Variance Estimates for Price Changes in the Import and Export Price Indexes January—December 2022

Each month, the International Price Program (IPP) at the Bureau of Labor Statistics (BLS) collects roughly 18,300 prices for a representative sample of goods traded by approximately 3,200 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 6-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 0.9 percent for All Commodities import prices, as seen in Table 1. The standard error for imports on a 1-month basis was 0.17. 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 0.9 percent plus or minus 0.34, or between 0.56 percent and 1.24 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:

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

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

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

where

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

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

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

= the weight of item i, within establishment j and detailed product category k; and Wi,t

 $p_{i,t}$ = 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 stratumlevel 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

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

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

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

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

where

 $w_{m_p,j,i}^b = \text{the } b^{th}$ replicate item weight for item i, within establishment j and sampling stratum partition m_p ; $w_{m_p,j,i} = \text{the standard item weight for item } i$, within establishment j and sampling stratum partition m_p ; and $d_{m_p,j}^b = \text{the number of times establishment } j$, 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 $v_B = \frac{1}{150} \sum_{b=1}^{150} (\hat{\theta}_b - \hat{\theta})^2$ 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.

| Table 1. Variances for U.S. import price indexes for categories of goods: | January 202 | 22–Decemb | per 2022 | | | | |
|---|-------------------------|--|--|--|--|---|---|
| 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 | R | 0.9 | 0.17 | 2.5 | 0.22 | 9.7 | 0.39 |
| All imports excluding fuels (Dec. 2001=100) | REXFUELS | 0.4 | 0.16 | 1.3 | 0.22 | 4.4 | 0.39 |
| Foods, feeds, & beverages | R0 | 0.8 | 0.80 | 2.0 | 1.20 | | |
| Agricultural foods, feeds & beverages, excluding distilled beverages | R00 | 0.9 | | 2.2 | 1.45 | | |
| Green coffee, cocoa beans, sugar | R000 | 1.5 | | 3.6 | 1.94 | 30.0 | 3.54 |
| Green coffee (Dec. 2007=100) | R00000 | 2.0 | | 4.4 | 2.22 | 39.5 | |
| Other agricultural foods | R001 | 0.8 | | 2.1 | 1.72 | 6.8 | |
| Meat, poultry & other edible animal products | R00100 | 1.3 | | 3.3 | 1.35 | | |
| Fruit and fruit preparations including frozen juices | R00120 | 4.6 | | 7.3 | 5.82 | 8.0 | |
| Vegetables and vegetable preparations | R00130 | 3.1 | 4.88 | 6.4 | 7.54 | | |
| Food oils & oilseeds (Dec. 2007=100) | R00150 | 2.1 | 1.49 | 3.3 | 3.71 | 9.5 | |
| Bakery & confectionery products | R00160 | 0.8 | 0.82 | 3.8 | 1.59 | | |
| Other animal & vegetable preparations & products (Dec. 2015=100) | R00180 | 0.3 | | 1.0 | 2.31 | 5.1 | 3.44 |
| Wine, beer, & related products | R00190 | 0.2 | 0.15 | 0.6 | 0.41 | 0.6 | |
| Feedstuff and foodgrains (Dec. 2013=100) | R002 | 2.2 | 2.91 | 8.2 | 6.59 | | |
| Nonagricultural foods (fish, distilled beverages) | R01 | 1.0 | | 2.6 | 0.83 | 4.8 | |
| Fish & shellfish | R01000 | 1.5 | | 3.8 | 1.17 | 7.2 | |
| Distilled alcoholic beverages | R01010 | 0.2 | 0.14 | 0.4 | 0.27 | 0.6 | |
| Industrial supplies & materials (2) | R1 | 3.1 | 0.43 | 7.4 | 0.57 | 26.6 | |
| Industrial supplies & materials excluding fuels (Dec. 2001=100) (2) Fuels & lubricants (2) | R1EXFUEL | 1.9 | | 4.7 | 0.81 | 8.7 | |
| | R10 | 6.2 | 0.68 | 12.4 | 0.89 | | |
| Petroleum & petroleum products ⁽²⁾ Crude ⁽¹⁾ | R100 | 6.3 | 0.66 | 12.3 | 0.86 | | |
| | R10000 | 8.1 | 0.00 | 15.4 | 0.00 | | |
| Fuel oil (2) | R10010 | 5.8 | 3.61 | 8.2 | 3.27 | 67.8 | |
| Other petroleum products | R10020 | 8.4 | 2.69 | 21.5 | 3.09 | | 7.34 |
| Fuels, n.e.scoals & gas | R101 | 9.8 | | 11.6 | 5.16 | | |
| Gas-natural | R10110 | 11.4 | 5.56 | 14.0 | 6.54 | | |
| Paper & paper base stocks | R11 | 1.9 | | 4.4 | 2.55 | | 4.70 |
| Materials associated with nondurable supplies & materials | R12 | 1.2 | 0.55 | 3.5 | 0.94 | 21.4 | 2.78 |
| Agricultural products used for industrial supplies and materials | R120 | 0.8 | | 2.0 | 1.54 | 6.5 | |
| Other agricultural products (tobacco, waxes, nonfood oils) Textile supplies & related materials | R12070 | 0.8 | | 2.2 | 1.63 | | |
| · · · · · · · · · · · · · · · · · · · | R121 | 0.3 | | 1.5 | 1.06 | | |
| Synthetic cloth, fabric, and thread Chemicals, excluding medicinals | R12135 | 0.6 | 0.71 | 1.7 | 2.03 | | |
| Plastic materials | R125 | 1.5 | | 4.2 | 1.05 | 24.3 | |
| Fertilizers, pesticides & insecticides (Dec. 2007=100) | R12500 | 0.5 | | 2.2 | 1.84 | 10.8 | |
| Industrial inorganic chemicals (Dec. 2016=100) | R12510 | 3.8 | | 9.1 | 3.20 | | |
| Industrial organic chemicals (Dec. 2012=100) | R12530 | 0.3 | | 1.2 | 2.15 | | |
| Other chemicals (coloring agents) | R12540 | 0.5 | | 1.8 | 1.19 | | |
| Selected building materials | R12550 | 0.3 | 0.16 | 0.4 | 0.38 | | 0.75 |
| Lumber and other unfinished building materials | R13 R130 | 2.5 | | 7.3 | 3.06 5.47 | 10.5 14.6 | |
| Stone, sand, cement and lime | R13020 | 4.5 0.3 | 2.88 0.34 | 14.6 | 0.85 | | |
| Building materials, finished | R13020 R131 | 1.1 | 0.34 | 0.5 3.5 | 1.09 | | 3.20 3.29 |
| Nontextile floor & wall coverings; mach. parts of china (Dec. 2007=100) | R131 R13120 | 0.1 | 0.63 | 0.7 | 0.65 | | |
| Unfinished metals related to durable goods (2) | R13120 | 3.5 | | 6.9 | 1.09 | | |
| Steelmaking & ferroalloying matls | R140 | 3.5 4.6 | 4.03 | 14.1 | 6.79 | 17.5 | |
| Iron & steel mill products | R141 | 1.9 | | 5.2 | 2.60 | | 5.38 |
| Major nonferrous metals-crude (2) | R141 | 4.1 | 0.29 | 8.0 | 0.79 | | |
| Bauxite, alumina, aluminum, and products thereof (2) | R14200 | 3.4 | 0.29 | 11.0 | 1.71 | 21.4 | 2.75 |
| Copper (Dec. 2017=100) (2) | R14200 R14220 | 2.1 | 0.70 | 6.6 | 0.00 | | |
| Nickel (Dec. 2007=100) (2) | R14240 | 4.8 | 0.53 | 25.6 | 1.88 | | |
| | R14240 | 9.0 | | | 0.00 | | |
| In (Dec. 2010=100) \frac{1}{2} | | 7.6 | | 12.5 | 0.00 | 25.7 | 0.00 |
| Tin (Dec. 2010=100) (1) Zinc (Dec. 2008=100) (1) | R14260 | | 0.00 | 12.3 | 0.02 | 20.7 | 0.02 |
| Zinc (Dec. 2008=100) ⁽¹⁾ | R14260 | | 0.00 | 5.0 | 0.00 | 27 | 0.00 |
| Zinc (Dec. 2008=100) ⁽¹⁾ Nonmonetary gold ⁽²⁾ | R14270 | 2.4 | 0.00 | 5.0 7.4 | 0.00 | | 0.00 |
| Zinc (Dec. 2008=100) ⁽¹⁾ Nonmonetary gold ⁽²⁾ Other precious metals ⁽²⁾ | R14270 R14280 | 2.4 6.4 | 0.31 | 7.4 | 0.52 | 18.1 | 0.88 |
| Zinc (Dec. 2008=100) ⁽¹⁾ Nonmonetary gold ⁽²⁾ Other precious metals ⁽²⁾ Finished metals related to durable goods | R14270 R14280 R15 | 2.4 6.4 2.2 | 0.31 1.11 | 7.4 3.5 | 0.52 1.63 | 18.1 10.0 | 0.88 3.62 |
| Zinc (Dec. 2008=100) ⁽¹⁾ Nonmonetary gold ⁽²⁾ Other precious metals ⁽²⁾ | R14270 R14280 | 2.4 6.4 | 0.31 1.11 1.20 | 7.4 3.5 | 0.52 1.63 | 18.1 10.0 13.6 | 0.88 3.62 6.45 |

| Table 1. Variances for U.S. import price indexes for categories of goods: | January 202 | 22-Decemb | per 2022 | | | | |
|---|------------------|------------|--------------|-----|--------------|-------------|--------------|
| Nonmetals related to durable goods | R16 | 0.5 | | 1.8 | 0.93 | 8.7 | 1.65 |
| Finished nonmetals (boxes, belting, glass, etc.) | R161 | 0.3 | | 0.7 | 0.61 | 4.1 | 1.49 |
| Other finished nonmetals (boxes, belting, glass, etc.) | R16120 | 0.3 | | 0.7 | 0.62 | 4.1 | 1.50 |
| Capital goods | R2 | 0.2 | | 0.7 | 0.25 | 3.4 | 0.62 |
| Electric generating equipment | R20 | 0.4 | 0.33 | 1.0 | 0.68 | 5.1 | 1.46 |
| Generators, transformers & access | R20000 | 0.3 | 0.45 | 1.0 | 0.87 | 3.2 | 1.88 |
| Electric apparatus & parts, n.e.s. | R20005 | 0.6 | 0.41 | 1.5 | 0.88 | 5.9 | 1.95 |
| Nonelectrical machinery | R21 | 0.2 | 0.12 | 0.5 | 0.25 | 3.2 | 0.72 |
| Oil drilling, mining, and construction machinery and equipment | R210 | 0.7 | 0.63 | 2.4 | 1.50 | 18.2 | 5.42 |
| Excavating, paving & construction machinery | R21030 | 0.5 | 0.18 | 1.7 | 0.54 | 8.5 | 1.42 |
| Industrial and service machinery | R211 | 0.2 | 0.15 | 0.5 | 0.31 | 3.2 | 0.64 |
| Industrial engines, pumps, & compressors | R21100 | 0.2 | 0.20 | 0.6 | 0.69 | 3.3 | 1.66 |
| Metal working machine tools and rolling mills | R21120 | 0.3 | 0.35 | 1.2 | 0.66 | 5.4 | 1.70 |
| Measuring, testing & control instruments | R21160 | 0.4 | 0.66 | 0.9 | 1.12 | 3.5 | 1.78 |
| Materials handling equipment | R21170 | 0.2 | 0.45 | 1.0 | 0.86 | 5.6 | 3.45 |
| Other industrial machines | R21180 | 0.3 | 0.27 | 0.5 | 0.71 | 1.5 | 1.01 |
| Photo & other service industry machinery | R21190 | 0.2 | 0.15 | 0.4 | 0.49 | 5.6 | 1.40 |
| Agricultural machinery and equipment | R212 | 0.1 | 0.11 | 1.5 | 0.45 | 6.0 | 1.22 |
| Computers, peripherals and semiconductors | R213 | 0.3 | 0.22 | 0.7 | 0.45 | 3.4 | 0.99 |
| Computers | R21300 | 0.2 | 0.28 | 0.6 | 0.89 | 2.4 | 1.60 |
| Computer accessories, peripherals, and parts | R21301 | 0.4 | 0.33 | 1.0 | 0.58 | 2.4 | 0.94 |
| Semiconductors | R21320 | 0.6 | 0.40 | 1.8 | 0.87 | 6.5 | 1.77 |
| Telecommunications equipment | R214 | 0.1 | 0.14 | 0.2 | 0.39 | 1.3 | 1.12 |
| Business machinery and equipment, except computers | R215 | 0.7 | 0.45 | 1.7 | 0.70 | 6.7 | 2.20 |
| Scientific and medical machinery | R216 | 0.2 | 0.36 | 0.8 | 0.99 | 0.9 | 2.36 |
| Laboratory testing and control instruments (Dec. 2016=100) | R21600 | 0.4 | 0.57 | 1.0 | 1.59 | 3.0 | 2.68 |
| Other scientific, medical, and hospital equipment | R21610 | 0.2 | 0.34 | 1.1 | 0.98 | 1.6 | 2.74 |
| Transportation equipment excluding motor vehicles (Dec. 2001=100) | R22 | 0.4 | 0.12 | 1.9 | 0.41 | 3.7 | 1.03 |
| Civilian aircraft, engines and parts | R220 | 0.3 | | 1.3 | 0.43 | 3.3 | 1.09 |
| Parts for civilian aircraft (Dec. 2012=100) | R22010 | 0.4 | | 1.0 | | 2.3 | |
| Engines for civilian aircraft | R22020 | 0.3 | | 0.9 | 0.39 | 3.9 | 1.75 |
| Automotive vehicles, parts & engines Passenger cars, new and used | R3 | 0.2 | 0.09 | 0.7 | 0.24 | 3.0 | 0.52 |
| Parts, engines, bodies and chassis | R300 | 0.3 | | 0.9 | 0.34 | 2.5 | 0.56 |
| Engines and engine parts for automotive vehicles (Dec. 2004=100) | R302 | 0.2 | 0.16 | 1.0 | 0.37 | 4.4 | 0.90 |
| Automotive tires & tubes (Dec. 2004=100) | R30200 R30220 | 0.3 | 0.19 0.30 | 0.8 | 0.39 0.73 | 2.2 13.3 | 0.84 2.48 |
| Non-engine parts & accessories (Dec. 2003=100) | R30230 | 0.9 | | 0.6 | 0.73 | 3.6 | 0.94 |
| Consumer goods, excluding automotives | R4 | 0.2 | 0.22 | 0.4 | 0.49 | 2.0 | 0.59 |
| Nondurables, manufactured | R40 | 0.1 | 0.13 | 0.4 | 0.29 | 0.4 | 0.59 |
| Apparel, footwear, and household goods | R400 | 0.1 | 0.16 | 0.4 | 0.44 | 2.0 | 1.17 |
| Cotton apparel and household goods | R40000 | 0.4 | 0.10 | 1.2 | 0.44 | 4.6 | 1.20 |
| Apparel and household goods for other textiles | R40020 | 0.2 | 0.27 | 0.4 | 0.61 | 1.6 | 1.70 |
| Nontextile apparel and household goods | R40030 | 0.2 | | 0.7 | 0.72 | 3.0 | 3.51 |
| Footwear of leather, rubber, or other materials | R40040 | 0.2 | 0.18 | 0.2 | 0.41 | 2.3 | 0.79 |
| Sporting/camping apparel and footwear | R40050 | 0.3 | | 2.0 | 0.66 | 1.3 | 2.26 |
| Other consumer nondurables | R401 | 0.2 | | 0.7 | 0.44 | 0.8 | 1.22 |
| Medicinal, dental and pharmaceutical preparatory materials | R40100 | 0.2 | 0.16 | 1.0 | 0.51 | 1.8 | 1.43 |
| Toiletries and cosmetics (Dec. 2017=100) | R40120 | 0.7 | 0.71 | 0.9 | 1.14 | 5.0 | 2.40 |
| Other products (notions, writing supplies, tobacco products, etc) | R40140 | 0.4 | 0.44 | 1.4 | 0.72 | 4.3 | 1.59 |
| Durables, manufactured | R41 | 0.2 | 0.25 | 0.4 | 0.53 | 3.4 | 0.94 |
| Household goods | R410 | 0.2 | 0.20 | 0.5 | 0.42 | 3.6 | 1.21 |
| Furniture, household items | R41000 | 0.4 | 0.27 | 1.7 | 0.72 | 7.1 | 1.88 |
| Cookware, chinaware, cutlery for the house and garden | R41020 | 0.3 | 0.32 | 0.6 | 0.77 | 6.0 | 3.28 |
| Household and kitchen appliances | R41030 | 0.5 | 0.25 | 1.5 | 0.75 | 8.6 | 2.22 |
| Other Household Goods, nes | R41050 | 0.3 | 0.23 | 0.5 | 0.55 | 1.1 | 2.22 |
| Recreational equipment and materials | R411 | 0.4 | 0.36 | 1.0 | 0.75 | 3.3 | 1.81 |
| Motorcycles & parts (Dec. 2001=100) | R41100 | 0.1 | 0.15 | 0.8 | 1.08 | 0.5 | 1.80 |
| Toys, shooting & sporting goods | R41120 | 0.6 | 0.48 | 1.2 | 0.98 | 4.2 | 2.30 |
| Photo & optical equipment (Dec. 2011=100) | R41130 | 0.0 | 0.01 | 0.1 | 0.05 | 0.4 | 0.41 |
| Filoto & optical equipment (Dec. 2011–100) | | | | | 4.00 | 5.6 | 2.70 |
| Musical instruments and parts (Dec. 2010=100) | R41140 | 0.1 | 0.20 | 1.4 | 1.20 | 5.0 | |
| | R41140 R412 | 0.1 0.1 | | | | | |
| Musical instruments and parts (Dec. 2010=100) | | | 0.59 | | 1.92 | | |

| Table 1. Variances for U.S. import price indexes for categories of goods: January 2022–December 2022 | | | | | | | | | | |
|--|--------|-----|------|-----|------|------|------|--|--|--|
| Coins, gems, jewelry, and collectibles | R413 | 1.9 | 2.31 | 1.5 | 4.24 | 4.6 | 3.69 | | | |
| Jewelry (watches, rings, etc) | R41310 | 2.1 | 2.99 | 3.2 | 5.50 | 6.2 | 5.07 | | | |
| Nonmanufactured consumer goods (2) | R42 | 0.6 | 0.22 | 2.3 | 0.48 | 9.4 | 2.10 | | | |
| Nonmanufactured consumer durables | R421 | 0.4 | 0.10 | 1.9 | 0.24 | 13.7 | 0.60 | | | |
| Gem diamonds-uncut or unset (Dec. 2007=100) (1) | R42100 | 0.4 | 0.00 | 1.7 | 0.00 | 15.2 | 0.00 | | | |

⁽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 can have low standard error

| Table 2. Variances for U.S. export price indexes for categories of goods | : January 202 | 22-Decemb | er 2022 | | | | |
|---|------------------|--|--|--|--|---|---|
| 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 | 2.0 | 0.29 | 4.2 | 0.41 | 14.0 | 0.66 |
| Agricultural commodities | QAG | 2.4 | 0.33 | 4.1 | 0.68 | 14.5 | 1.47 |
| Nonagricultural commodities | QEXAG | 2.1 | 0.31 | 4.3 | 0.43 | | |
| Foods, feeds, & beverages | Q0 | 2.4 | 0.34 | 4.0 | 0.69 | | |
| Agricultural foods, feeds & beverages, excluding distilled beverages | Q00 | 2.5 | 0.36 | 4.0 | 0.72 | | |
| Wheat and rice ⁽²⁾ Wheat ⁽¹⁾ | Q000 | 2.7 | 0.96 | 10.2 | 1.66 | | |
| Soybeans & other oil seeds (2) | Q00000 | 3.6 | 0.00 | 13.0 | 0.00 | | |
| Soybeans and soybean by-products, prior to the extraction of oil (2) | Q001 Q00100 | 4.8 | 0.23 0.18 | 7.2 8.3 | 0.29 | 17.0 16.5 | |
| Feedstuff (2) | Q00100 Q002 | 3.7 | 0.16 | 8.3 | 1.25 | | |
| Corn (2) | Q002 Q00200 | 4.8 | 0.07 | 8.8 | 0.66 | | |
| Other feedgrains (Dec. 2010=100) ⁽¹⁾ | Q00200 Q00210 | 4.6 | 0.13 | 9.6 | 0.00 | | |
| Other animal feeds, n.e.s. | Q00210 Q00220 | 3.7 | 1.61 | 7.1 | 2.78 | | |
| Other agricultural foods | Q00220 Q003 | 0.5 | 0.63 | 1.7 | 1.17 | 9.3 | |
| Meat, poultry & other edible animal products (Dec. 2006=100) | Q00300 | 0.8 | 0.78 | 1.9 | 1.45 | | |
| Fruit and fruit preparations, including fruit juices | Q00300 Q00320 | 4.0 | 3.05 | 5.9 | 6.80 | | |
| Vegetables and vegetable preparations and juices (Dec. 2018=100) | Q00330 | 3.1 | 3.35 | 7.6 | 5.20 | | 10.08 |
| Nuts & preparations (Dec. 2014=100) | Q00340 | 1.6 | 1.75 | 5.1 | 1.91 | 6.4 | |
| Bakery & confectionery products (Dec. 2016=100) | Q00350 | 0.5 | 0.97 | 1.7 | 1.50 | | |
| Other foods and food preparations (lard,soft bev, spices), n.e.s. | Q00360 | 0.6 | 0.64 | 1.4 | 1.56 | 5.6 | |
| Nonagricultural foods (fish, distilled beverages) | Q01 | 0.8 | 0.94 | 2.8 | 2.70 | 4.6 | 3.88 |
| Fish and shellfish (Dec. 2016=100) | Q01000 | 1.1 | 1.30 | 4.2 | 3.66 | 5.3 | 5.48 |
| Industrial supplies & materials | Q1 | 3.9 | 0.64 | 8.6 | 0.87 | 27.8 | 1.54 |
| Agricultural industrial supplies & materials | Q10 | 1.3 | 0.83 | 5.0 | 1.69 | 21.4 | 4.62 |
| Cotton, incl linters-raw (Dec. 2005=100) | Q100 | 4.0 | 0.90 | 10.3 | 2.09 | 43.7 | 8.47 |
| Other agricultural materials | Q101 | 0.7 | 1.09 | 2.5 | 2.34 | 7.6 | 5.50 |
| Fuels & lubricants ⁽²⁾ | Q11 | 7.8 | 0.93 | 14.0 | 1.27 | 54.5 | 3.14 |
| Coals & related fuels | Q110 | 1.8 | 3.41 | 15.9 | 11.32 | 64.7 | 24.93 |
| Petroleum & petroleum products (2) | Q111 | 9.4 | 0.62 | 14.2 | 0.70 | 52.8 | 2.61 |
| Crude petroleum ^(1,3) | Q11100 | 7.1 | 0.00 | - | - | - | - |
| Fuel oil ⁽²⁾ | Q11110 | 11.9 | 0.43 | 18.8 | 1.03 | 69.5 | 3.93 |
| Other petroleum products | Q11120 | 10.9 | 1.16 | 14.8 | 1.71 | 53.5 | 2.92 |
| Nonagricultural supplies & materials excluding fuels & building materials | Q12 | 1.4 | 0.46 | 4.0 | 0.90 | 5.3 | 1.40 |
| Iron and steel products | Q121 | 0.4 | 0.72 | 1.6 | 1.70 | 27.0 | 12.62 |
| Nonferrous & other metals (2) | Q122 | 3.3 | 0.72 | 5.3 | 1.70 | | |
| Aluminum & alumina | Q12200 | 5.0 | 1.24 | 8.9 | 2.01 | 16.4 | |
| Copper (Dec. 2008=100) | Q12210 | 2.5 | 1.30 | 5.3 | 1.87 | 13.1 | |
| Nonmonetary gold ⁽²⁾ | Q12260 | 2.1 | 0.04 | 5.0 | 0.07 | 3.7 | |
| Other precious metals (Dec. 2001=100) | Q12270 | 3.5 | 2.75 | 6.4 | 5.97 | 9.1 | |
| Other nonferrous metals | Q12290 | 3.4 | 1.60 | 6.8 | 2.86 | | 5.47 |
| Finished metal shapes Paper & paper base stocks | Q123 | 0.4 | 0.63 | 1.4 | 1.39 | | |
| | Q124 | 1.4 | 1.03 | 3.7 | 1.02 | | |
| Woodpulp and recovered paper Linerboard, newsprint, and other paper/paperboard | Q12420 | 2.9 | 1.95 | 6.1 | 2.03 | | |
| Chemicals, excluding medicinals | Q12430 Q125 | 0.3 1.0 | 0.26 0.75 | 3.0 4.2 | 0.49 1.48 | | |
| Plastic materials | Q125 Q12500 | 2.3 | 1.30 | 6.0 | 2.10 | | |
| Fertilizers, pesticides & insecticides | Q12500 Q12510 | 0.9 | 0.82 | 11.0 | 4.07 | 50.1 | 20.79 |
| Industrial organic chemicals | Q12510 Q12540 | 2.0 | 1.53 | 8.9 | 2.98 | | |
| Other chemicals, excluding medicinals | Q12540 Q12550 | 0.4 | 0.46 | 1.2 | 1.00 | | |
| Industrial textile fibers, yarn, and fabric (Dec. 2008=100) | Q126 | 0.4 | 0.40 | 1.0 | 1.34 | 7.1 | |
| Other nonagricultural industrial supplies and materials | Q127 | 0.5 | 0.33 | 1.1 | 0.77 | 8.2 | |
| Other goods manufactured and unmanufactured | Q12770 | 0.4 | 0.46 | 1.1 | 1.03 | | |
| Selected building materials | Q13 | 2.0 | 0.82 | 5.3 | 1.48 | | |
| Lumber & other wood supplies | Q131 | 1.4 | 1.07 | 7.3 | 2.79 | | |
| Logs, lumber, plywood and veneers | Q13100 | 1.4 | 1.00 | 2.8 | 1.70 | | |
| Miscellaneous building materials excluding wood (3) | Q132 | 1.9 | 0.95 | - | - | - | - |
| Other building materials, exclude wood and glass (Dec. 2016=100) | Q13210 | 1.8 | | 3.8 | 1.36 | 20.8 | 5.26 |
| Capital goods | Q2 | 0.2 | | | | | |
| Electrical generating equipment | Q20 | 0.3 | | 1.3 | | | |

| Table 2. Variances for U.S. export price indexes for categories o | | 1 | | , , | 0.70 | ا, د, | |
|---|--------|-----|------|-----|------|-------|-----|
| Generators, transformers & access (Dec. 2012=100) | Q20000 | 0.6 | 0.31 | 1.8 | 0.73 | 12.1 | 2.6 |
| Electric apparatus and parts, n.e.s. | Q20005 | 0.3 | 0.35 | 1.5 | 0.63 | 6.9 | 1.0 |
| Nonelectrical machinery | Q21 | 0.4 | 0.16 | 0.8 | 0.29 | 4.2 | 0.5 |
| Oil drilling, mining, and construction machinery, and equipment | Q210 | 0.3 | 0.35 | 1.1 | 0.78 | 5.8 | 1.7 |
| Excavating, paving & construction machinery | Q21030 | 0.4 | 0.34 | 0.9 | 0.96 | 6.1 | 2.4 |
| Industrial and service machinery | Q211 | 0.4 | 0.20 | 1.4 | 0.37 | 5.3 | 0.8 |
| Industrial engines, pumps, & compressors | Q21100 | 0.4 | 0.33 | 1.5 | 0.81 | 6.6 | 2.2 |
| Metal working machine tools and rolling mill machines | Q21120 | 0.2 | 0.23 | 1.5 | 0.93 | 6.4 | 2.2 |
| Measuring, testing & control instruments | Q21160 | 0.2 | 0.35 | 1.2 | 0.92 | 4.2 | 2.6 |
| Materials handling equipment | Q21170 | 0.4 | 0.26 | 1.9 | 0.83 | 9.9 | 3.0 |
| Other industrial machinery | Q21180 | 0.4 | 0.23 | 1.2 | 0.47 | 4.1 | 1.1 |
| Agricultural machinery and equipment (Dec. 2016=100) | Q212 | 0.1 | 0.18 | 1.9 | 1.06 | 6.8 | 1.5 |
| Computers, peripherals, and semiconductors | Q213 | 0.5 | 0.35 | 1.3 | 0.69 | 3.0 | 1.2 |
| Computers | Q21300 | 1.1 | 0.84 | 2.1 | 1.14 | 3.1 | 1.7 |
| Computer peripherals, accessories and parts | Q21301 | 0.3 | 0.41 | 1.4 | 1.21 | 6.3 | 2.1 |
| Semiconductors | Q21320 | 0.4 | 0.40 | 0.6 | 0.72 | 0.7 | 1.6 |
| Telecommunications equipment | Q214 | 0.3 | 0.20 | 0.8 | 0.45 | 4.3 | 1.2 |
| Scientific and medical machinery | Q216 | 0.4 | 0.27 | 1.0 | 0.57 | 1.2 | 1.3 |
| Laboratory testing & control instruments | Q21600 | 0.5 | 0.26 | 1.2 | 0.63 | 2.1 | 1.4 |
| Other scientific, medical and hospital equipment | Q21610 | 0.4 | 0.31 | 1.0 | 0.72 | 2.0 | 1.7 |
| Transportation equipment excluding motor vehicles (Dec. 2001=100) | Q22 | 0.2 | 0.09 | 1.0 | 0.23 | 3.2 | 0.5 |
| Civilian aircraft, aircraft engines and parts | Q220 | 0.2 | 0.07 | 0.9 | 0.19 | 3.1 | 0.4 |
| Parts for civilian aircraft | Q22010 | 0.1 | 0.11 | 0.6 | 0.33 | 3.5 | 1.2 |
| Automotive vehicles, parts & engines | Q3 | 0.3 | 0.14 | 1.2 | 0.28 | 4.6 | 0.6 |
| Passenger cars, new and used | Q300 | 0.0 | 0.02 | 0.3 | 0.13 | 1.1 | 0.2 |
| Vehicles designed to transport goods | Q301 | 0.2 | 0.07 | 1.3 | 0.18 | 3.9 | 0.3 |
| Parts, engines, bodies & chassis | Q302 | 0.5 | 0.27 | 1.6 | 0.51 | 6.8 | 1.2 |
| Engines and engine parts for automotive vehicles | Q30200 | 0.3 | 0.22 | 2.6 | 0.73 | 8.0 | 2.7 |
| Nonengine parts & accessories | Q30230 | 0.4 | 0.28 | 1.3 | 0.49 | 6.1 | 1.5 |
| Consumer goods, excluding automotives | Q4 | 0.2 | 0.21 | 0.3 | 0.49 | 4.2 | 1.0 |
| Nondurables, manufactured | Q40 | 0.2 | 0.19 | 0.5 | 0.52 | 0.9 | 1.1 |
| Apparel, footwear, and household goods (Dec. 2016=100) | Q400 | 0.4 | 0.44 | 2.1 | 0.75 | 4.3 | 2.6 |
| Other consumer nondurables | Q401 | 0.3 | 0.22 | 0.4 | 0.60 | 0.7 | 1.3 |
| Medicinal, dental, and pharmaceutical preparatory materials | Q40100 | 0.2 | 0.29 | 0.6 | 0.75 | 2.3 | 1.7 |
| Toiletries & cosmetics | Q40120 | 0.2 | 0.14 | 0.5 | 0.48 | 4.4 | 3.3 |
| Other products (notions & writing articles) | Q40140 | 0.5 | 0.29 | 1.3 | 0.65 | 6.3 | 2.0 |
| Durables, manufactured | Q41 | 0.4 | 0.23 | 1.4 | 0.49 | 4.8 | 1.0 |
| Household goods | Q410 | 0.2 | 0.20 | 1.3 | 0.52 | 4.9 | 1.8 |
| Furniture and household items (Dec. 2007=100) | Q41000 | 0.0 | 0.04 | 0.6 | 0.53 | 9.6 | 8.1 |
| Household and kitchen appliances | Q41030 | 0.2 | 0.28 | 1.0 | 0.39 | 15.3 | 3.3 |
| Miscellaneous household goods | Q41050 | 0.2 | 0.21 | 0.8 | 0.39 | 1.8 | 1.6 |
| Recreational equip & materials | Q411 | 0.4 | 0.21 | 3.7 | 1.84 | 9.9 | 3.0 |
| Toys, shooting and sporting goods | Q41120 | 0.4 | 0.23 | 4.8 | 2.61 | 12.8 | 4.8 |
| Nonmanufactured consumer goods (Dec. 2018=100) (2) | Q42 | 0.4 | 0.25 | 2.2 | 2.46 | 25.3 | 9.0 |

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 can have low standard error values.

⁽³⁾ Index was not published in the previous year. Estimates using prior year index values are excluded.

| Table 3. Variances for U.S. import price indexes for industries: January 2 | 022–Decem | ber 2022 | | | | | |
|---|-------------------|--|--|--|--|---|---|
| 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 ⁽²⁾ | ZNONMANU | 4.8 | 0.57 | 10.8 | 0.76 | 44.5 | 1.69 |
| Agriculture, forestry, fishing and hunting | Z11 | 2.0 | 2.04 | 3.1 | 2.66 | 14.4 | 4.42 |
| Crop production | Z111 | 1.6 | 2.43 | 3.6 | 3.18 | 14.1 | 5.11 |
| Vegetable and melon farming (Dec. 2017=100) | Z1112 | 4.7 | 7.24 | 9.4 | 9.60 | 7.0 | 14.21 |
| Fruit and tree nut farming | Z1113 | 4.1 | 2.38 | 4.5 | 4.10 | 16.1 | 5.87 |
| Noncitrus fruit and tree nut farming | Z11133 | 4.3 | 2.38 | 5.2 | 4.18 | | |
| Other noncitrus fruit farming | Z111339 | 3.2 | 1.61 | 9.2 | 2.41 | 35.3 | |
| Mining (2) | Z21 | 6.4 | 0.39 | 13.0 | 0.61 | 53.1 | 1.37 |
| Oil and gas extraction (2) | Z211 | 6.5 | 0.42 | 13.3 | 0.65 | 54.0 | |
| Crude petroleum extraction (1) | Z21112 | 8.1 | 0.00 | 15.4 | 0.00 | | |
| Natural gas extraction | Z21113 | 9.5 | 4.18 | 14.1 | 6.34 | 70.7 | 11.04 |
| Manufacturing Manufacturing | ZMANU | 0.4 | 0.15 | 1.2 | 0.23 | | 0.40 |
| Manufacturing, part 1 | Z31 | 0.3 | 0.25 | 0.5 | 0.45 | 4.6 | |
| Food manufacturing Grain and oilseed milling | Z311 | 0.7 | 0.57 | 1.6 | 1.06 | | _ |
| Starch and vegetable fats and oils manufacturing | Z3112 | 2.1 | 1.44 | 4.0 | 2.69 | | |
| Soybean and other oilseed processing | Z31122 Z311224 | 1.5 1.6 | 1.36 1.41 | 3.3 | 3.60 | | |
| Sugar and confectionery product manufacturing | | | | | | | |
| Animal slaughtering and processing | Z3113 Z3116 | 0.7 1.4 | 0.77 0.65 | 2.0 3.3 | 1.33 | 8.0 8.6 | |
| Animal (except poultry) slaughtering | Z311611 | | 0.65 | 3.4 | 1.49 | 9.1 | 2.52 |
| Seafood product preparation and packaging | Z311611 | 1.5 1.4 | 0.70 | 3.4 | 1.06 | | |
| Other food manufacturing | Z3117 Z3119 | 0.7 | 1.19 | 1.7 | 2.18 | | |
| Beverage and tobacco product manufacturing | Z312 | 0.7 | 0.16 | 0.2 | 0.36 | 1.5 | |
| Beverage manufacturing (Dec. 2009=100) | Z3121 | 0.1 | 0.15 | 0.2 | 0.34 | 1.4 | |
| Breweries (Dec. 2006=100) | Z31212 | 0.1 | 0.05 | 0.2 | 0.13 | | |
| Wineries | Z31212 | 0.1 | | 0.6 | | | |
| Distilleries | Z31214 | 0.2 | 0.18 | 0.5 | 0.33 | | |
| Textile mills (Dec. 2011=100) | Z313 | 0.3 | 0.30 | 1.0 | 1.14 | 20.0 | |
| Fabric mills | Z3132 | 0.2 | 0.31 | 0.5 | 0.74 | 11.3 | |
| Textile product mills | Z314 | 0.3 | 0.44 | 0.8 | 0.99 | | |
| Textile furnishings mills | Z3141 | 0.3 | 0.46 | 0.3 | 0.76 | | |
| Curtain and linen mills | Z31412 | 0.2 | 0.33 | 0.5 | 0.77 | 1.9 | |
| Other textile product mills (Dec. 2006=100) | Z3149 | 0.8 | 0.75 | 1.8 | 1.79 | 4.2 | |
| All other textile product mills (Dec. 2012=100) | Z31499 | 0.9 | 0.81 | 2.2 | 1.95 | 4.8 | 4.54 |
| Apparel manufacturing | Z315 | 0.3 | 0.21 | 1.0 | 0.46 | 3.5 | 1.10 |
| Cut and sew apparel manufacturing (Dec. 2009=100) | Z3152 | 0.4 | 0.21 | 1.0 | 0.45 | 3.5 | 1.12 |
| Men and boys cut and sew apparel manufacturing | Z31522 | 0.5 | 0.38 | 0.9 | 0.61 | 5.0 | 1.45 |
| Women and girls cut and sew apparel manufacturing (Dec. 2013=100) | Z31524 | 0.2 | 0.21 | 0.9 | 0.51 | 2.1 | 1.33 |
| Apparel accessories and other apparel manufacturing | Z3159 | 0.3 | 0.47 | 0.6 | 0.89 | 1.8 | 2.35 |
| Leather and allied product manufacturing | Z316 | 0.2 | 0.22 | 0.3 | 0.48 | 1.5 | 1.03 |
| Footwear manufacturing | Z3162 | 0.1 | 0.25 | 0.3 | 0.40 | 0.8 | 1.06 |
| Manufacturing, part 2 | Z32 | 1.4 | 0.46 | 3.9 | 0.74 | 13.4 | 1.42 |
| Wood product manufacturing | Z321 | 4.4 | 2.74 | 13.0 | 5.05 | 15.5 | 11.60 |
| Paper manufacturing | Z322 | 1.2 | 0.94 | 2.7 | 1.38 | 8.3 | 3.31 |
| Pulp, paper, and paperboard mills | Z3221 | 2.2 | 1.86 | 4.7 | 3.02 | 18.7 | 5.64 |
| Converted paper product manufacturing | Z3222 | 0.2 | 0.34 | 0.6 | 0.78 | 0.8 | |
| Petroleum and coal products manufacturing | Z324 | 4.3 | 2.21 | 11.1 | 2.68 | | |
| Chemical manufacturing | Z325 | 0.9 | 0.37 | 2.5 | 0.57 | 8.8 | |
| Basic chemical manufacturing | Z3251 | 2.2 | 0.71 | 5.5 | 1.18 | | 3.79 |
| Other basic organic chemical manufacturing | Z32519 | 0.6 | 0.80 | 1.8 | 1.14 | 9.9 | |
| All other basic organic chemical manufacturing | Z325199 | 0.5 | 0.59 | 1.6 | 0.99 | | 2.03 |
| Pesticide, fertilizer, other agricult. chemical manufacturing (Dec. 2007=100) | Z3253 | 4.6 | 1.93 | 10.9 | 5.60 | | |
| Pharmaceutical and medicine manufacturing | Z3254 | 0.2 | 0.15 | 1.0 | 0.49 | | |
| Pharmaceutical preparation manufacturing | Z325412 | 0.4 | 0.25 | 1.5 | 0.73 | | |
| Biological product (except diagnostic) manufacturing | Z325414 | 0.1 | 0.17 | 0.5 | 0.81 | 0.5 | 1.61 |
| Soap, cleaning compound, and toilet preparation manufacturing (3) | Z3256 | 0.6 | 0.54 | - | - | - | - |
| Toilet preparation manufacturing (3) | Z32562 | 0.9 | | | - | - | - |
| Other chemical product and preparation manufacturing (Dec. 2006=100) | Z3259 | 0.5 | | 1.0 | | | |
| All other chemical product and prep. manufacturing (Dec. 2016=100) | Z32599 | 0.8 | 0.56 | 1.5 | 1.33 | 3.2 | 2.8 |

| Table 3. Variances for U.S. import price indexes for industries: January | 2022-Decem | ber 2022 | | | | | |
|---|-------------------|----------|------|-------|--------|------------|-------|
| Plastics and rubber products manufacturing | Z326 | 0.3 | 0.34 | 1.0 | 0.52 | 5.3 | 1.61 |
| Plastics product manufacturing | Z3261 | 0.3 | 0.34 | 0.3 | 0.73 | 2.8 | 2.11 |
| Plastics packaging materials and film and sheet manufacturing | Z32611 | 0.7 | 0.59 | 1.5 | 1.05 | 9.7 | 2.66 |
| Unlaminated plastics film and sheet (except packaging) manufacturing | Z326113 | 0.7 | 0.61 | 1.6 | 1.11 | 10.4 | 2.72 |
| Other plastics product manufacturing | Z32619 | 0.2 | 0.32 | 0.4 | 0.94 | 0.8 | 2.67 |
| Rubber product manufacturing | Z3262 | 0.9 | 0.33 | 2.0 | 0.58 | 10.8 | 2.03 |
| Tire manufacturing | Z32621 | 0.8 | | 2.3 | 0.64 | 13.6 | 2.49 |
| Nonmetallic mineral product manufacturing | Z327 | 0.3 | 0.31 | 1.0 | 0.76 | 5.7 | 1.66 |
| Other nonmetallic mineral product manufacturing | Z3279 | 0.5 | | 1.5 | 1.60 | 10.8 | 3.92 |
| All other nonmetallic mineral product manufacturing | Z32799 | 0.5 | | 1.6 | | 11.1 | 4.65 |
| Manufacturing, part 3 | Z33 | 0.5 | 0.12 | 1.2 | 0.20 | 3.9 | 0.33 |
| Primary metal manufacturing ⁽²⁾ | Z331 | 3.3 | | 5.8 | 0.89 | 5.1 | 1.45 |
| Iron and steel mills and ferroalloy manufacturing | Z3311 | 2.5 | | 6.3 | 2.61 | 22.9 | 5.36 |
| Alumina and aluminum production and processing ⁽²⁾ | Z3313 | 3.1 | 0.78 | 11.4 | 2.12 | 20.8 | 2.95 |
| Alumina refining and primary aluminum production (2) | Z331313 | 4.5 | | 11.1 | 0.15 | 19.2 | 0.52 |
| Nonferrous metal (except aluminum) production and processing (2) | Z331313 | | | 5.6 | | 5.1 | 2.06 |
| Nonferrous metal (except aluminum) smelting and refining (2) | | 3.5 | | | 0.94 | | |
| Nonferrous metal products manufacturing, not made from copper or aluminum (2,3) | Z33141 | 1.9 | | 6.6 | 0.25 | 16.1 | 0.31 |
| | Z33149 | 4.1 | 0.73 | - 1.0 | - 0.00 | - | - |
| Fabricated metal product manufacturing | Z332 | 0.7 | 0.59 | 1.9 | 0.88 | 9.7 | 2.08 |
| Cutlery and handtool manufacturing | Z3322 | 0.4 | 0.30 | 0.5 | 0.66 | 6.0 | 2.35 |
| Metal kitchen cookware, utensil, cutlery, and flatware manufacturing | Z332215 | 0.3 | | 0.8 | 0.96 | 6.6 | 3.77 |
| Hardware manufacturing | Z3325 | 0.4 | 0.34 | 1.7 | 0.93 | 8.5 | 1.95 |
| Machine shops; and screw, nut, and bolt manufacturing (Dec. 2012=100) | Z3327 | 1.5 | | 7.2 | 4.12 | 20.8 | 10.11 |
| Other fabricated metal product manufacturing | Z3329 | 0.4 | 0.46 | 1.2 | 1.42 | 6.6 | 1.85 |
| Metal valve manufacturing | Z33291 | 0.2 | 0.34 | 1.4 | 0.95 | 5.2 | 1.36 |
| Industrial valve manufacturing | Z332911 | 0.4 | 0.41 | 0.8 | 0.82 | 2.9 | 1.67 |
| All other fabricated metal product manufacturing | Z33299 | 0.5 | 0.66 | 1.0 | 2.24 | 7.3 | 3.22 |
| Machinery manufacturing | Z333 | 0.3 | 0.14 | 0.8 | 0.34 | 4.0 | 0.77 |
| Agriculture, construction, and mining machinery manufacturing | Z3331 | 0.4 | 0.24 | 1.9 | 0.43 | 7.8 | 1.46 |
| Agricultural implement manufacturing (Dec. 2016=100) | Z33311 | 0.2 | 0.10 | 1.2 | 0.61 | 4.1 | 1.59 |
| Farm machinery and equipment manufacturing | Z333111 | 0.1 | 0.09 | 0.7 | 0.62 | 4.2 | 1.74 |
| Construction machinery manufacturing | Z33312 | 0.6 | 0.31 | 2.1 | 0.51 | 9.9 | 1.92 |
| Industrial machinery manufacturing | Z3332 | 0.3 | 0.30 | 0.5 | 0.52 | 1.2 | 1.41 |
| Other industrial machinery manufacturing | Z333249 | 0.2 | 0.31 | 0.5 | 0.75 | 1.0 | 1.46 |
| Commercial and service industry machinery manufacturing | Z3333 | 0.3 | 0.29 | 0.7 | 0.62 | 1.2 | 2.16 |
| Optical instrument and lens manufacturing ⁽³⁾ | Z333314 | 0.0 | 0.01 | - | - | - | - |
| Other commercial and service industry machinery manufacturing | Z333318 | 0.5 | 0.57 | 1.0 | 1.19 | 2.0 | 3.17 |
| Ventilation, heating, air-conditioning, and commercial refrigeration equipment | Z3334 | 0.1 | 0.35 | 0.8 | 1.92 | 6.2 | 4.63 |
| Air-conditioning, heating, & industrial refrigeration equipment manufacturing | Z333415 | 0.3 | 0.31 | 1.1 | 0.97 | 6.7 | 5.64 |
| Metalworking machinery manufacturing | Z3335 | 0.5 | | 1.0 | 0.75 | 6.6 | 2.80 |
| Machine tool manufacturing | Z333517 | 0.5 | | 1.6 | | 7.6 | 2.21 |
| Engine, turbine, and power transmission equipment manufacturing | Z3336 | 0.3 | | 0.6 | | 1.7 | 1.81 |
| Other engine equipment manufacturing | Z333618 | 0.2 | | 1.0 | 0.50 | 3.3 | 1.01 |
| Other general purpose machinery manufacturing | Z3339 | 0.4 | 0.30 | 1.0 | | 3.0 | 0.93 |
| Pump and compressor manufacturing (Dec. 2013=100) | Z3339 Z33391 | 0.4 | 0.30 | 1.0 | 0.51 | 3.0 4.2 | 1.88 |
| Measuring, dispensing, and other pumping equipment manufacturing | Z33391 Z333914 | 0.4 | | 0.7 | 1.02 | 4.2 2.5 | 1.88 |
| Material handling equipment manufacturing | | | | | | | |
| All other general purpose machinery manufacturing | Z33392 | 0.2 | 0.34 | 1.0 | | 4.7 | 1.70 |
| | Z33399 | 0.3 | | 0.9 | 0.72 | 2.0 | 1.65 |
| All other miscellaneous general purpose machinery manufacturing | Z333999 | 0.3 | 0.69 | 0.3 | 1.24 | 0.8 | 2.87 |
| Computer and electronic product manufacturing | Z334 | 0.1 | 0.15 | 0.4 | 0.39 | 1.9 | 0.65 |
| Computer and peripheral equipment manufacturing | Z3341 | 0.2 | 0.22 | 0.7 | 0.62 | 2.1 | 1.14 |
| Electronic computer manufacturing (3) | Z334111 | 0.2 | 0.29 | - | - | - | - |
| Computer terminal and other computer peripheral equipment manufacturing | Z334118 | 0.4 | 0.21 | 1.0 | | 3.0 | 1.06 |
| Communications equipment manufacturing | Z3342 | 0.1 | 0.16 | 0.3 | 0.31 | 0.9 | 1.58 |
| Audio and video equipment manufacturing | Z3343 | 0.2 | 0.57 | 1.2 | 1.85 | 1.5 | 3.02 |
| Semiconductor and other electronic component manufacturing | Z3344 | 0.3 | 0.39 | 1.0 | 0.80 | 4.6 | 1.83 |
| Semiconductor and related devices manufacturing | Z334413 | 0.6 | 0.48 | 2.1 | 1.08 | 6.9 | 2.27 |
| Printed circuit assembly (electonric assembly) manufacturing | Z334418 | 0.8 | 0.70 | 1.2 | 1.33 | 5.3 | 2.28 |
| Navigational, measuring, electromedical, and control instruments | Z3345 | 0.2 | 0.25 | 0.6 | 0.56 | 2.2 | 1.11 |
| Electromedical and electrotherapeutic apparatus manufacturing | Z334510 | 0.1 | 0.13 | 0.5 | 0.42 | 0.7 | 1.84 |
| Instrument manufacturing for measuring and testing electricity | Z334515 | 0.8 | 0.53 | 2.6 | 1.28 | 8.9 | 4.64 |
| Analytical laboratory instrument manufacturing | Z334516 | 0.5 | 0.48 | 1.0 | 1.13 | 1.9 | 3.33 |
| | | | | | | | |

| Blank magnetic and optical recording media manufacturing | Z334613 | 0.9 | 0.51 | 1.7 | 1.10 | 5.8 | 2 |
|---|--------------------|-----|------|-----|------|------|---|
| Electrical equipment, appliance, and component manufacturing | Z335 | 0.2 | 0.29 | 0.5 | 0.56 | 6.3 | |
| Electric lighting equipment manufacturing | Z3351 | 0.2 | 0.36 | 0.5 | 0.80 | 4.2 | |
| Lighting fixture manufacturing | Z33512 | 0.3 | 0.29 | 0.6 | 0.65 | 5.1 | |
| Other lighting equipment manufacturing | Z335129 | 0.1 | 0.16 | 1.0 | 0.63 | 5.0 | |
| Household appliance manufacturing | Z3352 | 0.6 | 0.10 | 1.5 | 0.70 | 9.6 | |
| Small electrical appliance manufacturing | Z33521 | 0.0 | 0.27 | 0.5 | 0.70 | 4.6 | |
| Major household appliance manufacturing | Z33522 | 0.1 | 0.31 | 2.8 | 0.70 | 13.9 | |
| Electrical equipment manufacturing (Dec. 2017=100) | Z3353 | 0.8 | 0.61 | 1.9 | 1.48 | 5.7 | |
| Motor and generator manufacturing | Z335312 | 0.3 | 0.35 | 0.9 | 1.32 | 3.5 | |
| Switchgear and switchboard apparatus manufacturing (3) | Z335312 Z335313 | 0.3 | 0.33 | - | 1.02 | 5.5 | |
| Communication and energy wire and cable manufacturing | Z33592 | 0.3 | 0.49 | 1.6 | 1.36 | 8.1 | |
| Other communication and energy wire manufacturing | Z335929 | 0.3 | 0.54 | 1.7 | 1.50 | 9.2 | |
| Transportation equipment manufacturing | Z333929 Z336 | 0.3 | 0.09 | 0.8 | 0.24 | 2.7 | |
| Motor vehicle manufacturing | Z3361 | 0.2 | 0.09 | 0.8 | 0.24 | 2.4 | |
| Automobile and light duty motor vehicle manufacturing | Z33611 | 0.2 | 0.10 | 0.8 | 0.34 | 2.3 | |
| Automobile manufacturing | Z336111 | 0.2 | 0.10 | 0.8 | 0.34 | 2.5 | - |
| Heavy duty truck manufacturing (Dec. 2015=100) | Z33612 | 0.0 | 0.09 | 0.9 | 0.09 | 3.5 | |
| Motor vehicle parts manufacturing | Z3363 | 0.0 | 0.04 | 0.5 | 0.09 | 3.4 | |
| Motor vehicle gasoline engine and engine parts manufacturing | Z33631 | 0.4 | 0.19 | 1.0 | 0.46 | 2.2 | |
| Motor vehicle electrical and electronic equipment manufacturing | Z33632 | 0.4 | 0.21 | 0.8 | 0.47 | 3.3 | - |
| Motor vehicle brake system manufacturing | Z33634 | 0.7 | 0.20 | 1.2 | 1.28 | 8.6 | |
| Motor vehicle transmission and power train parts manufacturing | Z33635 | 0.4 | 0.71 | 0.6 | 0.50 | 3.5 | |
| Motor vehicle seating and interior trim manufacturing (3) | Z33636 | 0.2 | 0.24 | 0.0 | 0.50 | 3.3 | |
| Other motor vehicle parts manufacturing | Z33639 | 0.2 | 0.36 | 0.7 | 1.14 | 3.4 | |
| Aerospace product and parts manufacturing | Z3364 | 0.2 | 0.30 | 1.3 | 0.45 | 3.3 | |
| Aircraft engines and engine parts manufacturing | Z336412 | 0.3 | 0.14 | 0.9 | 0.43 | 3.9 | |
| Other transportation equipment manufacturing | Z3369 | 0.3 | 0.14 | 0.8 | 1.25 | 2.8 | |
| Motorcycle, bicycle, and parts manufacturing | Z336991 | 0.5 | 0.62 | 1.0 | 1.59 | 2.4 | |
| Furniture and related product manufacturing | Z337 | 0.4 | 0.02 | 1.7 | 0.84 | 7.9 | |
| Household and institutional furniture and kitchen cabinet manufacturing | Z3371 | 0.4 | 0.30 | 1.9 | 1.07 | 8.8 | |
| Upholstered household furniture manufacturing | Z337121 | 0.2 | 0.25 | 0.8 | 0.60 | 1.8 | |
| Nonupholstered wood household furniture manufacturing | Z337122 | 0.5 | 0.23 | 2.9 | 1.78 | 10.3 | |
| Institutional furniture manufacturing (3) | Z337127 | 0.6 | 0.43 | - | - | - | |
| Office furniture (including fixtures) manufacturing | Z3372 | 0.3 | 0.33 | 1.1 | 0.84 | 5.3 | |
| Showcase, partition, shelving, and locker manufacturing (3) | Z337215 | 0.1 | 0.28 | - | - | - | |
| Miscellaneous manufacturing | Z339 | 0.1 | 0.43 | 1.2 | 0.82 | 4.9 | |
| Medical equipment and supplies manufacturing | Z3391 | 0.4 | 0.40 | 1.5 | 0.95 | 1.8 | |
| Surgical and medical instrument manufacturing | Z339112 | 0.2 | 0.22 | 0.7 | 0.57 | 1.0 | |
| Surgical appliance and supplies manufacturing | Z339113 | 0.7 | 0.67 | 2.1 | 1.88 | 4.4 | |
| Other miscellaneous manufacturing | Z3399 | 0.6 | 0.62 | 1.5 | 0.95 | 7.3 | |
| Jewelry and silverware manufacturing (2) | Z33991 | 1.2 | 1.36 | 3.7 | 2.54 | 11.6 | |
| Sporting and athletic goods manufacturing | Z33992 | 0.1 | 0.15 | 0.5 | 1.14 | 5.2 | |
| Doll, toy, and game manufacturing | Z33993 | 0.1 | 0.13 | 1.6 | 1.59 | 3.8 | |
| All other miscellaneous manufacturing | Z33999 Z33999 | 0.3 | 0.33 | 0.5 | 0.72 | 4.0 | |
| All other miscellaneous manufacturing | Z33999 Z339999 | 0.2 | 0.33 | 0.5 | 0.72 | 1.1 | |

⁽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 can have low standard error

⁽³⁾ Index was not published in the previous year. Estimates using prior year index values are excluded.

| Table 4. Variances for U.S. export price indexes for industries: January 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 ⁽²⁾ | YNONMANU | 5.1 | 0.76 | 10.5 | 1.25 | 37.2 | 2.46 |
| Agriculture, forestry, fishing and hunting (2) | Y11 | 3.1 | 0.50 | 7.7 | 0.98 | 17.5 | 1.93 |
| Crop production ⁽²⁾ | Y111 | 3.4 | 0.53 | 7.8 | 0.91 | 18.5 | 2.07 |
| Oilseed and grain farming ⁽²⁾ | Y1111 | 4.4 | 0.14 | 9.5 | 0.27 | 18.1 | 0.47 |
| Soybean farming ^(1,2) | Y11111 | 4.8 | 0.00 | 7.9 | 0.00 | 15.8 | 0.00 |
| Wheat farming ^(1,2) | Y11114 | 3.6 | 0.00 | 13.0 | 0.00 | 28.5 | 0.00 |
| Corn farming ⁽²⁾ | Y11115 | 4.7 | 0.11 | 8.9 | 0.52 | 17.9 | t e |
| Fruit and tree nut farming (Dec. 2006=100) | Y1113 | 1.6 | 2.48 | 3.8 | 3.34 | 5.4 | 4.3 |
| Noncitrus fruit and tree nut farming (Dec. 2007=100) | Y11133 | 2.2 | 2.62 | 3.6 | 3.57 | 5.5 | |
| Tree nut farming | Y111335 | 1.6 | | 5.4 | 2.13 | 6.4 | 1 |
| Other crop farming | Y1119 | 3.4 | 0.75 | 8.7 | 1.97 | 38.4 | 1 |
| Cotton farming (Dec. 2007=100) | Y11192 | 4.0 | 0.90 | 10.3 | 2.09 | | |
| Mining (2) | Y21 | 6.7 | 1.04 | 12.5 | 1.72 | | 1 |
| Oil and gas extraction ^(2,3) | Y211 | 7.2 | 0.98 | - | 1.72 | - 02.0 | |
| Crude petroleum extraction (1,3) | Y21112 | 7.2 | 0.96 | | | _ | |
| Natural gas extraction (3) | Y21112 Y21113 | 12.1 | 2.52 | - | - | <u> </u> | |
| Mining (except oil and gas) | | | | - 44.4 | 4.40 | 40.0 | 10.0 |
| Coal mining | Y212 | 4.0 | 2.26 | 14.4 | 4.43 | 49.9 | |
| | Y2121 | 3.3 | | 18.4 | 6.68 | | |
| Metal ore mining (Dec. 2012=100) | Y2122 | 3.6 | | 6.7 | 2.16 | 16.9 | |
| Manufacturing | YMANU | 1.6 | | 2.9 | 0.31 | 10.6 | |
| Manufacturing, part 1 | Y31 | 0.8 | | 1.7 | 0.84 | 9.9 | |
| Food manufacturing | Y311 | 1.0 | | 1.6 | 1.02 | 11.4 | |
| Grain and oilseed milling | Y3112 | 2.3 | | 5.1 | 2.49 | | |
| Starch and vegetable fats and oils manufacturing | Y31122 | 2.6 | 1.39 | 4.9 | 2.35 | 19.2 | - |
| Soybean and other oilseed processing | Y311224 | 2.7 | 1.77 | 6.7 | 2.86 | 21.7 | 6.18 |
| Fruit and vegetable preserving and specialty food manufacturing | Y3114 | 0.9 | 0.71 | 6.2 | 2.92 | 10.4 | 5.02 |
| Animal slaughtering and processing | Y3116 | 0.8 | 0.84 | 1.9 | 1.60 | 8.2 | 2.69 |
| Animal (except poultry) slaughtering | Y311611 | 0.8 | 0.83 | 1.3 | 1.56 | 9.3 | 3.04 |
| Other food manufacturing (Dec. 2014=100) | Y3119 | 0.6 | 0.54 | 1.2 | 1.54 | 3.1 | 2.42 |
| All other food manufacturing (Dec. 2017=100) | Y31199 | 0.6 | 0.64 | 0.8 | 1.35 | 0.8 | 2.73 |
| Beverage and tobacco product manufacturing | Y312 | 0.8 | 0.83 | 3.0 | 2.46 | 5.8 | 2.44 |
| Beverage manufacturing (Dec. 2009=100) | Y3121 | 0.9 | 0.88 | 3.4 | 2.62 | 6.2 | 2.65 |
| Manufacturing, part 2 | Y32 | 3.5 | 0.37 | 6.9 | 0.72 | 22.0 | 1.58 |
| Wood product manufacturing (Dec. 2017=100) | Y321 | 1.7 | 1.53 | 5.2 | 3.51 | 11.5 | 6.78 |
| Paper manufacturing | Y322 | 1.6 | 0.77 | 3.4 | 0.91 | 14.5 | 1.98 |
| Pulp, paper, and paperboard mills | Y3221 | 2.0 | 1.34 | 4.7 | 1.65 | 19.5 | 4.09 |
| Converted paper product manufacturing (Dec. 2014=100) | Y3222 | 0.8 | 0.49 | 2.2 | 0.87 | 8.4 | 2.76 |
| Petroleum and coal products manufacturing (2) | Y324 | 12.1 | 0.68 | 17.6 | 0.93 | 58.8 | 2.31 |
| Chemical manufacturing | Y325 | 0.9 | 0.57 | 2.4 | 1.10 | 3.9 | 2.17 |
| Basic chemical manufacturing | Y3251 | 1.4 | 0.80 | 4.5 | 1.84 | 11.1 | 3.21 |
| Other basic inorganic chemical manufacturing | Y32518 | 0.8 | | 5.6 | 2.29 | 18.0 | |
| Other basic organic chemical manufacturing (Dec. 2017=100) | Y32519 | 0.9 | | 5.2 | 1.96 | | t |
| Resin, synthetic rubber, and artificial synthetic fibers and filaments | Y3252 | 2.1 | 1.26 | 5.6 | 2.43 | | |
| Resin and synthetic rubber manufacturing (Dec. 2014=100) | Y32521 | 2.2 | 1.28 | 5.8 | 2.25 | | i |
| Plastics material and resin manufacturing | Y325211 | 2.6 | | 6.4 | 1.98 | | - |
| Pesticide, fertilizer, and other agricultural chemical manufacturing | Y3253 | 1.0 | 0.96 | 10.7 | 3.87 | 45.5 | - |
| Pharmaceutical and medicine manufacturing | Y3254 | 0.3 | | 0.6 | 0.72 | 2.0 | i |
| Pharmaceutical preparation manufacturing | Y325412 | 0.3 | 0.23 | 0.6 | 0.72 | | |
| In-vitro diagnostic substance manufacturing | Y325412 | 0.1 | | 1.0 | 0.69 | 1.1 | |
| Biological product (except diagnostic) manufacturing (3) | Y325413 | 0.3 | 0.27 | 1.0 | 0.04 | 1.1 | 4.2 |
| Paint, coating, and adhesive manufacturing (3) | | | | - | - | <u> </u> | |
| Soap, cleaning compound, and toilet preparation manufacturing | Y3255 | 0.5 | | - 4.0 | - 4.00 | | - |
| | Y3256 | 0.2 | 0.20 | 1.3 | 1.22 | 7.3 | |
| Soap and cleaning compound manufacturing | Y32561 | 0.3 | | 1.1 | 1.76 | | † |
| Toilet preparation manufacturing | Y32562 | 0.3 | | 0.4 | 0.76 | | |
| Plastics and rubber products manufacturing | Y326 | 0.4 | 0.43 | 1.4 | 1.04 | 8.6 | 2.1 |
| Plastic packing materials & unlaminated film and sheet manufacturing (3) | Y32611 | 0.9 | 0.60 | - | - | - | - |
| Unlaminated plastic film and sheet (except packing) manufacturing ⁽³⁾ | Y326113 | 0.8 | 0.72 | | - | - | |
| Rubber product manufacturing (Dec. 2006=100) | Y3262 | 0.4 | 0.45 | 1.4 | 1.02 | 6.0 | 3.1 |
| Nonmetallic mineral product manufacturing | Y327 | 0.7 | 0.54 | 3.5 | 0.90 | 8.6 | 2.8 |

| Table 4. Variances for U.S. export price indexes for industries: January 2 Glass and glass product manufacturing (3) | Y3272 | 0.2 | 0.39 | _ | - | - | - |
|---|---------|-----|-------|-----|------|------|-----|
| Manufacturing, part 3 | Y33 | 0.3 | 0.17 | 0.5 | 0.38 | 4.9 | 0.5 |
| Primary metal manufacturing | Y331 | 2.5 | 0.77 | 4.7 | 1.78 | 5.0 | 3.8 |
| Alumina and aluminum production and processing (Dec. 2009=100) | Y3313 | 3.6 | 0.73 | 6.8 | 1.72 | 15.7 | 3.1 |
| Nonferrous metal (except aluminum) production and processing (2) | Y3314 | 3.2 | 1.33 | 5.2 | 2.27 | 5.1 | 2.2 |
| | | | | | | | |
| Nonferrous metal (except copper and aluminum) rolling, drawing, extruding, and alloying (2) | Y33149 | 3.6 | 1.56 | | 2.72 | 5.6 | |
| Primary nonferrous metal rolling and drawing production and processing | Y331491 | 2.3 | 2.61 | 2.2 | 3.77 | 7.0 | 5.5 |
| Secondary smelting, refining, and alloying of nonferrous metal (2,3) | Y331492 | 3.4 | 1.59 | - | - | - | - |
| Fabricated metal product manufacturing | Y332 | 0.3 | 0.41 | 1.5 | 1.05 | 8.2 | 2.5 |
| Machinery manufacturing | Y333 | 0.3 | 0.20 | 1.3 | 0.42 | 6.4 | 0.7 |
| Agriculture, construction, and mining machinery manufacturing | Y3331 | 0.3 | 0.27 | 1.5 | 0.59 | 7.2 | 1.2 |
| Agricultural implement manufacturing (Dec. 2017=100) | Y33311 | 0.3 | 0.24 | 1.3 | 0.94 | 5.1 | 1.6 |
| Farm machinery and equipment manufacturing | Y333111 | 0.1 | 0.25 | 1.2 | 1.03 | 4.7 | 1.7 |
| Construction machinery manufacturing | Y33312 | 0.3 | 0.23 | 1.6 | 0.66 | 7.8 | 1.5 |
| Commercial and service industry machinery manufacturing | Y3333 | 0.2 | 0.25 | 2.3 | 0.77 | 8.7 | 2.8 |
| Metalworking machinery manufacturing | Y3335 | 0.1 | 0.19 | 1.1 | 1.08 | 9.4 | 4.8 |
| Engine, turbine, and power transmission equipment manufacturing | Y3336 | 0.7 | 0.37 | 1.4 | 0.66 | 2.7 | 2.4 |
| Other engine equipment manufacturing | Y333618 | 0.5 | 0.36 | 1.6 | 0.48 | 6.0 | 1.2 |
| Other general purpose machinery manufacturing | Y3339 | 0.4 | 0.36 | 1.4 | 0.77 | 8.9 | 1.6 |
| All other general purpose machinery manufacturing | Y33399 | 0.4 | 0.44 | 1.3 | 0.89 | 8.8 | 2.5 |
| All other miscellaneous general purpose machinery manufacturing (3) | Y333999 | 0.4 | 0.47 | - | - | - | - |
| Computer and electronic product manufacturing | Y334 | 0.3 | 0.25 | 0.9 | 0.41 | 2.7 | 0.8 |
| Computer and peripheral equipment manufacturing | Y3341 | 0.7 | 0.42 | 2.5 | 0.83 | 5.8 | 1.5 |
| Electronic computer manufacturing | Y334111 | 1.2 | 0.89 | 2.3 | 1.25 | 3.5 | 2.0 |
| Communications equipment manufacturing | Y3342 | 0.2 | 0.18 | 0.7 | 0.41 | 1.7 | 1.0 |
| Radio and TV broadcasting and wireless equipment (Dec. 2009=100) | Y33422 | 0.2 | 0.16 | 0.6 | 0.35 | 1.3 | 0.9 |
| Semiconductor and other electronic component manufacturing | Y3344 | 0.5 | 0.19 | 0.8 | 0.43 | 3.2 | 1.2 |
| Semiconductor and related device manufacturing | Y334413 | 0.5 | 0.22 | 0.9 | 0.51 | 1.8 | 1.2 |
| Navigational, measuring, electromedical, and control instruments | Y3345 | 0.3 | 0.26 | 0.7 | 0.82 | 2.4 | 1.5 |
| Electromedical and electrotherapeutic apparatus manufacturing | Y334510 | 0.2 | 0.13 | 0.4 | 0.31 | 0.7 | 3.0 |
| Instruments and related products manufacturing | Y334513 | 0.9 | 0.90 | 3.0 | 1.40 | 8.5 | 4.7 |
| Analytical laboratory instrument manufacturing | Y334516 | 0.7 | 0.46 | 1.7 | 1.09 | 4.3 | 2.4 |
| Electrical equipment, appliance, and component manufacturing | Y335 | 0.3 | 0.28 | 1.3 | 0.70 | 8.4 | 1.5 |
| Electrical equipment manufacturing | Y3353 | 0.3 | 0.49 | 0.9 | 1.58 | 7.8 | 2.5 |
| Motor and generator manufacturing | Y335312 | 0.4 | 0.22 | 2.1 | 1.11 | 14.1 | 3.9 |
| Other electrical equipment and component manufacturing | Y3359 | 0.4 | 0.26 | 1.5 | 0.59 | 8.2 | 2.0 |
| Wiring device manufacturing | Y33593 | 0.1 | 0.02 | 0.5 | 0.75 | 7.7 | 6.0 |
| Current-carrying wiring device manufacturing | Y335931 | 0.1 | 0.02 | 0.6 | 0.78 | 8.3 | 5.8 |
| Transportation equipment manufacturing | Y336 | 0.3 | 0.09 | 1.1 | 0.20 | 4.1 | 0.5 |
| Motor vehicle manufacturing | Y3361 | 0.1 | 0.04 | 0.5 | 0.11 | 1.5 | 0.1 |
| Automobile and light duty motor vehicle manufacturing | Y33611 | 0.1 | 0.04 | 0.4 | 0.10 | 1.3 | 0.1 |
| Automobile manufacturing | Y336111 | 0.0 | 0.02 | 0.3 | 0.13 | 1.1 | 0.2 |
| Light truck and utility vehicle manufacturing | Y336112 | 0.1 | 0.05 | 0.9 | 0.18 | 2.2 | 0.3 |
| Heavy duty truck manufacturing | Y33612 | 0.2 | 0.11 | 1.1 | 0.36 | 2.8 | 0.6 |
| Motor vehicle body and trailer manufacturing (Dec. 2013=100) | Y3362 | 0.4 | 0.58 | 1.4 | 1.31 | 8.3 | 3.3 |
| Motor vehicle body manufacturing | Y336211 | 0.5 | 0.69 | 1.0 | 1.61 | 3.3 | |
| Motor vehicle parts manufacturing | Y3363 | 0.5 | 0.34 | 1.7 | 0.62 | 7.5 | 1.5 |
| Motor vehicle electrical and electronic equipment manufacturing (Dec. 2008=100) | Y33632 | 0.5 | 0.40 | 1.4 | 0.86 | | |
| Other motor vehicle parts manufacturing | Y33639 | 0.3 | 0.33 | 2.5 | 0.98 | 8.1 | 3.7 |
| Aerospace product and parts manufacturing | Y3364 | 0.2 | 0.07 | 0.9 | 0.19 | 3.1 | 0.4 |
| Other aircraft parts and auxiliary equipment manufacturing | Y336413 | 0.1 | 0.11 | 0.8 | 0.25 | 3.7 | 1.3 |
| Miscellaneous manufacturing | Y339 | 0.4 | 0.26 | | 0.70 | 8.2 | 1.8 |
| Medical equipment and supplies manufacturing | Y3391 | 0.2 | 0.28 | 0.6 | 0.61 | 2.4 | 1.5 |
| Surgical and medical instrument manufacturing | Y339112 | 0.3 | 0.42 | 1.2 | 0.96 | | 2.5 |
| Surgical appliance and supplies manufacturing | Y339113 | 0.7 | 0.52 | 0.9 | 0.66 | | |
| Other miscellaneous manufacturing (Dec. 2013=100) (2) | Y3399 | 0.6 | 0.42 | 2.9 | 1.22 | 13.9 | 3.8 |
| Jewelry and silverware manufacturing (2) | | 0.0 | J. 12 | 2.2 | 1.74 | 10.0 | 5.3 |

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 can have low standard error
- (3) Index was not published in the previous year. Estimates using prior year index values are excluded.

| Table 5. Variances for U.S. import price indexes for categories of goods | : January 20 | 22–Decemb | per 2022 | | | | |
|--|---------------------------|--|--|--|--|---|---|
| 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 | PI | 1.3 | 0.55 | 3.5 | 0.85 | 3.1 | 1.42 |
| Meat and edible meat offal | P02 | 1.5 | 0.82 | 3.2 | 1.50 | 9.4 | 2.87 |
| Fish and crustaceans, molluscs and other aquatic invertebrates | P03 | 1.8 | 0.79 | 4.0 | 1.33 | 5.2 | 2.02 |
| Fish fillets and other fish meat, fresh, chilled, frzn, (Dec. 2008=100) | P0304 | 2.7 | 0.95 | 5.2 | 1.72 | 13.8 | 2.68 |
| Crustaceans, live, fresh, chilled, etc; in shell or not; cooked or uncooked | P0306 | 2.4 | 1.36 | 3.0 | 1.91 | 11.8 | 3.00 |
| Vegetable products | PII | 1.7 | 2.41 | 2.9 | 3.41 | 13.9 | |
| Edible vegetables, roots, and tubers | P07 | 2.7 | 8.29 | 7.3 | 12.20 | | 14.72 |
| Edible fruit and nuts; peel of citrus fruit or melons | P08 | 5.1 | 2.48 | 8.3 | 5.52 | | 8.92 |
| Coffee, tea, mate and spices | P09 | 2.0 | 1.53 | 3.9 | 2.24 | 28.9 | |
| Coffee, roasted or unroasted, decaf; coffee husks and skins (Dec. 2007=100) | P0901 | 1.8 | 1.77 | 4.1 | 2.40 | | |
| Animal or vegetable fats and oils (Dec. 2009=100) | PIII | 1.6 | 1.39 | 3.2 | 3.78 | | 5.19 |
| Prepared foodstuffs, beverages, and tobacco | PIV | 0.5 | 0.48 | 1.4 | 1.15 | | |
| Edible preps of meat, of fish, or of aquatic invertebrates (Dec. 2004=100) | P16 | 0.7 | 0.47 | 2.3 | 1.72 | 12.2 | 4.86 |
| Sugars and sugar confectionary (3) | P17 | 1.0 | 1.27 | - | - | - | - |
| Cocoa and cocoa preparations (Dec. 2009=100) | P18 | 0.6 | 0.29 | 1.0 | 0.96 | | 2.29 |
| Beverages, spirits, and vinegar Wine of fresh grapes, including fortified wine | P22 | 0.2 | 0.15 | 0.4 | 0.32 | 1.7 | |
| Wine of fresh grapes, including fortified wine | P2204 | 0.4 | 0.34 | 0.7 | 0.71 | 1.5 | |
| Ethyl alcohol undenatured less than 80% alcohol (Dec. 2001=100) Mineral products (2) | P2208 | 0.2 | 0.14 | 0.4 | 0.27 | 0.6 | |
| Mineral fuels, oils and residuals, bituminous substances and mineral waxes (2) | PV | 5.9 | 0.71 | 12.0 | 0.91 | 57.6 | |
| Petroleum oils and oils from bituminous minerals, crude (1) | P27 | 6.1 | 0.73 | 12.3 | 0.93 | | |
| Petroleum oils and oils from bituminous minerals, crude */ Petroleum oils (not crude), bituminous oils, & products thereof, nesoi | P2709 | 8.1 | 0.00 | 15.4 | 0.00 | | |
| Petroleum gases and other gaseous hydrocarbons | P2710 | 3.9 | 2.34 | 10.3 | 2.76 | | 6.67 |
| | P2711 | 9.5 | 4.18 | 14.1 | 6.34 | 70.7 | 11.50 |
| Products of the chemical or allied industries | PVI | 0.6 | 0.30 | 1.8 | 0.57 | 8.1 | 1.29 |
| Inorganic chemicals Organic chemicals | P28 | 1.5 | 0.76 | 3.5 | 2.89 | | |
| Organic chemicals Heterocyclic compounds with nitrogen hetero-atoms only (Dec. 2016=100) | P29 | 1.2 | | 2.4 | | | |
| Nucleic acids and their salts, other heterocyclic compounds (Dec. 2009=100) | P2933 | 0.1 | 0.26 | 1.5 | 0.88 | | |
| Pharmaceutical products | P2934 | 0.2 | 0.14 | 0.4 | 0.38 | | 2.95 |
| Human and animal blood, prep; antisera & other blood fractions (Dec. 2014=100) | P30 | 0.3 | 0.18 | 0.9 | 0.57 | 2.3 | |
| Medicaments (except vaccines, band., pharmaceuticals) (Dec. 2001=100) | P3002 P3004 | 0.1 | 0.17 | 0.5 | 0.80 | | |
| Miscellaneous chemical products | P3004 | 0.4 | 0.29 0.32 | 1.7 | 0.84 | 3.4 5.5 | |
| Plastics and articles thereof; rubber and articles thereof | PVII | 0.3 | 0.32 | 1.1 | 0.72 | | |
| Plastics and articles thereof | P39 | 0.3 | 0.41 | 0.9 | 0.00 | | |
| Plates, sheets, film, foil, and strips of plastics | P3920 | 0.3 | 0.50 | 1.3 | 1.07 | 7.6 | |
| Rubber and articles thereof | P40 | 0.7 | 0.39 | 1.1 | 1.18 | | |
| New pneumatic tires of rubber (Dec. 2004=100) | P4011 | 0.8 | 0.39 | 2.3 | 0.64 | | |
| Articles of leather; travel goods, bags, etc. of various materials | P42 | 0.2 | 0.23 | 0.9 | 0.64 | | 1.79 |
| Wood, wood charcoal, cork, straw, basketware and wickerwork | PIX | 4.1 | 2.87 | 12.4 | 5.34 | | 11.47 |
| Wood and articles of wood; wood charcoal | P44 | 4.2 | 2.92 | 12.7 | 5.36 | | 11.86 |
| Woodpulp, recovered paper, and paper products | PX | 1.0 | 1.09 | 3.2 | 1.84 | | |
| Paper and paperboard; articles of paper pulp, paper or paperboard | P48 | 0.8 | 1.19 | 2.8 | 2.20 | | |
| Textile and textile articles | PXI | 0.2 | 0.23 | 0.4 | 0.55 | 3.8 | |
| Articles of apparel and clothing accessories, not knitted or crocheted | P62 | 0.2 | 0.20 | 0.9 | 0.38 | | |
| Men or boys suits, ensembles, suit-type jackets, blazers & trousers | P6203 | 0.4 | 0.44 | 0.5 | 0.92 | 2.6 | |
| Women or girls suits, dresses, skirts; not knitted (Dec. 2017=100) | P6204 | 0.0 | 0.00 | 0.5 | 0.49 | | |
| Made-up or worn textile articles | P63 | 0.4 | 0.56 | 1.0 | 1.33 | | |
| Made-up articles of textile materials, nes (3) | P6307 | 0.7 | 0.82 | - | - | _ | _ |
| Headgear, umbrellas, artificial flowers, etc. | PXII | 0.1 | 0.24 | 0.4 | 0.40 | 0.8 | 0.92 |
| Footwear and parts of such articles | P64 | 0.1 | 0.20 | 0.2 | 0.40 | 0.9 | |
| Footwear with uppers of leathers | P6403 | 0.1 | 0.30 | 0.5 | 0.65 | 0.4 | 2.44 |
| Stone, plaster, cement, asbestos, ceramics, glass etc. | PXIII | 0.2 | 0.29 | 0.4 | 0.80 | 1.8 | 1.34 |
| Articles of stone, plaster, cement, asbestos, or mica | P68 | 0.4 | 0.40 | 0.8 | 1.02 | 2.5 | |
| Glass and glassware ⁽³⁾ | P70 | 0.3 | 0.62 | - | - | _ | - |
| Pearls, stones, precious metals, imitation jewelry, and coins ⁽²⁾ | PXIV | 2.8 | 0.63 | 4.3 | 0.98 | 2.9 | 1.15 |
| Diamonds, whether or not worked, but not mounted or set ⁽¹⁾ | P7102 | 0.4 | 0.00 | 1.7 | 0.00 | 15.2 | 0.00 |
| Silver unwrought, semi-manufactured, or powder (1,3) | P7106 | 6.2 | | | - | _ | - |
| Gold (incl plated with platinum), unwrght, semi-mfg or pwdr ⁽¹⁾ | P7108 | 2.4 | | | 0.00 | 3.7 | 0.00 |
| Platinum, unwrought, semi-mfg or powder ⁽²⁾ | P7110 | 6.3 | | 7.9 | | | |

| Table 5. Variances for U.S. import price indexes for categories of goods | 1 | | | | 1 |] | |
|---|----------------|-----|------|------|--------------|------------|------|
| Base metals and articles of base metals | PXV | 1.6 | 0.61 | 6.1 | 0.92 | 15.6 | 1.77 |
| Iron and steel | P72 | 2.8 | 1.64 | 6.5 | 2.79 | 19.7 | 6.34 |
| Articles of iron or steel | P73 | 0.6 | 0.88 | 2.3 | 1.41 | 19.1 | 3.92 |
| Screws, bolts, nuts, rivets, cotters, and washers ⁽³⁾ | P7318 | 1.6 | 1.63 | - | - | - | - |
| Copper and articles thereof | P74 | 2.1 | 0.05 | 5.3 | 0.16 | 13.3 | 0.37 |
| Aluminum and articles thereof | P76 | 2.8 | 1.16 | 8.3 | 2.14 | 16.5 | 2.04 |
| Aluminum, unwrought ⁽¹⁾ | P7601 | 4.7 | 0.00 | 11.0 | 0.00 | 18.6 | 0.00 |
| Tools, implements, cutlery, spoons and forks, of base metal; parts thereof | P82 | 0.3 | 0.28 | 0.5 | 0.71 | 3.5 | 1.57 |
| Miscellaneous articles of base metal | P83 | 0.3 | 0.36 | 1.4 | 0.65 | 7.8 | 1.67 |
| Mountings and other hardware for furniture, doors, and windows ⁽³⁾ | P8302 | 0.4 | 0.34 | - | - | - | - |
| Machinery, electrical equipment, TV image and sound recorders, parts, etc. | PXVI | 0.2 | 0.12 | 0.4 | 0.27 | 3.0 | 0.62 |
| Machinery and mechanical appliances; parts thereof | P84 | 0.2 | 0.12 | 0.4 | 0.36 | 3.2 | 0.76 |
| Spark-ignition internal combustion piston engines | P8407 | 0.4 | 0.17 | 1.0 | 0.54 | 3.0 | 0.75 |
| Parts for spark-ignition and diesel internal combustion piston engines | P8409 | 0.2 | 0.29 | 0.9 | 0.56 | 4.4 | 2.67 |
| Turbojets, turbopropellers, and other gas turbines, and parts thereof | P8411 | 0.2 | 0.16 | 0.7 | 0.39 | 3.3 | 1.83 |
| Engines & motors, nesoi, & parts thereof (Dec. 2012=100) | P8412 | 0.2 | 0.26 | 0.9 | 1.22 | 3.5 | 3.06 |
| Pumps for liquids; liquid elevators; parts thereof | P8413 | 0.2 | 0.30 | 0.2 | 0.56 | 1.3 | 1.16 |
| Air or vacuum pumps, compressors and fans; vent & recycling hoods; parts | P8414 | 0.7 | 0.36 | 2.2 | 1.31 | 5.8 | 2.83 |
| Air conditioning machines and parts thereof (Dec. 2014=100) | P8415 | 0.3 | 0.40 | 0.9 | 1.32 | 7.4 | 6.78 |
| Refrigerators, freezers, heat pumps; and parts | P8418 | 0.9 | 0.41 | 2.4 | 1.36 | 11.4 | 3.96 |
| Centrifuges & filtering/purifying machinery and parts (Dec. 2017=100) | P8421 | 0.2 | 0.54 | 0.4 | 1.50 | 1.6 | 2.73 |
| Self-propelled earth-moving, tamping, & road roller machines (Dec. 2012=100) | P8429 | 0.4 | 0.22 | 1.5 | 0.32 | 6.6 | 1.06 |
| Parts for materials handling & construction machines | P8431 | 0.5 | 0.50 | 1.4 | 1.06 | 8.1 | 4.28 |
| Printing machinery, machines ancillary to printing; & parts (Dec. 2012=100) | P8443 | 0.1 | 0.10 | 0.3 | 0.21 | 0.5 | 1.49 |
| Computer equipment | P8471 | 0.2 | 0.26 | 0.7 | 0.73 | 2.6 | 1.28 |
| Parts and accessories, n.e.s.o.i., for computers and other office machines | P8473 | 0.6 | 0.65 | 1.3 | 1.18 | 5.3 | 2.03 |
| Machines & appliances having functions n.e.s.; parts thereof (Dec. 2016=100) | P8479 | 0.4 | 0.87 | 0.5 | 1.58 | | 4.27 |
| Taps, cocks, valves & similar appliances; parts thereof | P8481 | 0.4 | 0.40 | 1.2 | 0.95 | 3.6 | 1.56 |
| Electrical machinery and equip, sound and TV recorders & reproducers, parts | P85 | 0.4 | 0.40 | 0.5 | 0.36 | 2.7 | 0.83 |
| Electric motors and generators (excludes generating sets) | | | | | | | |
| Vehicular electric lighting equipment, and defrosters; (Dec. 2014=100) | P8501 P8512 | 0.3 | 0.33 | 1.0 | 0.65 1.57 | 5.3 6.3 | 2.61 |
| Electrothermic domestic appliances; water & space heaters; resistors | | | - | | | | 4.39 |
| Electrical apparatus for line telephony or line telegraphy; videophones; parts | P8516 | 0.8 | 0.37 | 2.3 | 1.13 | | 2.59 |
| Electrical apparatus for line telephony or line telegraphy, videophones, parts | P8517 | 0.1 | 0.18 | 0.3 | 0.32 | 0.8 | 1.71 |
| Microphones & stands; audio/sound amps; speakers; & headphones (Dec. 2012=100) | P8518 | 0.3 | 0.38 | 1.4 | 1.30 | 4.3 | 2.23 |
| Prepared unrecorded media for sound or similar recording (Dec. 2004=100) | P8523 | 0.8 | 0.49 | 1.6 | 1.07 | 5.6 | 2.00 |
| | | | | | | | |
| Radio & TV transmission apparatus; video cameras & camera recorders; TV cameras | P8525 | 0.0 | 0.02 | 0.4 | 0.26 | 3.6 | 1.23 |
| TV reception apparatus; video monitors & video projectors | P8528 | 0.9 | 0.81 | 2.4 | 2.55 | 5.0 | 4.70 |
| Electrical circuit switching, protecting or connection app. of 1000 volts or less | P8536 | 0.6 | 0.54 | 2.6 | 1.80 | 7.0 | 6.06 |
| Semiconductor devices; L.E.D.s; mounted crystals; parts thereof (Dec. 2018=100) | P8541 | 0.5 | 0.58 | 1.3 | 1.58 | 1.9 | 3.50 |
| Electronic integrated circuits and micro assemblies; parts thereof | P8542 | 0.8 | 0.58 | 2.5 | 1.37 | 8.5 | 2.59 |
| Insulated conductors (Dec. 2010=100) | P8544 | 0.6 | 0.28 | 1.9 | 1.16 | 5.8 | 3.04 |
| Vehicles, aircraft, vessels and associated transport equipment | PXVII | 0.2 | 0.10 | 0.9 | 0.27 | 2.8 | 0.57 |
| Motor vehicles and their parts | P87 | 0.2 | 0.11 | 0.8 | 0.28 | 2.8 | 0.57 |
| Tractors (other than work trucks of heading 8709) (Dec. 2017=100) | P8701 | 0.0 | 0.05 | 1.2 | 0.13 | 4.5 | 0.54 |
| Motor vehicles designed to transport people | P8703 | 0.3 | 0.09 | 0.9 | 0.34 | 2.5 | 0.56 |
| Parts of tractors, buses, automobiles, trucks, spec. vehicles | P8708 | 0.2 | 0.30 | 0.8 | 0.84 | 3.2 | 1.50 |
| Aircraft, spacecraft, and parts thereof | P88 | 0.3 | 0.17 | 1.2 | 0.50 | 2.6 | 1.57 |
| Optical, photo, measuring, medical & musical instruments; & timepieces | PXVIII | 0.2 | 0.19 | 0.5 | 0.50 | 3.0 | 1.41 |
| Optical, photographic, measuring and medical instruments | P90 | 0.2 | 0.20 | 0.6 | 0.50 | 3.1 | 1.46 |
| Instruments/appliances used in medical, surgical, dental, veterinarian sciences | P9018 | 0.1 | 0.23 | 0.9 | 0.71 | 1.4 | 1.67 |
| Mechano-therapy appliances (3) | P9019 | 0.6 | 0.44 | | | - | |
| Orthopedic appliances; artificial body parts; hearing aids, etc (Dec. 2003=100) | P9021 | 0.6 | 0.65 | 1.8 | 1.85 | 5.9 | 6.98 |
| Instruments and apparatus for physical or chemical analysis (Dec. 2006=100) | P9027 | 0.6 | 0.45 | 1.2 | 1.06 | 2.7 | 3.38 |
| Measuring instruments, appliances, and machines, nesoi (Dec. 2013=100) | P9031 | 0.2 | 0.21 | 0.5 | 1.00 | 2.8 | 3.00 |
| Miscellaneous manufactured articles | PXX | 0.3 | 0.27 | 1.2 | 0.60 | 5.5 | 1.09 |
| Furniture & stuffed furnishings; lamps & lighting fittings, nesoi; prefab bldgs | P94 | 0.4 | 0.29 | 1.0 | 0.72 | 6.4 | 1.31 |
| Seats other than barber, dental and similar chairs (Dec. 2001=100) | P9401 | 0.2 | 0.25 | 0.8 | 0.42 | 4.9 | 0.97 |
| Furniture other than seats, nes ⁽³⁾ | P9403 | 0.5 | 0.35 | _ | - | - | - |
| Lamps, lighting fixtures, & illuminated signs and parts thereof | P9405 | 0.2 | 0.28 | 0.6 | | 5.5 | 1.41 |
| Toys, games and sports equipment; parts and accessories thereof | P95 | 0.5 | | 0.9 | | | 2.51 |
| Articles for arcade, table or games parts thereof (Dec. 2018=100) | P9504 | 0.6 | | 1.2 | | | 8.48 |
| · · · · · · · · · · · · · · · · · · · | | 0.0 | 0.16 | 0.6 | | 6.0 | |

| Table 5. Variances for U.S. import price indexes for categories of goods: January 2022–December 2022 | | | | | | | | |
|--|-----|-----|------|-----|------|-----|------|--|
| Miscellaneous manufactured articles | P96 | 0.4 | 0.58 | 1.6 | 1.16 | 5.0 | 2.11 | |

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 can have low standard error
- (3) Index was not published in the previous year. Estimates using prior year index values are excluded.

| Table 6. Variances for U.S. export price indexes for categories of goods: | es of goods: January 2022–December | | | | | | |
|--|------------------------------------|--|--|--|--|---|---|
| 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 | 1.2 | 0.84 | 2.5 | 1.38 | 11.4 | 2.60 |
| Meat & edible meat offal (Dec. 2006=100) | D02 | 1.1 | 0.85 | 2.7 | 1.72 | 6.5 | 2.52 |
| Meat of swine (pork), fresh, chilled or frozen (3) | D0203 | 1.6 | 0.59 | - | - | - | - |
| Vegetable products (2) | DII | 3.4 | 0.53 | 6.7 | 1.31 | 16.3 | |
| Edible fruit and nuts; peel of citrus fruit or melons | D08 | 1.6 | 2.34 | 3.7 | 3.10 | 5.3 | |
| Nuts nesoi, fresh or dried (Dec. 2015=100) Cereals (2) | D0802 | 1.6 | 1.89 | 5.4 | 2.13 | 6.4 | |
| Wheat and meslin ⁽¹⁾ | D10 | 3.6 | 0.53 | 7.6 | 1.00 | 21.5 | |
| Corn (maize) (2) | D1001 D1005 | 3.6 4.8 | 0.00 0.12 | 13.0 8.8 | 0.00 | 28.5 17.9 | |
| Oilseeds and misc. grains, seeds, fruits, plants, straw and fodder (2) | D1005 | 4.0 | 0.12 | 7.4 | 0.66 | 16.9 | |
| Soybeans, whether or not broken (Dec. 2001=100) ⁽¹⁾ | D1201 | 4.1 | 0.26 | 7.4 | 0.40 | 15.8 | |
| Prepared foodstuffs, beverages, and tobacco | DIV | 1.2 | 0.63 | 2.8 | 0.00 | 8.0 | |
| Miscellaneous edible preparations (Dec. 2017=100) | D21 | 1.0 | 0.03 | 1.6 | 1.25 | 4.3 | |
| Food preparations nesoi | D2106 | 0.6 | 0.47 | 1.0 | 0.85 | 3.1 | |
| Beverages, spirits, and vinegar (Dec. 2008=100) | D2100 | 0.0 | 0.30 | 0.5 | 0.83 | 1.8 | |
| Residues and waste from the food industries; prepared animal feed | D23 | 3.1 | 1.27 | 6.3 | 2.51 | 13.7 | 4.58 |
| Mineral products (2) | DV | 7.7 | 0.71 | 14.3 | 1.08 | 54.6 | |
| Ores, slag and ash (Dec. 2012=100) | D26 | 3.7 | 1.28 | 6.8 | 1.94 | 16.7 | 8.73 |
| Mineral fuels, oils and residuals, bituminous substances and mineral waxes (2) | D27 | 8.0 | 0.71 | 14.5 | 1.12 | 56.4 | 2.51 |
| Coal, briquettes and similar solid fuels manufactured from coal | D2701 | 3.3 | 3.92 | 18.4 | 6.68 | 93.3 | |
| Petroleum oils and oils from bituminous minerals, crude (1,3) | D2709 | 7.1 | 0.00 | - | - | - | - |
| Petroleum oils & oils from bituminous minerals (excl crude) & products, nes (2) | D2710 | 12.8 | 0.67 | 17.9 | 0.81 | 58.0 | 2.18 |
| Petroleum gases and other gaseous hydrocarbons (Dec. 2014=100) | D2711 | 12.1 | 2.52 | 10.1 | 4.22 | 53.1 | 10.81 |
| Products of the chemical or allied industries | DVI | 0.7 | 0.41 | 2.5 | 0.85 | 8.6 | 1.86 |
| Organic chemicals | D29 | 2.2 | 1.44 | 6.5 | 3.84 | 15.0 | 5.22 |
| Pharmaceutical products | D30 | 0.3 | 0.28 | 0.5 | 0.79 | 2.4 | 1.92 |
| Human and animal blood, prepared; other blood frctns (Dec. 2014=100) | D3002 | 0.5 | 0.41 | 1.0 | 1.39 | 4.4 | 3.95 |
| Medicaments | D3004 | 0.2 | 0.26 | 0.2 | 0.64 | 1.5 | 1.17 |
| Essential oils and resinoids; perfumery cosmetic or toilet preparations | D33 | 0.2 | 0.21 | 0.5 | 0.53 | 4.2 | 3.09 |
| Beauty or make-up and skin-care preparations ⁽³⁾ | D3304 | 0.0 | 0.09 | - | - | - | - |
| Soap; lubricants; waxes, polishing or scouring products; candles, pastes | D34 | 0.1 | 0.10 | 0.9 | 1.43 | 4.6 | 5.29 |
| Miscellaneous chemical products | D38 | 0.6 | 0.52 | 1.4 | 0.97 | 0.8 | |
| Composite diagnostic or laboratory reagents (Dec. 2001=100) | D3822 | 0.3 | 0.26 | 0.7 | 0.58 | 2.2 | |
| Plastics and articles thereof; rubber and articles thereof | DVII | 0.9 | 0.87 | 2.6 | 1.58 | 5.7 | |
| Plastics and articles thereof | D39 | 1.0 | 1.02 | 3.0 | 1.82 | 6.2 | |
| Plates, sheets, film, foil, and strips of plastic | D3920 | 0.5 | 0.62 | 1.7 | 1.46 | 10.2 | 4.10 |
| Articles of plastics, polymers, and resins, nes ⁽³⁾ Rubber and articles thereof | D3926 | 0.3 | 0.27 | - | - | - | - |
| | D40 | 0.3 | 0.28 | 0.5 | 1.18 | 6.7 | 2.58 |
| Wood, wood charcoal, cork, straw, baskets and wickerwork (Dec. 2014=100) | DIX | 1.3 | 1.12 | 6.9 | 2.87 | 12.7 | 5.29 |
| Woodpulp, recovered paper, and paper products Woodpulp and recovered paper | DX D47 | 1.2 2.9 | 0.81 1.97 | 3.6 | 0.96 2.00 | 9.3 8.1 | 2.09 4.28 |
| Paper and paperboard; articles of paper pulp, paper or paperboard | D47 | 0.8 | 0.50 | 6.2 3.2 | 0.62 | 11.4 | 4.28 2.29 |
| Textile and textile articles | DXI | 2.3 | 0.50 | 5.3 | 1.11 | 18.6 | |
| Cotton, including yarns and woven fabrics thereof | D52 | 4.7 | 0.81 | 9.3 | 1.11 | 39.0 | |
| Cotton, not carded or combed (Dec. 2018=100) | D5201 | 4.7 | 0.81 | 10.3 | 2.09 | 43.7 | 8.47 |
| Stone, plaster, cement, asbestos, ceramics, glass etc. | DXIII | 0.5 | 0.84 | 1.4 | 1.96 | 10.3 | |
| Glass and glassware | D70 | 0.4 | 0.53 | 1.4 | 1.30 | 11.0 | |
| Pearls, stones, precious metals, imitation jewelry, and coins ⁽²⁾ | DXIV | 2.6 | 1.13 | 4.7 | 2.05 | 2.9 | |
| Diamonds, whether or not worked, but not mounted or set (Dec. 2013=100) (2) | D7102 | 0.1 | 0.00 | 1.3 | 0.00 | 16.5 | |
| Gold (including gold plated with platinum), unwrought (Dec. 2001=100) (2) | D7108 | 2.1 | 0.05 | 4.9 | 0.08 | 3.7 | |
| Platinum, unwrought, semimanufactured or in powder form | D7110 | 5.8 | 3.89 | 9.3 | 8.91 | 9.4 | |
| Waste and scrap of precious metals ⁽²⁾ | D7112 | 3.8 | 1.42 | 7.5 | 2.07 | 7.7 | |
| Base metals and articles of base metals | DXV | 2.1 | 0.47 | 4.4 | 0.86 | 8.2 | 2.26 |
| Iron and steel | D72 | 3.9 | 0.71 | 8.0 | 1.68 | 13.6 | 6.52 |
| Copper and articles thereof | D74 | 2.2 | 1.12 | 4.9 | 2.12 | 10.8 | 3.33 |
| Aluminum and articles thereof | D76 | 3.1 | 1.33 | 5.5 | 2.67 | 12.1 | 3.65 |
| Machinery, electrical equipment, TV image and sound recorders, parts, etc. | DXVI | 0.2 | 0.17 | 0.9 | 0.29 | 4.7 | 0.58 |
| Machinery and mechanical appliances; parts thereof | D84 | 0.3 | 0.16 | 1.2 | 0.32 | 5.3 | 0.58 |
| Diesel & semi-diesel internal combustion piston engines (3) | D8408 | 0.5 | 0.34 | - | | | I |

| Table 6. Variances for U.S. export price indexes for categories of go | oods: January 20 | 22–Decemb | er 2022 | | | | |
|--|------------------|-----------|---------|-----|------|------|------|
| Air or vacuum pumps, compressors and fans; vent & recycling hoods; parts | D8414 | 0.6 | 0.45 | 1.7 | 0.73 | 9.4 | 2.97 |
| Centrifuges & filtering/purifying machinery and parts | D8421 | 0.3 | 0.35 | 2.6 | 0.98 | 10.3 | 3.86 |
| Computer equipment | D8471 | 0.8 | 0.65 | 1.5 | 0.91 | 3.0 | 1.34 |
| Electrical machinery and equipment and parts and accessories thereof | D85 | 0.2 | 0.29 | 0.8 | 0.58 | 3.8 | 0.81 |
| Electrical apparatus for line telephony or line telegraphy; videophones; parts | D8517 | 0.2 | 0.18 | 0.7 | 0.44 | 1.8 | 1.12 |
| Electrical circuit switching, protecting or connection app of 1000 volts or less | D8536 | 0.3 | 0.19 | 1.2 | 0.70 | 7.9 | 2.82 |
| Semiconductors; L.E.D.s; mounted crystals; parts thereof (Dec. 2017=100) | D8541 | 0.2 | 0.28 | 0.6 | 0.65 | 3.3 | 2.40 |
| Electronic integrated circuits and micro assemblies; parts thereof | D8542 | 0.5 | 0.24 | 0.9 | 0.56 | 1.7 | 1.43 |
| Insulated conductors; optical fiber cables w/individually sheathed fibers | D8544 | 0.5 | 0.67 | 1.6 | 0.93 | 8.1 | 3.12 |
| Vehicles, aircraft, vessels and associated transport equipment | DXVII | 0.2 | 0.11 | 1.0 | 0.19 | 4.3 | 0.58 |
| Motor vehicles and their parts | D87 | 0.2 | 0.14 | 0.9 | 0.26 | 4.1 | 0.72 |
| Automobiles and other motor vehicles inc minivans, 4-dr specialty vehicles | D8703 | 0.0 | 0.03 | 0.3 | 0.13 | 1.3 | 0.21 |
| Motor vehicles for the transport of goods | D8704 | 0.2 | 0.05 | 0.8 | 0.14 | 2.8 | 0.28 |
| Parts and access of tractors, buses automobiles, trucks, spec. vehicles | D8708 | 0.3 | 0.32 | 1.0 | 0.54 | 6.7 | 2.10 |
| Parts, nesoi, of civil aircraft and spacecraft (exc. military) | D8803 | 0.1 | 0.11 | 0.8 | 0.25 | 3.7 | 1.35 |
| Optical, photo, measuring, medical & musical instruments; & timepieces | DXVIII | 0.2 | 0.26 | 0.6 | 0.58 | 2.5 | 1.11 |
| Instruments/appliances used in medical surgical, dental, veternarian sciences | D9018 | 0.4 | 0.30 | 1.1 | 0.72 | 1.8 | 1.97 |
| Instruments and apparatus for physical or chemical analysis | D9027 | 0.4 | 0.38 | 0.9 | 1.74 | 1.8 | 4.82 |
| Oscilloscopes, spectrum analyzers etc., and parts | D9030 | 0.0 | 0.03 | 0.3 | 0.25 | 2.4 | 0.78 |
| Measuring or checking instruments, and appliances n.e.s. (Dec. 2001=100) | D9031 | 0.1 | 0.12 | 0.6 | 0.43 | 3.1 | 2.66 |
| Miscellaneous manufactured articles | DXX | 0.6 | 0.20 | 2.7 | 1.37 | 9.8 | 4.13 |
| Furniture; stuffed furnishings; lamps and lighting fittings nesoi; | D94 | 0.0 | 0.04 | 1.2 | 0.74 | 8.1 | 5.75 |
| Toys, games and sports equipment; parts and accessories thereof | D95 | 0.5 | 0.39 | 5.0 | 2.57 | 13.1 | 5.01 |

- (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 can have low standard error values.
- (3) Index was not published in the previous year. Estimates using prior year index values are excluded.