# Variance Estimates for Price Changes in the Import and Export Price Indexes January–December 2020

Each month, the International Price Program (IPP) at the Bureau of Labor Statistics (BLS) collects roughly 21,000 prices for a representative sample of goods traded by approximately 3,500 importers and exporters to and from the United States. The prices represent the market basket of imports and exports. The sample of import and export transaction prices is drawn from the complete universe of all items traded during a calendar year as measured by the Census Bureau. Sampling variability results whenever a sample is used rather than the complete universe.

## Variance Results

As of 2019, variance calculation is expanded to cover all published import and export price indexes spanning all 12 months for merchandise goods trade sampled items. Variances are not calculated for locality of origin, locality of destination and terms of trade price indexes covering goods, nor for services price indexes. The variance results by year measure the absolute median 1-, 3-, and 12-month percent changes for all published import and export indexes along with the median standard error for those estimates. Tables are broken out by classification system down to the 5-digit level of detail for the Bureau of Economic Analysis (BEA) End-Use Classification System, the 5-digit level of detail for the North American Industrial Classification System (NAICS), and the 4-digit index level of detail for the Harmonized Classification System.

The standard error, the square root of the estimated variance, is a common measure used to derive confidence intervals for percent changes in the import and export price indexes. Confidence intervals can be used to determine if an index change is significantly different from zero.

Take for example the median absolute 1-month percent change of 0.8 percent for All Commodities import prices, as seen in Table 1. The standard error for imports on a 1-month basis was 0.15. So, deriving a confidence interval plus or minus two standard errors from the point estimate, assuming a normal distribution, the true change would most likely be 0.8 percent plus or minus 0.3, or between 0.5 percent and 1.1 percent.

## Sources of Error

There are different types of errors introduced when calculating the estimates of average price changes for imports and exports published by the Bureau of Labor Statistics. There are two sources of error: sampling and nonsampling error. Sampling error, reported in the tables of this report, is the error resulting from drawing a *sample* of imported and exported items to and from the United States, rather than using the entire universe of trade.

Nonsampling error can take a number of different forms. One form is misspecification error, which takes place if the universe of data from which the sample is being drawn does not correctly measure the actual population. For import and export prices indexes, this type of error could result if there are mistakes in the trade dollar value statistics measured by the Census Bureau. A second type of nonsampling error is nonresponse error. Each month, a subset of the items sampled by the Bureau of Labor Statistics does not have prices reported. This type of error results if the respondents and nonrespondents do not represent a similar cross section of the total universe. Another form of nonsampling error can be introduced from misreported prices, a possibility regardless of whether deriving the indexes from a sample or from the complete universe of data.

One issue when deriving an estimate from a sample is the potential trade-off between variance and bias. Variance is a measure of how much the estimates derived from numerous samples differ from the true value of the estimate. Bias results if the expected value of the estimate is either higher or lower than the true value of what is being estimated. An estimate could have a high sampling variance and still be unbiased if the expected value of the estimate is equal to the true value. Likewise, an estimate may have small variation over numerous samples, yet be biased if the expected value of the estimate deviates from the true value.

The Bureau of Labor Statistics strives to minimize both sampling and nonsampling error as much as possible. Sampling error is reduced by maintaining as many prices as possible to support an index given resource and company burden constraints. Nonsampling error is reduced by subjecting the data to careful review using automated checks and a staff of professional economists, as well as by employing methods to estimate missing observations.

## Sampling in the International Price Program

Trade into and out of the United States is highly regulated and therefore highly documented. This allows the IPP to sample from a fairly complete and detailed frame. U.S. Customs and Border Protection provides the sampling frame for import merchandise, while the export merchandise frame is created from a combination of data collected by the Canada Border Services Agency, for exports to Canada, and from the Census Bureau for exports to the rest of the world.

The import and export merchandise universes are divided into two panels each, with each product-based panel representing approximately half of the trade dollar value for its respective universe. One import and one export panel are sampled each year, resulting in a fully sampled universe every 2 years. Each panel is sampled using a 3-stage sample design. The first stage independently selects establishments within product-based sampling strata using systematic probability proportional to size, where the measure of size is the total trade dollar value for establishments within the sampling stratum. The second stage selects more highly detailed product categories, known as classification groups, within each establishment–stratum combination selected during the first stage using the technique of systematic probability proportional to size with replacement. The final stage of sampling, which results in a unique item to price, occurs in the field and is a random selection technique with the probability of selection proportionate to field-collected trade estimates.

## Index Calculations

IPP calculates its indexes using a modified Laspeyres formula. Rather than calculate indexes relative to a base period, the IPP indexes are calculated relative to the previous period and are theoretically chained to the reweight period. For this reason, IPP's indexes can be considered chained Laspeyres indexes. Explicitly, the index formula for the modified chained Laspeyres is derived from the classic formula as follows:

$$LTR_t = \left(\frac{\sum_i p_{i,t} q_{i,0}}{\sum_i p_{i,0} q_{i,0}}\right)(100) = \left(\frac{\sum_i \frac{p_{i,t}}{p_{i,0}} p_{i,0} q_{i,0}}{\sum_i p_{i,0} q_{i,0}}\right)(100) = \left(\frac{\sum_i r_{i,t} w_{i,0}}{\sum_i w_{i,0}}\right)(100) = \left(\frac{\sum_i r_{i,t} w_{i,0}}{\sum_i r_{i,t-1} w_{i,0}}\right)\left(\frac{\sum_i r_{i,t-1} w_{i,0}}{\sum_i w_{i,0}}\right)(100) =$$

$$\left(\frac{\sum_i r_{i,t} w_{i,0}}{\sum_i r_{i,t-1} w_{i,0}}\right)(LTR_{t-1}) = (STR_t)(LTR_{t-1}),$$

where

$LTR_t$ = the long term relative of a collection of items at time $t$;

$p_{i,t}$ = price of item $i$ at time $t$;

$q_{i,0}$ = quantity of item $i$ in base period 0;

$w_{i,0}$ = $p_{i,0} q_{i,0}$, or the total revenue generated by item $i$ in base period 0;

$r_{i,t}$ = $p_{i,t}/p_{i,0}$, or the long term relative of item $i$ in period $t$; and

$STR_t$ = $\frac{\sum_i r_{i,t} w_{i,0}}{\sum_i r_{i,t-1} w_{i,0}}$, or the short term relative of a collection of items at time $t$.

Depending on the level of aggregation, the weights used during index aggregation are either trade dollar-based or probability-based. At the lowest level of aggregation, items are weighted by probability-based weights calculated monthly corresponding to detailed categories within establishments.

These weighted-item price relatives are combined across establishments and aggregated to the lowest level stratum indexes as

$$P_{h,t} = \frac{\sum_k \sum_j \sum_i w_{k,t} w_{j,t} w_{i,t}\left(\frac{p_{i,t}}{p_{i,0}}\right)}{\sum_k \sum_j \sum_i w_{k,t} w_{j,t} w_{i,t}},$$

where

$P_{h,t}$ = the price index for lowest level stratum $h$, at time $t$;

$w_{k,t}$ = the weight of detailed product category $k$, within stratum $h$;

$w_{j,t}$ = the weight of establishment $j$, within detailed product category $k$;

$w_{i,t}$ = the weight of item $i$, within establishment $j$ and detailed product category $k$; and

$\frac{p_{i,t}}{p_{i,0}}$ = the price relative of item $i$, from period $t$, to base period 0.

The weights used for these lowest level stratum indexes are derived from sampling frame trade dollar values, divided by the corresponding probabilities of selection determined by the sample design.

At the next level of aggregation, child strata-level indexes are aggregated to their corresponding parent stratum-level indexes. A child stratum index is simply one level of aggregation less than its parent stratum index. The weights used for this aggregation are based on Census Bureau trade dollar values for the base period.
The aggregation formula for these upper index levels is

$$P_{H,t} = \frac{\sum_h w_{h,t} P_{h,t}}{\sum_h w_{h,t}},$$

where

$P_{H,t}$ = the price index at period $t$, for upper level index $H$;

$w_{h,t}$ = the weight at period $t$, for child index $h$; and

$P_{h,t}$ = the price index at period $t$, for child index $h$.

# Replication and Variance Estimation

A modified bootstrap method, applying rescaled sampling weights, is used to produce 150 replicate index set estimates from 150 simulated item set samples. Item set replicates are constructed according to IPP's 3-stage sample design. At both of the first two stages of sampling, it is possible for a selection to be either a certainty selection (i.e. the probability of selection is greater than the iteratively calculated sampling interval) or a probability selection. The replicate resampling method takes this into consideration by first partitioning the selected items within each sampling stratum $m$ into those items that resulted from certainty establishment selections and those items resulting from probability establishment selections. The item set resulting from establishment certainty selections is further partitioned into two item sets: sampling classification group certainty selections and sampling classification group probability selections. Thus, the set of all sampled items $S$ is the union of these three partitions over all sampling strata $m$;

$$S = \bigcup_{m=1}^{N} S_m = \bigcup_{m=1}^{N} \left( \bigcup_{p=1}^{3} S_{m_p} \right)$$

where $N$ is the number of sampling strata, $p \in \{1,2,3\}$, with $p = 1$ for items selected from probability establishments, $p = 2$ for items selected from probability sampling classification groups within certainty establishments, and $p = 3$ for items selected from certainty sampling classification groups within certainty establishments.

Each bootstrap sampling, $b$, selects $n_{m_p}^b$ units within each partition of each sampling stratum as follows:

$$n_{m_p}^b = \begin{Bmatrix} n_{m_p} - 1 & n_{m_p} > 1 \\ 1 & n_{m_p} = 1 \end{Bmatrix},$$

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where $n_{m_p}^b$ is the number of units originally sampled in partition $p$ of sampling stratum $m$.

Bootstrap item weights are then calculated as

$$w_{m_p,j,i}^b = \begin{cases} w_{m_p,j,i}\left(\dfrac{n_{m_p}^b+1}{n_{m_p}^b}\right)d_{m_p,j}^b & \text{for } n_{m_p} > 1 \\ w_{m_p,j,i} & \text{for } n_{m_p} = 1 \end{cases}$$

where

$w_{m_p,j,i}^b$ = the $b^{th}$ replicate item weight for item $i$, within establishment $j$ and sampling stratum partition $m_p$;

$w_{m_p,j,i}$ = the standard item weight for item $i$, within establishment $j$ and sampling stratum partition $m_p$; and

$d_{m_p,j}^b$ = the number of times establishment $j$, within partition $p$ of sampling stratum $m$, is selected in bootstrap sample $b$.

In the rare instances that $n_{m_p} = 1$, a simple random sample of items within that establishment is selected. If only one item exists under this establishment singleton, that item is chosen with certainty.

For each of the 150 bootstrap samples, chained indexes of the desired length are calculated at all levels of aggregation using these modified item weights, original probabilities of selection, trade dollar values, and collected price data. For variance estimates, the variance is calculated across replicate percent change values for all published indexes as $v_B = \frac{1}{150}\sum_{b=1}^{150}\left(\hat{\theta}_b - \hat{\theta}\right)^2$ where $\hat{\theta}$ is the full sample estimate.

## Table Contents

Tables 1 through 6 below present the absolute median percent change over the year for a given published index within the product and industry classifications used to publish official import and export price indexes, as well as the standard error of that estimate. Tables 1 and 2 present the BEA End-Use Classification System product categories, Tables 3 and 4 present the NAICS industry categories, and Tables 5 and 6 present the Harmonized Classification System product categories. The first column displays a text description of the category. The second column displays the code used to query the BLS database (https://data.bls.gov/PDQWeb/ei). The subsequent columns record the absolute median percent change and standard error of the 1-month, 3-month, and 12-month price changes.

| Description | End Use | 1-month median absolute percent change | 1-month median standard error | 3-month median absolute percent change | 3-month median standard error | 12-month median absolute percent change | 12-month median standard error |
|---|---|---|---|---|---|---|---|
| Table 1. Variances for U.S. import price indexes for categories of goods: January 2020–December 2020 | | | | | | | |
| All commodities | R | 0.8 | 0.15 | 1.6 | 0.23 | 1.4 | 0.30 |
| Foods, feeds, & beverages | R0 | 1.0 | 0.70 | 1.0 | 0.92 | 0.8 | 1.19 |
| Agricultural foods, feeds & beverages, excluding distilled beverages | R00 | 1.0 | 0.96 | 1.3 | 1.18 | 1.3 | 1.54 |
| Green coffee, cocoa beans, sugar | R000 | 2.0 | 1.31 | 1.5 | 1.83 | 5.8 | 2.27 |
| Green coffee (Dec. 2007=100) | R00000 | 2.1 | 1.96 | 2.3 | 2.91 | 4.7 | 3.43 |
| Other agricultural foods | R001 | 1.2 | 1.13 | 1.8 | 1.35 | 1.6 | 1.70 |
| Meat, poultry & other edible animal products | R00100 | 2.2 | 1.30 | 2.1 | 2.87 | 2.2 | 5.37 |
| Fruit and fruit preparations including frozen juices | R00120 | 4.9 | 2.83 | 6.5 | 4.10 | 8.0 | 7.19 |
| Vegetables and vegetable preparations | R00130 | 1.7 | 5.57 | 8.3 | 7.90 | 3.5 | 10.32 |
| Food oils & oilseeds (Dec. 2007=100) | R00150 | 1.5 | 0.87 | 5.0 | 2.19 | 3.4 | 2.08 |
| Bakery & confectionery products | R00160 | 0.3 | 0.42 | 0.8 | 1.00 | 1.0 | 1.47 |
| Other animal & vegetable preparations & products (Dec. 2015=100) | R00180 | 0.3 | 0.21 | 0.7 | 0.42 | 0.6 | 0.73 |
| Wine, beer, & related products | R00190 | 0.1 | 0.19 | 0.4 | 0.31 | 2.2 | 1.27 |
| Feedstuff and foodgrains (Dec. 2013=100) | R002 | 0.9 | 1.17 | 3.6 | 3.40 | 4.4 | 3.90 |
| Nonagricultural foods (fish, distilled beverages) | R01 | 1.0 | 0.30 | 1.9 | 0.55 | 1.3 | 0.98 |
| Fish & shellfish | R01000 | 1.2 | 0.37 | 2.2 | 0.64 | 4.1 | 0.90 |
| Distilled alcoholic beverages | R01010 | 0.1 | 0.08 | 1.0 | 1.36 | 8.8 | 3.45 |
| Industrial supplies & materials | R1 | 3.4 | 0.44 | 7.4 | 1.01 | 7.3 | 0.89 |
| Fuels & lubricants | R10 | 8.2 | 1.12 | 12.4 | 2.11 | 26.4 | 1.89 |
| Petroleum & petroleum products | R100 | 8.7 | 1.17 | 12.0 | 2.18 | 28.8 | 1.86 |
| Crude [1] | R10000 | 10.8 | 0.00 | 16.3 | 0.00 | 29.9 | 0.00 |
| Fuel oil | R10010 | 7.4 | 7.40 | 12.2 | 13.37 | 23.4 | 9.89 |
| Other petroleum products | R10020 | 3.8 | 2.50 | 6.3 | 5.26 | 28.5 | 5.50 |
| Fuels, n.e.s.-coals & gas | R101 | 10.6 | 2.13 | 14.2 | 2.72 | 18.7 | 9.51 |
| Gas-natural | R10110 | 12.8 | 2.49 | 16.6 | 3.12 | 23.3 | 11.99 |
| Paper & paper base stocks | R11 | 0.6 | 0.51 | 1.9 | 1.23 | 7.2 | 2.54 |
| Newsprint & other paper products | R111 | 0.6 | 0.44 | 1.3 | 0.63 | 5.2 | 1.42 |
| Coated and uncoated paper/paperboard | R11110 | 0.6 | 0.46 | 1.2 | 0.68 | 4.2 | 1.58 |
| Materials associated with nondurable supplies & materials | R12 | 0.6 | 0.30 | 1.5 | 0.58 | 4.0 | 0.78 |
| Agricultural products used for industrial supplies and materials | R120 | 0.7 | 0.68 | 1.2 | 1.23 | 3.7 | 2.72 |

| Table 1. Variances for U.S. import price indexes for categories of goods: January 2020–December 2020 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Other agricultural products (tobacco, waxes, nonfood oils) | R12070 | 0.3 | 0.81 | 1.7 | 1.03 | 0.7 | 4.04 |
| Textile supplies & related materials | R121 | 0.3 | 0.27 | 0.8 | 0.63 | 1.7 | 1.35 |
| Synthetic cloth, fabric, and thread | R12135 | 0.5 | 0.37 | 1.3 | 0.70 | 4.7 | 2.46 |
| Chemicals, excluding medicinals | R125 | 0.7 | 0.32 | 1.9 | 0.75 | 4.5 | 1.00 |
| Plastic materials | R12500 | 1.0 | 0.73 | 2.6 | 1.86 | 5.3 | 4.07 |
| Fertilizers, pesticides & insecticides (Dec. 2007=100) | R12510 | 1.3 | 0.80 | 3.1 | 1.44 | 7.6 | 2.69 |
| Industrial inorganic chemicals (Dec. 2016=100) | R12530 | 0.8 | 0.70 | 2.1 | 1.99 | 5.2 | 4.44 |
| Industrial organic chemicals (Dec. 2012=100) | R12540 | 0.7 | 0.30 | 1.4 | 0.59 | 2.5 | 1.23 |
| Other chemicals (coloring agents) | R12550 | 0.2 | 0.18 | 0.6 | 0.33 | 1.3 | 1.21 |
| Selected building materials | R13 | 2.7 | 1.17 | 2.7 | 2.20 | 5.9 | 2.07 |
| Lumber and other unfinished building materials | R130 | 5.6 | 1.69 | 4.6 | 2.57 | 8.7 | 2.48 |
| Lumber & wood in the rough | R13000 | 11.9 | 4.11 | 13.5 | 5.24 | 19.1 | 5.77 |
| Stone, sand, cement and lime | R13020 | 0.5 | 0.35 | 0.7 | 0.73 | 1.7 | 0.72 |
| Building materials, finished | R131 | 1.2 | 0.56 | 2.4 | 1.90 | 4.4 | 2.89 |
| Nontextile floor & wall coverings; mach. parts of china (Dec. 2007=100) | R13120 | 0.1 | 0.05 | 0.3 | 0.28 | 0.2 | 0.43 |
| Unfinished metals related to durable goods | R14 | 2.9 | 0.30 | 6.6 | 0.63 | 5.7 | 0.66 |
| Steelmaking & ferroalloying matls | R140 | 2.8 | 0.75 | 7.1 | 1.86 | 9.5 | 1.64 |
| Iron & steel mill products | R141 | 1.4 | 0.46 | 5.4 | 0.68 | 11.6 | 1.26 |
| Major nonferrous metals-crude | R142 | 3.8 | 0.38 | 7.2 | 0.70 | 13.5 | 0.64 |
| Bauxite, alumina, aluminum, and products thereof [2] | R14200 | 2.4 | 0.44 | 5.8 | 1.99 | 9.5 | 1.52 |
| Copper (Dec. 2017=100) [2] | R14220 | 6.2 | 0.02 | 10.6 | 0.05 | 13.9 | 0.05 |
| Nickel (Dec. 2007=100) [2] | R14240 | 4.5 | 0.24 | 12.0 | 0.58 | 8.6 | 0.54 |
| Tin (Dec. 2010=100) [1] | R14250 | 3.9 | 0.00 | 5.3 | 0.00 | 13.1 | 0.00 |
| Zinc (Dec. 2008=100) [1] | R14260 | 6.3 | 0.00 | 11.5 | 0.00 | 18.1 | 0.00 |
| Nonmonetary gold [2] | R14270 | 3.4 | 0.03 | 7.1 | 0.06 | 27.1 | 0.10 |
| Other precious metals [2] | R14280 | 7.8 | 1.08 | 20.7 | 1.28 | 49.6 | 2.01 |
| Finished metals related to durable goods | R15 | 0.7 | 0.35 | 1.3 | 0.66 | 1.9 | 0.88 |
| Iron & steel products, except advanced manufacturing | R150 | 0.5 | 0.83 | 0.9 | 1.29 | 3.0 | 2.48 |
| Iron & steel advanced manufacturing | R151 | 0.5 | 0.24 | 0.6 | 0.74 | 0.5 | 1.27 |
| Finished metals shapes and advanced manufacturing | R152 | 0.9 | 0.55 | 2.2 | 1.04 | 3.0 | 1.56 |
| Nonmetals related to durable goods | R16 | 0.2 | 0.30 | 0.6 | 0.51 | 0.6 | 0.89 |
| Finished nonmetals (boxes, belting, glass, etc.) | R161 | 0.2 | 0.23 | 0.6 | 0.51 | 0.4 | 0.83 |
| Other finished nonmetals (boxes, belting, glass, etc.) | R16120 | 0.2 | 0.24 | 0.6 | 0.52 | 0.4 | 0.83 |
| Capital goods | R2 | 0.1 | 0.10 | 0.3 | 0.18 | 0.7 | 0.37 |

| Table 1. Variances for U.S. import price indexes for categories of goods: January 2020–December 2020 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Electric generating equipment | R20 | 0.1 | 0.19 | 0.1 | 0.35 | 1.6 | 0.97 |
| Generators, transformers & access | R20000 | 0.3 | 0.52 | 0.3 | 0.93 | 2.6 | 1.25 |
| Electric apparatus & parts, n.e.s. | R20005 | 0.0 | 0.08 | 0.1 | 0.26 | 1.1 | 1.23 |
| Nonelectrical machinery | R21 | 0.1 | 0.12 | 0.3 | 0.22 | 1.0 | 0.37 |
| Oil drilling, mining, and construction machinery and equipment | R210 | 0.2 | 0.27 | 0.5 | 0.53 | 4.9 | 2.55 |
| Excavating, paving & construction machinery | R21030 | 0.2 | 0.15 | 0.7 | 0.55 | 0.8 | 1.07 |
| Industrial and service machinery | R211 | 0.1 | 0.07 | 0.4 | 0.19 | 0.7 | 0.48 |
| Industrial engines, pumps, & compressors | R21100 | 0.1 | 0.10 | 0.3 | 0.29 | 0.2 | 0.59 |
| Metal working machine tools and rolling mills | R21120 | 0.0 | 0.09 | 0.1 | 0.32 | 0.2 | 0.50 |
| Measuring, testing & control instruments | R21160 | 0.1 | 0.07 | 0.2 | 0.29 | 1.1 | 1.15 |
| Materials handling equipment | R21170 | 0.0 | 0.04 | 0.1 | 0.13 | 0.3 | 0.60 |
| Other industrial machines | R21180 | 0.2 | 0.15 | 0.2 | 0.31 | 1.3 | 0.59 |
| Photo & other service industry machinery | R21190 | 0.1 | 0.11 | 0.3 | 0.34 | 1.7 | 2.53 |
| Computers, peripherals and semiconductors | R213 | 0.4 | 0.21 | 1.0 | 0.35 | 1.8 | 0.72 |
| Computers | R21300 | 0.4 | 0.29 | 0.7 | 0.45 | 3.1 | 1.57 |
| Computer accessories, peripherals, and parts | R21301 | 0.7 | 0.29 | 1.6 | 0.71 | 2.0 | 1.18 |
| Semiconductors | R21320 | 0.4 | 0.34 | 1.0 | 0.75 | 2.6 | 1.13 |
| Telecommunications equipment | R214 | 0.1 | 0.12 | 0.2 | 0.24 | 0.3 | 0.48 |
| Business machinery and equipment, except computers | R215 | 0.2 | 0.22 | 0.4 | 0.40 | 0.4 | 0.63 |
| Scientific and medical machinery | R216 | 0.6 | 0.45 | 1.6 | 1.45 | 3.4 | 1.79 |
| Laboratory testing and control instruments (Dec. 2016=100) | R21600 | 0.2 | 0.10 | 0.3 | 0.21 | 1.8 | 0.78 |
| Other scientific, medical, and hospital equipment | R21610 | 0.7 | 0.52 | 1.8 | 1.30 | 3.7 | 2.10 |
| Transportation equipment excluding motor vehicles (Dec. 2001=100) | R22 | 0.1 | 0.07 | 0.2 | 0.19 | 0.8 | 0.68 |
| Parts for civilian aircraft (Dec. 2012=100) | R22010 | 0.1 | 0.12 | 0.3 | 0.19 | 0.3 | 0.39 |
| Engines for civilian aircraft | R22020 | 0.3 | 0.13 | 0.6 | 0.29 | 1.1 | 1.40 |
| Automotive vehicles, parts & engines | R3 | 0.1 | 0.08 | 0.3 | 0.17 | 0.8 | 0.43 |
| Passenger cars, new and used | R300 | 0.0 | 0.05 | 0.7 | 0.19 | 1.5 | 0.79 |
| Parts, engines, bodies and chassis | R302 | 0.1 | 0.11 | 0.3 | 0.25 | 0.5 | 0.38 |
| Engines and engine parts for automotive vehicles (Dec. 2004=100) | R30200 | 0.2 | 0.15 | 0.3 | 0.35 | 0.9 | 0.99 |
| Automotive tires & tubes (Dec. 2004=100) | R30220 | 0.2 | 0.10 | 0.3 | 0.34 | 0.7 | 0.71 |
| Non-engine parts & accessories (Dec. 2003=100) | R30230 | 0.1 | 0.15 | 0.4 | 0.34 | 0.8 | 0.50 |
| Consumer goods, excluding automotives | R4 | 0.1 | 0.06 | 0.2 | 0.15 | 0.2 | 0.26 |
| Nondurables, manufactured | R40 | 0.1 | 0.09 | 0.2 | 0.25 | 0.6 | 0.46 |
| Apparel, footwear, and household goods | R400 | 0.1 | 0.13 | 0.3 | 0.28 | 0.9 | 0.51 |

| Table 1. Variances for U.S. import price indexes for categories of goods: January 2020–December 2020 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Cotton apparel and household goods | R40000 | 0.1 | 0.11 | 0.1 | 0.24 | 0.4 | 0.47 |
| Apparel and household goods for other textiles | R40020 | 0.1 | 0.27 | 0.2 | 0.67 | 0.4 | 0.90 |
| Nontextile apparel and household goods | R40030 | 0.7 | 0.69 | 2.9 | 1.80 | 8.0 | 2.88 |
| Footwear of leather, rubber, or other materials | R40040 | 0.1 | 0.12 | 0.2 | 0.30 | 0.8 | 1.28 |
| Sporting/camping apparel and footwear | R40050 | 0.1 | 0.20 | 0.7 | 0.37 | 2.8 | 1.25 |
| Other consumer nondurables | R401 | 0.1 | 0.13 | 0.3 | 0.46 | 0.3 | 0.75 |
| Medicinal, dental and pharmaceutical preparatory materials | R40100 | 0.1 | 0.12 | 0.2 | 0.53 | 0.5 | 0.95 |
| Toiletries and cosmetics (Dec. 2017=100) | R40120 | 0.3 | 0.25 | 0.7 | 0.58 | 0.9 | 1.33 |
| Other products (notions, writing supplies, tobacco products, etc) | R40140 | 0.6 | 0.43 | 0.9 | 0.74 | 1.8 | 1.05 |
| Durables, manufactured | R41 | 0.1 | 0.08 | 0.2 | 0.17 | 0.9 | 0.25 |
| Household goods | R410 | 0.0 | 0.07 | 0.2 | 0.15 | 1.5 | 0.29 |
| Furniture, household items | R41000 | 0.1 | 0.10 | 0.3 | 0.22 | 2.1 | 0.39 |
| Cookware, chinaware, cutlery for the house and garden | R41020 | 0.1 | 0.06 | 0.3 | 0.20 | 0.5 | 1.08 |
| Household and kitchen appliances | R41030 | 0.1 | 0.16 | 0.5 | 0.49 | 1.7 | 0.45 |
| Other Household Goods, nes | R41050 | 0.1 | 0.08 | 0.1 | 0.23 | 1.3 | 0.49 |
| Recreational equipment and materials | R411 | 0.1 | 0.04 | 0.1 | 0.26 | 0.2 | 0.34 |
| Motorcycles & parts (Dec. 2001=100) | R41100 | 0.1 | 0.13 | 0.2 | 0.31 | 0.4 | 1.91 |
| Toys, shooting & sporting goods | R41120 | 0.1 | 0.06 | 0.3 | 0.33 | 0.3 | 0.45 |
| Photo & optical equipment (Dec. 2011=100) | R41130 | 0.0 | 0.00 | 0.0 | 0.03 | 0.8 | 0.67 |
| Musical instruments and parts (Dec. 2010=100) | R41140 | 0.0 | 0.13 | 0.2 | 0.29 | 1.0 | 2.15 |
| Home entertainment equipment | R412 | 0.6 | 0.36 | 1.0 | 0.81 | 3.0 | 0.99 |
| Television and video receivers | R41200 | 0.7 | 0.39 | 1.3 | 1.00 | 4.5 | 1.01 |
| Radios, phonographs, and tape decks (Dec. 2012=100) | R41210 | 0.1 | 0.07 | 1.2 | 2.26 | 1.9 | 2.22 |
| Coins, gems, jewelry, and collectibles | R413 | 0.3 | 0.57 | 1.7 | 1.38 | 6.2 | 1.72 |
| Jewelry (watches, rings, etc) | R41310 | 0.4 | 0.69 | 1.9 | 1.66 | 7.1 | 1.94 |
| Nonmanufactured consumer goods | R42 | 0.2 | 0.22 | 1.8 | 0.44 | 1.1 | 1.69 |
| Nonmanufactured consumer durables | R421 | 0.1 | 0.01 | 0.7 | 0.02 | 5.0 | 0.11 |
| Gem diamonds-uncut or unset (Dec. 2007=100) [1] | R42100 | 0.0 | 0.00 | 0.8 | 0.00 | 5.8 | 0.00 |

**Footnotes**
(1) Index calculated using strictly alternative price data from one or more secondary sources. Indexes calculated using this method will have standard error values of zero.
(2) Index calculated using a mix of directly collected price data and alternative price data from one or more secondary sources. Indexes calculated using this method will have low standard error values.

| Description | End Use | 1-month median absolute percent change | 1-month median standard error | 3-month median absolute percent change | 3-month median standard error | 12-month median absolute percent change | 12-month median standard error |
|---|---|---|---|---|---|---|---|
| All commodities | Q | 0.9 | 0.11 | 2.0 | 0.16 | 2.3 | 0.20 |
| Agricultural commodities | QAG | 2.1 | 0.48 | 3.4 | 0.58 | 3.2 | 0.67 |
| Nonagricultural commodities | QEXAG | 0.9 | 0.10 | 1.8 | 0.16 | 2.4 | 0.22 |
| Foods, feeds, & beverages | Q0 | 2.2 | 0.45 | 3.4 | 0.67 | 3.1 | 0.77 |
| Agricultural foods, feeds & beverages, excluding distilled beverages | Q00 | 2.3 | 0.45 | 3.7 | 0.69 | 3.1 | 0.79 |
| Wheat and rice | Q000 | 2.1 | 0.12 | 4.8 | 0.30 | 6.1 | 0.30 |
| Wheat [1] | Q00000 | 3.1 | 0.00 | 7.1 | 0.00 | 5.4 | 0.00 |
| Soybeans & other oil seeds | Q001 | 4.5 | 0.35 | 6.8 | 0.55 | 4.0 | 0.66 |
| Soybeans and soybean by-products, prior to the extraction of oil [2] | Q00100 | 5.1 | 0.13 | 6.8 | 0.17 | 4.1 | 0.19 |
| Feedstuff | Q002 | 3.5 | 0.77 | 7.8 | 1.31 | 6.9 | 1.47 |
| Corn [2] | Q00200 | 5.4 | 0.17 | 9.2 | 0.24 | 8.9 | 0.28 |
| Other feedgrains (Dec. 2010=100) [1] | Q00210 | 6.6 | 0.00 | 7.0 | 0.00 | 4.0 | 0.00 |
| Other animal feeds, n.e.s. | Q00220 | 2.3 | 1.97 | 6.7 | 3.38 | 3.1 | 3.76 |
| Other agricultural foods | Q003 | 1.9 | 0.75 | 2.5 | 1.02 | 2.8 | 1.14 |
| Meat, poultry & other edible animal products (Dec. 2006=100) | Q00300 | 0.9 | 1.00 | 1.8 | 1.62 | 2.0 | 2.02 |
| Dairy products & eggs (Dec. 2017=100) | Q00310 | 9.0 | 1.61 | 8.2 | 3.04 | 6.9 | 5.27 |
| Fruit and fruit preparations, including fruit juices | Q00320 | 2.0 | 2.27 | 3.0 | 3.92 | 4.7 | 4.06 |
| Vegetables and vegetable preparations and juices (Dec. 2018=100) | Q00330 | 10.6 | 4.32 | 10.1 | 5.68 | 10.7 | 5.98 |
| Nuts & preparations (Dec. 2014=100) | Q00340 | 3.0 | 1.98 | 8.3 | 2.39 | 18.8 | 2.68 |
| Bakery & confectionery products (Dec. 2016=100) | Q00350 | 0.4 | 0.42 | 0.7 | 0.78 | 1.0 | 1.80 |
| Other foods and food preparations (lard,soft bev, spices), n.e.s. | Q00360 | 0.4 | 0.19 | 1.0 | 0.41 | 0.7 | 0.73 |
| Nonagricultural foods (fish, distilled beverages) | Q01 | 1.1 | 0.71 | 4.0 | 2.69 | 6.4 | 3.93 |
| Fish and shellfish (Dec. 2016=100) | Q01000 | 1.6 | 1.01 | 5.2 | 3.79 | 9.2 | 5.43 |
| Industrial supplies & materials | Q1 | 2.4 | 0.29 | 5.3 | 0.53 | 7.3 | 0.47 |
| Agricultural industrial supplies & materials | Q10 | 1.9 | 0.96 | 2.5 | 1.39 | 5.3 | 1.41 |
| Cotton, incl linters-raw (Dec. 2005=100) | Q100 | 3.4 | 1.18 | 7.7 | 1.81 | 4.5 | 2.43 |
| Other agricultural materials | Q101 | 1.4 | 1.07 | 2.3 | 1.72 | 4.5 | 1.87 |
| Fuels & lubricants | Q11 | 4.8 | 0.71 | 10.8 | 1.13 | 26.2 | 1.43 |
| Coals & related fuels | Q110 | 2.1 | 1.79 | 6.1 | 3.72 | 23.6 | 3.71 |
| Petroleum & petroleum products | Q111 | 4.9 | 0.55 | 12.0 | 1.18 | 26.6 | 1.37 |
| Fuel oil | Q11110 | 7.2 | 0.73 | 13.1 | 1.46 | 37.6 | 1.14 |

Table 2. Variances for U.S. export price indexes for categories of goods: January 2020–December 2020

| Table 2. Variances for U.S. export price indexes for categories of goods: January 2020–December 2020 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Other petroleum products | Q11120 | 4.4 | 1.47 | 7.1 | 1.96 | 21.7 | 2.60 |
| Nonagricultural supplies & materials excluding fuels & building materials | Q12 | 0.9 | 0.29 | 2.0 | 0.38 | 2.3 | 0.64 |
| Nonferrous & other metals | Q122 | 2.2 | 0.73 | 5.1 | 1.12 | 15.8 | 1.47 |
| Aluminum & alumina [2] | Q12200 | 3.9 | 0.66 | 8.6 | 1.18 | 10.0 | 2.01 |
| Copper (Dec. 2008=100) [2] | Q12210 | 3.4 | 0.91 | 10.9 | 1.64 | 12.2 | 1.32 |
| Nonmonetary gold [2] | Q12260 | 3.4 | 0.03 | 7.1 | 0.07 | 27.4 | 0.11 |
| Other precious metals (Dec. 2001=100) [2] | Q12270 | 4.8 | 3.13 | 11.4 | 5.25 | 45.2 | 7.25 |
| Other nonferrous metals | Q12290 | 1.6 | 1.20 | 3.6 | 1.78 | 5.2 | 2.85 |
| Finished metal shapes | Q123 | 0.5 | 0.33 | 1.4 | 0.73 | 1.9 | 1.82 |
| Paper & paper base stocks | Q124 | 1.0 | 0.64 | 1.3 | 1.05 | 3.5 | 1.33 |
| Woodpulp and recovered paper | Q12420 | 4.4 | 1.27 | 4.9 | 2.49 | 11.3 | 3.53 |
| Linerboard, newsprint, and other paper/paperboard | Q12430 | 0.2 | 0.22 | 0.6 | 0.77 | 3.3 | 1.53 |
| Chemicals, excluding medicinals | Q125 | 1.1 | 0.45 | 3.2 | 0.66 | 3.6 | 0.86 |
| Plastic materials | Q12500 | 2.4 | 1.26 | 4.4 | 2.08 | 5.0 | 1.90 |
| Industrial inorganic chemicals | Q12530 | 0.4 | 0.63 | 0.5 | 1.24 | 6.3 | 2.63 |
| Industrial organic chemicals | Q12540 | 1.2 | 0.51 | 4.3 | 1.08 | 6.6 | 1.60 |
| Other chemicals, excluding medicinals | Q12550 | 0.2 | 0.23 | 0.8 | 0.46 | 0.6 | 0.97 |
| Industrial textile fibers, yarn, and fabric (Dec. 2008=100) | Q126 | 0.3 | 0.32 | 1.0 | 0.47 | 3.9 | 0.99 |
| Other nonagricultural industrial supplies and materials | Q127 | 0.2 | 0.19 | 0.5 | 0.42 | 0.9 | 0.74 |
| Synthetic rubber-primary (Dec. 2008=100) | Q12700 | 0.5 | 0.30 | 3.2 | 2.30 | 9.4 | 3.26 |
| Other goods manufactured and unmanufactured | Q12770 | 0.2 | 0.18 | 0.4 | 0.38 | 0.5 | 0.62 |
| Selected building materials | Q13 | 1.0 | 0.51 | 1.6 | 1.22 | 4.2 | 2.19 |
| Lumber & other wood supplies | Q131 | 1.3 | 0.74 | 3.5 | 1.49 | 7.5 | 2.33 |
| Logs, lumber, plywood and veneers | Q13100 | 1.4 | 0.80 | 3.6 | 1.50 | 8.8 | 2.18 |
| Other building materials, exclude wood and glass (Dec. 2016=100) | Q13210 | 0.8 | 0.60 | 1.8 | 1.92 | 1.2 | 2.93 |
| Capital goods | Q2 | 0.1 | 0.08 | 0.2 | 0.15 | 0.6 | 0.25 |
| Electrical generating equipment | Q20 | 0.1 | 0.12 | 0.3 | 0.35 | 2.0 | 0.72 |
| Generators, transformers & access (Dec. 2012=100) | Q20000 | 0.2 | 0.20 | 0.3 | 0.36 | 1.4 | 0.72 |
| Electric apparatus and parts, n.e.s. | Q20005 | 0.1 | 0.15 | 0.4 | 0.38 | 2.9 | 0.95 |
| Nonelectrical machinery | Q21 | 0.1 | 0.08 | 0.2 | 0.21 | 0.2 | 0.39 |
| Oil drilling, mining, and construction machinery, and equipment | Q210 | 0.1 | 0.14 | 0.3 | 0.39 | 1.4 | 0.61 |
| Excavating, paving & construction machinery | Q21030 | 0.1 | 0.10 | 0.4 | 0.57 | 2.0 | 0.94 |
| Industrial and service machinery | Q211 | 0.1 | 0.08 | 0.3 | 0.21 | 0.3 | 0.39 |
| Industrial engines, pumps, & compressors | Q21100 | 0.2 | 0.17 | 1.3 | 0.56 | 1.6 | 0.94 |

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| Table 2. Variances for U.S. export price indexes for categories of goods: January 2020–December 2020 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Metal working machine tools and rolling mill machines | Q21120 | 0.2 | 0.08 | 0.4 | 0.25 | 2.1 | 0.72 |
| Measuring, testing & control instruments | Q21160 | 0.1 | 0.12 | 0.2 | 0.29 | 0.9 | 0.70 |
| Materials handling equipment | Q21170 | 0.1 | 0.09 | 0.4 | 0.29 | 0.8 | 0.51 |
| Other industrial machinery | Q21180 | 0.2 | 0.14 | 0.2 | 0.31 | 0.2 | 0.86 |
| Agricultural machinery and equipment (Dec. 2016=100) | Q212 | 0.2 | 0.15 | 0.4 | 0.30 | 0.6 | 0.34 |
| Computers, peripherals, and semiconductors | Q213 | 0.3 | 0.19 | 0.8 | 0.43 | 0.9 | 0.99 |
| Computers | Q21300 | 1.5 | 0.85 | 3.2 | 1.74 | 4.8 | 2.62 |
| Computer peripherals, accessories and parts | Q21301 | 0.4 | 0.39 | 1.3 | 0.66 | 1.2 | 1.33 |
| Semiconductors | Q21320 | 0.0 | 0.13 | 0.3 | 0.33 | 1.5 | 1.77 |
| Telecommunications equipment | Q214 | 0.1 | 0.16 | 0.5 | 0.33 | 1.7 | 0.98 |
| Scientific and medical machinery | Q216 | 0.2 | 0.18 | 0.6 | 0.51 | 0.4 | 1.48 |
| Laboratory testing & control instruments | Q21600 | 0.5 | 0.42 | 1.1 | 1.11 | 3.6 | 3.23 |
| Other scientific, medical and hospital equipment | Q21610 | 0.2 | 0.11 | 0.5 | 0.62 | 0.5 | 1.04 |
| Transportation equipment excluding motor vehicles (Dec. 2001=100) | Q22 | 0.2 | 0.07 | 0.4 | 0.19 | 1.4 | 0.35 |
| Parts for civilian aircraft | Q22010 | 0.2 | 0.16 | 0.5 | 0.35 | 1.0 | 0.92 |
| Automotive vehicles, parts & engines | Q3 | 0.1 | 0.10 | 0.3 | 0.19 | 0.4 | 0.45 |
| Passenger cars, new and used | Q300 | 0.0 | 0.02 | 0.1 | 0.26 | 0.2 | 0.69 |
| Vehicles designed to transport goods | Q301 | 0.1 | 0.04 | 0.2 | 0.16 | 0.5 | 0.30 |
| Parts, engines, bodies & chassis | Q302 | 0.2 | 0.16 | 0.4 | 0.28 | 0.6 | 0.61 |
| Engines and engine parts for automotive vehicles | Q30200 | 0.2 | 0.09 | 1.1 | 0.54 | 1.5 | 1.93 |
| Nonengine parts & accessories | Q30230 | 0.2 | 0.18 | 0.6 | 0.32 | 0.5 | 0.69 |
| Consumer goods, excluding automotives | Q4 | 0.3 | 0.11 | 0.5 | 0.21 | 0.6 | 0.42 |
| Nondurables, manufactured | Q40 | 0.3 | 0.15 | 0.6 | 0.30 | 0.7 | 0.58 |
| Apparel, footwear, and household goods (Dec. 2016=100) | Q400 | 0.2 | 0.13 | 0.6 | 0.42 | 1.1 | 1.00 |
| Other consumer nondurables | Q401 | 0.3 | 0.16 | 0.6 | 0.34 | 0.6 | 0.57 |
| Medicinal, dental, and pharmaceutical preparatory materials | Q40100 | 0.5 | 0.23 | 0.9 | 0.47 | 0.9 | 0.75 |
| Toiletries & cosmetics | Q40120 | 0.1 | 0.16 | 0.2 | 0.44 | 0.9 | 1.12 |
| Other products (notions & writing articles) | Q40140 | 0.3 | 0.45 | 0.5 | 0.60 | 0.7 | 1.26 |
| Durables, manufactured | Q41 | 0.2 | 0.19 | 0.4 | 0.38 | 0.5 | 0.82 |
| Household goods | Q410 | 0.1 | 0.12 | 0.2 | 0.31 | 0.6 | 0.75 |
| Furniture and household items (Dec. 2007=100) | Q41000 | 0.1 | 0.05 | 0.8 | 0.64 | 1.7 | 1.11 |
| Household and kitchen appliances | Q41030 | 0.1 | 0.10 | 0.3 | 0.26 | 1.7 | 0.47 |
| Miscellaneous household goods | Q41050 | 0.0 | 0.11 | 0.4 | 0.34 | 2.1 | 0.90 |
| Recreational equip & materials | Q411 | 0.4 | 0.44 | 0.3 | 1.22 | 1.0 | 1.86 |

| Table 2. Variances for U.S. export price indexes for categories of goods: January 2020–December 2020 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Toys, shooting and sporting goods | Q41120 | 0.6 | 0.62 | 0.6 | 1.70 | 1.2 | 2.61 |
| Home entertainment equipment (Dec. 2009=100) | Q412 | 0.0 | 0.05 | 1.2 | 0.99 | 1.4 | 1.59 |
| Nonmanufactured consumer goods (Dec. 2018=100) | Q42 | 0.2 | 0.26 | 0.9 | 0.42 | 6.0 | 0.45 |

**Footnotes**
(1) Index calculated using strictly alternative price data from one or more secondary sources. Indexes calculated using this method will have standard error values of zero.
(2) Index calculated using a mix of directly collected price data and alternative price data from one or more secondary sources. Indexes calculated using this method will have low standard error values.

| Description | NAICS | 1-month median absolute percent change | 1-month median standard error | 3-month median absolute percent change | 3-month median standard error | 12-month median absolute percent change | 12-month median standard error |
|---|---|---|---|---|---|---|---|
| Nonmanufacturing | ZNONMANU | 7.4 | 0.69 | 10.7 | 0.69 | 19.8 | 0.75 |
| Agriculture, forestry, fishing and hunting | Z11 | 1.7 | 1.94 | 3.6 | 2.37 | 3.1 | 3.36 |
| Crop production | Z111 | 1.5 | 2.24 | 3.8 | 2.93 | 4.3 | 3.81 |
| Vegetable and melon farming (Dec. 2017=100) | Z1112 | 3.5 | 7.12 | 9.9 | 9.53 | 7.3 | 13.19 |
| Fruit and tree nut farming | Z1113 | 2.9 | 1.95 | 3.0 | 3.19 | 5.4 | 5.66 |
| Noncitrus fruit and tree nut farming | Z11133 | 3.2 | 1.87 | 3.0 | 2.95 | 5.2 | 5.44 |
| Other noncitrus fruit farming | Z111339 | 2.3 | 1.29 | 4.8 | 1.83 | 4.1 | 3.45 |
| Mining | Z21 | 9.9 | 0.20 | 15.7 | 0.25 | 26.9 | 0.34 |
| Oil and gas extraction | Z211 | 10.3 | 0.17 | 16.5 | 0.23 | 27.9 | 0.30 |
| Crude petroleum extraction | Z21112 | 10.8 | 0.00 | 16.3 | 0.00 | 29.9 | 0.00 |
| Natural gas extraction | Z21113 | 12.0 | 2.17 | 15.6 | 3.30 | 20.4 | 9.81 |
| Manufacturing | ZMANU | 0.4 | 0.13 | 0.8 | 0.23 | 0.7 | 0.29 |
| Manufacturing, part 1 | Z31 | 0.2 | 0.16 | 0.2 | 0.27 | 0.4 | 0.40 |
| Food manufacturing | Z311 | 0.5 | 0.41 | 0.7 | 0.74 | 0.7 | 0.90 |
| Grain and oilseed milling | Z3112 | 2.2 | 0.68 | 3.5 | 1.73 | 3.4 | 2.11 |
| Starch and vegetable fats and oils manufacturing | Z31122 | 2.8 | 0.84 | 5.3 | 2.71 | 2.5 | 2.95 |
| Soybean and other oilseed processing | Z311224 | 2.8 | 0.84 | 5.4 | 2.80 | 2.0 | 2.97 |
| Sugar and confectionery product manufacturing | Z3113 | 0.6 | 0.52 | 0.8 | 1.06 | 0.9 | 1.53 |
| Fruit and vegetable preserving and specialty food manufacturing | Z3114 | 0.3 | 0.57 | 0.5 | 0.72 | 4.1 | 2.12 |
| Animal slaughtering and processing | Z3116 | 2.1 | 1.27 | 2.3 | 3.01 | 2.4 | 5.72 |
| Animal (except poultry) slaughtering | Z311611 | 2.2 | 1.39 | 2.4 | 3.23 | 2.7 | 6.14 |
| Seafood product preparation and packaging | Z3117 | 0.5 | 0.46 | 1.4 | 0.75 | 3.4 | 0.90 |
| Other food manufacturing | Z3119 | 0.5 | 1.10 | 0.9 | 1.50 | 2.1 | 1.67 |
| Beverage and tobacco product manufacturing | Z312 | 0.2 | 0.14 | 1.1 | 0.65 | 4.0 | 1.19 |
| Beverage manufacturing (Dec. 2009=100) | Z3121 | 0.1 | 0.13 | 0.7 | 0.50 | 4.3 | 1.27 |
| Breweries (Dec. 2006=100) | Z31212 | 0.0 | 0.02 | 0.3 | 0.24 | 4.7 | 2.55 |
| Wineries | Z31213 | 0.2 | 0.28 | 0.5 | 0.46 | 1.5 | 1.87 |
| Distilleries | Z31214 | 0.1 | 0.09 | 0.3 | 0.24 | 11.8 | 3.71 |
| Textile mills (Dec. 2011=100) | Z313 | 0.2 | 0.26 | 0.8 | 0.51 | 1.7 | 1.24 |
| Fabric mills | Z3132 | 0.2 | 0.33 | 1.0 | 0.77 | 1.6 | 1.51 |
| Textile product mills | Z314 | 0.2 | 0.31 | 0.4 | 0.63 | 1.7 | 1.13 |

| Table 3. Variances for U.S. import price indexes for industries: January 2020–December 2020 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Textile furnishings mills | Z3141 | 0.1 | 0.19 | 0.5 | 0.68 | 1.9 | 0.93 |
| Curtain and linen mills | Z31412 | 0.1 | 0.20 | 0.4 | 0.79 | 3.2 | 0.87 |
| Other textile product mills (Dec. 2006=100) | Z3149 | 0.5 | 0.69 | 0.9 | 1.63 | 1.4 | 2.74 |
| All other textile product mills (Dec. 2012=100) | Z31499 | 0.6 | 0.92 | 1.8 | 2.13 | 3.8 | 3.69 |
| Apparel manufacturing | Z315 | 0.0 | 0.13 | 0.1 | 0.33 | 0.4 | 0.54 |
| Cut and sew apparel manufacturing (Dec. 2009=100) | Z3152 | 0.1 | 0.15 | 0.1 | 0.30 | 0.2 | 0.57 |
| Men and boys cut and sew apparel manufacturing | Z31522 | 0.1 | 0.11 | 0.4 | 0.34 | 0.9 | 0.84 |
| Women and girls cut and sew apparel manufacturing (Dec. 2013=100) | Z31524 | 0.1 | 0.23 | 0.3 | 0.43 | 0.6 | 0.84 |
| Apparel accessories and other apparel manufacturing | Z3159 | 0.3 | 0.44 | 1.6 | 1.41 | 4.5 | 2.99 |
| Leather and allied product manufacturing | Z316 | 0.1 | 0.15 | 0.2 | 0.31 | 0.6 | 0.63 |
| Footwear manufacturing | Z3162 | 0.1 | 0.15 | 0.1 | 0.33 | 1.1 | 1.01 |
| Manufacturing, part 2 | Z32 | 1.0 | 0.65 | 2.6 | 1.09 | 2.4 | 1.05 |
| Wood product manufacturing | Z321 | 4.9 | 1.92 | 5.1 | 2.69 | 10.7 | 3.42 |
| Paper manufacturing | Z322 | 0.6 | 0.37 | 1.3 | 0.64 | 4.0 | 1.68 |
| Pulp, paper, and paperboard mills | Z3221 | 1.1 | 0.63 | 3.1 | 1.43 | 9.0 | 3.47 |
| Converted paper product manufacturing | Z3222 | 0.2 | 0.15 | 0.2 | 0.36 | 0.4 | 1.11 |
| Paper bag and coated and treated paper manufacturing (Dec. 2006=100) | Z32222 | 0.3 | 0.23 | 0.5 | 0.69 | 1.3 | 1.99 |
| Petroleum and coal products manufacturing | Z324 | 5.3 | 3.94 | 11.8 | 7.32 | 26.8 | 6.57 |
| Chemical manufacturing | Z325 | 0.3 | 0.16 | 0.7 | 0.44 | 1.6 | 0.68 |
| Basic chemical manufacturing | Z3251 | 0.6 | 0.39 | 1.4 | 1.01 | 4.5 | 1.19 |
| Other basic inorganic chemical manufacturing (Dec. 2008=100) | Z32518 | 1.7 | 0.83 | 2.4 | 2.03 | 13.7 | 2.48 |
| Other basic organic chemical manufacturing | Z32519 | 0.6 | 0.35 | 1.7 | 1.12 | 2.7 | 1.47 |
| All other basic organic chemical manufacturing | Z325199 | 0.6 | 0.21 | 1.4 | 0.46 | 1.8 | 0.99 |
| Pesticide, fertilizer, other agricult. chemical manufacturing (Dec. 2007=100) | Z3253 | 1.9 | 0.77 | 4.1 | 1.75 | 5.3 | 1.95 |
| Fertilizer manufacturing | Z32531 | 2.0 | 0.82 | 4.4 | 1.64 | 4.5 | 1.87 |
| Pharmaceutical and medicine manufacturing | Z3254 | 0.1 | 0.11 | 0.2 | 0.51 | 0.3 | 0.94 |
| Pharmaceutical preparation manufacturing | Z325412 | 0.1 | 0.16 | 0.4 | 0.43 | 2.5 | 1.18 |
| Biological product (except diagnostic) manufacturing | Z325414 | 0.1 | 0.13 | 1.1 | 1.42 | 7.7 | 2.48 |
| Other chemical product and preparation manufacturing (Dec. 2006=100) | Z3259 | 0.4 | 0.30 | 0.7 | 1.33 | 3.4 | 3.06 |
| All other chemical product and prep. manufacturing (Dec. 2016=100) | Z32599 | 0.6 | 0.29 | 0.9 | 2.61 | 5.6 | 4.07 |
| Plastics and rubber products manufacturing | Z326 | 0.2 | 0.17 | 0.8 | 0.46 | 1.1 | 0.66 |
| Plastics product manufacturing | Z3261 | 0.3 | 0.27 | 1.0 | 0.85 | 1.4 | 1.01 |
| Plastics packaging materials and film and sheet manufacturing | Z32611 | 0.4 | 0.35 | 0.8 | 0.62 | 4.3 | 1.70 |
| Other plastics product manufacturing | Z32619 | 0.3 | 0.35 | 1.2 | 1.14 | 2.7 | 1.46 |

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| Table 3. Variances for U.S. import price indexes for industries: January 2020–December 2020 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Rubber product manufacturing | Z3262 | 0.1 | 0.17 | 0.3 | 0.47 | 0.5 | 0.64 |
| Tire manufacturing | Z32621 | 0.2 | 0.14 | 0.4 | 0.36 | 0.5 | 0.75 |
| Nonmetallic mineral product manufacturing | Z327 | 0.2 | 0.17 | 0.2 | 0.34 | 0.2 | 0.71 |
| Other nonmetallic mineral product manufacturing | Z3279 | 0.5 | 0.31 | 0.5 | 0.76 | 1.2 | 1.12 |
| All other nonmetallic mineral product manufacturing | Z32799 | 0.5 | 0.31 | 0.5 | 0.90 | 1.2 | 1.36 |
| Manufacturing, part 3 | Z33 | 0.2 | 0.06 | 0.5 | 0.11 | 0.7 | 0.23 |
| Primary metal manufacturing | Z331 | 2.6 | 0.36 | 5.7 | 0.57 | 3.8 | 0.62 |
| Iron and steel mills and ferroalloy manufacturing | Z3311 | 1.5 | 0.40 | 3.8 | 0.82 | 10.5 | 1.36 |
| Alumina and aluminum production and processing | Z3313 | 1.9 | 0.51 | 5.1 | 1.86 | 8.3 | 1.83 |
| Alumina refining and primary aluminum production | Z331313 | 2.4 | 0.05 | 8.2 | 0.10 | 11.9 | 0.34 |
| Nonferrous metal (except aluminum) production and processing | Z3314 | 3.9 | 0.64 | 8.1 | 0.63 | 20.8 | 0.71 |
| Nonferrous metal (except aluminum) smelting and refining | Z33141 | 4.3 | 0.09 | 9.9 | 0.14 | 25.6 | 0.16 |
| Fabricated metal product manufacturing | Z332 | 0.2 | 0.18 | 0.2 | 0.30 | 0.3 | 0.61 |
| Cutlery and handtool manufacturing | Z3322 | 0.1 | 0.11 | 0.2 | 0.58 | 1.3 | 0.72 |
| Machine shops; and screw, nut, and bolt manufacturing (Dec. 2012=100) | Z3327 | 0.6 | 0.52 | 0.6 | 1.03 | 0.9 | 1.80 |
| Other fabricated metal product manufacturing | Z3329 | 0.2 | 0.17 | 0.5 | 0.45 | 0.2 | 0.62 |
| Metal valve manufacturing | Z33291 | 0.1 | 0.13 | 0.3 | 0.37 | 0.5 | 0.87 |
| Industrial valve manufacturing | Z332911 | 0.1 | 0.16 | 0.3 | 0.37 | 0.7 | 1.01 |
| All other fabricated metal product manufacturing | Z33299 | 0.3 | 0.41 | 0.5 | 0.96 | 0.5 | 1.18 |
| Machinery manufacturing | Z333 | 0.1 | 0.06 | 0.4 | 0.18 | 0.6 | 0.51 |
| Agriculture, construction, and mining machinery manufacturing | Z3331 | 0.1 | 0.09 | 0.4 | 0.27 | 0.4 | 0.67 |
| Agricultural implement manufacturing (Dec. 2016=100) | Z33311 | 0.1 | 0.12 | 0.3 | 0.28 | 0.7 | 1.08 |
| Construction machinery manufacturing | Z33312 | 0.1 | 0.12 | 0.3 | 0.41 | 0.7 | 0.82 |
| Industrial machinery manufacturing | Z3332 | 0.4 | 0.22 | 1.4 | 0.83 | 5.2 | 2.63 |
| Commercial and service industry machinery manufacturing | Z3333 | 0.1 | 0.04 | 0.3 | 0.45 | 0.3 | 0.95 |
| Ventilation, heating, air-conditioning, and commercial refrigeration equipment | Z3334 | 0.2 | 0.13 | 0.3 | 0.25 | 0.6 | 0.43 |
| Engine, turbine, and power transmission equipment manufacturing | Z3336 | 0.1 | 0.14 | 0.5 | 0.44 | 0.6 | 0.86 |
| Other engine equipment manufacturing | Z333618 | 0.1 | 0.15 | 0.5 | 0.61 | 0.6 | 1.24 |
| Other general purpose machinery manufacturing | Z3339 | 0.1 | 0.12 | 0.1 | 0.29 | 0.4 | 0.89 |
| Pump and compressor manufacturing (Dec. 2013=100) | Z33391 | 0.1 | 0.08 | 0.2 | 0.23 | 0.7 | 0.63 |
| Measuring, dispensing, and other pumping equipment manufacturing | Z333914 | 0.1 | 0.13 | 0.2 | 0.23 | 0.4 | 0.65 |
| Material handling equipment manufacturing | Z33392 | 0.1 | 0.06 | 0.2 | 0.18 | 0.1 | 0.37 |
| Industrial truck, tractor, trailer, and stacker machinery manufacturing | Z333924 | 0.1 | 0.08 | 0.3 | 0.16 | 0.8 | 0.44 |
| All other general purpose machinery manufacturing | Z33399 | 0.1 | 0.20 | 0.2 | 0.51 | 0.8 | 1.42 |

| Table 3. Variances for U.S. import price indexes for industries: January 2020–December 2020 | | | | | | | |
|---|---|---|---|---|---|---|---|
| All other miscellaneous general purpose machinery manufacturing | Z333999 | 0.2 | 0.41 | 0.5 | 0.80 | 2.6 | 1.69 |
| Computer and electronic product manufacturing | Z334 | 0.1 | 0.13 | 0.3 | 0.20 | 0.7 | 0.42 |
| Computer and peripheral equipment manufacturing | Z3341 | 0.3 | 0.19 | 0.6 | 0.30 | 2.1 | 1.01 |
| Computer terminal and other computer peripheral equipment manufacturing | Z334118 | 0.1 | 0.08 | 0.2 | 0.22 | 0.5 | 0.41 |
| Communications equipment manufacturing | Z3342 | 0.0 | 0.06 | 0.0 | 0.10 | 0.2 | 0.28 |
| Audio and video equipment manufacturing | Z3343 | 0.6 | 0.36 | 0.8 | 0.82 | 2.3 | 0.86 |
| Semiconductor and other electronic component manufacturing | Z3344 | 0.4 | 0.38 | 1.2 | 0.68 | 1.3 | 1.47 |
| Navigational, measuring, electromedical, and control instruments | Z3345 | 0.1 | 0.10 | 0.4 | 0.45 | 1.3 | 0.78 |
| Electromedical and electrotherapeutic apparatus manufacturing | Z334510 | 0.1 | 0.06 | 0.1 | 0.23 | 0.3 | 0.52 |
| Instrument manufacturing for measuring and testing electricity | Z334515 | 0.0 | 0.02 | 0.1 | 0.08 | 0.5 | 0.47 |
| Other measuring and controlling device manufacturing | Z334519 | 0.4 | 0.27 | 0.8 | 1.21 | 5.2 | 2.55 |
| Manufacturing and reproducing magnetic and optical media | Z3346 | 1.1 | 0.63 | 2.7 | 1.85 | 2.2 | 4.08 |
| Blank magnetic and optical recording media manufacturing | Z334613 | 1.2 | 0.69 | 3.0 | 2.03 | 2.6 | 4.49 |
| Electrical equipment, appliance, and component manufacturing | Z335 | 0.1 | 0.12 | 0.1 | 0.23 | 0.5 | 1.56 |
| Electric lighting equipment manufacturing | Z3351 | 0.4 | 0.19 | 0.3 | 0.50 | 0.5 | 1.33 |
| Lighting fixture manufacturing | Z33512 | 0.4 | 0.21 | 0.3 | 0.54 | 0.4 | 1.49 |
| Household appliance manufacturing | Z3352 | 0.1 | 0.14 | 0.4 | 0.51 | 1.8 | 0.48 |
| Small electrical appliance manufacturing | Z33521 | 0.1 | 0.07 | 0.6 | 0.29 | 1.3 | 0.52 |
| Electrical equipment manufacturing (Dec. 2017=100) | Z3353 | 0.1 | 0.09 | 0.3 | 0.25 | 1.8 | 1.04 |
| Motor and generator manufacturing | Z335312 | 0.0 | 0.09 | 0.1 | 0.28 | 0.4 | 0.69 |
| All other electrical equipment and component manufacturing | Z33599 | 0.1 | 0.39 | 0.8 | 0.84 | 2.4 | 7.60 |
| All other miscellaneous electrical equipment and component manufacturing | Z335999 | 0.1 | 0.41 | 0.9 | 0.85 | 1.3 | 1.07 |
| Transportation equipment manufacturing | Z336 | 0.1 | 0.08 | 0.4 | 0.17 | 0.7 | 0.44 |
| Motor vehicle manufacturing | Z3361 | 0.2 | 0.07 | 0.6 | 0.16 | 1.3 | 0.76 |
| Automobile and light duty motor vehicle manufacturing | Z33611 | 0.2 | 0.07 | 0.7 | 0.18 | 1.3 | 0.81 |
| Automobile manufacturing | Z336111 | 0.0 | 0.05 | 0.7 | 0.19 | 1.5 | 0.79 |
| Heavy duty truck manufacturing (Dec. 2015=100) | Z33612 | 0.0 | 0.00 | 0.0 | 0.00 | 0.9 | 0.26 |
| Motor vehicle parts manufacturing | Z3363 | 0.1 | 0.13 | 0.3 | 0.33 | 0.5 | 0.56 |
| Motor vehicle gasoline engine and engine parts manufacturing | Z33631 | 0.3 | 0.10 | 0.5 | 0.31 | 0.7 | 1.32 |
| Motor vehicle electrical and electronic equipment manufacturing | Z33632 | 0.1 | 0.09 | 0.2 | 0.30 | 0.2 | 0.46 |
| Motor vehicle brake system manufacturing | Z33634 | 0.3 | 0.19 | 0.4 | 0.74 | 2.5 | 1.11 |
| Motor vehicle transmission and power train parts manufacturing | Z33635 | 0.1 | 0.12 | 0.9 | 0.81 | 0.6 | 1.60 |
| Other motor vehicle parts manufacturing | Z33639 | 0.3 | 0.24 | 0.8 | 0.60 | 2.0 | 1.71 |
| Aerospace product and parts manufacturing | Z3364 | 0.1 | 0.09 | 0.3 | 0.21 | 0.7 | 0.76 |

| Table 3. Variances for U.S. import price indexes for industries: January 2020–December 2020 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Other aircraft parts and auxiliary equipment manufacturing | Z336413 | 0.1 | 0.10 | 0.4 | 0.21 | 0.4 | 0.40 |
| Other transportation equipment manufacturing | Z3369 | 0.1 | 0.16 | 0.3 | 0.32 | 0.5 | 0.79 |
| Motorcycle, bicycle, and parts manufacturing | Z336991 | 0.1 | 0.20 | 0.4 | 0.41 | 0.8 | 1.01 |
| Furniture and related product manufacturing | Z337 | 0.1 | 0.10 | 0.2 | 0.24 | 1.7 | 0.50 |
| Household and institutional furniture and kitchen cabinet manufacturing | Z3371 | 0.1 | 0.11 | 0.2 | 0.19 | 1.5 | 0.58 |
| Upholstered household furniture manufacturing | Z337121 | 0.1 | 0.11 | 0.3 | 0.30 | 2.0 | 1.17 |
| Nonupholstered wood household furniture manufacturing | Z337122 | 0.1 | 0.10 | 0.2 | 0.24 | 1.0 | 0.50 |
| Office furniture (including fixtures) manufacturing | Z3372 | 0.2 | 0.22 | 0.4 | 0.59 | 2.2 | 1.00 |
| Miscellaneous manufacturing | Z339 | 0.3 | 0.23 | 1.0 | 0.63 | 0.9 | 0.68 |
| Medical equipment and supplies manufacturing | Z3391 | 0.7 | 0.58 | 1.8 | 1.95 | 2.0 | 2.08 |
| Surgical and medical instrument manufacturing | Z339112 | 0.2 | 0.23 | 0.4 | 0.77 | 3.3 | 2.41 |
| Surgical appliance and supplies manufacturing | Z339113 | 1.6 | 1.13 | 4.7 | 4.16 | 5.6 | 4.52 |
| Other miscellaneous manufacturing | Z3399 | 0.3 | 0.14 | 0.8 | 0.35 | 0.6 | 0.38 |
| Jewelry and silverware manufacturing | Z33991 | 0.4 | 0.28 | 1.5 | 0.62 | 1.2 | 0.63 |
| Sporting and athletic goods manufacturing | Z33992 | 0.0 | 0.02 | 0.1 | 0.11 | 0.4 | 0.42 |
| Doll, toy, and game manufacturing | Z33993 | 0.1 | 0.09 | 0.4 | 0.54 | 0.9 | 0.64 |
| All other miscellaneous manufacturing | Z33999 | 0.1 | 0.09 | 0.2 | 0.39 | 2.7 | 1.00 |
| All other miscellaneous manufacturing | Z339999 | 0.0 | 0.09 | 0.1 | 0.21 | 3.8 | 1.31 |

| Description | NAICS | 1-month median absolute percent change | 1-month median standard error | 3-month median absolute percent change | 3-month median standard error | 12-month median absolute percent change | 12-month median standard error |
|---|---|---|---|---|---|---|---|
| Nonmanufacturing | YNONMANU | 3.6 | 0.51 | 10.1 | 0.79 | 12.3 | 1.13 |
| Agriculture, forestry, fishing and hunting | Y11 | 3.1 | 0.60 | 5.5 | 0.84 | 5.1 | 1.09 |
| Crop production | Y111 | 3.5 | 0.58 | 5.6 | 0.82 | 5.5 | 0.83 |
| Oilseed and grain farming | Y1111 | 3.6 | 0.07 | 7.1 | 0.25 | 4.3 | 0.59 |
| Soybean farming [1] | Y11111 | 5.7 | 0.00 | 7.1 | 0.00 | 4.4 | 0.00 |
| Wheat farming [1] | Y11114 | 3.1 | 0.00 | 7.1 | 0.00 | 5.4 | 0.00 |
| Corn farming [2] | Y11115 | 5.8 | 0.00 | 9.9 | 0.05 | 8.7 | 0.12 |
| Fruit and tree nut farming (Dec. 2006=100) | Y1113 | 1.5 | 1.77 | 5.0 | 1.95 | 12.2 | 2.63 |
| Noncitrus fruit and tree nut farming (Dec. 2007=100) | Y11133 | 1.6 | 1.73 | 5.7 | 2.01 | 13.4 | 2.38 |
| Tree nut farming | Y111335 | 3.2 | 2.19 | 8.8 | 2.59 | 19.7 | 2.90 |
| Cotton farming (Dec. 2007=100) | Y11192 | 3.4 | 1.18 | 7.7 | 1.81 | 4.5 | 2.43 |
| Mining | Y21 | 6.2 | 0.77 | 11.3 | 1.30 | 22.7 | 1.64 |
| Mining (except oil and gas) | Y212 | 2.3 | 0.99 | 4.5 | 2.12 | 19.0 | 2.23 |
| Coal mining | Y2121 | 3.4 | 1.43 | 7.8 | 3.64 | 28.2 | 3.31 |
| Metal ore mining (Dec. 2012=100) | Y2122 | 3.0 | 0.70 | 6.7 | 1.34 | 7.7 | 1.93 |
| Manufacturing | YMANU | 0.5 | 0.10 | 1.2 | 0.16 | 1.1 | 0.23 |
| Manufacturing, part 1 | Y31 | 0.9 | 0.40 | 1.5 | 0.63 | 1.5 | 0.66 |
| Food manufacturing | Y311 | 1.3 | 0.55 | 2.4 | 0.86 | 1.5 | 0.96 |
| Grain and oilseed milling | Y3112 | 2.0 | 1.42 | 4.0 | 2.34 | 3.3 | 2.63 |
| Starch and vegetable fats and oils manufacturing | Y31122 | 2.6 | 1.80 | 5.3 | 2.97 | 3.5 | 3.30 |
| Soybean and other oilseed processing | Y311224 | 3.7 | 2.46 | 7.5 | 4.03 | 5.0 | 3.98 |
| Fruit and vegetable preserving and specialty food manufacturing | Y3114 | 0.7 | 0.73 | 1.2 | 1.22 | 1.2 | 2.12 |
| Dairy product manuafacturing (Dec. 2017=100) | Y3115 | 7.0 | 1.97 | 6.6 | 3.17 | 4.7 | 5.05 |
| Animal slaughtering and processing | Y3116 | 1.1 | 1.02 | 2.2 | 1.68 | 2.8 | 1.88 |
| Animal (except poultry) slaughtering | Y311611 | 1.1 | 0.99 | 1.6 | 2.29 | 0.6 | 2.15 |
| Other food manufacturing (Dec. 2014=100) | Y3119 | 0.5 | 0.25 | 1.2 | 0.51 | 0.9 | 1.09 |
| All other food manufacturing (Dec. 2017=100) | Y31199 | 0.5 | 0.28 | 1.2 | 0.55 | 1.2 | 1.17 |
| Beverage and tobacco product manufacturing | Y312 | 0.9 | 1.06 | 1.0 | 1.75 | 2.0 | 2.12 |
| Beverage manufacturing (Dec. 2009=100) | Y3121 | 1.1 | 1.26 | 1.2 | 2.09 | 2.4 | 2.51 |
| Manufacturing, part 2 | Y32 | 1.0 | 0.30 | 3.5 | 0.52 | 7.8 | 0.57 |
| Wood product manufacturing (Dec. 2017=100) | Y321 | 1.4 | 0.61 | 2.8 | 1.15 | 5.6 | 1.58 |

| Table 4. Variances for U.S. export price indexes for industries: January 2020–December 2020 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Paper manufacturing | Y322 | 0.3 | 0.24 | 0.3 | 0.48 | 5.5 | 0.85 |
| Pulp, paper, and paperboard mills | Y3221 | 0.4 | 0.49 | 0.8 | 0.83 | 9.0 | 1.74 |
| Converted paper product manufacturing (Dec. 2014=100) | Y3222 | 0.3 | 0.30 | 0.3 | 0.50 | 1.5 | 0.96 |
| Petroleum and coal products manufacturing | Y324 | 4.3 | 0.99 | 10.3 | 1.38 | 29.9 | 1.91 |
| Chemical manufacturing | Y325 | 0.8 | 0.27 | 2.6 | 0.46 | 2.3 | 0.55 |
| Basic chemical manufacturing | Y3251 | 0.9 | 0.53 | 2.6 | 0.88 | 4.9 | 1.09 |
| Other basic organic chemical manufacturing (Dec. 2017=100) | Y32519 | 1.2 | 0.61 | 2.6 | 0.87 | 6.0 | 1.39 |
| Resin, synthetic rubber, and artificial synthetic fibers and filaments | Y3252 | 2.0 | 1.11 | 4.1 | 1.84 | 4.6 | 1.71 |
| Resin and synthetic rubber manufacturing (Dec. 2014=100) | Y32521 | 2.1 | 1.18 | 4.4 | 1.95 | 4.8 | 1.80 |
| Plastics material and resin manufacturing | Y325211 | 2.4 | 1.36 | 4.2 | 2.19 | 5.1 | 2.00 |
| Synthetic rubber manufacturing | Y325212 | 1.6 | 1.01 | 2.6 | 1.79 | 6.5 | 3.20 |
| Pharmaceutical and medicine manufacturing | Y3254 | 0.5 | 0.24 | 0.9 | 0.48 | 1.0 | 0.79 |
| Pharmaceutical preparation manufacturing | Y325412 | 0.5 | 0.25 | 1.1 | 0.62 | 1.8 | 1.15 |
| In-vitro diagnostic substance manufacturing | Y325413 | 0.2 | 0.17 | 0.4 | 0.61 | 0.5 | 1.50 |
| Soap, cleaning compound, and toilet preparation manufacturing | Y3256 | 0.1 | 0.18 | 0.2 | 0.38 | 0.3 | 0.90 |
| Soap and cleaning compound manufacturing | Y32561 | 0.1 | 0.25 | 0.4 | 0.55 | 0.8 | 1.34 |
| Toilet preparation manufacturing | Y32562 | 0.2 | 0.18 | 0.3 | 0.44 | 1.8 | 1.95 |
| Plastics and rubber products manufacturing | Y326 | 0.2 | 0.19 | 0.3 | 0.50 | 0.7 | 0.64 |
| Rubber product manufacturing (Dec. 2006=100) | Y3262 | 0.3 | 0.32 | 0.4 | 0.71 | 0.9 | 1.72 |
| Tire manufacturing (Dec. 2006=100) | Y32621 | 0.5 | 0.45 | 1.7 | 1.03 | 3.3 | 2.77 |
| Nonmetallic mineral product manufacturing | Y327 | 0.4 | 0.42 | 1.0 | 0.97 | 0.3 | 1.48 |
| Manufacturing, part 3 | Y33 | 0.1 | 0.07 | 0.3 | 0.13 | 1.1 | 0.32 |
| Primary metal manufacturing | Y331 | 1.3 | 0.51 | 3.5 | 0.94 | 12.4 | 1.37 |
| Alumina and aluminum production and processing (Dec. 2009=100) | Y3313 | 1.6 | 0.50 | 5.0 | 1.11 | 4.4 | 1.40 |
| Nonferrous metal (except aluminum) production and processing | Y3314 | 2.1 | 0.68 | 5.3 | 1.30 | 23.8 | 1.67 |
| Nonferrous metal (except aluminum) smelting and refining | Y33141 | 2.2 | 0.70 | 6.9 | 1.50 | 29.8 | 1.94 |
| Nonferrous metal (except copper and aluminum) rolling, drawing, extruding, | Y33149 | 1.3 | 1.74 | 3.6 | 3.06 | 11.2 | 5.72 |
| Fabricated metal product manufacturing | Y332 | 0.2 | 0.20 | 0.5 | 0.47 | 1.8 | 1.03 |
| Machinery manufacturing | Y333 | 0.1 | 0.08 | 0.3 | 0.26 | 0.3 | 0.41 |
| Agriculture, construction, and mining machinery manufacturing | Y3331 | 0.1 | 0.13 | 0.3 | 0.24 | 0.7 | 0.38 |
| Agricultural implement manufacturing (Dec. 2017=100) | Y33311 | 0.2 | 0.15 | 0.2 | 0.25 | 0.6 | 0.52 |
| Farm machinery and equipment manufacturing | Y333111 | 0.2 | 0.19 | 0.2 | 0.29 | 0.6 | 0.57 |
| Construction machinery manufacturing | Y33312 | 0.1 | 0.09 | 0.3 | 0.24 | 1.4 | 0.51 |
| Commercial and service industry machinery manufacturing | Y3333 | 0.3 | 0.24 | 1.5 | 1.05 | 5.5 | 3.65 |

| Table 4. Variances for U.S. export price indexes for industries: January 2020–December 2020 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Metalworking machinery manufacturing | Y3335 | 0.2 | 0.12 | 0.3 | 0.51 | 1.8 | 0.96 |
| Engine, turbine, and power transmission equipment manufacturing | Y3336 | 0.4 | 0.21 | 1.6 | 0.43 | 2.0 | 1.65 |
| Other engine equipment manufacturing | Y333618 | 0.0 | 0.04 | 0.2 | 0.09 | 4.5 | 1.27 |
| Other general purpose machinery manufacturing | Y3339 | 0.1 | 0.18 | 0.2 | 0.31 | 1.2 | 0.51 |
| Pump and compressor manufacturing | Y33391 | 0.2 | 0.36 | 0.5 | 0.50 | 1.2 | 1.15 |
| Material handling equipment manufacturing | Y33392 | 0.1 | 0.08 | 0.2 | 0.39 | 0.3 | 0.86 |
| All other general purpose machinery manufacturing | Y33399 | 0.2 | 0.22 | 0.5 | 0.46 | 1.6 | 0.90 |
| Computer and electronic product manufacturing | Y334 | 0.2 | 0.12 | 0.5 | 0.28 | 0.4 | 0.59 |
| Computer and peripheral equipment manufacturing | Y3341 | 0.7 | 0.37 | 1.4 | 0.71 | 3.3 | 1.28 |
| Electronic computer manufacturing | Y334111 | 0.9 | 0.94 | 3.6 | 1.58 | 2.8 | 2.54 |
| Communications equipment manufacturing | Y3342 | 0.1 | 0.11 | 0.1 | 0.40 | 0.6 | 1.00 |
| Radio and TV broadcasting and wireless equipment (Dec. 2009=100) | Y33422 | 0.1 | 0.12 | 0.2 | 0.46 | 0.6 | 1.14 |
| Audio and video equipment manufacturing | Y3343 | 0.0 | 0.05 | 0.7 | 0.79 | 0.7 | 0.79 |
| Semiconductor and other electronic component manufacturing | Y3344 | 0.1 | 0.11 | 0.9 | 0.54 | 2.8 | 1.51 |
| Navigational, measuring, electromedical, and control instruments | Y3345 | 0.2 | 0.13 | 0.3 | 0.29 | 0.2 | 0.42 |
| Electromedical and electrotherapeutic apparatus manufacturing | Y334510 | 0.3 | 0.10 | 0.9 | 0.30 | 0.5 | 0.20 |
| Search and detection instrument manufacturing | Y334511 | 0.1 | 0.23 | 0.3 | 0.57 | 0.2 | 0.91 |
| Instruments and related products manufacturing | Y334513 | 0.1 | 0.06 | 0.1 | 0.40 | 2.3 | 0.85 |
| Analytical laboratory instrument manufacturing | Y334516 | 0.7 | 0.49 | 1.3 | 0.70 | 1.7 | 1.05 |
| Electrical equipment, appliance, and component manufacturing | Y335 | 0.1 | 0.13 | 0.3 | 0.31 | 0.3 | 0.59 |
| Electrical equipment manufacturing | Y3353 | 0.1 | 0.17 | 0.4 | 0.30 | 1.2 | 0.47 |
| Wiring device manufacturing | Y33593 | 0.1 | 0.14 | 0.9 | 0.54 | 2.6 | 0.67 |
| Current-carrying wiring device manufacturing | Y335931 | 0.1 | 0.10 | 0.4 | 0.52 | 1.9 | 0.66 |
| Transportation equipment manufacturing | Y336 | 0.1 | 0.06 | 0.3 | 0.13 | 0.8 | 0.24 |
| Motor vehicle manufacturing | Y3361 | 0.0 | 0.03 | 0.1 | 0.20 | 0.3 | 0.52 |
| Automobile and light duty motor vehicle manufacturing | Y33611 | 0.0 | 0.02 | 0.1 | 0.22 | 0.2 | 0.56 |
| Automobile manufacturing | Y336111 | 0.0 | 0.02 | 0.1 | 0.26 | 0.2 | 0.69 |
| Light truck and utility vehicle manufacturing | Y336112 | 0.0 | 0.00 | 0.2 | 0.07 | 0.4 | 0.38 |
| Heavy duty truck manufacturing | Y33612 | 0.1 | 0.06 | 0.5 | 0.20 | 1.4 | 0.71 |
| Motor vehicle body and trailer manufacturing (Dec. 2013=100) | Y3362 | 0.3 | 0.45 | 1.4 | 0.88 | 3.0 | 2.15 |
| Motor vehicle body manufacturing | Y336211 | 0.4 | 0.27 | 1.1 | 0.78 | 5.1 | 2.96 |
| Motor vehicle parts manufacturing | Y3363 | 0.2 | 0.20 | 0.5 | 0.33 | 0.4 | 0.59 |
| Motor vehicle electrical and electronic equipment manufacturing (Dec. 2008=100) | Y33632 | 0.0 | 0.03 | 0.9 | 0.46 | 0.7 | 0.65 |
| Motor vehicle transmission and power train parts manu. (Dec. 2015=100) | Y33635 | 0.3 | 0.20 | 0.7 | 1.00 | 1.5 | 2.01 |

| Table 4. Variances for U.S. export price indexes for industries: January 2020–December 2020 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Other motor vehicle parts manufacturing | Y33639 | 0.2 | 0.11 | 0.9 | 0.40 | 1.6 | 1.10 |
| Furniture and related product manufacturing (Dec. 2011=100) | Y337 | 0.0 | 0.03 | 0.9 | 0.63 | 1.9 | 1.25 |
| Miscellaneous manufacturing | Y339 | 0.3 | 0.19 | 1.0 | 0.35 | 1.3 | 0.68 |
| Medical equipment and supplies manufacturing | Y3391 | 0.1 | 0.12 | 0.6 | 0.59 | 0.6 | 1.00 |
| Surgical and medical instrument manufacturing | Y339112 | 0.2 | 0.13 | 0.9 | 1.07 | 1.3 | 1.66 |
| Other miscellaneous manufacturing (Dec. 2013=100) | Y3399 | 0.2 | 0.26 | 1.2 | 0.42 | 1.8 | 0.67 |
| Jewelry and silverware manufacturing | Y33991 | 0.3 | 0.24 | 1.9 | 0.51 | 2.7 | 1.61 |

**Footnotes**
(1) Index calculated using strictly alternative price data from one or more secondary sources. Indexes calculated using this method will have standard error values of zero.
(2) Index calculated using a mix of directly collected price data and alternative price data from one or more secondary sources. Indexes calculated using this method will have low standard error values.

| Description | Harmo-nized system | 1-month median absolute percent change | 1-month median standard error | 3-month median absolute percent change | 3-month median standard error | 12-month median absolute percent change | 12-month median standard error |
|---|---|---|---|---|---|---|---|
| Table 5. Variances for U.S. import price indexes for categories of goods: January 2020–December 2020 | | | | | | | |
| Live animals; animal products | PI | 1.0 | 0.64 | 1.6 | 1.09 | 2.9 | 1.77 |
| Meat and edible meat offal | P02 | 2.4 | 1.53 | 2.4 | 3.39 | 2.6 | 6.34 |
| Fish and crustaceans, molluscs and other aquatic invertebrates | P03 | 1.6 | 0.57 | 3.0 | 1.00 | 4.4 | 1.10 |
| Fish fillets and other fish meat, fresh, chilled, frzn, (Dec. 2008=100) | P0304 | 1.3 | 1.27 | 1.0 | 1.32 | 5.6 | 1.55 |
| Crustaceans, live, fresh, chilled, etc; in shell or not; cooked or uncooked | P0306 | 1.4 | 0.57 | 2.1 | 0.98 | 6.5 | 1.59 |
| Vegetable products | PII | 1.5 | 2.08 | 3.6 | 2.86 | 4.3 | 3.80 |
| Edible vegetables, roots, and tubers | P07 | 2.3 | 6.29 | 10.2 | 9.34 | 4.3 | 12.46 |
| Edible fruit and nuts; peel of citrus fruit or melons | P08 | 5.9 | 3.14 | 7.1 | 4.53 | 8.2 | 7.84 |
| Coffee, tea, mate and spices | P09 | 1.2 | 2.35 | 1.9 | 2.82 | 7.3 | 4.43 |
| Coffee, roasted or unroasted, decaf; coffee husks and skins (Dec. 2007=100) | P0901 | 1.8 | 1.90 | 1.9 | 2.43 | 5.1 | 3.24 |
| Animal or vegetable fats and oils (Dec. 2009=100) | PIII | 1.3 | 0.85 | 5.2 | 2.22 | 3.1 | 2.18 |
| Prepared foodstuffs, beverages, and tobacco | PIV | 0.3 | 0.26 | 0.8 | 0.52 | 1.6 | 0.67 |
| Edible preps of meat, of fish, or of aquatic invertebrates (Dec. 2004=100) | P16 | 0.7 | 0.54 | 1.3 | 1.29 | 1.4 | 2.20 |
| Cocoa and cocoa preparations (Dec. 2009=100) | P18 | 0.6 | 0.69 | 1.6 | 0.95 | 3.6 | 1.94 |
| Preparations of vegetables, fruit, nuts, or other parts of plants | P20 | 0.1 | 0.09 | 0.3 | 0.26 | 1.4 | 1.68 |
| Beverages, spirits, and vinegar | P22 | 0.2 | 0.14 | 0.6 | 0.53 | 4.1 | 1.25 |
| Wine of fresh grapes, including fortified wine | P2204 | 0.2 | 0.25 | 0.3 | 0.47 | 0.8 | 0.79 |
| Ethyl alcohol undenatured less than 80% alcohol (Dec. 2001=100) | P2208 | 0.1 | 0.08 | 1.0 | 1.36 | 8.8 | 3.45 |
| Mineral products | PV | 7.7 | 1.25 | 11.7 | 2.21 | 25.2 | 1.84 |
| Mineral fuels, oils and residuals, bituminous substances and mineral waxes | P27 | 8.1 | 1.29 | 12.2 | 2.28 | 26.3 | 1.89 |
| Petroleum oils and oils from bituminous minerals, crude [1] | P2709 | 10.8 | 0.00 | 16.3 | 0.00 | 29.9 | 0.00 |
| Petroleum oils (not crude), bituminous oils, & products thereof, nesoi | P2710 | 5.6 | 3.95 | 11.3 | 7.36 | 27.1 | 6.71 |
| Petroleum gases and other gaseous hydrocarbons | P2711 | 12.0 | 2.17 | 15.6 | 3.30 | 20.4 | 10.10 |
| Products of the chemical or allied industries | PVI | 0.2 | 0.15 | 0.4 | 0.37 | 1.1 | 0.63 |
| Inorganic chemicals | P28 | 1.5 | 0.82 | 3.1 | 2.06 | 8.2 | 1.84 |
| Organic chemicals | P29 | 0.6 | 0.25 | 1.4 | 0.46 | 3.0 | 0.99 |
| Heterocyclic compounds with nitrogen hetero-atoms only (Dec. 2016=100) | P2933 | 0.1 | 0.23 | 0.2 | 0.79 | 2.5 | 2.50 |
| Nucleic acids and their salts, other heterocyclic compounds (Dec. 2009=100) | P2934 | 0.2 | 0.13 | 0.1 | 0.31 | 0.6 | 1.39 |
| Pharmaceutical products | P30 | 0.1 | 0.12 | 0.3 | 0.57 | 0.7 | 1.10 |
| Human and animal blood, prep; antisera & other blood fractions (Dec. 2014=100) | P3002 | 0.1 | 0.13 | 1.1 | 1.42 | 7.7 | 2.48 |
| Medicaments (except vaccines, band., pharmaceuticals) (Dec. 2001=100) | P3004 | 0.1 | 0.18 | 0.5 | 0.52 | 2.3 | 1.69 |

| Table 5. Variances for U.S. import price indexes for categories of goods: January 2020–December 2020 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Miscellaneous chemical products | P38 | 0.5 | 0.25 | 0.8 | 0.66 | 2.8 | 1.98 |
| Plastics and articles thereof; rubber and articles thereof | PVII | 0.8 | 0.50 | 2.4 | 1.15 | 2.2 | 1.68 |
| Plastics and articles thereof | P39 | 0.7 | 0.37 | 1.9 | 0.89 | 1.9 | 1.38 |
| Articles for the conveyance or packing of goods, of plastics (Dec. 2003=100) | P3923 | 0.3 | 0.23 | 0.5 | 0.59 | 1.5 | 1.31 |
| Articles of plastic, polymers & resins of heading 3901 to 3914, nesoi | P3926 | 0.6 | 0.81 | 2.7 | 2.38 | 6.7 | 2.92 |
| Rubber and articles thereof | P40 | 1.4 | 1.15 | 2.7 | 3.15 | 2.5 | 4.50 |
| New pneumatic tires of rubber (Dec. 2004=100) | P4011 | 0.2 | 0.12 | 0.4 | 0.35 | 0.5 | 0.78 |
| Articles of leather; travel goods, bags, etc. of various materials | P42 | 0.1 | 0.20 | 0.3 | 0.60 | 0.4 | 1.11 |
| Travel goods and handbags (Dec. 2015=100) | P4202 | 0.1 | 0.19 | 0.3 | 0.59 | 0.4 | 1.13 |
| Wood, wood charcoal, cork, straw, basketware and wickerwork | PIX | 4.8 | 2.09 | 5.1 | 2.92 | 10.8 | 3.52 |
| Wood and articles of wood; wood charcoal | P44 | 4.9 | 2.10 | 5.2 | 2.86 | 11.1 | 3.45 |
| Woodpulp, recovered paper, and paper products | PX | 0.5 | 0.37 | 1.5 | 0.91 | 5.3 | 1.97 |
| Paper and paperboard; articles of paper pulp, paper or paperboard | P48 | 0.6 | 0.33 | 1.0 | 0.59 | 4.3 | 1.22 |
| Textile and textile articles | PXI | 0.0 | 0.14 | 0.1 | 0.32 | 0.2 | 0.53 |
| Articles of apparel and clothing accessories, knitted or crocheted | P61 | 0.1 | 0.14 | 0.1 | 0.31 | 0.4 | 0.80 |
| Knitted sweaters, pullovers, sweatshirts vests and similar art. (Dec. 2015=100) | P6110 | 0.2 | 0.23 | 0.4 | 0.41 | 0.7 | 1.47 |
| Articles of apparel and clothing accessories, not knitted or crocheted | P62 | 0.1 | 0.21 | 0.4 | 0.59 | 1.4 | 0.94 |
| Men or boys suits, ensembles, suit-type jackets, blazers & trousers | P6203 | 0.1 | 0.11 | 0.3 | 0.35 | 1.0 | 1.21 |
| Women or girls suits, dresses, skirts; not knitted (Dec. 2017=100) | P6204 | 0.1 | 0.12 | 0.5 | 0.86 | 2.0 | 3.09 |
| Made-up or worn textile articles | P63 | 0.4 | 0.51 | 0.6 | 1.14 | 2.2 | 1.39 |
| Headgear, umbrellas, artificial flowers, etc. | PXII | 0.1 | 0.12 | 0.1 | 0.27 | 1.6 | 0.93 |
| Footwear and parts of such articles | P64 | 0.1 | 0.14 | 0.2 | 0.32 | 1.1 | 1.07 |
| Footwear with uppers of leathers | P6403 | 0.2 | 0.22 | 0.3 | 0.50 | 0.5 | 1.01 |
| Footwear with uppers of textile materials | P6404 | 0.2 | 0.17 | 0.1 | 0.43 | 1.9 | 2.48 |
| Stone, plaster, cement, asbestos, ceramics, glass etc. | PXIII | 0.1 | 0.16 | 0.2 | 0.32 | 0.3 | 0.55 |
| Pearls, stones, precious metals, imitation jewelry, and coins | PXIV | 2.1 | 0.27 | 5.4 | 0.43 | 16.1 | 0.60 |
| Diamonds, whether or not worked, but not mounted or set [1] | P7102 | 0.0 | 0.00 | 0.8 | 0.00 | 5.8 | 0.00 |
| Gold (incl plated with platinum), unwrght, semi-mfg or pwdr [1] | P7108 | 3.5 | 0.00 | 7.1 | 0.00 | 27.2 | 0.00 |
| Platinum, unwrought, semi-mfg or powder | P7110 | 10.2 | 1.13 | 23.2 | 1.39 | 60.1 | 2.07 |
| Base metals and articles of base metals | PXV | 0.9 | 0.22 | 3.1 | 0.42 | 4.8 | 0.70 |
| Iron and steel | P72 | 1.6 | 0.45 | 4.0 | 0.84 | 9.7 | 1.06 |
| Articles of iron or steel | P73 | 0.2 | 0.27 | 0.4 | 0.53 | 2.4 | 1.25 |
| Copper and articles thereof | P74 | 4.1 | 0.41 | 7.4 | 1.34 | 12.4 | 1.88 |
| Aluminum and articles thereof | P76 | 1.8 | 0.73 | 5.0 | 1.55 | 6.4 | 1.60 |

| Table 5. Variances for U.S. import price indexes for categories of goods: January 2020–December 2020 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Aluminum, unwrought [1] | P7601 | 2.8 | 0.00 | 9.0 | 0.00 | 12.2 | 0.00 |
| Tools, implements, cutlery, spoons and forks, of base metal; parts thereof | P82 | 0.1 | 0.11 | 0.2 | 0.21 | 0.7 | 0.54 |
| Miscellaneous articles of base metal | P83 | 0.2 | 0.20 | 0.5 | 0.32 | 1.9 | 0.75 |
| Machinery, electrical equipment, TV image and sound recorders, parts, etc. | PXVI | 0.1 | 0.09 | 0.1 | 0.14 | 0.4 | 0.29 |
| Machinery and mechanical appliances; parts thereof | P84 | 0.1 | 0.14 | 0.4 | 0.21 | 0.9 | 0.45 |
| Spark-ignition internal combustion piston engines | P8407 | 0.3 | 0.12 | 0.3 | 0.31 | 0.7 | 0.68 |
| Parts for spark-ignition and diesel internal combustion piston engines | P8409 | 0.1 | 0.14 | 0.5 | 0.43 | 1.0 | 1.31 |
| Engines & motors, nesoi, & parts thereof (Dec. 2012=100) | P8412 | 0.3 | 0.29 | 0.9 | 1.00 | 0.6 | 2.51 |
| Pumps for liquids; liquid elevators; parts thereof | P8413 | 0.2 | 0.15 | 0.3 | 0.31 | 0.7 | 0.71 |
| Air or vacuum pumps, compressors and fans; vent & recycling hoods; parts | P8414 | 0.1 | 0.16 | 0.4 | 0.42 | 1.8 | 0.97 |
| Air conditioning machines and parts thereof (Dec. 2014=100) | P8415 | 0.1 | 0.10 | 0.3 | 0.33 | 1.2 | 0.70 |
| Centrifuges & filtering/purifying machinery and parts (Dec. 2017=100) | P8421 | 0.1 | 0.12 | 1.4 | 2.04 | 7.4 | 3.63 |
| Self-propelled earth-moving, tamping, & road roller machines (Dec. 2012=100) | P8429 | 0.1 | 0.04 | 0.5 | 0.19 | 2.1 | 0.46 |
| Parts for materials handling & construction machines | P8431 | 0.1 | 0.19 | 0.5 | 0.83 | 1.8 | 1.66 |
| Printing machinery, machines ancillary to printing; & parts (Dec. 2012=100) | P8443 | 0.2 | 0.14 | 0.2 | 0.28 | 0.2 | 0.92 |
| Computer equipment | P8471 | 0.4 | 0.24 | 0.7 | 0.38 | 2.5 | 1.31 |
| Parts and accessories, n.e.s.o.i., for computers and other office machines | P8473 | 1.3 | 0.69 | 3.0 | 1.71 | 5.2 | 2.95 |
| Machines & appliances having functions n.e.s.; parts thereof (Dec. 2016=100) | P8479 | 0.3 | 0.56 | 0.5 | 1.26 | 3.1 | 2.66 |
| Taps, cocks, valves & similar appliances; parts thereof | P8481 | 0.1 | 0.15 | 0.3 | 0.35 | 0.5 | 0.93 |
| Electrical machinery and equip, sound and TV recorders & reproducers, parts | P85 | 0.1 | 0.10 | 0.2 | 0.18 | 0.2 | 0.53 |
| Electric motors and generators (excludes generating sets) | P8501 | 0.0 | 0.11 | 0.1 | 0.35 | 0.1 | 0.87 |
| Electrical transformers, inductors & static converters (rectifiers); parts | P8504 | 0.4 | 0.82 | 0.6 | 1.68 | 5.5 | 2.39 |
| Vehicular electric lighting equipment, and defrosters; (Dec. 2014=100) | P8512 | 0.2 | 0.22 | 0.6 | 0.86 | 0.3 | 1.00 |
| Electrothermic domestic appliances; water & space heaters; resistors | P8516 | 0.2 | 0.13 | 0.4 | 0.47 | 2.0 | 0.87 |
| Electrical apparatus for line telephony or line telegraphy; videophones; parts | P8517 | 0.0 | 0.06 | 0.1 | 0.11 | 0.3 | 0.29 |
| Microphones & stands; audio/sound amps; speakers; & headphones (Dec. 2012=100) | P8518 | 0.1 | 0.11 | 1.0 | 1.77 | 1.4 | 1.86 |
| Prepared unrecorded media for sound or similar recording (Dec. 2004=100) | P8523 | 1.1 | 0.65 | 2.8 | 1.93 | 2.3 | 4.32 |
| Radio & TV transmission apparatus; video cameras & camera recorders; TV cameras | P8525 | 0.1 | 0.05 | 0.8 | 0.49 | 3.1 | 1.02 |
| Electrical circuit switching, protecting or connection app. of 1000 volts or less | P8536 | 0.2 | 0.15 | 0.5 | 0.36 | 0.7 | 2.87 |
| Semiconductor devices; L.E.D.s; mounted crystals; parts thereof (Dec. 2018=100) | P8541 | 0.4 | 0.47 | 1.8 | 1.52 | 2.3 | 1.30 |
| Electronic integrated circuits and micro assemblies; parts thereof | P8542 | 0.2 | 0.23 | 0.3 | 0.87 | 2.0 | 1.26 |
| Electrical machines & apparatus, func. n.e.s.o.i.; parts (Dec. 2014=100) | P8543 | 0.0 | 0.03 | 0.4 | 0.24 | 0.5 | 0.41 |
| Insulated conductors (Dec. 2010=100) | P8544 | 0.1 | 0.16 | 0.2 | 0.37 | 0.7 | 1.13 |
| Vehicles, aircraft, vessels and associated transport equipment | PXVII | 0.1 | 0.08 | 0.4 | 0.16 | 0.9 | 0.47 |

| Table 5. Variances for U.S. import price indexes for categories of goods: January 2020–December 2020 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Motor vehicles and their parts | P87 | 0.1 | 0.09 | 0.4 | 0.16 | 1.0 | 0.54 |
| Tractors (other than work trucks of heading 8709) (Dec. 2017=100) | P8701 | 0.0 | 0.00 | 0.0 | 0.03 | 0.9 | 0.35 |
| Motor vehicles designed to transport people | P8703 | 0.0 | 0.05 | 0.7 | 0.19 | 1.5 | 0.79 |
| Parts of tractors, buses, automobiles, trucks, spec. vehicles | P8708 | 0.2 | 0.19 | 0.4 | 0.53 | 0.4 | 0.61 |
| Parts, nesoi, of civil aircraft and spacecraft (Dec. 2012=100) | P8803 | 0.1 | 0.10 | 0.4 | 0.21 | 0.4 | 0.40 |
| Optical, photo, measuring, medical & musical instruments; & timepieces | PXVIII | 0.1 | 0.08 | 0.2 | 0.26 | 0.3 | 0.52 |
| Optical, photographic, measuring and medical instruments | P90 | 0.0 | 0.08 | 0.2 | 0.28 | 0.2 | 0.52 |
| Instruments/appliances used in medical, surgical, dental, veterinarian sciences | P9018 | 0.1 | 0.18 | 0.4 | 0.57 | 3.4 | 1.70 |
| Orthopedic appliances; artificial body parts; hearing aids, etc (Dec. 2003=100) | P9021 | 0.3 | 0.05 | 0.9 | 0.11 | 7.9 | 1.48 |
| Instruments and apparatus for physical or chemical analysis (Dec. 2006=100) | P9027 | 0.3 | 0.23 | 1.1 | 0.51 | 3.8 | 1.43 |
| Measuring instruments, appliances, and machines, nesoi (Dec. 2013=100) | P9031 | 0.0 | 0.02 | 0.1 | 0.08 | 1.2 | 0.52 |
| Miscellaneous manufactured articles | PXX | 0.1 | 0.09 | 0.2 | 0.17 | 1.0 | 0.27 |
| Furniture & stuffed furnishings; lamps & lighting fittings, nesoi; prefab bldgs | P94 | 0.1 | 0.08 | 0.1 | 0.22 | 1.3 | 0.38 |
| Seats other than barber, dental and similar chairs (Dec. 2001=100) | P9401 | 0.1 | 0.12 | 0.2 | 0.23 | 1.0 | 0.56 |
| Lamps, lighting fixtures, & illuminated signs and parts thereof | P9405 | 0.4 | 0.25 | 0.3 | 0.55 | 0.5 | 1.67 |
| Toys, games and sports equipment; parts and accessories thereof | P95 | 0.1 | 0.05 | 0.3 | 0.32 | 0.5 | 0.47 |
| Articles for arcade, table or games parts thereof (Dec. 2018=100) | P9504 | 0.0 | 0.00 | 1.4 | 0.45 | 5.9 | 1.80 |
| Articles & equipment for sports nesoi; parts & accessories thereof | P9506 | 0.0 | 0.00 | 0.0 | 0.00 | 0.4 | 0.44 |
| Miscellaneous manufactured articles | P96 | 0.0 | 0.02 | 0.1 | 0.09 | 1.4 | 0.58 |

**Footnotes**
(1) Index calculated using strictly alternative price data from one or more secondary sources. Indexes calculated using this method will have standard error values of zero.

| Description | Harmo-nized system | 1-month median absolute percent change | 1-month median standard error | 3-month median absolute percent change | 3-month median standard error | 12-month median absolute percent change | 12-month median standard error |
|---|---|---|---|---|---|---|---|
| Live animals; animal products | DI | 1.6 | 1.05 | 2.6 | 1.67 | 3.2 | 1.97 |
| Meat & edible meat offal (Dec. 2006=100) | D02 | 1.4 | 1.47 | 2.3 | 2.04 | 3.1 | 2.59 |
| Fish and crustaceans, mollusks and aquatic invertebrates (Dec. 2016=100) | D03 | 1.8 | 1.17 | 4.7 | 3.87 | 9.3 | 5.73 |
| Vegetable products | DII | 3.5 | 0.78 | 5.5 | 1.00 | 4.4 | 1.10 |
| Edible fruit and nuts; peel of citrus fruit or melons | D08 | 1.6 | 1.94 | 5.2 | 2.17 | 10.3 | 2.76 |
| Nuts nesoi, fresh or dried (Dec. 2015=100) | D0802 | 3.2 | 2.19 | 8.9 | 2.60 | 19.7 | 2.90 |
| Cereals | D10 | 3.9 | 0.05 | 6.6 | 0.10 | 7.3 | 0.12 |
| Wheat and meslin [1] | D1001 | 3.1 | 0.00 | 7.1 | 0.00 | 5.4 | 0.00 |
| Corn (maize) [2] | D1005 | 5.8 | 0.00 | 9.9 | 0.05 | 8.7 | 0.12 |
| Oilseeds and misc. grains, seeds, fruits, plants, straw and fodder | D12 | 3.9 | 0.23 | 5.0 | 0.30 | 2.9 | 0.45 |
| Soybeans, whether or not broken (Dec. 2001=100) [1] | D1201 | 5.7 | 0.00 | 7.1 | 0.00 | 4.4 | 0.00 |
| Prepared foodstuffs, beverages, and tobacco | DIV | 1.4 | 0.62 | 2.3 | 1.16 | 1.3 | 1.26 |
| Miscellaneous edible preparations (Dec. 2017=100) | D21 | 0.4 | 0.20 | 1.0 | 0.52 | 0.7 | 1.14 |
| Beverages, spirits, and vinegar (Dec. 2008=100) | D22 | 5.1 | 1.99 | 5.1 | 2.87 | 3.8 | 4.14 |
| Residues and waste from the food industries; prepared animal feed | D23 | 3.1 | 1.98 | 4.3 | 3.19 | 3.1 | 3.19 |
| Mineral products | DV | 4.6 | 0.64 | 11.2 | 1.02 | 25.7 | 1.37 |
| Ores, slag and ash (Dec. 2012=100) | D26 | 3.1 | 0.72 | 6.7 | 1.39 | 7.4 | 2.01 |
| Mineral fuels, oils and residuals, bituminous substances and mineral waxes | D27 | 4.8 | 0.68 | 11.8 | 1.08 | 27.2 | 1.48 |
| Coal, briquettes and similar solid fuels manufactured from coal | D2701 | 3.4 | 1.43 | 7.8 | 3.64 | 28.2 | 3.31 |
| Petroleum oils & oils from bituminous minerals (excl crude) & products, nes | D2710 | 4.6 | 0.99 | 10.8 | 1.32 | 31.2 | 1.72 |
| Petroleum gases and other gaseous hydrocarbons (Dec. 2014=100) | D2711 | 3.0 | 2.26 | 11.5 | 4.02 | 12.8 | 7.41 |
| Products of the chemical or allied industries | DVI | 0.6 | 0.18 | 1.8 | 0.32 | 1.9 | 0.57 |
| Inorganic chemicals | D28 | 0.7 | 0.58 | 2.0 | 1.60 | 7.4 | 2.34 |
| Organic chemicals | D29 | 2.4 | 0.54 | 4.3 | 1.19 | 7.8 | 1.92 |
| Pharmaceutical products | D30 | 0.7 | 0.24 | 1.1 | 0.51 | 1.3 | 0.75 |
| Human and animal blood, prepared; other blood frctns (Dec. 2014=100) | D3002 | 0.5 | 0.32 | 1.3 | 0.80 | 1.1 | 1.28 |
| Medicaments | D3004 | 0.5 | 0.24 | 1.3 | 0.78 | 2.3 | 1.19 |
| Essential oils and resinoids; perfumery cosmetic or toilet preparations | D33 | 0.1 | 0.16 | 0.3 | 0.50 | 2.3 | 1.84 |
| Soap; lubricants; waxes, polishing or scouring products; candles, pastes | D34 | 0.1 | 0.21 | 0.4 | 0.47 | 0.9 | 1.27 |
| Miscellaneous chemical products | D38 | 0.2 | 0.24 | 0.5 | 0.56 | 0.4 | 1.17 |
| Composite diagnostic or laboratory reagents (Dec. 2001=100) | D3822 | 0.2 | 0.12 | 0.4 | 0.67 | 0.5 | 1.47 |

**Table 6. Variances for U.S. export price indexes for categories of goods: January 2020–December 2020**

| Table 6. Variances for U.S. export price indexes for categories of goods: January 2020–December 2020 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Plastics and articles thereof; rubber and articles thereof | DVII | 0.8 | 0.48 | 2.1 | 0.81 | 2.3 | 0.96 |
| Plastics and articles thereof | D39 | 1.2 | 0.61 | 2.6 | 0.94 | 2.4 | 1.15 |
| Polymers of ethylene, in primary forms | D3901 | 3.4 | 2.67 | 7.9 | 4.63 | 9.2 | 4.88 |
| Rubber and articles thereof | D40 | 0.3 | 0.29 | 0.9 | 0.88 | 1.5 | 1.53 |
| New pneumatic tires of rubber (Dec. 2013=100) | D4011 | 0.6 | 0.46 | 1.8 | 1.04 | 3.3 | 2.86 |
| Wood, wood charcoal, cork, straw, baskets and wickerwork (Dec. 2014=100) | DIX | 1.6 | 0.57 | 3.2 | 1.25 | 5.8 | 2.42 |
| Woodpulp, recovered paper, and paper products | DX | 0.9 | 0.56 | 0.8 | 0.98 | 2.5 | 1.76 |
| Woodpulp and recovered paper | D47 | 4.4 | 1.84 | 5.6 | 3.29 | 11.3 | 7.56 |
| Paper and paperboard; articles of paper pulp, paper or paperboard | D48 | 0.3 | 0.32 | 0.6 | 0.33 | 2.3 | 1.18 |
| Textile and textile articles | DXI | 0.8 | 0.33 | 1.6 | 0.52 | 1.7 | 0.86 |
| Cotton, including yarns and woven fabrics thereof | D52 | 3.0 | 1.00 | 6.2 | 1.38 | 3.6 | 2.08 |
| Cotton, not carded or combed (Dec. 2018=100) | D5201 | 3.4 | 1.18 | 7.7 | 1.81 | 4.5 | 2.43 |
| Stone, plaster, cement, asbestos, ceramics, glass etc. | DXIII | 0.3 | 0.27 | 0.7 | 0.90 | 0.9 | 1.38 |
| Glass and glassware | D70 | 0.1 | 0.02 | 0.3 | 0.16 | 2.3 | 0.81 |
| Pearls, stones, precious metals, imitation jewelry, and coins | DXIV | 1.3 | 0.76 | 2.6 | 1.25 | 13.6 | 1.48 |
| Diamonds, whether or not worked, but not mounted or set (Dec. 2013=100) [2] | D7102 | 0.0 | 0.00 | 0.8 | 0.00 | 5.9 | 0.01 |
| Gold (including gold plated with platinum), unwrought (Dec. 2001=100) [2] | D7108 | 3.3 | 0.03 | 7.2 | 0.07 | 27.4 | 0.11 |
| Base metals and articles of base metals | DXV | 1.2 | 0.31 | 3.6 | 0.54 | 4.3 | 1.20 |
| Copper and articles thereof | D74 | 4.4 | 0.66 | 8.5 | 1.31 | 11.3 | 1.10 |
| Aluminum and articles thereof | D76 | 2.8 | 0.72 | 7.5 | 1.36 | 8.2 | 1.62 |
| Machinery, electrical equipment, TV image and sound recorders, parts, etc. | DXVI | 0.1 | 0.09 | 0.2 | 0.17 | 0.2 | 0.42 |
| Machinery and mechanical appliances; parts thereof | D84 | 0.1 | 0.12 | 0.3 | 0.20 | 0.2 | 0.41 |
| Pumps for liquids; liquid elevators; parts thereof | D8413 | 0.0 | 0.04 | 0.1 | 0.18 | 1.4 | 0.58 |
| Air or vacuum pumps, compressors and fans; vent & recycling hoods; parts | D8414 | 0.2 | 0.31 | 0.9 | 0.48 | 3.7 | 1.84 |
| Centrifuges & filtering/purifying machinery and parts | D8421 | 0.3 | 0.40 | 1.0 | 0.84 | 2.5 | 1.35 |
| Printing mach., machines ancilliary to printing; parts thereof (Dec. 2013=100) | D8443 | 0.1 | 0.21 | 0.4 | 0.90 | 1.8 | 1.86 |
| Computer equipment | D8471 | 0.7 | 0.67 | 2.0 | 1.42 | 5.5 | 1.83 |
| Electrical machinery and equipment and parts and accessories thereof | D85 | 0.2 | 0.11 | 0.6 | 0.28 | 0.9 | 0.60 |
| Electrical apparatus for line telephony or line telegraphy; videophones; parts | D8517 | 0.1 | 0.11 | 0.2 | 0.41 | 0.6 | 1.09 |
| Electrical circuit switching, protecting or connection app of 1000 volts or less | D8536 | 0.0 | 0.03 | 0.6 | 0.44 | 8.1 | 2.30 |
| Semiconductors; L.E.D.s; mounted crystals; parts thereof (Dec. 2017=100) | D8541 | 0.0 | 0.13 | 1.2 | 0.62 | 9.5 | 7.56 |
| Electronic integrated circuits and micro assemblies; parts thereof | D8542 | 0.1 | 0.10 | 0.2 | 0.29 | 0.8 | 1.23 |
| Insulated conductors; optical fiber cables w/individually sheathed fibers | D8544 | 0.2 | 0.11 | 0.5 | 1.12 | 1.8 | 1.63 |
| Vehicles, aircraft, vessels and associated transport equipment | DXVII | 0.1 | 0.07 | 0.3 | 0.13 | 0.7 | 0.24 |

| Table 6. Variances for U.S. export price indexes for categories of goods: January 2020–December 2020 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Motor vehicles and their parts | D87 | 0.2 | 0.10 | 0.4 | 0.21 | 0.3 | 0.39 |
| Tractors other than work trucks | D8701 | 0.7 | 0.21 | 0.8 | 0.22 | 3.3 | 0.93 |
| Automobiles and other motor vehicles inc minivans, 4-dr specialty vehicles | D8703 | 0.0 | 0.02 | 0.1 | 0.26 | 0.2 | 0.67 |
| Motor vehicles for the transport of goods | D8704 | 0.1 | 0.04 | 0.2 | 0.11 | 0.7 | 0.29 |
| Parts and access of tractors, buses automobiles, trucks, spec. vehicles | D8708 | 0.2 | 0.20 | 0.7 | 0.33 | 0.7 | 0.89 |
| Parts, nesoi, of civil aircraft and spacecraft (exc. military) | D8803 | 0.2 | 0.18 | 0.6 | 0.35 | 1.2 | 0.89 |
| Optical, photo, measuring, medical & musical instruments; & timepieces | DXVIII | 0.1 | 0.11 | 0.3 | 0.33 | 0.5 | 0.95 |
| Instruments/appliances used in medical surgical, dental, veternarian sciences | D9018 | 0.2 | 0.13 | 0.6 | 0.75 | 0.7 | 1.21 |
| Instruments and apparatus for physical or chemical analysis | D9027 | 0.5 | 0.40 | 0.9 | 0.61 | 1.0 | 0.84 |
| Oscilloscopes, spectrum analyzers etc., and parts | D9030 | 0.2 | 0.12 | 0.6 | 0.40 | 2.3 | 2.48 |
| Measuring or checking instruments, and appliances n.e.s. (Dec. 2001=100) | D9031 | 0.0 | 0.02 | 0.1 | 0.12 | 0.7 | 0.71 |
| Miscellaneous manufactured articles | DXX | 0.2 | 0.24 | 0.3 | 0.57 | 0.8 | 1.15 |
| Furniture; stuffed furnishings; lamps and lighting fittings nesoi; | D94 | 0.1 | 0.15 | 0.6 | 0.65 | 1.5 | 1.33 |
| Toys, games and sports equipment; parts and accessories thereof | D95 | 0.6 | 0.28 | 0.9 | 1.13 | 1.1 | 2.61 |

**Footnotes**
(1) Index calculated using strictly alternative price data from one or more secondary sources. Indexes calculated using this method will have standard error values of zero.
(2) Index calculated using a mix of directly collected price data and alternative price data from one or more secondary sources. Indexes calculated using this method will have low standard error values.