit and finished in the same establishment	034802	0.01	0.02	1.00	1.78
Apparel & other fabricated textile prods	038	0.04	0.09	1.25	0.38
Apparel	0381	0.09	0.07	1.06	0.33
Miscellaneous apparel and accessories	038104	0.13	0.11	3.17	1.23
Women's, girls', and infants' cut and sew apparel	038106	0.12	0.13	0.60	0.30
Men's and boys' cut and sew apparel	038107	0.11	0.10	1.20	0.47
Apparel made in knitting mills	038108	0.00	0.00	0.25	0.52
Textile house furnishings	0382	0.11	0.19	0.35	1.05
Textile house furnishings	038203	0.11	0.19	0.35	1.05
Industrial and other fabricated products	0383	0.05	0.12	1.89	0.78
Industrial and other fabricated products	038303	0.05	0.12	1.89	0.78
Miscellaneous textile products/services	039	0.63	0.73	1.55	1.46
Hides, skins, leather, and related products	04	0.84	0.74	6.92	2.33
Hides and skins, incl. cattle	041	2.84	2.71	18.06	7.16
Hides and skins, incl. cattle	0419	2.84	2.71	18.06	7.16
Hides, skins, and pelts, made in slaughtering plants	041901	2.84	2.71	18.06	7.16
Leather	042	1.22	0.56	10.42	2.13
Finished and unfinished leather	0427	1.22	0.56	10.42	2.13
Finished and unfinished leather	042701	1.22	0.56	10.42	2.13
Footwear	043	0.03	0.02	0.78	0.36
Men's nonathletic footwear	0431	0.00	0.00	1.04	0.38
Men's footwear (size 6 and larger), excluding athletic	043105	0.00	0.00	1.04	0.38
Women's nonathletic footwear	0432	0.00	0.00	0.49	1.04
Women's footwear (size 4 and larger), excluding athletic	043205	0.00	0.00	0.49	1.04
Other footwear including slippers	0439	0.00	0.00	2.01	0.54
Other footwear, excluding rubber and plastic soled footwear	043901	0.00	0.00	2.01	0.54
Other leather and related products	044	0.01	0.05	2.28	0.84
Luggage and small leather goods	0441	0.00	0.00	3.25	1.24

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Luggage and small leather goods	044101	0.00	0.00	3.25	1.24
Leather and leather-like goods, n.e.c.	0445	0.00	0.01	0.91	0.74
Leather and leather-like goods, n.e.c.	044501	0.00	0.01	0.91	0.74
Fuels and related products and power	05	1.98	0.27	10.65	0.80
Coal	051	0.70	0.38	2.15	2.42
Anthracite	0511	0.57	0.34	2.83	1.11
Prepared anthracite shipped	051101	0.44	0.29	4.08	1.08
Bituminous coal and lignite	0512	0.71	0.38	2.15	2.44
Unprepared bituminous coal and lignite	051208	1.89	1.83	2.49	6.54
Prepared bituminous coal and lignite	051209	0.38	0.22	2.47	2.76
Gas fuels	053	3.99	1.43	5.17	2.27
Natural gas	0531	3.38	1.39	11.85	2.44
Natural gas	053101	3.38	1.39	11.85	2.44
Liquefied petroleum gas	0532	6.90	2.75	31.96	6.21
Liquefied petroleum gas	053201	6.90	2.75	31.96	6.21
Electric power	054	0.85	0.21	0.83	0.36
Residential electric power	0541	0.66	0.21	1.14	0.40
Residential electric power	054121	0.66	0.21	1.14	0.40
Commercial electric power	0542	0.87	0.44	0.59	0.52
Commercial electric power	054221	0.87	0.44	0.59	0.52
Industrial electric power	0543	1.46	0.65	2.36	1.46
Industrial electric power	054321	1.46	0.65	2.36	1.46
Transportation electric power	0546	0.61	0.70	1.98	2.20
Transportation electric power	054621	0.61	0.70	1.98	2.20
Utility natural gas	055	0.79	0.66	2.62	0.88
Residential natural gas	0551	1.52	0.49	1.47	0.70
Residential natural gas	055121	1.52	0.49	1.47	0.70
Commercial natural gas	0552	2.30	0.55	1.05	1.12
Commercial natural gas	055221	2.30	0.55	1.05	1.12
Industrial natural gas	0553	2.19	0.97	4.28	1.37
Industrial natural gas	055321	2.19	0.97	4.28	1.37
Natural gas to electric power	0554	2.83	1.71	5.13	2.26
Natural gas to electric power	055421	2.83	1.71	5.13	2.26
Crude petroleum (domestic production)	056	6.74	0.52	38.03	1.31
Crude petroleum (domestic production)	0561	6.74	0.52	38.03	1.31
Crude petroleum (domestic production)	056101	6.74	0.52	38.03	1.31
Petroleum products, refined	057	2.22	0.68	20.88	1.47
Gasoline	0571	2.93	1.09	15.09	1.38
Unleaded premium gasoline	057103	2.75	1.37	13.12	1.58
Unleaded regular gasoline	057104	2.78	1.27	15.76	1.65
Unleaded mid-premium gasoline	057105	2.98	1.65	15.57	2.88
Kerosene and jet fuels	0572	3.78	1.32	29.30	2.52
Kerosene	057202	4.92	2.62	27.72	7.59
Jet fuel	057203	3.74	1.38	29.39	2.66
Light fuel oils	0573	2.76	1.47	35.57	3.83
Home heating oil and distillates	057302	3.61	2.53	28.94	4.05
No. 2 diesel fuel	057303	2.82	1.57	38.96	4.23
Residual fuels (heavy fuel oils, incl. #5, #6, & other residual fuels)	0574	3.05	2.94	25.75	14.30
Residual fuels (heavy fuel oils, incl. #5, #6, & other residual fuels)	057407	3.05	2.94	25.75	14.30
Finished lubricants	0576	0.65	0.44	7.79	0.77
Lubricating grease	057603	0.27	0.32	6.01	2.17
Lubricating and similar oils	057604	0.72	0.42	8.00	0.80
Lubricating oil base stocks	0578	1.92	2.10	15.98	4.41
Lubricating oil base stocks	057801	1.92	2.10	15.98	4.41
Asphalt and other petroleum and coal products, n.e.c.	058	3.11	1.84	39.87	17.22
Asphalt and other petroleum and coal products, n.e.c.	0581	3.11	1.84	39.87	17.22
Asphalt	058102	5.15	2.30	32.09	6.33
Other petroleum and coal products, including coke oven products, n.e.c.	058103	1.87	2.11	37.59	21.45

**Table 2. Variance estimates for selected Producer Price Index commodity-based indexes, 1-month and 12-month median absolute percent changes and median 1-month and 12-month standard errors of the percent change, 2018**

Index	Index code	1-month median absolute percent change	1-month median standard error	12-month median absolute percent change	12-month median standard error
Chemicals and allied products	06	0.57	0.31	5.20	1.08
Industrial chemicals	061	0.81	0.86	8.58	2.62
Basic inorganic chemicals	0613	0.32	0.43	8.12	2.31
Inorganic chemicals, other than alkalis and chlorine	061302	0.26	0.37	7.18	2.95
Alkalis and chlorine, including natural sodium carbonate and sulfate	061303	0.45	0.71	11.41	6.70
Basic organic chemicals	0614	0.81	1.00	8.61	3.12
Primary basic organic chemicals	061401	2.59	2.45	14.45	7.69
Cyclic intermediate chemicals and dyes	061402	0.76	0.46	9.96	2.99
Other basic organics	061403	0.43	0.70	3.41	1.83
Paints and allied products	062	0.37	0.24	4.52	0.75
Prepared paint	0621	0.18	0.23	4.11	0.69
Architectural coatings	062101	0.25	0.26	4.72	1.08
OEM finishes excluding marine coatings	062102	0.18	0.33	2.73	1.19
Special purpose coatings, incl. marine, industrial & construction coatings	062103	0.16	0.23	4.53	0.89
Paint materials	0622	0.68	0.56	6.10	2.27
Paint colors	062202	0.78	0.64	6.85	2.67
Kaolin and ball clay	062204	0.00	0.00	1.75	1.09
Allied and miscellaneous paint products	0623	0.05	0.05	3.46	1.43
Allied and miscellaneous paint products	062301	0.05	0.05	3.46	1.43
Drugs and pharmaceuticals	063	0.27	0.14	4.42	1.97
Medicinal and botanical chemicals, drugs, and other products	0631	0.02	0.05	4.01	3.14
Medicinal and botanical chemicals, drugs, and other products	063102	0.02	0.05	4.01	3.14
Veterinary pharmaceutical preparations	0634	0.00	0.00	0.15	1.78
Pharmaceuticals for veterinary use	063403	0.00	0.00	0.15	1.78
Biological products, including diagnostics	0637	0.08	0.17	1.90	1.04
Biological products, excluding diagnostic, for veterinary, industrial, and all other misc. uses	063717	0.00	0.00	3.69	4.06
Diagnostics	063718	0.19	0.31	0.50	0.46
Biological products, excluding diagnostic, for human use	063719	0.01	0.05	2.67	1.47
Pharmaceutical preparations	0638	0.31	0.16	5.16	2.52
Pharmaceuticals affecting neoplasms, the endocrine system, & metabolic diseases	063801	0.01	0.01	3.65	1.05
Pharmaceuticals acting on the central nervous system and the sense organs	063802	0.28	0.26	4.13	2.08
Pharmaceuticals acting on the cardiovascular system	063803	0.00	0.00	17.03	17.10
Pharmaceuticals acting on the respiratory system	063804	1.03	0.67	2.36	3.74
Pharmaceuticals acting on the digestive or the genito-urinary systems	063805	0.01	0.01	6.44	0.94
Pharmaceuticals acting on the skin	063806	0.10	0.43	2.17	3.95
Vitamin, nutrient, and hematinic preparations	063807	0.08	0.12	1.97	1.06
Pharmaceuticals affecting parasitic and infective diseases	063808	0.00	0.00	3.86	1.00
Fats and oils, inedible	064	1.18	1.00	14.60	1.69
Fats and oils, inedible	0641	1.18	1.00	14.60	1.69
Fats and oils, inedible	064101	1.18	1.00	14.60	1.69
Agricultural chemicals and chemical products	065	0.58	0.75	7.89	1.93
Mixed fertilizers	0651	0.94	0.55	5.64	1.62
Mixed fertilizers	065105	0.94	0.55	5.64	1.62
Fertilizer materials	0652	1.06	0.88	10.27	1.83
Nitrogenates	065201	1.06	1.44	8.38	3.28
Phosphates	065202	1.41	0.85	15.53	1.41
Other agricultural chemicals	0653	0.92	1.35	7.10	3.55
Other agricultural chemicals	065301	0.92	1.35	7.10	3.55
Plastic resins and materials	066	1.52	0.51	4.82	1.75
Thermoplastic resins and plastics materials	0662	1.87	0.58	4.92	2.04
Thermoplastic resins and plastics materials	066212	1.87	0.58	4.92	2.04
Thermosetting resins and plastics materials	0663	0.41	0.65	4.99	1.79
Thermosetting resins and plastics materials	066306	0.41	0.65	4.99	1.79
Other chemicals and allied products	067	0.19	0.17	2.56	0.62
Soaps and detergents	0671	0.01	0.04	1.85	0.74
Soaps and other detergents	067104	0.01	0.04	1.85	0.74
Polish and other sanitation goods	0672	0.27	0.29	7.54	2.76
Polish and other sanitation goods	067201	0.27	0.29	7.54	2.76
Cosmetics and other toilet preparations	0675	0.06	0.05	1.50	0.87
Shaving preparations	067502	0.00	0.00	6.97	6.01

**Table 2. Variance estimates for selected Producer Price Index commodity-based indexes, 1-month and 12-month median absolute percent changes and median 1-month and 12-month standard errors of the percent change, 2018**

Index	Index code	1-month median absolute percent change	1-month median standard error	12-month median absolute percent change	12-month median standard error
Perfumes, toilet waters, and colognes	067503	0.00	0.00	0.00	0.00
Hair preparations (including shampoos)	067504	0.00	0.00	5.43	3.92
Dentifrices	067505	0.00	0.00	1.08	3.71
Creams, lotions and oils, excluding shaving, hair, and deodorant	067514	0.00	0.00	0.64	0.43
Other cosmetics and toilet preparations	067515	0.00	0.00	0.06	0.09
Misc. chemical prod. and preparations	0679	0.27	0.32	2.71	1.11
Explosives, propellants, and blasting accessories	067902	0.27	0.14	4.07	1.27
Industrial gases	067903	0.34	1.58	3.39	4.10
Adhesives and sealants	067904	0.28	0.23	3.25	0.67
Surface active agents	067905	0.77	0.74	2.72	4.11
Gum and wood chemicals, including wood distillation products	067906	0.39	0.77	0.35	1.91
Other miscellaneous chemical products	067909	0.44	0.28	2.60	0.64
Rubber and plastic products	07	0.21	0.13	3.17	0.45
Rubber and rubber products	071	0.52	0.16	1.91	0.45
Synthetic rubber, inc. styrene-butadiene rubber (SBR) and ethylene propylene	0711	1.72	0.45	10.34	1.58
Synthetic rubber	071102	1.72	0.45	10.34	1.58
Tires, tubes, tread, & repair materials	0712	0.27	0.34	0.72	0.65
Tires	071201	0.29	0.37	0.76	0.66
Tread rubber, tire sundries, and repair materials	071203	0.00	0.00	1.13	2.95
Miscellaneous rubber products	0713	0.15	0.12	1.67	0.43
Rubber and plastics footwear, including athletic footwear	071301	0.00	0.00	0.00	0.00
Rubber and plastic belts and belting	071303	0.05	0.10	4.33	1.45
Rubber and plastics hose	071304	0.05	0.14	3.12	1.14
Miscellaneous rubber products, n.e.c.	071306	0.17	0.09	1.19	0.49
Plastic products	072	0.24	0.15	3.84	0.55
Plastic construction products	0721	0.25	0.19	4.21	1.85
Plastic construction products	072106	0.25	0.19	4.21	1.85
Unsupported plastic film, sheet and other shapes	0722	0.43	0.31	2.56	1.01
Unsupported plastic film, sheet and other shapes	072205	0.43	0.31	2.56	1.01
Laminated plastic sheets, rods, and tubes	0723	0.13	0.11	0.88	0.82
Laminated plastics plates, sheet (excluding packaging), and shapes	072304	0.13	0.11	0.88	0.82
Parts for manufacturing from plastics	0726	0.13	0.16	2.08	1.50
Parts for transportation equipment	072601	0.12	0.20	1.48	1.72
Other parts and components for manufacturing	072602	0.00	0.07	0.78	2.63
Foam components for furniture	072603	0.08	0.09	9.81	3.38
Other plastic products	0729	0.33	0.26	4.42	1.27
Other plastic products	072901	0.33	0.26	4.42	1.27
Plastic packaging products	072A	0.56	0.30	5.74	1.05
Plastic packaging products	072A01	0.56	0.30	5.74	1.05
Consumer, institutional, and commercial products, n.e.c.	072B	0.18	0.28	3.30	0.81
All other consumer, institutional, and commercial products	072B01	0.18	0.28	3.30	0.81
Recyclable plastics	072C	2.23	2.47	3.17	8.78
Recyclable plastics	072C01	2.23	2.47	3.17	8.78
Lumber and wood products	08	1.15	0.28	6.48	0.73
Lumber	081	2.22	0.74	10.66	1.57
Softwood lumber	0811	2.98	1.04	12.94	2.16
Softwood cut stock and dimension	081105	2.24	0.99	7.14	2.59
Softwood lumber, not edge worked	081106	3.36	1.16	13.96	2.45
Softwood lumber, made from purchased lumber	081107	0.97	1.01	13.21	5.10
Hardwood lumber	0812	1.01	0.82	5.55	1.74
Hardwood cut stock and dimension	081203	0.49	0.40	4.13	3.15
Hardwood flooring	081204	0.72	0.62	3.38	2.98
Hardwood lumber, not edge worked	081205	1.72	1.58	7.78	3.41
Hardwood lumber, made from purchased lumber	081206	0.20	0.49	1.62	1.65
Millwork	082	0.27	0.19	4.94	0.95
General millwork	0821	0.12	0.12	2.24	0.57
General millwork	082101	0.12	0.12	2.24	0.57
Prefabricated structural members	0822	1.31	0.77	15.45	4.76

**Table 2. Variance estimates for selected Producer Price Index commodity-based indexes, 1-month and 12-month median absolute percent changes and median 1-month and 12-month standard errors of the percent change, 2018**

Index	Index code	1-month median absolute percent change	1-month median standard error	12-month median absolute percent change	12-month median standard error
Prefabricated structural members	082201	1.31	0.77	15.45	4.76
Plywood	083	1.47	0.48	16.51	1.45
Softwood veneer and plywood	0831	2.66	0.61	25.16	1.89
Softwood veneer and plywood	083103	2.66	0.61	25.16	1.89
Hardwood veneer and plywood	0835	0.46	0.47	7.68	2.26
Hardwood veneer and plywood	083501	0.46	0.47	7.68	2.26
Other wood products	084	0.46	0.35	6.10	1.61
Wood pallets and pallet containers, wood and metal combination	0841	0.64	0.55	8.60	2.70
Wood pallets and pallet containers	084101	0.64	0.55	8.60	2.70
Wood boxes	0842	0.02	0.28	2.39	3.97
Wood boxes	084201	0.02	0.28	2.39	3.97
Miscellaneous wood products	0849	0.34	0.27	3.77	1.73
Wood ties, siding, shingles, and shakes, and contract sawing of logs owned by others	084903	0.16	0.48	3.55	3.26
Sawn wood fence stock, wood lath, and contract resawing and planing	084904	0.00	0.00	19.41	11.37
All other miscellaneous wood products	084909	0.13	0.19	2.97	2.02
Logs, bolts, timber, pulpwood and wood chips	085	0.45	0.67	3.62	2.34
Logs, bolts, timber, pulpwood and wood chips	0851	0.45	0.67	3.62	2.34
Logs, bolts, timber, pulpwood and wood chips	085105	0.45	0.67	3.62	2.34
Prefabricated wood buildings & components	086	0.41	0.39	4.69	1.67
Prefabricated wood buildings & components	0861	0.41	0.39	4.69	1.67
Prefabricated wood buildings and components	086101	0.41	0.39	4.69	1.67
Treated wood and contract wood preserving	087	1.79	0.60	4.62	1.20
Treated wood and contract wood preserving	0871	1.79	0.60	4.62	1.20
Treated wood	087101	1.96	0.67	5.04	1.34
Contract wood preservation	087102	0.13	0.15	1.05	0.91
Pulp, paper, and allied products	09	0.18	0.12	2.06	0.38
Pulp, paper, and prod., ex. bldg. paper	091	0.20	0.15	2.52	0.50
Wood pulp	0911	1.09	1.13	20.83	7.19
Wood pulp	091105	1.09	1.13	20.83	7.19
Wastepaper	0912	2.47	2.16	35.39	7.00
News and other low grade wastepaper	091201	6.00	4.04	26.83	13.60
Corrugated wastepaper	091203	3.04	2.09	40.30	4.09
High grade wastepaper (including pulp substitutes and deinking)	091207	0.57	0.86	21.03	19.66
Paper	0913	0.53	0.27	6.26	0.64
Writing and printing papers	091301	0.84	0.39	7.37	1.12
Newsprint	091302	1.58	0.68	19.23	2.93
Packaging and industrial converting paper	091303	0.58	0.40	4.63	0.88
All other coated and processed papers	091305	0.27	0.31	3.83	2.90
Paperboard	0914	0.39	0.13	5.37	0.35
Corrugated paperboard in sheets and rolls, lined and unlined	091405	0.26	0.22	4.19	1.45
Paperboard, excluding corrugated paperboard	091411	0.45	0.13	5.64	0.33
Converted paper and paperboard products	0915	0.09	0.18	1.52	0.54
Sanitary paper products, including stock	091501	0.24	0.47	0.91	1.29
Paper, plastic, and foil bags	091502	0.25	0.34	2.86	0.94
Paper boxes and containers	091503	0.15	0.16	1.79	0.71
Other corrugated and solid fiber products, including containers, pallets, pads, etc.	091504	0.09	0.13	5.02	1.54
Office supplies and accessories	091506	0.36	0.54	5.14	1.26
Fiber cans, tubes, and similar fiber products	091507	0.21	0.07	4.04	0.58
Miscellaneous converted paper and paperboard products	091509	0.34	0.34	1.36	1.17
Pressure-sensitive products	0916	0.44	0.36	4.01	0.70
Pressure-sensitive products	091601	0.44	0.36	4.01	0.70
Building paper & building board mill prods.	092	3.62	0.70	6.78	2.34
Hardboard, particleboard & fiberboard prods.	0922	3.65	0.71	6.77	2.35
Particleboard and fiberboard	092201	4.02	0.79	7.52	2.60
Hardboard products	092202	0.00	0.00	0.98	0.39
Publications, printed matter and printing material	094	0.19	0.10	1.03	0.34
Books printing	0944	0.12	0.12	2.44	1.03
Books printing	094401	0.12	0.12	2.44	1.03
Manifold business forms printing	0945	0.24	0.21	3.33	1.07



**Table 2. Variance estimates for selected Producer Price Index commodity-based indexes, 1-month and 12-month median absolute percent changes and median 1-month and 12-month standard errors of the percent change, 2018**

Index	Index code	1-month median absolute percent change	1-month median standard error	12-month median absolute percent change	12-month median standard error
Manifold business forms printing	094501	0.24	0.21	3.33	1.07
Commercial printing	0947	0.19	0.11	0.92	0.38
Magazine and periodical printing	094701	0.06	0.05	2.88	1.38
Label and wrapper printing for packaging	094702	0.40	0.36	3.09	1.26
Catalog and directory printing	094703	0.00	0.00	0.37	0.73
Advertising printing	094705	0.00	0.02	0.31	0.45
Other general job printing	094706	0.05	0.08	0.58	1.08
Other commercial printing, incl. screen, engraving, digital, & general job exc. labels/wrappers	094711	0.03	0.09	0.93	0.88
Blankbooks, binders, and bookbinding work	0948	0.03	0.04	0.64	0.41
Tradebinding and related work	094802	0.09	0.11	1.00	0.65
Metals and metal products	10	0.73	0.23	7.62	0.70
Iron and steel	101	1.26	0.44	13.27	1.82
Iron ores	1011	1.11	0.08	2.37	4.27
Iron ores	101105	1.11	0.08	2.37	4.27
Iron and steel scrap	1012	3.48	0.76	18.14	2.18
Carbon steel scrap	101211	3.65	0.80	18.77	2.29
Stainless and other alloy steel scrap	101212	3.64	2.23	15.39	5.80
Cast iron scrap	101213	3.11	2.96	16.16	12.29
Other ferrous scrap	101215	3.47	2.86	16.27	6.49
Foundry and forge shop products	1015	0.21	0.24	1.95	0.91
Pressure and soil pipe & fittings, cast iron	101502	0.21	0.34	3.69	2.54
Other gray and ductile iron castings	101504	0.23	0.17	2.08	0.73
Standard and pearlitic malleable iron castings	101505	0.00	0.05	0.52	6.61
Steel investment castings	101506	0.11	0.14	3.90	1.44
Carbon steel castings, except investment	101507	0.13	0.10	1.53	1.24
High alloy steel castings, excluding investment	101508	0.51	0.56	4.83	2.08
Other alloy steel castings, except investment	101509	0.08	0.11	0.97	1.41
Other forge shop products	101513	0.35	0.49	0.62	2.27
Steel mill products	1017	1.95	0.67	12.20	2.90
Semifinished steel mill products	101702	0.94	0.52	6.38	2.87
Hot rolled steel sheet and strip, including tin mill products	101703	2.24	1.87	19.95	5.96
Hot rolled steel bars, plates, and structural shapes	101704	1.64	0.51	17.00	1.95
Steel wire	101705	1.41	0.83	11.87	4.71
Steel pipe and tube	101706	2.41	1.01	16.51	4.02
Cold rolled steel sheet and strip	101707	1.86	0.87	5.05	7.66
Cold finished steel bars and bar shapes	101708	0.76	0.49	7.85	2.22
Electrometallurgical ferroalloy products	101712	4.24	2.83		
Nonferrous metals	102	1.00	0.50	9.57	1.05
Nonferrous metal ores	1021	1.55	1.91	10.42	4.52
Copper ores	102102	2.37	4.09	13.95	5.02
Gold ores	102105	1.51	0.25	5.92	1.21
Other metal ores	102112	7.84	4.78	22.26	22.77
Primary nonferrous metals	1022	0.82	0.34	7.34	1.52
Primary nonferrous metals	102201	0.82	0.34	7.34	1.52
Nonferrous scrap	1023	2.11	1.95	12.00	3.11
Copper base scrap	102301	1.66	0.91	16.63	1.61
Aluminum base scrap	102302	2.83	2.37	9.31	4.97
Other nonferrous scrap (including lead, zinc and precious metals)	102303	4.63	3.52	9.82	7.13
Secondary nonferrous metals	1024	0.83	0.39	8.33	1.09
Secondary aluminum	102402	1.08	0.33	10.22	0.96
Secondary copper, alloyed and unalloyed	102403	0.59	0.41	12.71	1.95
Secondary precious metals	102406	2.63	0.79	3.73	2.15
All other miscellaneous secondary nonferrous metals, including lead	102408	1.12	0.40	8.12	2.22
Nonferrous mill shapes	1025	1.14	0.28	9.99	0.69
Aluminum mill shapes	102501	1.34	0.38	11.24	0.84
Copper and brass mill shapes	102502	1.63	0.32	9.89	0.64
Nickel and nickel-base alloy mill shapes	102504	0.88	0.50	5.26	2.19
Titanium and titanium-base alloy mill shapes	102505	0.59	0.41	4.68	2.49
Other nonferrous mill shapes	102519	0.83	0.99	8.30	5.27

**Table 2. Variance estimates for selected Producer Price Index commodity-based indexes, 1-month and 12-month median absolute percent changes and median 1-month and 12-month standard errors of the percent change, 2018**

Index	Index code	1-month median absolute percent change	1-month median standard error	12-month median absolute percent change	12-month median standard error
Nonferrous wire and cable	1026	0.87	1.17	6.19	2.10
Nonferrous wire and cable	102603	0.87	1.17	6.19	2.10
Nonferrous forge shop products	1027	0.32	0.79	1.59	6.24
Nonferrous forge shop products	102701	0.32	0.79	1.59	6.24
Nonferrous foundry shop products	1028	0.17	0.13	2.89	0.65
Aluminum castings	102802	0.13	0.13	2.13	0.86
Castings, nonferrous (except aluminum)	102807	0.28	0.24	3.80	0.91
Metal containers	103	0.61	0.34	6.91	1.12
Metal cans and can components	1031	0.39	0.37	6.90	0.99
Steel cans and tinware end products	103102	0.09	0.24	3.86	1.55
Aluminum cans and can components	103103	0.30	0.34	8.95	1.41
Barrels, drums, pails and other metal containers	1032	0.90	0.57	10.45	4.03
Barrels, drums, pails and other metal containers	103201	0.90	0.57	10.45	4.03
Hardware	104	0.25	0.18	1.58	0.47
Hardware, n.e.c.	1041	0.28	0.28	1.77	0.73
Builders' hardware	104101	0.18	0.13	1.92	0.93
Transportation equipment hardware	104103	0.00	0.00	0.47	0.90
Furniture hardware	104104	0.33	0.73		
Other miscellaneous hardware	104105	2.42	1.92	7.41	4.40
Hand and edge tools	1042	0.12	0.10	1.76	0.50
Hand and edge tools	104201	0.12	0.10	1.76	0.50
Plumbing fixtures and fittings	105	0.07	0.05	2.90	0.62
Plumbing fixture fittings and trim	1054	0.02	0.02	3.43	0.84
Plumbing fixtures, fittings, and trim	105402	0.02	0.02	3.43	0.84
Enameled iron & metal sanitary ware	1056	0.19	0.15	1.50	0.37
Enameled iron and metal sanitary ware	105601	0.19	0.15	1.50	0.37
Heating equipment	106	0.45	0.20	5.24	0.84
Steam and hot water equipment	1061	0.00	0.00	4.26	0.88
Steam and hot water equipment	106101	0.00	0.00	4.26	0.88
Furnaces and heaters, including parts	1062	0.52	0.49	4.44	1.91
Furnaces and heaters, including parts	106201	0.52	0.49	4.44	1.91
Other heating equipment, non-electric, including parts	1063	0.33	0.17	2.16	1.65
Other heating equipment, non-electric, including parts	106301	0.33	0.17	2.16	1.65
Domestic heating stoves	1064	0.00	0.00	0.99	1.44
Domestic heating stoves	106401	0.00	0.00	0.99	1.44
Domestic water heaters	1066	0.01	0.01	8.39	1.75
Domestic water heaters	106601	0.01	0.01	8.39	1.75
Fabricated structural metal products	107	0.50	0.34	7.98	1.30
Metal doors, sash, and trim	1071	0.62	0.34	7.29	1.45
Metal doors and frames (except storm)	107102	0.46	0.32	5.83	1.16
Metal windows (except storm sash)	107103	0.71	0.73	7.36	2.15
Metal molding and trim and store fronts	107104	0.14	1.03	19.86	7.71
Metal combination screen, storm sash, and storm doors	107105	0.00	0.00	1.81	1.40
Metal window and door screens (except combination screens) and metal weather strip	107107	0.00	0.00	1.66	2.22
Metal tanks	1072	0.58	0.65	8.41	1.69
Metal tanks	107201	0.58	0.65	8.41	1.69
Sheet metal products	1073	0.45	0.52	5.53	2.21
Sheet metal products	107301	0.45	0.52	5.53	2.21
Structural, architectural, and pre-engineered metal products	1074	1.10	0.50	9.27	2.52
Fabricated structural metal	107405	1.89	0.84	12.12	4.62
Custom roll form products	107407	0.55	0.36	2.66	1.61
Ornamental and architectural metal work	107408	0.42	0.38	9.29	1.73
Fabricated metal pipe, tube, and fittings	107411	0.42	0.76	4.23	1.31
Heat exchangers and steam condensers	1075	0.04	0.06	5.60	2.51
Heat exchangers and steam condensers	107501	0.04	0.06	5.60	2.51
Fabricated steel plate	1076	0.39	0.97	2.47	3.34
Fabricated steel plate	107601	0.39	0.97	2.47	3.34
Stationary and marine power boilers	1077	0.00	0.00	7.26	3.79
Stationary and marine power boilers	107701	0.00	0.00	7.26	3.79
Prefabricated metal buildings	1079	0.92	0.80	11.60	2.61

**Table 2. Variance estimates for selected Producer Price Index commodity-based indexes, 1-month and 12-month median absolute percent changes and median 1-month and 12-month standard errors of the percent change, 2018**

Index	Index code	1-month median absolute percent change	1-month median standard error	12-month median absolute percent change	12-month median standard error
Prefabricated metal building systems (excl. farm service bldgs, residential bldgs, and parts)	107901	0.79	0.68	13.98	3.43
Farm service buildings and other prefabricated and portable buildings, steel and aluminum	107902	0.42	0.51	7.37	1.95
Panels, parts, and sections for prefabricated buildings, steel and aluminum	107903	0.77	2.32	6.65	3.85
Miscellaneous metal products	108	0.34	0.15	3.75	0.61
Bolts, nuts, screws, rivets, and washers	1081	0.39	0.31	1.77	1.33
Externally threaded fasteners, except aircraft types	108102	0.42	0.38	3.28	2.59
Internally threaded fasteners, except aircraft types	108103	0.15	0.25	1.76	1.26
Nonthreaded metal fasteners, except aircraft types	108104	0.32	0.28	3.29	1.17
Aircraft fasteners, except plastics (including aerospace)	108105	0.03	0.03	0.20	0.16
Lighting fixtures	1083	0.13	0.14	2.26	1.24
Residential electric lighting fixtures, except portable	108302	0.00	0.01	2.37	0.57
Commercial, institutional and industrial electric lighting fixtures	108303	0.15	0.20	3.16	2.43
Other lighting equipment	108305	0.06	0.10	1.47	0.70
Ammunition, except for small arms	1085	0.00	0.00	0.99	0.22
Ammunition, except for small arms	108501	0.00	0.00	0.99	0.22
Ordnance and ordnance accessories, n.e.c.	1086	0.00	0.00	1.01	0.77
Ordnance and ordnance accessories, n.e.c.	108601	0.00	0.00	1.01	0.77
Fabricated ferrous wire products	1088	1.03	0.41	11.25	2.13
Ferrous wire rope, cable, forms and strand	108801	1.85	0.57	16.13	4.04
Ferrous wire cloth, other woven wire products	108807	0.44	0.42	3.05	2.17
Other fabricated ferrous wire products	108809	0.75	0.59	9.56	2.94
Steel nails, staples, tacks, spikes and brads	108812	0.61	0.90	13.58	3.94
Other miscellaneous metal products	1089	0.28	0.17	3.81	0.81
Wire springs	108904	0.25	0.26	10.38	4.38
Other metal products	108905	0.29	0.22	3.42	1.03
Metal stampings n.e.c.	108907	0.17	0.19	2.00	0.81
Metal foil and leaf	108908	1.07	0.89	10.02	2.98
Heavy gauge springs	108909	0.43	0.99	4.32	4.62
Machinery and equipment	11	0.22	0.07	1.63	0.25
Agricultural machinery and equipment	111	0.20	0.13	1.26	0.49
Agricultural machinery and equipment	1114	0.20	0.13	1.26	0.49
Commercial turf and grounds care equipment, including parts and attachments	111401	0.16	0.39	0.74	0.72
Farm plows, harrows, rollers, pulverizers, etc., and attachments	111402	0.00	0.05	5.56	2.13
Farm-type (power take-off hp) wheel tractors (2/4-wheel drive)(with or without attachments)	111403	0.00	0.00	1.20	0.69
Farm dairy equipment, sprayers and dusters, farm blowers, and attachments	111404	0.00	0.00	1.22	2.20
Planting, seeding, and fertilizing machinery and attachments	111405	0.05	0.10	2.40	0.79
Harvesting machinery (except hay and straw) and attachments	111406	0.02	0.02	1.38	1.71
Haying machinery and attachments	111407	0.00	0.00	0.80	0.83
All other farm machinery and equipment, excluding parts, including attachments	111408	0.21	0.21	0.81	1.48
Parts for farm machinery, for sale separately	111409	0.36	0.26	3.37	1.92
Construction machinery and equipment	112	0.11	0.08	1.04	0.71
Tractors and attachments, ex. parts	112A	0.04	0.05	1.01	1.25
Construction machinery for mounting (excluding parts, winches, snow clearing attachments)	112A03	0.06	0.05	1.29	0.80
Tractor shovel loaders (skid steer, wheel, crawler, and integral design backhoes)	112A04	0.01	0.05	2.66	2.85
Construction wheel and crawler tractors, dozers, self-propelled log skidders, etc.	112A05	0.00	0.00	0.49	1.03
Power cranes, draglines, & shovels (excavators) (incl. surface mining equipment) (excl. parts)	112B	0.12	0.12	3.89	1.87
Power cranes, draglines, & shovels (excavators) (incl. surface mining equip.) (excluding parts)	112B05	0.12	0.12	3.89	1.87
Mixers, pavers, and related equipment (excluding parts)	112C	0.05	0.30	2.88	2.09
Mixers, pavers, and related equipment (excluding parts)	112C01	0.05	0.30	2.88	2.09
Off-highway, equipment, ex. parts	112D	0.03	0.09	4.07	3.33
Off-highway trucks, haulers, truck-type tractor chassis, trailers, etc. (excluding parts)	112D02	0.05	0.05	2.85	2.71
Graders, rollers & compactors, rough-terrain forklifts, scrapers, trenchers, etc. (excl. parts)	112D03	0.00	0.00	5.80	4.67
Misc. construction machinery and equipment	112J	0.06	0.09	2.86	0.88
Winches, aerial work platforms, and automotive wrecker hoists	112J01	0.01	0.01	2.90	0.19
Other construction machinery and equipment (excluding parts)	112J03	0.00	0.04	2.76	1.79
Parts for construction machinery and equipment, sold separately	112K	0.26	0.22	2.32	1.41
Parts for construction machinery and equipment, sold separately	112K01	0.26	0.22	2.32	1.41
Metalworking machinery and equipment	113	0.24	0.13	2.13	0.49
Power-driven handtools, including parts and attachments	1132	0.00	0.00	1.83	1.11

**Table 2. Variance estimates for selected Producer Price Index commodity-based indexes, 1-month and 12-month median absolute percent changes and median 1-month and 12-month standard errors of the percent change, 2018**

Index	Index code	1-month median absolute percent change	1-month median standard error	12-month median absolute percent change	12-month median standard error
Power-driven handtools, including parts and attachments	113211	0.00	0.00	1.83	1.11
Welding machines and equipment	1133	0.14	0.21	5.36	1.58
Arc welding machines, components, and accessories, excluding electrodes and stud welding equip	113301	0.01	0.01	7.58	1.25
Resistance welders, components, accessories, and electrodes	113302	0.00	0.00	0.65	0.73
Gas welding and cutting equipment, parts, attachments, and accessories	113304	0.00	0.00	0.80	0.29
Other welding equipment, components, and accessories (excluding arc, resistance, and gas)	113306	0.00	0.00	1.06	0.70
Industrial process furnaces and ovens	1134	0.21	0.14	1.92	0.65
Industrial process furnaces and ovens, except parts and attachments	113407	0.11	0.15	1.70	0.83
Parts and attachments for industrial process furnaces and ovens	113409	0.00	0.00	2.42	0.70
Cutting tools and accessories	1135	0.18	0.15	1.83	0.43
Small cutting tools	113501	0.19	0.15	2.27	0.59
Precision measuring tools	113502	0.00	0.00	0.21	0.61
Other machine tool attachments and accessories	113505	0.09	0.06	1.84	0.80
Abrasive products	1136	0.18	0.20	1.99	1.47
Nonmetallic sized grains, powders, and flour abrasives (incl. graded only)	113601	0.01	0.46	1.46	3.26
Nonmetallic abrasive products (including diamond abrasives)	113603	0.10	0.17	1.59	0.83
Nonmetallic coated abrasive products and buffing wheels, polishing wheels, and laps	113605	0.00	0.00	0.78	1.90
Metal cutting machine tools	1137	0.04	0.16	0.61	0.48
Metal grinding, polishing, buffing, honing, and lapping machines	113713	0.21	0.32	1.24	1.73
Other metal-cutting machine tools	113720	0.03	0.21	0.51	0.68
Metal machining centers	113721	0.00	0.00	0.10	0.73
Rebuilt metal-cutting machine tools and parts for metal-cutting machine tools	113753	0.23	0.25	1.07	0.95
Metal forming machine tools	1138	0.40	0.33	1.28	0.91
Metal-forming machine tools (except rebuilt and parts)	113826	0.36	0.39	0.97	0.95
Rebuilt metal-forming machine tools and parts for metal-forming machine tools	113852	0.00	0.00	2.50	1.35
Tools, dies, jigs, fixtures & ind. molds	1139	0.12	0.36	1.57	1.37
Special tools, dies, jigs, and fixtures	113901	0.33	0.28	2.44	1.28
Industrial molds and mold boxes	113903	0.10	0.46	0.30	2.69
Metalworking machinery n. e. c.	113A	0.06	0.08	1.43	0.38
Metalworking assembly machines	113A01	0.03	0.03	0.84	0.39
Other metalworking machinery	113A02	0.00	0.00	2.74	0.96
Rolling mill machinery	113B	0.01	0.01	7.97	5.08
Rolling mill machinery	113B01	0.01	0.01	7.97	5.08
General purpose machinery and equipment	114	0.33	0.07	3.43	0.30
Pumps, compressors, and equipment	1141	0.34	0.17	3.31	1.15
Industrial pumps, except hydraulic fluid power pumps	114102	0.17	0.19	3.47	1.23
Parts and attachments for air and gas compressors and vacuum pumps	114107	0.00	0.00	2.98	1.14
Industrial spraying equipment	114108	0.00	0.00	1.51	1.18
Domestic water systems	114113	0.00	0.00	1.26	1.07
Air and gas compressors and vacuum pumps	114115	0.54	0.27	4.66	1.33
Other pumps, including parts and attachments	114119	0.12	0.18		
Elevators, escalators, and other lifts	1142	0.12	0.08	2.38	0.79
Elevators and moving stairways	114201	0.15	0.11	2.51	0.95
Parts and attachments for elevators and moving stairs (sold separately)	114202	0.00	0.00	1.64	1.13
Fluid power equipment	1143	0.25	0.15	2.28	0.62
Fluid power pumps and parts	114301	0.27	0.20	1.62	0.62
Fluid power valves	114302	0.04	0.08	1.65	1.08
Fluid power cylinders, actuators, accumulators, cushions, & parts	114303	0.35	0.35	3.82	1.30
Fluid power hose and tube fittings	114304	0.04	0.17	1.82	1.12
Parts for fluid power valves	114305	0.14	0.15	2.59	1.93
Industrial material handling equipment	1144	0.34	0.13	2.82	0.57
Conveying equipment, except parts and accessories	114402	0.26	0.21	2.85	0.84
Industrial trucks, trailers, and stackers	114403	0.32	0.18	2.68	0.73
Hoists, overhead cranes, and monorail systems	114404	0.07	0.14	3.72	1.32
Mechanical power transmission equipment	1145	0.28	0.18	3.00	0.90
Speed changers, drives, gears	114501	0.14	0.19	3.92	1.28
Other power transmission equipment	114502	0.25	0.11	2.00	1.04
Scales and balances	1146	0.01	0.01	5.91	1.83
Vehicle and industrial scales	114611	0.02	0.03	8.48	2.75
Retail, commercial, household, and mailing scales and balances	114612	0.00	0.00	3.42	1.23

**Table 2. Variance estimates for selected Producer Price Index commodity-based indexes, 1-month and 12-month median absolute percent changes and median 1-month and 12-month standard errors of the percent change, 2018**

Index	Index code	1-month median absolute percent change	1-month median standard error	12-month median absolute percent change	12-month median standard error
Parts, attachments, and accessories for scales and balances	114613	0.00	0.00	3.39	1.08
Air purification equipment and industrial and commercial fans and blowers	1147	0.26	0.17	3.77	0.97
Fan, blower, air purification equipment	114701	0.26	0.17	3.77	0.97
Air conditioning and refrigeration equip	1148	0.27	0.18	4.76	0.75
Unitary air-conditioners, except air source heat pumps	114802	0.00	0.00	6.37	2.00
Commercial refrigeration equipment	114803	0.00	0.00	1.31	0.58
All other miscellaneous refrigeration and air-conditioning equipment	114806	0.00	0.00	0.57	2.71
Heat transfer equipment, including heat pumps	114807	0.27	0.29	5.92	1.15
Parts and accessories for air conditioning and heat transfer equipment	114809	0.00	0.00	3.68	2.00
Miscellaneous general purpose equipment	1149	0.28	0.11	3.42	0.46
Metal valves, except fluid power	114902	0.27	0.14	4.10	0.96
Metal pipe fittings, flanges, and unions	114903	0.25	0.62	5.02	2.61
Ball and roller bearings	114905	0.21	0.17	3.35	0.43
Filters and strainers	114908	0.12	0.16	1.22	0.56
Other miscellaneous general purpose equipment	114911	0.14	0.24	1.33	0.53
Electronic computers and computer equipment	115	0.40	0.32	0.52	0.95
Electronic computers	1151	1.27	0.80	3.07	1.33
Electronic computers	115101	1.27	0.80	3.07	1.33
Computer storage devices	1152	0.01	0.01	0.17	3.32
Computer storage devices (excluding parts, attachments and accessories)	115201	0.01	0.01	0.17	3.32
Computer peripheral equipment and parts	1154	0.02	0.03	0.43	0.47
Parts, attachments & accessories for computer and POS terminals and computer peripherals	115405	0.00	0.00	0.00	0.00
POS terminals, funds-transfer devices, computer terminals & other computer peripheral equip.	115406	0.03	0.04	0.80	0.92
Special industry machinery and equipment	116	0.18	0.09	1.65	0.32
Food products machinery	1161	0.22	0.18	3.42	0.99
Dairy and milk products plant machinery and equipment	116101	0.05	0.05	3.08	2.10
Commercial food products machinery (except packaging and cooking equipment)	116104	0.15	0.19	4.52	1.99
Industrial food products machinery for processing foods, beverages, & animal & fowl feed	116105	0.13	0.12	2.34	0.60
Textile machinery and equipment	1162	0.00	0.00	0.19	0.91
Textile machinery (except parts, attachments, and accessories)	116212	0.00	0.00	0.43	0.42
Textile machinery parts and attachments	116277	0.00	0.00	0.35	1.44
Sawmill and woodworking machinery	1163	0.29	0.31	8.81	2.46
Sawmill and woodworking machinery	116306	0.29	0.31	8.81	2.46
Paper industries machinery	1164	0.01	0.01	1.15	0.79
Paper industries machinery	116401	0.01	0.01	1.15	0.79
Printing trades machinery and equipment	1165	0.25	0.19	0.75	0.61
Printing presses	116508	0.00	0.00	0.05	0.49
Other printing machinery and equipment	116509	0.32	0.25	0.95	0.85
Other special industry machinery	1166	0.08	0.08	1.17	0.57
Plastics and rubber working machinery	116603	0.05	0.10	0.42	0.99
Miscellaneous special industry machinery	116606	0.08	0.10	1.41	0.67
Packing, packaging, and bottling machinery and parts	1167	0.39	0.52	2.78	0.99
Packing, packaging, and bottling machinery and parts	116705	0.39	0.52	2.78	0.99
Service industry machinery and parts	1168	0.36	0.19	1.31	0.39
Service industry machinery and parts	116801	0.36	0.19	1.31	0.39
Commercial laundry and drycleaning machinery products	1169	0.00	0.00	2.18	0.40
Commercial laundry and drycleaning machinery products	116909	0.00	0.00	2.18	0.40
Electrical machinery and equipment	117	0.15	0.12	1.30	0.61
Wiring devices	1171	0.24	0.21	2.13	0.46
Current-carrying wiring devices	117101	0.26	0.30	1.04	0.71
Noncurrent-carrying wiring devices	117102	0.15	0.21	3.21	0.60
Integrating and measuring instruments	1172	0.18	0.30	1.82	1.26
Test equipment for electrical, radio, & communication circuits & motors	117205	0.12	0.11	3.02	1.58
Electrical integrating instruments and other instruments to measure electricity	117209	0.03	0.03	0.32	1.69
Motors, generators, motor generator sets	1173	0.11	0.05	2.10	0.52
Fractional horsepower motors and generators	117303	0.05	0.08	1.62	0.68
Integral horsepower motors and generators (excluding land transportation types)	117304	0.01	0.02	5.49	0.67
Parts and supplies for motors and generators	117309	0.00	0.00	2.37	1.60
Other motors and generators	117311	0.00	0.00	2.29	0.92
Transformers and power regulators	1174	0.22	0.08	5.46	0.96

**Table 2. Variance estimates for selected Producer Price Index commodity-based indexes, 1-month and 12-month median absolute percent changes and median 1-month and 12-month standard errors of the percent change, 2018**

Index	Index code	1-month median absolute percent change	1-month median standard error	12-month median absolute percent change	12-month median standard error
Power and distribution transformers, except parts	117409	0.23	0.02	5.23	0.26
Other transformers and parts for transformers	117411	0.08	0.30	5.42	3.87
Switchgear, switchboard, industrial controls equipment	1175	0.18	0.17	1.97	0.54
Industrial controls and related parts and accessories	117507	0.06	0.07	1.67	0.64
Switchgear and switchboard apparatus	117522	0.24	0.21	2.32	0.81
Communications and related equipment and miscellaneous electronic systems & equipment	1176	0.05	0.10	1.77	1.07
Telephone and wireline data networking equipment	117601	0.06	0.11	0.56	0.60
Other communications and related equipment, including broadcast and wireless	117603	0.04	0.09	0.60	0.70
Electronic systems and equipment, n.e.c.	117605	0.19	0.32	0.51	1.67
Search, detection, navigation & guidance systems and equipment	117606	0.09	0.09	4.14	2.01
Electric lamp bulbs and tubes	1177	1.37	0.65	4.84	4.54
Electric lamp bulbs and tubes	117704	1.37	0.65	4.84	4.54
Electronic components and accessories	1178	0.16	0.18	1.78	1.02
Capacitors for electronic circuitry	117811	0.30	0.14	18.04	12.86
Resistors for electronic circuitry	117812	0.00	0.00	0.70	0.80
Relays for electronic circuitry, industrial control overload, and switchgear type	117821	0.36	0.54	0.45	2.01
Switches, mechanical (electronic applications)	117822	0.00	0.00	2.12	0.81
Connectors for electronic circuitry	117824	0.32	0.24	1.98	0.85
Filters, crystals, and transducers	117828	0.00	0.00	0.73	1.34
Integrated microcircuits	117839	0.38	0.23	5.98	2.83
Other semiconductor and related devices	117847	0.12	0.16	2.21	1.80
Bare printed circuit boards	117849	0.00	0.00	0.05	0.05
Electronic coils, transformers, and other inductors	117853	0.07	0.11	1.75	0.53
Other electronic components, n.e.c.	117856	0.12	0.20	2.29	1.18
Printed circuit assemblies, loaded boards, modules and consumer external modems	117861	0.00	0.00	0.87	1.03
Miscellaneous electrical machinery and equipment	1179	0.10	0.11	5.18	2.29
Storage batteries	117901	0.17	0.14	7.27	0.91
Primary batteries	117902	0.58	0.97	5.04	2.90
Carbon and graphite products	117903	0.00	0.01	67.93	38.56
X-ray and electromedical equipment	117905	0.03	0.09	0.49	0.48
Miscellaneous electrical industrial apparatus	117929	0.25	0.28	4.63	2.71
All other electrical equipment and components, except industrial	117939	0.00	0.00	0.15	2.59
Miscellaneous instruments	118	0.14	0.10	1.81	0.23
Automatic environmental controls for monitoring residential, commercial, and appliance use	1181	0.21	0.14	3.99	1.89
Automatic environmental controls for monitoring residential, commercial, and appliance use	118105	0.21	0.14	3.99	1.89
Industrial process control instruments	1182	0.26	0.25	1.50	0.63
Industrial process control instruments	118201	0.26	0.25	1.50	0.63
Fluid meters and counting devices	1184	0.11	0.10	3.22	0.50
Fluid meters and counting devices	118401	0.11	0.10	3.22	0.50
Engineering and scientific instruments	1185	0.05	0.12	2.69	0.70
Aeronautical, nautical, and navigational instruments	118501	0.00	0.00	4.68	1.19
Hospital beds and specialized hospital furniture	118504	0.00	0.00	0.49	0.84
Measuring instruments and lenses	1186	0.00	0.02	1.10	0.28
Sighting, tracking, and fire-control equipment, optical type	118601	0.00	0.00	0.12	0.29
All other miscellaneous optical instruments and lenses	118602	0.04	0.06	1.70	0.75
Laboratory analytical instruments	118603	0.01	0.01	1.17	0.34
Measuring & controlling devices, n.e.c.	1189	0.07	0.07	1.63	0.63
Aircraft engine instruments	118901	0.00	0.00	4.36	3.50
Nuclear radiation detection & monitoring instruments	118904	0.00	0.00	0.92	0.40
Physical properties and kinematic testing equipment	118905	0.00	0.00	1.55	0.78
Commercial, geophysical, meteorological & general-purpose instruments	118906	0.08	0.09	0.80	0.48
Miscellaneous machinery	119	0.29	0.16	1.16	0.68
Oil field and gas field machinery	1191	0.05	0.06	0.96	0.60
Oil field and gas field drilling machinery (except parts sold separately)	119102	0.02	0.05	0.20	0.54
Oil field and gas field production machinery (except pumps and parts sold separately)	119104	0.00	0.00	2.12	1.64
Parts and attachments for oil and gas field machinery and equipment	119106	0.00	0.00	1.90	2.09
Mining machinery and equipment	1192	0.04	0.07	3.18	0.61
Underground mining machinery (except parts sold separately)	119201	0.00	0.00	4.92	0.05
Crushing, pulverizing, & screening machinery (except parts sold separately)	119202	0.00	0.00	4.59	2.42
Drills and other mining machinery (except parts sold separately)	119203	0.02	0.02	2.45	0.77

**Table 2. Variance estimates for selected Producer Price Index commodity-based indexes, 1-month and 12-month median absolute percent changes and median 1-month and 12-month standard errors of the percent change, 2018**

Index	Index code	1-month median absolute percent change	1-month median standard error	12-month median absolute percent change	12-month median standard error
Mineral processing & beneficiation machinery (except parts sold separately)	119206	0.00	0.00	0.55	0.43
Parts and attachments for mining machinery and equipment (sold separately)	119253	0.00	0.00	1.37	1.72
Office and store machines and equipment	1193	0.07	0.17	1.09	1.47
Office machinery, including mailing, letter handling, and addressing machines and parts	119307	0.00	0.00	1.77	1.62
Internal combustion engines	1194	0.04	0.06	1.22	0.38
Diesel, semidiesel, and dual-fuel engines for automobiles, trucks, and buses	119408	0.00	0.00	1.49	0.55
Parts & accessories for internal combustion engines, ex. aircraft & gasoline automotive engines	119413	0.08	0.06	1.56	0.73
Other machine shop products	1195	0.13	0.12	2.24	1.67
Machine shop products	119505	0.13	0.12	2.24	1.67
Turbines and turbine generator sets	1197	0.72	1.07		
Turbines and turbine generator sets (excluding parts)	119701	0.72	1.07		
Parts & accesories for turbines, turbine generators, and turbine generator sets	1198	0.14	0.05	2.70	2.67
Parts & accesories for turbines, turbine generators, and turbine generator sets	119801	0.14	0.05	2.70	2.67
Furniture and household durables	12	0.27	0.14	2.75	0.34
Household furniture	121	0.13	0.23	2.90	0.50
Metal household furniture	1211	0.94	0.77	2.99	1.63
Metal household furniture	121101	0.94	0.77	2.99	1.63
Wood household furniture	1212	0.18	0.14	1.25	0.41
Living room furniture (nonupholstered), wood	121201	0.14	0.16	1.82	0.93
Dining room furniture (nonupholstered), wood	121202	0.18	0.26	1.42	0.74
Bedroom furniture (nonupholstered), wood	121203	0.13	0.13	1.12	0.51
Other wood household furniture	121204	0.00	0.00	0.83	0.23
Custom nonupholstered wood household furniture sold direct, excl. kitchen cabinets and vanities	121205	0.00	0.00	0.00	0.00
Upholstered household furniture	1213	0.14	0.15	2.39	0.33
Upholstered household furniture	121301	0.14	0.15	2.39	0.33
Bedding	1214	0.35	0.64	5.34	1.52
Bedding	121401	0.35	0.64	5.34	1.52
Metal porch, lawn, outdoor & casual furniture	1215	0.00	0.00	0.06	1.15
Porch and lawn furniture	121501	0.00	0.00	0.06	1.15
Nonupholstered household furniture, except wood and metal	1216	0.00	0.00	0.50	1.30
Nonupholstered household furniture, except wood and metal	121601	0.00	0.00	0.50	1.30
Commercial furniture	122	0.60	0.32	3.11	0.71
Wood office furniture and store fixtures	1221	0.25	0.20	2.51	0.70
Wood office furniture and store fixtures	122101	0.25	0.20	2.51	0.70
Nonwood furniture and store fixtures	1222	1.19	0.66	4.42	1.50
Nonwood commercial storage units, files, and tables	122202	1.01	0.89	2.38	1.39
Nonwood commercial furniture	122203	1.25	1.07	4.20	1.90
Nonwood partitions and fixtures	122204	0.31	1.08	7.67	3.00
Public building furniture	1223	0.03	0.03	2.06	0.78
Public building furniture	122301	0.03	0.03	2.06	0.78
Commercial furniture and fixtures, n.e.c.	1224	0.18	0.14	1.34	1.37
Commercial furniture and fixtures, n.e.c.	122401	0.18	0.14	1.34	1.37
Floor coverings	123	0.44	0.38	4.36	1.29
Carpets and rugs	1231	0.45	0.45	4.86	1.45
Carpet and rugs	123101	0.45	0.45	4.86	1.45
Resilient floor coverings	1232	0.00	0.00	1.33	1.06
Household appliances	124	0.28	0.19	2.67	0.66
Major appliances	1241	0.41	0.24	2.92	0.82
Household cooking appliances	124101	0.71	0.48	2.15	0.95
Household refrigeration equipment	124103	0.38	0.28	2.09	0.72
Other major household appliances including room air-conditioners	124104	0.59	0.49	2.54	1.86
Electric housewares and fans	1244	0.26	0.30	0.68	0.79
Small electric household appliances, except fans and wall and baseboard heating units	124401	0.37	0.46	0.39	1.11
Portable residential lighting fixtures, including parts and accessories	1245	0.00	0.00	3.12	1.01
Portable residential lighting fixtures, including parts and accessories	124501	0.00	0.00	3.12	1.01
Home electronic equipment	125	0.13	0.25	0.53	0.85
Speakers and commercial sound equipment	1257	0.26	0.33	1.33	1.43
Speakers and commercial sound equipment	125707	0.26	0.33	1.33	1.43
Other home electronic equipment	1258	0.03	0.21	0.25	0.81

**Table 2. Variance estimates for selected Producer Price Index commodity-based indexes, 1-month and 12-month median absolute percent changes and median 1-month and 12-month standard errors of the percent change, 2018**

Index	Index code	1-month median absolute percent change	1-month median standard error	12-month median absolute percent change	12-month median standard error
Other consumer audio and video equipment, including television receivers	125803	0.00	0.00	0.11	0.78
Other household durable goods	126	0.15	0.14	1.61	0.58
Vitreous china, fine earthenware, and other pottery products	1261	0.01	0.03	5.13	2.08
Vitreous china, porcelain, and earthenware table and kitchenware and other pottery products	126101	0.01	0.03	5.13	2.08
Mirrors (decorated and undecorated)	1265	0.00	0.00	2.45	1.54
Mirrors (decorated and undecorated), made from purchased glass	126501	0.00	0.00	2.45	1.54
Lawn/garden equipment	1266	0.18	0.20	1.50	1.06
Parts and attachments for consumer lawn, garden, and snow equipment	126605	0.42	0.19	2.39	0.50
Cutlery, flatware (except precious), razors and razor blades	1267	0.09	0.09	0.71	0.39
Cutlery, flatware (except precious), razors and razor blades	126701	0.09	0.09	0.71	0.39
Metal kitchen utensil, pots, and pans	1268	0.08	0.08	3.40	0.81
Metal kitchen utensil, pots, and pans	126801	0.08	0.08	3.40	0.81
Window shades, blinds, and accessories	1269	0.07	0.10	2.18	1.19
Window shades, blinds, and accessories	126901	0.07	0.10	2.18	1.19
Nonmetallic mineral products	13	0.26	0.15	3.58	0.34
Glass	131	0.19	0.16	3.52	0.62
Flat glass	1311	0.25	0.22	2.37	0.80
Flat glass (float, sheet, and plate process)	131105	0.19	0.23	7.19	1.76
Specialty glass	131107	0.27	0.26	1.12	0.99
Other finished glassware	1313	0.12	0.13	6.58	0.94
Pressed and blown glassware	131301	0.12	0.13	6.58	0.94
Concrete ingredients and related products	132	0.19	0.18	3.27	0.77
Construction sand, gravel, and crushed stone	1321	0.17	0.25	3.54	0.98
Construction sand, gravel and crushed stone	132101	0.17	0.25	3.54	0.98
Cement, hydraulic	1322	0.23	0.15	2.65	1.07
Cement, hydraulic	132201	0.23	0.15	2.65	1.07
Concrete products	133	0.25	0.34	3.69	0.75
Concrete block and brick	1331	0.34	0.35	2.88	0.87
Structural concrete block	133111	0.31	0.26	2.11	0.63
Decorative concrete block	133121	0.62	1.06	3.21	1.79
Concrete brick	133131	0.33	0.23	8.55	12.72
Concrete pavers	133141	0.00	0.00	3.18	1.07
Concrete pipe	1332	0.74	0.72	1.17	0.82
Concrete pipe	133201	0.74	0.72	1.17	0.82
Ready-mix concrete	1333	0.40	0.54	3.95	1.24
Ready-mix concrete	133301	0.40	0.54	3.95	1.24
Precast concrete products	1334	0.36	0.29	3.80	1.45
Precast concrete products	133401	0.36	0.29	3.80	1.45
Prestressed concrete products	1335	0.26	0.34	4.15	2.11
Prestressed concrete products	133501	0.26	0.34	4.15	2.11
Clay construction products ex. refractories	134	0.09	0.10	1.77	0.58
Brick and structural clay tile	1342	0.09	0.10	1.86	0.73
Building or common brick	134201	0.10	0.11	1.90	0.78
Glazed brick and other brick (paving, floor, and sewer)	134202	0.20	0.35	1.56	0.83
Clay floor and wall tile, glazed and unglazed	1344	0.00	0.00	0.20	0.24
Clay floor and wall tile, glazed and unglazed (including quarry tile and ceramic mosaic tile)	134401	0.00	0.00	0.20	0.24
Structural clay products, n.e.c.	1345	0.00	0.00	8.11	4.71
Structural clay products, n.e.c.	134501	0.00	0.00	8.11	4.71
Refractories	135	0.62	0.77	3.83	1.44
Clay refractories	1352	0.24	0.35	1.34	0.88
Clay refractories	135201	0.24	0.35	1.34	0.88
Nonclay refractories	1353	1.22	1.08	6.00	2.48
Nonclay refractories (excluding dead-burned magnesia)	135301	1.22	1.08	6.00	2.48
Asphalt felts and coatings	136	1.26	1.36	6.26	2.22
Prepared asphalt and tar roofing and siding products	1361	1.38	1.55	6.55	2.55
Prepared asphalt and tar roofing and siding products	136101	1.38	1.55	6.55	2.55
Roofing asphalts, pitches, coatings, and cement	1362	0.00	0.00	5.78	2.16
Roofing asphalts, pitches, coatings, and cement	136201	0.00	0.00	5.78	2.16
Gypsum products	137	1.29	0.56	6.57	1.29



**Table 2. Variance estimates for selected Producer Price Index commodity-based indexes, 1-month and 12-month median absolute percent changes and median 1-month and 12-month standard errors of the percent change, 2018**

Index	Index code	1-month median absolute percent change	1-month median standard error	12-month median absolute percent change	12-month median standard error
Gypsum products	1371	1.29	0.56	6.57	1.29
Gypsum products	137101	1.29	0.56	6.57	1.29
Glass containers	138	0.04	0.04	2.17	0.55
Glass containers	1381	0.04	0.04	2.17	0.55
Glass containers (including value of packaging)	138101	0.04	0.04	2.17	0.55
Other nonmetallic minerals	139	0.50	0.28	2.95	0.65
Insulation materials	1392	0.39	0.35	2.17	1.05
Mineral wool for thermal and acoustical envelope insulation	139201	0.29	0.41	2.11	1.47
Mineral wool for industrial, equipment, and appliance insulation	139202	0.57	0.60	3.30	1.67
Paving mixtures and blocks	1394	1.26	0.67	5.70	1.93
Paving mixtures and blocks	139401	1.26	0.67	5.70	1.93
Cut stone and stone products	1395	0.47	0.48	2.95	1.62
Cut stone and stone products	139501	0.47	0.48	2.95	1.62
Gaskets, packing, and sealing devices	1398	0.12	0.10	1.96	0.54
Gaskets and gasketing material	139801	0.17	0.14	1.20	0.81
Packing and sealing	139802	0.14	0.10	3.08	0.76
Nonmetallic minerals and products, n.e.c.	1399	0.20	0.25	1.18	0.64
Industrial sand	139901	0.75	0.82	2.18	3.09
Clay and stone mining and quarrying	139902	0.12	0.20	1.30	0.89
All other miscellaneous nonmetallic mineral products	139903	0.05	0.09	0.57	1.05
Transportation equipment	14	0.06	0.05	1.23	0.17
Motor vehicles and equipment	141	0.09	0.08	1.20	0.24
Motor vehicles	1411	0.15	0.11	0.77	0.30
Passenger cars and chassis	141101	0.12	0.12	1.29	0.74
Motorcycles, including three-wheel motorbikes, motorscooters, mopeds, and parts	141104	0.00	0.00	0.41	0.41
Trucks, truck tractors, & bus chassis 14,000 lb or less, incl. minivans & suvs	141105	0.24	0.18	1.14	0.41
Trucks, over 14,000 lbs GVW	141106	0.12	0.10	1.13	0.52
Motor vehicles parts	1412	0.06	0.06	1.32	0.53
Motor vehicles parts	141205	0.06	0.06	1.32	0.53
Truck and bus bodies	1413	0.36	0.12	2.47	0.40
Truck and bus bodies sold separately	141301	0.39	0.17	3.09	0.57
Complete vehicles on purchased chassis	141302	0.14	0.13	1.85	0.45
Truck trailers	1414	0.58	0.19	4.76	0.52
Truck trailers	141406	0.58	0.19	4.76	0.52
Motor homes, built on purchased chassis	1415	0.10	0.07	2.39	0.28
Motor homes, built on purchased chassis	141501	0.10	0.07	2.39	0.28
Travel trailers and campers	1416	0.17	0.09	4.70	1.04
Travel trailers	141601	0.10	0.06	3.92	1.30
Camping trailers, campers, pick-up covers, and parts	141602	0.05	0.03	7.96	3.22
Aircraft and aircraft equipment	142	0.11	0.04	1.32	0.28
Aircraft	1421	0.14	0.02	1.72	0.34
Civilian aircraft	142102	0.21	0.03	2.63	0.21
Military aircraft	142104	0.00	0.00	0.04	0.82
Aircraft engine and engine parts	1423	0.08	0.13	1.05	0.45
Aircraft engine and engine parts	142301	0.08	0.13	1.05	0.45
Other aircraft parts and equipment	1425	0.08	0.07	0.90	0.69
Other aircraft parts and equipment	142501	0.08	0.07	0.90	0.69
Ships and boats	143	0.08	0.06	1.30	0.48
Ships	1431	0.00	0.00	0.21	0.62
Military self-propelled ships, new construction	143102	0.00	0.00	0.64	0.53
Nonmilitary self-propelled ships, new construction	143103	0.00	0.00	2.42	2.10
Nonpropelled ships, new construction	143104	0.00	0.00	0.00	0.00
Boats	1432	0.19	0.09	3.02	0.41
Outboard motorboats, including commercial and military (except sailboats and lifeboats)	143201	0.14	0.10	3.78	0.67
Inboard motorboats, including commercial and military (except sailboats and lifeboats)	143202	0.32	0.12	3.21	0.40
Inboard-outdrive boats, including commercial and military (except sailboats and lifeboats)	143203	0.00	0.00	3.49	0.95
Railroad equipment	144	0.03	0.11	0.67	1.05
Locomotives, new and rebuilt, including parts	1441	0.07	0.18	0.70	2.05
Locomotives, new and rebuilt, including parts	144104	0.07	0.18	0.70	2.05

**Table 2. Variance estimates for selected Producer Price Index commodity-based indexes, 1-month and 12-month median absolute percent changes and median 1-month and 12-month standard errors of the percent change, 2018**

Index	Index code	1-month median absolute percent change	1-month median standard error	12-month median absolute percent change	12-month median standard error
Railroad cars and car parts	1442	0.02	0.02	0.63	0.70
Railway maintenance of way equipment & parts, railcar parts, & other railway vehicles	144203	0.07	0.05	1.29	0.92
Railroad cars	144204	0.00	0.00	1.40	0.90
Transportation equipment, n.e.c.	149	0.13	0.10	1.53	0.46
Transportation equipment, n.e.c.	1491	0.13	0.10	1.53	0.46
Other transportation equipment, incl. golf carts, vehicle trailers, and all-terrain vehicles	149111	0.13	0.10	1.53	0.46
Miscellaneous products	15	0.14	0.10	2.57	0.35
Toys, sporting goods, small arms, etc.	151	0.11	0.13	1.34	0.50
Toys, games, and children's vehicles	1511	0.01	0.03	1.82	0.97
Toys, games, and children's vehicles	151101	0.01	0.03	1.82	0.97
Sporting and athletic goods	1512	0.20	0.12	0.60	0.70
Sporting and athletic goods	151201	0.20	0.12	0.60	0.70
Small arms and ammunition	1513	0.07	0.11	2.03	0.93
Small arms	151301	0.09	0.11	0.44	0.90
Small arms ammunition	151302	0.00	0.00	4.18	2.06
Other small arms ammunition products	151303	0.00	0.00	3.46	1.17
Tobacco products, incl. stemmed & redried	152	0.08	0.04	5.91	1.06
Cigarettes, including nontobacco	1521	0.00	0.00	6.42	1.30
Cigarettes, including nontobacco	152101	0.00	0.00	6.42	1.30
Stemmed and redried tobacco	1524	0.01	0.00	1.54	0.44
Stemmed and redried tobacco	152402	0.01	0.00	1.54	0.44
Other tobacco products	1525	0.07	0.06	3.44	0.41
Other tobacco products	152501	0.07	0.06	3.44	0.41
Notions	153	0.45	0.71	1.09	0.94
Fasteners, zippers, buttons, needles, pins, and buckles	1532	0.48	0.76	1.03	0.86
Fasteners, zippers, buttons, needles, pins, and buckles	153201	0.48	0.76	1.03	0.86
Photographic equipment and supplies	154	0.02	0.05	0.22	0.26
Photographic and photocopying equipment	1541	0.00	0.00	0.49	0.48
Photographic and photocopying equipment	154107	0.00	0.00	0.49	0.48
Photographic supplies	1542	0.02	0.02	0.22	0.25
Photographic supplies	154206	0.02	0.02	0.22	0.25
Mobile homes	155	0.36	0.29	5.93	1.58
Manufactured homes (mobile homes), all sizes (incl. multisection)	1553	0.36	0.29	5.93	1.58
Manufactured mobile homes and nonresidential mobile buildings	155303	0.36	0.29	5.93	1.58
Medical, surgical & personal aid devices	156	0.10	0.12	1.12	0.36
Surgical and medical instruments	1562	0.15	0.15	0.57	0.48
Surgical and medical instruments	156201	0.15	0.15	0.57	0.48
Medical and surgical appliances and supplies	1563	0.18	0.22	1.20	0.54
Medical and surgical appliances and supplies	156301	0.18	0.22	1.20	0.54
Ophthalmic goods	1564	0.20	0.48	2.56	1.59
Ophthalmic goods	156401	0.20	0.48	2.56	1.59
Dental equipment and supplies	1565	0.86	0.59	2.62	1.19
Dental equipment and supplies	156501	0.86	0.59	2.62	1.19
Other industrial safety equipment	157	0.07	0.11	3.46	3.19
Personal safety equipment and clothing	1571	0.07	0.11	3.46	3.19
Personal safety equipment and clothing	157108	0.07	0.11	3.46	3.19
Other miscellaneous products	159	0.26	0.28	1.25	0.98
Burial caskets	1591	0.02	0.02	3.71	0.27
Burial caskets	159101	0.02	0.02	3.71	0.27
Musical instruments	1593	0.19	0.10	3.38	1.27
Musical instruments	159301	0.19	0.10	3.38	1.27
Jewelry and jewelry products	1594	0.23	0.21	1.16	1.14
Jewelry (gold and platinum) and silverware	159402	0.38	0.17	2.85	1.78
Costume jewelry and novelties	159404	0.05	0.06	3.50	0.64
All other jewelry and personal goods (excluding costume)	159407	0.27	0.25	1.30	1.01
Jewelers' material and lapidary work	159408	0.03	0.19	0.21	1.42
Pens, pencils, and marking devices	1595	0.01	0.02	1.99	0.44
Pens, markers, mechanical pencils, and associated parts	159502	0.01	0.02	1.39	0.72
Lead pencils, art goods, office supplies and small office equipment, excluding paper	159503	0.00	0.00	2.56	0.73



**Table 2. Variance estimates for selected Producer Price Index commodity-based indexes, 1-month and 12-month median absolute percent changes and median 1-month and 12-month standard errors of the percent change, 2018**

Index	Index code	1-month median absolute percent change	1-month median standard error	12-month median absolute percent change	12-month median standard error
Warehousing, storage, and related services	3211	0.25	0.41	3.89	1.65
Warehousing, storage, and related services	321101	0.25	0.41	3.89	1.65
Publishing sales, excluding software	33	0.35	0.34	2.16	0.66
Book, periodical, and newspaper publishing sales and subscriptions	331	0.73	0.58	2.53	1.08
Sales of books	3311	0.56	0.78	2.14	1.54
Sales of textbooks	331101	0.34	1.75	2.27	4.12
Sales of technical, scientific, and professional books	331102	1.17	1.14	5.01	2.78
Sales of religious books	331103	1.23	1.39	2.05	3.45
Sales of general adult and juvenile books	331104	0.68	1.12	0.85	1.12
Sales of general reference books	331105	0.85	1.72	1.62	7.00
Sales of digital books	331106	0.98	1.30	0.88	2.09
Sales and subscriptions of periodicals and newspapers	3312	0.55	0.62	2.91	1.33
Sales and subscriptions of periodicals	331201	0.59	0.70	0.92	0.56
Newspaper subscription and single copy sales	331202	0.53	0.62	6.61	2.81
Directory, mailing list, and related compilations publishing sales	332	1.07	1.59	2.14	2.04
Directory, mailing list, and related compilations publishing sales	3321	1.07	1.59	2.14	2.04
Directory, mailing list, and related compilations publishing sales	332101	1.07	1.59	2.14	2.04
Greeting card publishing sales	333	0.01	0.01	0.12	0.14
Greeting card publishing sales	3331	0.01	0.01	0.12	0.14
Greeting card publishing sales	333101	0.01	0.01	0.12	0.14
Calendars, yearbooks, and other miscellaneous publishing sales	334	0.16	0.31	1.85	1.79
Calendars, yearbooks, and other miscellaneous publishing sales	3341	0.16	0.31	1.85	1.79
Calendars, yearbooks, and other miscellaneous publishing sales	334101	0.16	0.31	1.85	1.79
Internet publishing and broadcasting subscription, content access, and licensing sales	335	0.21	0.25	2.25	0.98
Internet publishing and broadcasting subscription, content access, and licensing sales	3351	0.21	0.25	2.25	0.98
Internet publishing and broadcasting subscription, content access, and licensing sales	335101	0.21	0.25	2.25	0.98
Software publishing	34	0.72	0.83	0.78	1.46
Application software publishing	342	1.20	1.27	0.88	2.08
Application software publishing	3421	1.20	1.27	0.88	2.08
Desktop and portable device application software publishing	342101	0.70	1.16	0.76	1.82
Application software publishing, cross-industry, vertical market, utilities, and other	342103	1.58	1.80	1.86	1.49
Application software publishing, game software	342104	2.84	6.80	8.07	17.30
Network compensation from broadcast and cable television and radio	35	0.00	0.00	4.82	1.03
Affiliate agreements, programming sales, and retransmission fees for cable and broadcast tv	351	0.00	0.00	4.76	1.02
Affiliate agreements, programming sales, and retransmission fees for cable and broadcast tv	3511	0.00	0.00	4.76	1.02
Affiliate agreements, programming sales, and retransmission fees for cable and broadcast tv	351101	0.00	0.00	4.76	1.02
Affiliate agreements, programming sales, and retransmission fees for radio	352	0.00	0.00	8.64	9.15
Affiliate agreements, programming sales, and retransmission fees for radio	3521	0.00	0.00	8.64	9.15
Affiliate agreements, programming sales, and retransmission fees for radio	352101	0.00	0.00	8.64	9.15
Advertising space and time sales	36	1.50	0.92	4.07	1.72
Advertising space sales in periodicals, newspapers, directories, and mailing lists	361	0.29	0.51	1.04	1.69
Advertising space sales in periodicals and newspapers	3611	0.34	0.61	0.97	2.00
Advertising space sales in periodicals	361101	0.95	0.68	1.29	0.90
Advertising space sales in newspapers	361102	0.53	0.73	2.89	3.68
Advertising space sales in directories and mailing lists	3612	0.00	0.00	1.04	1.07
Advertising space sales in directories and mailing lists	361201	0.00	0.00	1.04	1.07
Television advertising time sales	362	3.76	1.43	4.28	2.27
Television advertising time sales	3621	3.76	1.43	4.28	2.27
Broadcast and network television advertising time sales	362101	4.57	2.26	3.52	2.74
Cable network advertising time sales	362102	1.98	1.42	5.06	3.98
Local cable system advertising time sales	362103	0.00	0.00	0.00	0.00
Radio advertising time sales	363	0.79	1.14	1.49	4.04
Radio advertising time sales	3631	0.79	1.14	1.49	4.04
Radio advertising time sales	363101	0.79	1.14	1.49	4.04
Internet advertising sales, excluding Internet advertising sold by print publishers	365	2.45	1.97	11.29	6.86
Internet advertising sales, excluding Internet advertising sold by print publishers	3651	2.45	1.97	11.29	6.86

**Table 2. Variance estimates for selected Producer Price Index commodity-based indexes, 1-month and 12-month median absolute percent changes and median 1-month and 12-month standard errors of the percent change, 2018**

Index	Index code	1-month median absolute percent change	1-month median standard error	12-month median absolute percent change	12-month median standard error
Internet advertising sales, excluding Internet advertising sold by print publishers	365101	2.45	1.97	11.29	6.86
Telecommunication, cable, and internet user services	37	0.25	0.27	1.81	0.92
Wired telephone services	371	0.08	0.12	4.08	1.62
Residential wired telephone services	3711	0.25	0.22	2.76	0.69
Local residential wired telephone service	371101	0.09	0.06	4.55	0.47
Long distance residential wired telephone service	371102	0.63	0.52	0.59	1.83
All-distance residential wired telephone service	371103	0.00	0.00	3.74	0.36
Business wired telephone services	3712	0.17	0.16	6.07	3.40
Local business wired telephone service	371201	0.01	0.02	17.57	10.82
Long distance business wired telephone service	371202	1.65	1.29	8.50	4.78
Private line wired telephone service	371204	0.00	0.00	0.48	0.59
Other wired telephone services	3713	0.17	0.18	1.04	1.02
Other wired telephone services	371301	0.17	0.18	1.04	1.02
Wireless telecommunication services	372	0.35	0.51	3.79	1.79
Cellular phone and other wireless telecommunication services	3721	0.35	0.51	3.79	1.79
Cellular phone and other wireless telecommunication services	372101	0.35	0.51	3.79	1.79
Cable and satellite subscriber services	373	0.04	0.04	6.81	1.41
Cable and satellite subscriber services	3731	0.04	0.04	6.81	1.41
Cable and satellite subscriber services	373101	0.04	0.04	6.81	1.41
Internet access services	374	0.02	0.02	1.66	1.40
Internet access services	3741	0.02	0.02	1.66	1.40
Residential Internet access services	374102	0.04	0.03	3.82	2.61
Business Internet access services	374103	0.00	0.00	0.51	0.72
Bundled wired telecommunications access services	375	0.40	0.46	3.03	1.53
Bundled wired telecommunications access services	3751	0.40	0.46	3.03	1.53
Bundled wired telecommunications access services	375101	0.40	0.46	3.03	1.53
Data processing and related services	38	0.04	0.17	0.34	0.51
Data processing and related services	381	0.04	0.17	0.34	0.51
Data processing and related services	3811	0.04	0.17	0.34	0.51
Hosting, ASP and other IT infrastructure provisioning services	381101	0.09	0.32	0.76	0.98
Business process management services	381102	0.00	0.00	0.08	0.10
Data management, information transformation and other services	381103	0.00	0.00	0.33	0.24
Credit intermediation services (partial)	39	1.81	0.41	5.59	1.21
Loan services (partial)	391	2.17	0.57	7.20	1.51
Business loans (partial)	3911	3.17	0.90	11.29	2.07
Business loans (partial)	391101	3.17	0.90	11.29	2.07
Consumer loans (partial)	3912	1.90	0.60	3.90	2.06
Residential real estate loans (partial)	391201	1.81	0.72	3.64	2.55
Vehicle loans (partial)	391202	3.80	1.58	2.01	3.07
Credit cards, overdraft credit, and related plans (partial)	391203	1.68	1.20	3.93	2.74
Other loans and loan services (partial)	3913	2.52	1.28	4.36	2.82
Other loans and loan services (partial)	391301	2.52	1.28	4.36	2.82
Deposit services (partial)	392	1.08	0.75	4.97	2.34
Deposit services (partial)	3921	1.08	0.75	4.97	2.34
Deposit services (partial)	392101	1.08	0.75	4.97	2.34
Other credit intermediation services, including trust services (partial)	393	0.30	0.64	1.66	3.43
Other credit intermediation services, including trust services (partial)	3931	0.30	0.64	1.66	3.43
Other credit intermediation services, including trust services (partial)	393101	0.30	0.64	1.66	3.43
Investment services	40	0.74	0.39	8.32	1.53
Securities brokerage, dealing, investment advice, and related services	401	0.98	0.92	11.16	2.62
Securities brokerage, dealing, investment advice, and related services	4011	0.98	0.92	11.16	2.62
Securities brokerage, dealing, and investment advice	401101	0.42	1.22	2.87	2.95
Securities brokerage and dealing related services (partial)	401102	1.53	0.49	33.02	4.71
Portfolio management	402	0.63	0.40	5.73	2.17
Portfolio management	4021	0.63	0.40	5.73	2.17
Portfolio management	402101	0.63	0.40	5.73	2.17

**Table 2. Variance estimates for selected Producer Price Index commodity-based indexes, 1-month and 12-month median absolute percent changes and median 1-month and 12-month standard errors of the percent change, 2018**

Index	Index code	1-month median absolute percent change	1-month median standard error	12-month median absolute percent change	12-month median standard error
Investment banking	403	0.46	0.35	9.58	1.66
Investment banking	4031	0.46	0.35	9.58	1.66
Investment banking	403101	0.46	0.35	9.58	1.66
Insurance and annuities	41	0.15	0.08	2.92	0.46
Insurance	411	0.17	0.08	3.18	0.51
Insurance	4111	0.17	0.08	3.18	0.51
Life insurance	411101	0.04	0.04	0.07	0.30
Disability insurance, including accidental death	411102	0.00	0.00	0.65	0.91
Health and medical insurance	411103	0.20	0.14	5.55	0.85
Property and casualty insurance	411104	0.17	0.11	2.23	0.82
Annuities	412	0.19	0.20	1.98	1.54
Annuities	4121	0.19	0.20	1.98	1.54
Annuities	412101	0.19	0.20	1.98	1.54
Commissions and fees from sales and administration of insurance policies (partial)	42	0.12	0.08	1.62	0.33
Commissions from sales of insurance	421	0.12	0.08	1.62	0.33
Commissions from sales of insurance	4211	0.12	0.08	1.62	0.33
Commissions from sales of life insurance and annuities	421101	0.01	0.04	0.66	0.59
Commissions from sales of health and medical insurance	421102	0.11	0.12	3.59	0.69
Commissions from sales of property and casualty insurance	421103	0.14	0.10	1.78	0.46
Commissions from sales of other insurance	421104	0.06	0.12	0.41	0.79
Real estate services (partial)	43	0.26	0.32	3.71	0.91
Nonresidential real estate services	431	0.45	0.48	1.27	1.29
Nonresidential real estate rents	4311	0.53	0.57	1.16	1.47
Office buildings, gross rents	431101	0.37	0.51	0.80	1.58
Retail properties, gross rents	431102	1.09	0.82	2.72	1.93
Industrial buildings, gross rents	431103	0.25	0.32	0.56	2.83
Self-service storage and miniwarehouses, gross rents	431104	0.33	0.23	1.48	0.87
Other nonresidential buildings, gross rents	431105	3.46	3.57	4.31	14.21
Nonresidential property sales and leases including land, brokerage fees and commissions	4312	0.68	0.26	4.98	1.64
Nonresidential property sales and leases including land, brokerage fees and commissions	431201	0.68	0.26	4.98	1.64
Nonresidential property management fees	4313	0.62	0.76	1.82	3.38
Nonresidential property management fees	431301	0.62	0.76	1.82	3.38
Residential real estate services (partial)	432	0.34	0.12	6.49	0.85
Residential property sales and rental, brokerage fees and commissions	4321	0.40	0.16	9.00	1.12
Residential property sales and rental, brokerage fees and commissions	432101	0.40	0.16	9.00	1.12
Residential property management fees	4322	0.09	0.14	1.00	1.02
Residential property management fees	432201	0.09	0.14	1.00	1.02
Real estate appraisal fees	433	0.00	0.00	2.89	3.02
Real estate appraisal fees	4331	0.00	0.00	2.89	3.02
Real estate appraisal fees	433101	0.00	0.00	2.89	3.02
Rental and leasing of goods (partial)	44	0.86	0.93	1.86	1.81
Passenger car rental	441	1.90	2.12	2.40	3.72
Passenger car rental	4411	1.90	2.12	2.40	3.72
Passenger car rental	441101	1.90	2.12	2.40	3.72
Truck, trailer, and RV rental and leasing	442	0.51	0.69	2.26	2.16
Truck, trailer, and RV rental and leasing	4421	0.49	0.69	1.77	0.98
Truck, truck trailer and RV rental	442101	1.23	1.52	2.13	1.68
Truck, truck trailer and RV leasing	442102	0.70	0.43	1.95	1.28
Construction, mining, and forestry machinery and equipment rental and leasing	443	0.56	0.73	1.62	2.94
Construction, mining, and forestry machinery and equipment rental and leasing	4431	0.56	0.73	1.62	2.94
Construction, mining, and forestry machinery and equipment rental and leasing	443101	0.56	0.73	1.62	2.94
Professional services (partial)	45	0.13	0.18	1.76	0.58
Legal services	451	0.20	0.24	2.44	0.90
Legal services	4511	0.20	0.24	2.44	0.90
Legal services	451101	0.20	0.24	2.44	0.90

**Table 2. Variance estimates for selected Producer Price Index commodity-based indexes, 1-month and 12-month median absolute percent changes and median 1-month and 12-month standard errors of the percent change, 2018**

Index	Index code	1-month median absolute percent change	1-month median standard error	12-month median absolute percent change	12-month median standard error
Accounting services (partial)	452	0.51	0.68	1.97	1.26
Accounting services, excluding payroll	4521	0.51	0.68	1.97	1.26
Financial auditing	452101	0.89	1.40	2.65	2.24
Tax preparation and planning	452102	1.35	1.21	1.31	1.57
Bookkeeping and compilation	452103	0.70	0.57	4.89	2.76
Other accounting services, including billing and review	452104	0.46	1.03	2.00	4.38
Architectural and engineering services	453	0.14	0.18	1.99	0.52
Architectural services	4531	0.14	0.13	1.06	1.87
Architectural services	453101	0.14	0.13	1.06	1.87
Engineering services	4532	0.09	0.18	2.39	0.56
Engineering services	453201	0.09	0.18	2.39	0.56
Management, scientific, and technical consulting services	454	0.32	0.41	0.79	2.21
Management consulting services	4541	0.32	0.41	0.79	2.21
Administrative and general management consulting services	454101	0.19	0.49	0.68	2.30
Human resources consulting services	454102	0.13	0.08	2.54	4.51
Marketing consulting services	454103	1.30	0.79	6.48	7.63
Process, physical distribution, and logistics consulting services	454104	0.72	1.08	0.87	4.69
Other management consulting services	454105	0.22	0.14	0.27	0.32
Advertising and related services (partial)	455	0.05	0.13	0.35	0.46
Advertising agency services	4551	0.05	0.13	0.35	0.46
Advertising agency services	455101	0.05	0.13	0.35	0.46
Information technology (IT) technical support and consulting services (partial)	456	0.01	0.02	0.77	0.37
Information technology (IT) technical support and consulting services (partial)	4561	0.01	0.02	0.77	0.37
Information technology (IT) technical support and consulting services (partial)	456101	0.01	0.02	0.77	0.37
Employment services	46	0.24	0.28	0.54	1.21
Permanent placement services	461	0.65	0.55	1.93	1.59
Permanent placement services	4611	0.65	0.55	1.93	1.59
Permanent placement services	461101	0.65	0.55	1.93	1.59
Executive search services	462	1.57	2.28	2.78	5.11
Executive search services	4621	1.57	2.28	2.78	5.11
Executive search services	462101	1.57	2.28	2.78	5.11
Staffing services	463	0.29	0.31	0.55	1.23
Temporary help services	4631	0.39	0.41	1.65	1.24
Temporary help services	463101	0.39	0.41	1.65	1.24
Co-employment staffing services	4632	0.25	0.30	0.78	2.04
Co-employment staffing services	463201	0.25	0.30	0.78	2.04
Travel arrangement services (partial)	47	0.53	0.47	0.76	1.65
Arrangement of flights (partial)	471	0.43	0.59	2.13	2.87
Arrangement of international flights	4711	0.33	0.36	0.90	0.82
Arrangement of international flights	471101	0.33	0.36	0.90	0.82
Arrangement of domestic flights	4712	0.63	1.29	4.57	5.91
Arrangement of domestic flights (partial)	471201	0.63	1.29	4.57	5.91
Arrangement of vehicle rentals and lodging	472	0.64	2.20	3.19	5.49
Arrangement of vehicle rentals and lodging	4721	0.64	2.20	3.19	5.49
Arrangement of vehicle rentals and lodging (partial)	472101	0.64	2.20	3.19	5.49
Arrangement of cruises and tours	473	2.39	1.59	3.87	2.58
Arrangement of cruises and tours	4731	2.39	1.59	3.87	2.58
Arrangement of cruises and tours	473101	2.39	1.59	3.87	2.58
Other travel arrangements (partial)	474	0.00	0.00	0.00	0.00
Other travel arrangements (partial)	4741	0.00	0.00	0.00	0.00
Other travel arrangements (partial)	474101	0.00	0.00	0.00	0.00
Selected security services (partial)	48	0.21	0.18	2.41	0.85
Security guard services	481	0.21	0.18	2.41	0.85
Security guard services	4811	0.21	0.18	2.41	0.85
Security guard services	481101	0.21	0.18	2.41	0.85

**Table 2. Variance estimates for selected Producer Price Index commodity-based indexes, 1-month and 12-month median absolute percent changes and median 1-month and 12-month standard errors of the percent change, 2018**

Index	Index code	1-month median absolute percent change	1-month median standard error	12-month median absolute percent change	12-month median standard error
Cleaning and building maintenance services (partial)	49	0.08	0.09	0.30	0.38
Janitorial services	491	0.08	0.09	0.30	0.38
Janitorial services	4911	0.08	0.09	0.30	0.38
Janitorial services	491101	0.08	0.09	0.30	0.38
Waste collection and remediation services (partial)	50	0.46	0.34	4.54	1.72
Waste collection	501	0.46	0.34	4.54	1.72
Solid waste collection	5011	0.46	0.34	4.54	1.72
Solid waste collection	501101	0.46	0.34	4.54	1.72
Health care services	51	0.08	0.07	2.15	0.42
Outpatient care (partial)	511	0.05	0.08	1.75	0.60
Outpatient care (partial)	5111	0.05	0.08	1.75	0.60
Physician care	511101	0.10	0.10	1.28	0.52
Medical laboratory and diagnostic imaging center care	511102	0.04	0.09	1.21	0.49
Home health and hospice care	511103	0.08	0.09	2.31	1.43
Hospital outpatient care	511104	0.14	0.15	2.50	1.42
Dental care	511105	0.04	0.03	0.97	0.37
Inpatient care	512	0.16	0.11	2.72	0.46
Inpatient care	5121	0.16	0.11	2.72	0.46
Hospital inpatient care	512101	0.15	0.13	2.55	0.58
Nursing home care	512102	0.20	0.15	3.35	0.62
Intellectual and developmental disability center care	512103	0.22	0.21	2.88	0.80
Sales of blood and blood products, organs, and tissues	513	0.08	0.11	0.22	0.87
Sales of blood and blood products, organs, and tissues	5131	0.08	0.11	0.22	0.87
Sales of blood and blood products, organs, and tissues	513101	0.08	0.11	0.22	0.87
Accommodation services	53	3.88	1.99	3.98	2.64
Traveler accommodation services	531	3.88	1.99	3.98	2.64
Traveler accommodation services	5311	3.88	1.99	3.98	2.64
Guestroom or unit rental	531101	4.18	2.16	4.11	2.88
Other traveler accommodation services	531102	0.41	0.31	1.71	0.58
Food and beverage for immediate consumption services (partial)	54	0.52	0.85	1.05	1.40
Food and beverage for immediate consumption services (partial)	541	0.52	0.85	1.05	1.40
Food and nonalcoholic beverages for immediate consumption (partial)	5411	0.57	0.99	1.32	1.63
Food and nonalcoholic beverages for immediate consumption (partial)	541101	0.57	0.99	1.32	1.63
Alcoholic beverages for immediate consumption (partial)	5412	0.00	0.00	1.24	1.15
Alcoholic beverages for immediate consumption (partial)	541201	0.00	0.00	1.24	1.15
Repair and maintenance services (partial)	55	0.21	0.12	2.26	0.52
Commercial and industrial machinery and equipment repair and maintenance	551	0.04	0.05	2.13	1.42
Commercial and industrial machinery and equipment repair and maintenance	5511	0.04	0.05	2.13	1.42
Commercial machinery repair and maintenance	551101	0.04	0.05	2.13	1.42
Motor vehicle repair and maintenance (partial)	552	0.26	0.08	2.00	0.81
Motor vehicle repair and maintenance (partial)	5521	0.26	0.08	2.00	0.81
Motor vehicle repair and maintenance (partial)	552101	0.26	0.08	2.00	0.81
Ship repair and maintenance	553	0.00	0.00	2.33	2.38
Ship repair and maintenance	5531	0.00	0.00	2.33	2.38
Ship repair, military	553101	0.00	0.00	2.42	2.96
Ship repair, nonmilitary	553102	0.00	0.00	2.07	2.90
Aircraft repair and maintenance	554	0.03	0.10	2.85	1.04
Aircraft repair and maintenance	5541	0.03	0.10	2.85	1.04
Aircraft repair and maintenance	554101	0.03	0.10	2.85	1.04
Entertainment services (partial)	56	0.65	0.73	1.55	0.91
Membership dues and admissions and recreation facility use fees (partial)	561	0.97	0.49	2.67	1.09
Membership dues and admissions and recreation facility use fees (partial)	5611	0.97	0.49	2.67	1.09
Membership dues	561101	0.93	0.62	2.40	1.47
Admissions and recreational facilities use fees (partial)	561102	0.69	0.64	2.37	1.19



**Table 2. Variance estimates for selected Producer Price Index commodity-based indexes, 1-month and 12-month median absolute percent changes and median 1-month and 12-month standard errors of the percent change, 2018**

Index	Index code	1-month median absolute percent change	1-month median standard error	12-month median absolute percent change	12-month median standard error
Recreational activity instruction fees (partial)	562	0.05	0.08	3.12	1.85
Recreational activity instruction fees (partial)	5621	0.05	0.08	3.12	1.85
Recreational activity instruction fees (partial)	562101	0.05	0.08	3.12	1.85
Gaming receipts (partial)	563	0.68	1.40	1.12	1.64
Gaming receipts (partial)	5631	0.68	1.40	1.12	1.64
Gaming receipts (partial)	563101	0.68	1.40	1.12	1.64
Wholesale trade services	57	0.50	0.54	3.38	1.38
Machinery and equipment and parts and supplies wholesaling	571	0.64	0.77	3.81	2.20
Machinery and equipment and parts and supplies wholesaling	5711	0.64	0.77	3.81	2.20
Machinery and equipment wholesaling	571101	1.08	1.11	4.56	2.62
Parts and supplies for machinery and equipment wholesaling	571102	0.63	0.95	2.92	3.14
Furnishings wholesaling	572	1.87	2.01	2.90	4.23
Furnishings wholesaling	5721	1.87	2.01	2.90	4.23
Furnishings wholesaling	572101	1.87	2.01	2.90	4.23
Building materials, paint, and hardware wholesaling	573	0.88	1.44	2.44	3.59
Building materials, paint, and hardware wholesaling	5731	0.88	1.44	2.44	3.59
Building materials, paint, and hardware wholesaling	573101	0.88	1.44	2.44	3.59
Metals, minerals, and ores wholesaling	574	4.17	3.51	20.65	7.50
Metals, minerals, and ores wholesaling	5741	4.17	3.51	20.65	7.50
Metals, minerals, and ores wholesaling	574101	4.17	3.51	20.65	7.50
Chemicals and allied products wholesaling	575	1.06	1.56	1.77	3.67
Chemicals and allied products wholesaling	5751	1.06	1.56	1.77	3.67
Chemicals and allied products wholesaling	575101	1.06	1.56	1.77	3.67
Paper and plastics products wholesaling	576	1.27	1.65	6.18	3.99
Paper and plastics products wholesaling	5761	1.27	1.65	6.18	3.99
Paper and plastics products wholesaling	576101	1.27	1.65	6.18	3.99
Apparel wholesaling	577	1.63	1.32	1.51	2.89
Apparel wholesaling	5771	1.63	1.32	1.51	2.89
Apparel wholesaling	577101	1.63	1.32	1.51	2.89
Food and alcohol wholesaling	578	0.99	0.93	1.42	2.22
Food and alcohol wholesaling	5781	0.99	0.93	1.42	2.22
Food wholesaling	578101	1.28	1.15	1.83	2.50
Alcohol wholesaling	578102	1.19	1.08	1.89	2.11
Other commodities wholesaling	579	1.54	1.63	4.34	3.55
Other commodities wholesaling	5791	1.54	1.63	4.34	3.55
Other commodities wholesaling	579101	1.54	1.63	4.34	3.55
Retail trade services	58	0.27	0.57	1.15	1.02
Food and alcohol retailing	581	0.95	0.96	1.54	2.08
Food and alcohol retailing	5811	0.95	0.96	1.54	2.08
Food retailing	581102	1.10	0.98	1.63	2.30
Alcohol retailing	581103	1.38	1.71	2.33	2.41
Health and beauty care retailing, including optical goods	582	1.29	2.11	2.18	2.55
Health and beauty care retailing, including optical goods	5821	1.29	2.11	2.18	2.55
Health and beauty care retailing, including optical goods	582101	1.29	2.11	2.18	2.55
Apparel, jewelry, footwear, and accessories retailing	583	2.89	1.36	1.21	2.34
Apparel, jewelry, footwear, and accessories retailing	5831	2.89	1.36	1.21	2.34
Apparel, footwear, and accessories retailing	583101	2.88	1.46	1.46	2.65
Jewelry retailing	583102	3.86	3.10	1.95	5.90
Computer hardware, software, and supplies retailing	584	0.97	1.49	2.38	3.78
Computer hardware, software, and supplies retailing	5841	0.97	1.49	2.38	3.78
Computer hardware, software, and supplies retailing	584101	0.97	1.49	2.38	3.78
TV, video, and photographic equipment and supplies retailing	585	4.78	5.73	6.42	11.09
TV, video, and photographic equipment and supplies retailing	5851	4.78	5.73	6.42	11.09
TV, video, and photographic equipment and supplies retailing	585101	4.78	5.73	6.42	11.09
Automobiles and automobile parts retailing	586	1.70	1.22	0.86	2.60
Automobiles and automobile parts retailing	5861	1.70	1.22	0.86	2.60
Automobile retailing (Partial)	586101	2.28	1.78	1.43	4.71
Automotive parts, including tires, retailing	586102	1.78	1.20	1.05	2.86

**Table 2. Variance estimates for selected Producer Price Index commodity-based indexes, 1-month and 12-month median absolute percent changes and median 1-month and 12-month standard errors of the percent change, 2018**

Index	Index code	1-month median absolute percent change	1-month median standard error	12-month median absolute percent change	12-month median standard error
Manufactured (mobile) homes retailing	587	0.00	0.00	0.65	1.03
Manufactured (mobile) homes retailing	5871	0.00	0.00	0.65	1.03
Manufactured (mobile) homes retailing	587101	0.00	0.00	0.65	1.03
RVs, trailers, and campers retailing	588	0.00	0.00	1.66	6.13
RVs, trailers, and campers retailing	5881	0.00	0.00	1.66	6.13
RVs, trailers, and campers retailing	588101	0.00	0.00	1.66	6.13
Sporting goods, including boats, retailing	589	1.80	2.03	2.45	3.72
Sporting goods, including boats, retailing	5891	1.80	2.03	2.45	3.72
Sporting goods, including boats, retailing	589101	1.80	2.03	2.45	3.72
Lawn, garden, and farm equipment and supplies retailing	58A	1.30	2.11	2.44	3.58
Lawn, garden, and farm equipment and supplies retailing	58A1	1.30	2.11	2.44	3.58
Lawn, garden, and farm equipment and supplies retailing	58A101	1.30	2.11	2.44	3.58
Furniture retailing	58B	1.24	1.45	2.89	3.04
Furniture retailing	58B1	1.24	1.45	2.89	3.04
Furniture retailing	58B101	1.24	1.45	2.89	3.04
Flooring and floor coverings retailing	58C	0.80	2.46	5.30	8.13
Flooring and floor coverings retailing	58C1	0.80	2.46	5.30	8.13
Flooring and floor coverings retailing	58C101	0.80	2.46	5.30	8.13
Hardware and building materials and supplies retailing	58D	0.89	1.25	7.68	2.28
Hardware and building materials and supplies retailing	58D1	0.89	1.25	7.68	2.28
Hardware and building materials and supplies retailing	58D101	0.89	1.25	7.68	2.28
Major household appliance retailing	58E	2.74	2.84	8.69	6.42
Major household appliance retailing	58E1	2.74	2.84	8.69	6.42
Major household appliance retailing	58E101	2.74	2.84	8.69	6.42
Fuels and lubricants retailing	58F	5.97	3.93	6.63	5.25
Fuels and lubricants retailing	58F1	5.97	3.93	6.63	5.25
Automotive fuels and lubricants retailing	58F101	6.60	4.46	9.06	6.46
Household fuels retailing	58F102	3.22	3.21	9.46	6.34
Cleaning supplies and paper products retailing	58G	1.08	2.12	4.79	5.27
Cleaning supplies and paper products retailing	58G1	1.08	2.12	4.79	5.27
Cleaning supplies and paper products retailing	58G101	1.08	2.12	4.79	5.27
Book retailing	58H	2.00	2.55	3.21	7.14
Book retailing	58H1	2.00	2.55	3.21	7.14
Book retailing	58H101	2.00	2.55	3.21	7.14
Other merchandise retailing (partial)	58I	0.90	0.94	0.89	3.48
Other merchandise retailing (partial)	58I1	0.90	0.94	0.89	3.48
Other merchandise retailing (partial)	58I101	0.90	0.94	0.89	3.48
Metal treatment services	59	0.25	0.26	1.91	0.93
Metal treatment services	591	0.25	0.26	1.91	0.93
Metal treatment services	5911	0.25	0.26	1.91	0.93
Metal plating and polishing	591101	0.32	0.42	2.56	1.38
Metal coating and allied services	591102	0.32	0.43	1.37	1.64
Metal heat treating	591103	0.07	0.08	1.07	0.87
Mining services	60	0.22	0.31	1.74	1.15
Mining services	601	0.22	0.31	1.74	1.15
Mining services	6011	0.22	0.31	1.74	1.15
Metal mining services	601101	0.21	0.18	1.73	2.66
Support activities for coal mining	601102	0.00	0.00	2.36	1.20
Drilling oil and gas wells services	601103	0.54	0.91	2.57	2.66
Support activities for oil and gas operations	601104	0.22	0.26	1.51	1.43
Nonmetallic minerals mining services	601105	0.00	0.00	0.00	0.00
Contract work on textile products, apparel, and leather	61	0.16	0.18	1.39	0.61
Contract work on textile products and apparel	611	0.16	0.18	1.41	0.62
Contract work on textile products and apparel	6111	0.16	0.18	1.41	0.62
Commission receipts for throwing, texturing, or winding filament yarns	611101	0.00	0.00	0.00	0.00
Contract work on textile products	611102	0.22	0.21	3.76	1.64
Contract work on apparel	611103	0.00	0.08	0.53	0.68

**Table 2. Variance estimates for selected Producer Price Index commodity-based indexes, 1-month and 12-month median absolute percent changes and median 1-month and 12-month standard errors of the percent change, 2018**

Index	Index code	1-month median absolute percent change	1-month median standard error	12-month median absolute percent change	12-month median standard error
Contract & commission receipts for tanning or finishing leather owned by others	612	0.00	0.00	0.42	0.55
Contract & commission receipts for tanning or finishing leather owned by others	6121	0.00	0.00	0.42	0.55
Contract and commission receipts for tanning or finishing leather owned by others	612101	0.00	0.00	0.42	0.55
<b>Construction</b>					
Construction (partial)	80	0.14	0.06	3.42	0.24
New nonresidential building construction	801	0.13	0.04	3.98	0.25
New nonresidential building construction	8011	0.13	0.04	3.98	0.25
New warehouse building construction	801101	0.18	0.07	3.60	0.31
New school building construction	801102	0.03	0.07	4.21	0.49
New office building construction	801103	0.15	0.10	4.09	0.57
New industrial building construction	801104	0.15	0.05	4.70	0.21
New health care building construction	801105	0.15	0.11	4.05	0.40
Maintenance and repair of nonresidential buildings (partial)	802	0.18	0.15	1.64	0.55
Maintenance and repair of nonresidential buildings (partial)	8021	0.18	0.15	1.64	0.55
Maintenance and repair of nonresidential buildings (partial)	802101	0.18	0.15	1.64	0.55

NOTE: Some indexes in this table, primarily PPIs for agricultural products, are constructed using price information not directly sampled by PPI. These secondary source data, mainly from the U.S. Department of Agriculture, but also other sources, are considered a census of available price information. No sampling variability exists in these percent change estimates, so their standard error values are zero. For more information, refer to the section titled "PPI Sampling" in the methodology paper that accompanies this year's PPI variance publication.