



**ICE FX Indices  
(DXY, ICELX, ICEEX, ICEJX)**

Version 3.1  
Valid from  
April 2, 2021

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## Version History:

### **Version 3.1 (Effective April 2, 2021)**

The methodology for the ICE FX Indices is being updated to modify the holiday calendar and calculation and publication hours for the Indices. Other sections of the methodology including the disclaimer are modified to reflect updated language and terms which are deemed immaterial. In addition, the review frequency of the Indices is being updated and the constant term for ICEJX was corrected.

### **Version 3.0 (Effective April 2, 2018)**

The methodology for the ICE FX Indices is being released to provide greater details and clarity into the governance, structure, and maintenance of the Indices.

### **Version 2.0 (Effective July 5, 2016)**

The methodology for the ICE FX Indices is being released to include the ICE Dollar LatAm FX Index, ICE Euro FX Index, and ICE Yen FX Index.

### **Version 1.1 (Effective January 1, 1999)**

The methodology is being updated for the launch of the Euro currency.

### **Version 1.0 (Effective November 1985)**

The methodology is being released for the newly-launched ICE U.S. Dollar Index.

## 1. Index summary

<b>Factsheet</b>	
<b>Full Names</b>	ICE U.S. Dollar Index® or ICE USDX®  ICE Dollar LatAm FX Index ICE Euro FX Index ICE Yen FX Index
<b>Index Types</b>	DXY (NYICDX): ICE U.S. Dollar Index or ICE USDX  ICELX: ICE Dollar LatAm FX Index ICEEX: ICE Euro FX Index ICEJX: ICE Yen FX Index  ICELXC: ICE Dollar LatAm FX Index Official 3 PM NY Close ICEEXC: ICE Euro FX Index Official 3 PM NY Close ICEJXC: ICE Yen FX Index Official 3 PM Singapore Close  ICELXCL: ICE Dollar LatAm FX Index Official 4 PM London Close ICEEXCL: ICE Euro FX Index Official 4 PM London Close ICEJXCL: ICE Yen FX Index Official 4 PM London Close
<b>Index Description</b>	<p>The ICE FX Indices are comprehensive, transparent and objective rule-based indices designed to measure the performance of the U.S. Dollar, the Euro and the Japanese Yen respectively relative to the currencies of key trading partners.</p> <p>The original Index in the family, the ICE U.S. Dollar Index, has served as the global benchmark for the value of the U.S. dollar for over 45 years.</p> <p>Index data can be accessed from the ICE Index Platform at <a href="http://indices.theice.com">indices.theice.com</a>.</p>
<b>Number of Constituents</b>	DXY: 6 Currencies ICELX: 5 Currencies ICEEX: 5 Currencies ICEJX: 8 Currencies

<b>Weighting</b>	DXY / ICEEX / ICEJX: Trade weighted geometric mean ICELX: Liquidity / Trade weighted geometric mean
<b>Review of Methodology</b>	At least annually
<b>Calculation Frequency and Hours</b>	DXY: Every 1 second between 7:45 PM ET (T-1) and 7:15 PM ET for Tuesday to Thursday; Every 1 second between 6:00 PM ET (T-1) and 7:15 PM ET for Monday; Every 1 second between 7:45 PM ET (T-1) and 5:00 PM ET for Friday  ICELX / ICEEX / ICEJX: Every 1 second between 7:45 PM ET (T-1) and 5:00 PM ET for Tuesday to Friday; Every 1 second between 6:00 PM ET (T-1) and 5:00 PM ET for Monday  ICELXC / ICEEXC: Once Daily shortly after 3 PM NY time ICEJXC: Once Daily shortly after 3 PM Singapore time ICELXCL / ICEEXCL / ICEJXCL: Once Daily shortly after 4 PM London time
<b>Base Date</b>	DXY: March 1973 ICELX / ICEEX / ICEJX: January 3, 2000
<b>Base Level</b>	100.00
<b>Historic Data Available Since</b>	January 4, 1971
<b>Bloomberg Code</b>	DXY <INDEX> (NYICDX <INDEX>) / ICELX <INDEX> / ICEEX <INDEX> / ICEJX <INDEX> / ICELXC <INDEX> / ICEEXC <INDEX> / ICEJXC <INDEX> / ICELXCL <INDEX> / ICEEXCL <INDEX> / ICEJXCL <INDEX>
<b>Reuters Code</b>	.DXY (.NYICDX) / .ICELX / .ICEEX / .ICEJX / .ICELXC / .ICEEXC / .ICEJXC / .ICELXCL / .ICEEXCL / .ICEJXCL
<b>Launch Date</b>	DXY: November 1985 ICELX / ICEEX / ICEJX: July 5, 2016
<b>Website</b>	<a href="http://indices.theice.com">indices.theice.com</a>

## 2. Governance

### Index Sponsor & Administrator

ICE Data Indices, LLC (“IDI”) is the Index Sponsor and the Index Administrator of the ICE FX Indices (the “Indices” and each an “Index”). The Indices are calculated and maintained by IDI based on a methodology developed by IDI.

IDI is responsible for the day-to-day management of the Index in accordance with its rules, including retaining primary responsibility for all aspects of the Index determination process, including implementing appropriate governance and oversight, as required under the International Organization of Securities Commission’s Principles for Financial Benchmarks (the IOSCO Principles). The IDI Governance Committee is responsible for helping to ensure IDI’s overall compliance with the IOSCO Principles, by performing the Oversight Function which includes overseeing the development, design, issuance and operation of the Indices, as well as reviewing the control framework. IDI is also responsible for decisions regarding the interpretation of these rules and the Governance Committee is responsible for reviewing all rule book modifications with respect to the Index to ensure that they are made objectively, without bias, and in accordance with applicable law and regulation and IDI’s policies and procedures. Consequently, all IDI and Governance Committee discussions and decisions are confidential until released to the public.

### Periodic review of Index rules

The Index is constructed based on a defined set of rules which spell out all pertinent details of how it is compiled. The Index rules specify the criteria for selecting constituent currencies. The rules also establish the methodologies for weighting, valuing and rebalancing the constituents. Rules and methodologies are reviewed periodically, in accordance with IDI’s policies and procedures, to ensure the Index continues to meet its objective. IDI shall announce changes in rules and methodologies, along with their implementation dates, in accordance with its policies and procedures. IDI consults with stakeholders on proposed material changes that affect the Index prior to making such changes, in accordance with IDI’s consultation policy: <https://www.theice.com/market-data/indices/regulation>.

### Rule book changes

The IDI Governance Committee reviews all rule book modifications and Index changes to ensure that they are made objectively, without bias and in accordance with applicable law and regulation and IDI’s policies and procedures. These rules may be supplemented, amended in whole or in part, revised or withdrawn at any time in accordance with applicable law and regulation and IDI applicable policies and procedures. Supplements, amendments, revisions and withdrawals may also lead to changes in the way the Index is compiled or calculated or affect the Index in another way. Changes to the Index methodology are announced on the ICE Index Platform at [indices.theice.com](https://www.theice.com/indices).

### Cases not covered in rules

In cases which are not expressly covered in these rules, operational adjustments are made, as needed, to ensure the Index meets its intended objectives. Operational adjustments may also take place if, in the opinion of the Index Administrator, it is desirable to do so to maintain a fair and orderly market in derivatives on this Index and/or this is in the best interests of the investors in products based on the Index and/or the proper functioning of the markets. Any such modifications described under this section or exercise of Expert Judgment will also be governed by any applicable policies, procedures and Guidelines in place by IDI at such time.

### Limitations of the Index

All indices produced by IDI (the “Indices”) may be subject to potential limitations, such as a decline in the pool of available eligible currencies, changes in the economy, changes in regulation or accounting rules, consolidation in certain sectors or industries, or other factors. Other limitations may include the ability of the Benchmark to operate in illiquid or fragmented markets.

By design, this Index is focused on representing the performance of specific currencies against various other currencies of key trading partners. Should the underlying markets transform due to economic and geopolitical changes or other reasons, the composition of the Index will adjust and change accordingly. IDI seeks to manage and mitigate these limitations through the Index design, review and oversight process.

### **3. Index Description**

The ICE FX Indices are comprehensive, transparent and objective rule-based indices designed to measure the performance of the U.S. Dollar, the Euro and the Japanese Yen respectively relative to the currencies of key trading partners. The ICE FX Indices build on the success of the ICE U.S. Dollar Index, the global benchmark for the value of the U.S. dollar for over thirty years.

The ICE U.S. Dollar Index measures the value of the U.S. Dollar against a basket of currencies of the top six trading partners of the United States as measured in 1973: the Euro zone, Japan, the United Kingdom, Canada, Sweden, and Switzerland.

The ICE Dollar LatAm FX Index measures the value of the U.S. Dollar against a basket of currencies of five major Latin American trading partners: Mexico, Brazil, Colombia, Chile and Mexico.

The ICE Euro FX Index measures the value of the Euro against a basket of currencies of the top five trading partners of the Euro area: the United States, the United Kingdom, Japan, Switzerland and Sweden.

The ICE Yen FX Index measures the value of the Yen against a basket of currencies of Japan's top eight trading partners: the United States, the Euro zone, the United Kingdom, China, Mexico, Canada, Australia and Switzerland.

## **4. Publication**

### **4.1 Publication of Index values.**

#### **Opening**

The first Index level is calculated and published around 7:45 PM ET (T-1) for Tuesday through Friday. The Index level is published starting at 6:00 PM ET (T-1) for Monday. The calculation of that level utilizes the most updated spot currency midpoint prices available at that moment.

#### **Dissemination frequency**

The level of the Index is calculated and published every 1 second during the day. The DXY Index is calculated and published until 7:15 PM ET on Monday through Thursday and until 5:00 PM ET on Friday. The ICELX / ICEEX / ICEJX Indices are calculated and published until 5:00 PM ET each Index Business Day.

The ICELXC / ICEEXC Indices are calculated and published once daily shortly after 3 PM NY time. The ICEJXC Index is calculated and published once daily shortly after 3 PM Singapore time. The ICELXCL / ICEEXCL / ICEJXCL Indices are calculated and published once daily shortly after 4 PM London time. All Indices are published to the ICE Consolidated Feed. The DXY Index is also published via the ICE Futures U.S. data feed.

The Indices are calculated and published on those days specified as Index Business Days. Index Business Days include every weekday throughout the calendar year with the exception of Christmas Day and New Year's Day (or their observed holidays).

#### **Closing level**

The closing level is the once-daily level disseminated on the trading day and is equal to the last-calculated level of the Indices. In the case of exceptional market conditions, the Index Administrator reserves the right to utilize other prices in the calculation of the official closing level, as indicated below in Section 4.2.

#### **Data sources**

ICE Data Derivatives spot currency rates are utilized for the intraday real-time and closing Index level calculations. These currency rates are sourced from a number of brokers and bank sources. In the compilation of the methodology, data was sourced from the Federal Reserve, European Central Bank, Bank of Japan, and Bank for International Settlements.



## 4.2 Exceptional market conditions and corrections

The Index Administrator retains the right to delay the publication of the opening level of the Index or suspend the publication of the level of the Index if it believes that circumstances prevent the proper calculation of the Index.

If Index constituent intraday prices are cancelled or revised, the Index will not be recalculated unless the Index Administrator decides otherwise.

Reasonable efforts are made to ensure the correctness and validity of data used in real-time Index calculations. Where errors have occurred in the determination or calculation of an Index closing value, the decision to make a restatement will be assessed on a case by case basis. Such decision will take account of the significance, impact, age and scale of the error.

There is the possibility of a trading venue or market-wide event resulting in the complete or partial unavailability of data required for the Index calculation. In those situations, the Index Administrator will take guidance from the respective source(s) and determine an appropriate course of action on an event-by-event basis. Trading venue or market-wide events include, but are not limited to, the following:

- Technological Problems / Failures
- Natural Disaster or Other BCP-Related Event

## 5. Calculation

### 5.1 Calculation of the Index

The ICE FX Indices will be calculated utilizing a proprietary, rules-based formula that is maintained and overseen internally by the IDI Governance Committee.

The Indices are calculated utilizing the following formula:

$$\text{Index Value} = C * \prod_{i=0}^n (\text{Spot Rate}_{it})^{\text{currency weight } i}$$

where:

$\text{Spot Rate}_{it}$  = exchange rate of currency I at time t with all exchange rates expressed in base currency terms, i.e., units of Foreign Currency per USD/EUR/JPY.

$n$  = number composite currencies.

$\text{currency weight } i$  = weight for currency  $i$ .

$C$  = constant term for the Index

The constant term for each Index is as follows:

DXY: 50.14348112

ICELX: 6.07196981

ICEEX: 43.92519834

ICEJX: 3608.36547675

The composite currencies and weights for each Index are as follows:

<b>Currency</b>	<b>DXY (USD Index)</b>
Euro	57.60%
Japanese Yen	13.60%
British Pound	11.90%
Canadian Dollar	9.10%
Swedish Krona	4.20%
Swiss Franc	3.60%
<b>Currency</b>	<b>ICELX (USD LatAm)</b>
Mexican Peso	49.70%
Brazilian Real	24.80%
Chilean Peso	18.30%
Colombia Dollar	5.20%
Argentinian Dollar	2.00%

<b>Currency</b>	<b>ICEEX (Euro)</b>
U.S. Dollar	33.70%
British Pound	27.60%
Swiss Franc	14.70%
Japanese Yen	14.30%
Swedish Krona	9.70%
<b>Currency</b>	<b>ICEJX (Yen)</b>
Chinese Yuan (Offshore)	46.30%
U.S. Dollar	22.90%
Euro	19.50%
British Pound	3.00%
Mexican Peso	2.30%
Canadian Dollar	2.10%
Swiss Franc	2.00%
Australian Dollar	1.90%

## **6. Index composition and weightings**

### **6.1 Currency selections and weightings principle**

#### **Index Universe**

A review of the list of currencies that are included in the calculation of the ICE FX Indices, and their corresponding weights, is undertaken annually by IDI. The Universe consists of all currencies of countries that engage in trade with the United States, European Union, and Japan. This determination is completed using publicly available information on individual countries and currencies. Also instrumental in this determination is IDI employees' expertise concerning Index design and development and their knowledge surrounding Index use and stakeholder feedback. IDI may change the composition of the Universe at any time to reflect the conditions of the underlying foreign exchange markets, and to ensure that the pool of currencies continues to represent the market, in accordance with the Index requirements.

#### **Selection of constituents**

The ICE U.S. Dollar Index is a geometrically-averaged calculation of six currencies weighted against the U.S. dollar. The U.S. Dollar Index originally was developed by the U.S. Federal Reserve in 1973 to provide an external bilateral trade-weighted average value of the U.S. dollar as it freely floated against global currencies. The weights have been held constant since inception.

The ICE Dollar LatAm FX Index provides an indication of the U.S. Dollar's performance against 5 leading Latin American trading partners by liquidity. The ICE Dollar LatAm FX Index weightings were determined using data on FX turnover published in the BIS Triennial Central Bank Survey, and include five of the most liquid currencies as per the 2013 BIS survey. The Index weight for each component currency was calculated by proportionally rescaling the trade weights of those five currencies in the BIS survey to 100%.

The ICE Euro FX Index provides an indication of the Euro's performance against the Euro area's top 5 trading partners. The ICE Euro FX Index includes the top 5 trading partner countries according to the latest 2010-2013 period of trade weights underlying the Effective Exchange Rate of 12 countries (EER-12), a narrow reference group containing 12 partner countries, as published by the ECB. The Index weight for each component was determined by proportionally rescaling the trade weights of those 5 countries to 100%.

The ICE Yen FX Index provides an indication of the Yen's performance against Japan's top 8 trading partners. The ICE Yen FX Index includes the top 8 countries in the latest period of 2011-2013 trade weights underlying the broad Index of the Effective Exchange Rate (EER) for the Japanese yen, as published by Bank for International Settlements (BIS). The Index weight for each component was calculated by proportionally rescaling the trade weights of those 8 countries to 100%. The ICE Yen FX Index excludes the TWDJPY, KRWJPY and SGDJPY pairs,

despite the fact that Taiwan, Korea and Singapore are ranked among the top trading partners with Japan. These currencies were not included in the ICE Yen FX Index due to the lack of sufficient liquidity in inter-bank quotes for these currencies.

In the event that a new data source is added to the Index methodology, the IDI Governance Committee reserves the right to adjust the calculation of the Index accordingly. Both the new source and any change in calculation methodology will be announced to the public in the manner as specified above.

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Historical returns and weights before the launch date of an Index are based upon backtested data. For the period prior to the launch date of an Index, simulated performance data has been provided as an illustration of how the Index would have performed during the relevant period had the Index been calculated by IDI using the current Index methodology. Such simulated performance data has inherent limitations, as the simulated data is produced by the retroactive application of the methodology. Simulated performance data is based on criteria applied retroactively with the benefit of hindsight and knowledge of factors that may have positively affected its performance and may reflect a bias toward strategies that have performed well in the past.

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