Dow Jones U.S. Total Stock Market Indices
Methodology
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Introduction

Index Objective, Highlights, and Index Family

The Dow Jones U.S. Total Stock Market Indices measure the market performance of U.S. stocks trading on U.S. exchanges. The indices are float-adjusted market capitalization (FMC) weighted.

This broad index is sliced according to stock-size segment, style, and sector to create distinct sub-indices that track every major segment of the market.

**Dow Jones U.S. Total Stock Market Index.** The index is a broad market index and includes all eligible U.S. common equities.

**Dow Jones U.S. Broad Stock Market Index.** The index is a sub-index of the Dow Jones U.S. Total Stock Market Index and measures the performance of Large-Cap, Mid-Cap and Small-Cap U.S. equity securities.

**Dow Jones U.S. Completion Total Stock Market Index.** The index is a sub-index of the Dow Jones U.S. Total Stock Market Index and measures the performance of all constituents in the Dow Jones U.S. Total Stock Market Index that are not also constituents of the S&P 500.

**Size-Segment Indices.** Size segment indices are derived directly from the Dow Jones U.S. Total Stock Market Index. The following size-segment indices are available:

- Dow Jones U.S. Large-Cap Total Stock Market Index
- Dow Jones U.S. Mid-Cap Total Stock Market Index
- Dow Jones U.S. Small-Cap Total Stock Market Index
- Dow Jones U.S. Micro-Cap Total Stock Market Index

**Style Indices.** The Dow Jones U.S. Style Indices categorize stocks by investment style. A comprehensive, six-factor model is used to determine whether a stock is "growth" or "value."

- Dow Jones U.S. Large-Cap Growth Total Stock Market Index
- Dow Jones U.S. Mid-Cap Growth Total Stock Market Index
- Dow Jones U.S. Small-Cap Growth Total Stock Market Index
- Dow Jones U.S. Growth Broad Stock Market Index
- Dow Jones U.S. Large-Cap Value Total Stock Market Index
- Dow Jones U.S. Mid-Cap Value Total Stock Market Index
- Dow Jones U.S. Small-Cap Value Total Stock Market Index
- Dow Jones U.S. Value Broad Stock Market Index

**Sector Indices.** Sector and industry indices are constructed by categorizing the constituent stocks of the Dow Jones U.S. Total Stock Market Index into the 10 Industries, 20 Supersectors, 41 Sectors and 114 Subsectors defined by the S&P Dow Jones Indices Sector Classification System. A separate index is maintained for each group at each of the four levels. Companies are classified into Subsectors, the most specific level of classification, based on their principal business activity. The Subsectors are rolled up into
Sectors, which in turn are rolled up into Supersectors and finally into Industries, the broadest level of classification.

- Dow Jones U.S. Basic Materials Total Stock Market Index
- Dow Jones U.S. Consumer Goods Total Stock Market Index
- Dow Jones U.S. Consumer Services Total Stock Market Index
- Dow Jones U.S. Financials Total Stock Market Index
- Dow Jones U.S. Health Care Total Stock Market Index
- Dow Jones U.S. Industrials Total Stock Market Index
- Dow Jones U.S. Oil & Gas Total Stock Market Index
- Dow Jones U.S. Technology Total Stock Market Index
- Dow Jones U.S. Telecommunications Total Stock Market Index
- Dow Jones U.S. Utilities Total Stock Market Index

Also available are more-granular indices for the 20 Supersectors, 41 Sectors and 114 Subsectors as defined by the Sector Classification System.

For more information on the proprietary classification system please refer to the Sector Classification: Dow Jones Indices document [here](#).

**Supporting Documents**

This methodology is meant to be read in conjunction with supporting documents providing greater detail with respect to the policies, procedures and calculations described herein. References throughout the methodology direct the reader to the relevant supporting document for further information on a specific topic. The list of the main supplemental documents for this methodology and the hyperlinks to those documents is as follows:

<table>
<thead>
<tr>
<th>Supporting Document</th>
<th>URL</th>
</tr>
</thead>
<tbody>
<tr>
<td>S&amp;P Dow Jones Indices’ Index Mathematics Methodology</td>
<td><a href="#">Index Mathematics Methodology</a></td>
</tr>
<tr>
<td>S&amp;P Dow Jones Indices’ Float Adjustment Methodology</td>
<td><a href="#">Float Adjustment Methodology</a></td>
</tr>
</tbody>
</table>

This methodology was created by S&P Dow Jones Indices to achieve the aforementioned objective of measuring the underlying interest of each index governed by this methodology document. Any changes to or deviations from this methodology are made in the sole judgment and discretion of S&P Dow Jones Indices so that the index continues to achieve its objective.
Eligibility Criteria

Index Eligibility

Securities must meet the following eligibility factors to be considered for index consideration. As applicable, the measurement date for determining whether all eligibility criteria are met is the close of trading on the reference date:

Eligibility Factors

Domicile. Only common stocks of U.S. companies are eligible. For index purposes, a U.S. company has the following characteristics:

1. Satisfies the periodic reporting obligations imposed by the U.S. Securities Exchange Act by filing forms for domestic issuers, such as, but not limited to, Form 10-K annual reports, Form 10-Q quarterly reports, and Form 8-K current reports. The U.S. portion of fixed assets and revenues constitutes a plurality of the total but need not exceed 50%. When these factors conflict, fixed assets determine plurality. Revenue determines plurality when there is incomplete asset information. Geographic information for revenue and fixed asset allocations are determined by the company as reported in its annual filings.

2. The primary listing must be on an eligible U.S. exchange as described under Exchange Listing below.

If criterion #2 is not met or is ambiguous, S&P Dow Jones Indices may still deem it a U.S. company for index purposes if its primary listing, headquarters, and incorporation are all in the U.S. and/or a “domicile of convenience” For further information on domiciles of convenience, please refer to S&P Dow Jones Indices’ Equity Indices Policies and Practices Methodology.

In situations where the only factor suggesting that a company is not a U.S. company is its tax registration in a “domicile of convenience” or another location chosen for tax-related reasons, S&P Dow Jones Indices normally determines that the company is still a U.S. company.

The final determination of domicile eligibility is made by the Index Committee which can consider other factors including, but not limited to, operational headquarters location, ownership information, location of officers, directors and employees, investor perception and other factors deemed to be relevant.

For more information on domiciles of convenience, including the list of current domiciles of convenience, please refer to S&P Dow Jones Indices’ Equity Indices Policies and Practices Methodology.

Exchange Listing. A primary listing on one of the following U.S. exchanges is required:

- NYSE
- NYSE Arca
- NYSE American
- Nasdaq Global Select Market
- Nasdaq Select Market
- Nasdaq Capital Market
- Cboe BZX
- Cboe BYX
- Cboe EDGA
- Cboe EDGX
- OTC securities
- Pink Sheets

Ineligible exchanges include:
Organizational Structure and Share type. The issuing company must have the following organizational structure and share type:

- Corporations (including equity and mortgage REITs)
- Common stock (i.e. shares)

Ineligible organizational structures and share types include:

- Business development companies (BDCs)
- Preferred stock
- Limited partnerships (LPs)
- Convertible preferred stock
- Master limited partnerships (MLPs)
- Unit trusts
- Limited liability companies (LLCs)
- Equity warrants
- Closed-end funds
- Convertible bonds
- ETFs
- Investment trusts
- ETNs
- Rights
- Royalty trusts
- American Depositary Receipts (ADRs)
- Special purpose acquisition companies (SPAC)

Tracking Stocks and Multiple Share Classes. Tracking stocks and companies with multiple share class structures are eligible.

Investable Weight Factor (IWF). An IWF of at least 0.10 is required. Current constituents have no minimum requirement.

Liquidity. A float-adjusted liquidity ratio (FALR), defined as the annual dollar value traded divided by the FMC, is used to measure liquidity. Using composite pricing and consolidated volume (excluding dark pools) across all venues (including historical values), annual dollar value traded is defined as the average closing price multiplied by the historical volume over the 365 calendar days prior to the evaluation date. This is reduced to the available trading period for IPOs or spin-offs that do not have 365 calendar days of trading history. In these cases, the dollar value traded available as of the evaluation date is annualized.

- Liquidity requirements are reviewed during the quarterly rebalancings.
- The price (corporate action adjusted) as of the evaluation date, and the shares outstanding and IWF as of the rebalancing effective date are used to calculate the FMC.
- The evaluation date is the five weeks prior to the rebalancing effective date.
- FALR must be greater than or equal to 0.1.
- Current constituents have no minimum requirement.
Index Construction

Constituent Selection

At each annual reconstitution, all eligible securities are selected and form the index. Additionally, at each quarterly rebalancing, certain securities that have undergone a change in the past quarter are eligible to be added to the index if they meet all other eligibility criteria. These securities include:

- Initial Public Offerings (IPOs)
- New listings on eligible exchanges
- Issues that moved from Pink Sheets or OTC securities
- Issues that emerged from Bankruptcy Status
- Companies whose domicile has changed to the U.S.

Current index constituents are not evaluated for continued inclusion during the quarterly rebalances. A stock previously excluded due to failing the IWF or liquidity criteria is not reviewed again until the following annual reconstitution.

U.S. Size Segment Indices. For the annual review, all constituents of the Dow Jones U.S. Total Stock Market Index are ranked, based on their closing prices as of the reference date, by total company market capitalization (all listed share classes) and assigned to size-segment indices in descending market cap order, subject to buffer rules for current index components, starting with the large-cap index.

- Companies ranked 600 or larger are automatically assigned to the Dow Jones U.S. Large-Cap Total Stock Market Index. Current companies ranked 900 or higher are selected, in descending market capitalization order, until the index contains 750 companies. Companies ranked below 900 are removed from the index. If the index does not contain 750 companies after applying the buffer, the largest non-constituent companies are added in descending market cap order until the index contains 750 companies.

- Companies not selected for the large-cap index ranked 2,000 or higher are automatically assigned to the small cap index. Current small-cap companies ranked 3,000 or higher are selected, in descending market capitalization order, until the index contains 1,750 companies. If the index does not contain 1,750 companies after applying the buffer, the largest non-constituent companies are added until the index contains 1,750 companies.

- The 2,500 companies selected for the large-cap and small-cap indices comprise the Dow Jones U.S. Broad Stock Market Index.

- The Dow Jones U.S. Mid-Cap Total Stock Market Index consists of 500 companies selected using the following buffer rules: Current mid-cap index companies ranked between 401 and 1,100 remain in the index. If the index does not contain 500 companies after applying the buffer, remaining places in the index are taken by the largest non-constituent companies ranked 501 or smaller, which are added in descending order until the index contains 500 companies.

- All remaining Dow Jones U.S. Total Stock Market Index companies not selected for the Dow Jones U.S. Broad Stock Market Index are added to the Dow Jones U.S. Micro-Cap Total Stock Market Index.

- The resulting size-segment indices are weighted by float-adjusted market capitalization.

- For quarterly updates, the size of the addition is assigned by comparing the company's total market capitalization rank to the rest of the composition. Size-segment rankings are as follows:
Style Evaluation Criteria

A stock’s style classification (“Growth” or “Value”) is determined by the company’s performance in terms of six measures—two projected, two current and two historical:

1. Projected Price-to-Earnings Ratio (P/E): Based on the stock’s closing price at the time of the annual review and its mean annual expected EPS for the next fiscal period.
2. Projected Earnings Growth: Based on expected three-to-five year annual increase in operating EPS.
3. Price-to-Book Ratio (P/B): Based on the stock’s closing price at the time of the annual review and its latest annual book value per share.
4. Dividend Yield: Based on the stock’s closing price at the time of the annual review and on total dividends the company has indicated it will pay over the next 12 months.
5. Trailing Revenue Growth: Based on annualized revenue growth for the previous five years.
6. Trailing Earnings Growth: Based on annualized EPS growth for the previous 21 quarters.

Input data are sourced from a variety of data vendors. Companies with missing data are assigned the value of the company’s industry average, using S&P Dow Jones Indices’ proprietary classification system to define the company’s industry.

Style Index Construction

Using closing prices five weeks prior to the effective date, and float factors, as of the annual reconstitution, the 750 constituents of the rebalanced Dow Jones U.S. Large-Cap Total Stock Market Index are assigned to either the Dow Jones U.S. Large-Cap Growth Total Stock Market Index or Dow Jones U.S. Large-Cap Value Total Stock Market Index, and the 1,750 constituents of the rebalanced Dow Jones U.S. Small-Cap Total Stock Market Index are a to either the Dow Jones U.S. Small-Cap Growth Total Stock Market Index or Dow Jones U.S. Small-Cap Value Total Stock Market Index using the following steps:

1. The constituents of each index are ranked in descending order by each of the six style evaluation criteria. The 2.5th and 97.5th percentile levels are determined for each factor.
2. Stocks lying outside the 2.5th or 97.5th percentile for a factor are assigned the same values for that factor as stocks at the 2.5th or 97.5th percentile.
3. Following the outlier replacement, mean values are calculated for each data set.
4. Those values are then used to replace an unavailable data point for an individual stock.
5. The values of the six factors are z-scored for each stock for normalization.
6. Cluster analysis, a multivariate statistical procedure, is conducted based on the six factors, and then—based on the total Euclidian distance from the growth and value seeds—each stock is given a style score.
7. Style assignments are finalized based on buffers that are determined by ranking each index’s constituents by style score and determining a style score midpoint (i.e., the point where growth and value probabilities equal 50%).
   - Any company within 5% of the style score midpoint (i.e., greater than 45% or less than 55%) will retain its previous style classification in the index.
• Any company with a style score beyond the 5% buffer around the style score midpoint (i.e., less than 45% or greater than 55%) will be classified into the new style category in the index.

• Any company ranked 5%-15% beyond the style score midpoint (i.e., between 35% and 45% or between 55% and 65%) that changed style in the previous style classification will retain its current style classification in the index. However, if the company changes style in the next style classification, it will be assigned the new style in the index.

8. Dow Jones U.S. Mid-Cap Total Stock Market Index constituents are assigned to either the mid-cap growth or mid-cap value index based on their assignments at either the large-cap or small-cap level.

For quarterly updates, the Size and Sector of the addition are compared to the current index for all stocks in the same Size/Sector grouping. The addition is assigned to the Style that is most common by count. If the count between groups is the same, the stock is added to the group with the highest market cap.

The effects of corporate actions and index composition changes on the split between the market capitalizations of the growth and value indexes after the snapshot date will not be accounted for until the next annual review.

**Constituent Weightings**

At each rebalancing, the indices are FMC weighted.

**Index Calculations**

Each index is calculated by means of the divisor methodology used in all S&P Dow Jones Indices’ equity indices.

*For more information on the index calculations, please refer to the Market Capitalization Weighted Indices section of S&P Dow Jones Indices’ Index Mathematics Methodology.*
Index Maintenance

Rebalancing

Annual Reconstitution. The indices reconstitute annually in September. The process includes the review of all stocks to determine eligibility according to the existing criteria. In addition, the IWF for each stock is reviewed and updated as needed. Changes are implemented after the close of the third Friday in September.

For index selection purposes, all Dow Jones U.S. Total Stock Market Indices use shares outstanding and IWF figures as of the rebalancing effective date.

Quarterly Updates. Share counts are updated to the latest publicly available filings on a quarterly basis. IWF changes are only made at the quarterly review if the change represents at least 5% of the total current shares outstanding and is related to a single corporate action (as described in the Equity Indices Policies and Practices methodology).

The reference date for the annual reconstitution and quarterly rebalancings is five weeks prior to the effective date.

Ongoing Maintenance

The indices are also reviewed on an ongoing basis to account for corporate events such as mergers, takeovers, delistings, or bankruptcies. Changes to index composition and related weight adjustments are made as soon as they are effective.

Initial Public Offerings (IPOs). IPOs and new listings on eligible exchanges are added to their respective indices at the next quarterly update if the new listing meets all eligibility requirements. The reference date for IPO inclusions will be five weeks prior to the effective rebalance date and additions are effective prior to the open of Monday following the third Friday of March, June, September, and December.

IPO Fast-Track Entry. Certain large IPOs may be eligible for fast-track entry, subject to the following conditions:

- Only newly public IPOs and direct placement listings will be considered eligible for fast-track entry. Formerly bankrupt companies that switch from Over-the-Counter Exchange (“OTC”) or a non-covered exchange to an S&P Dow Jones Indices covered exchange are ineligible.
- Fast-track IPO additions must meet a minimum FMC threshold of US$ 2 billion, calculated using the shares offered (excluding over-allotment options) and the closing price on the first day of trading on an eligible exchange. The threshold level is reviewed from time to time and updated as needed to assure consistency with market conditions.
- Fast track direct placement listings additions must meet a minimum FMC threshold of US$ 2 billion, calculated using the shares available to the public as determined by its investable weight factor, and the closing price on the first day of trading on an eligible exchange.
- In addition, the IPO will need to meet all other applicable index eligibility rules except for the liquidity requirement. If all necessary public information is available, S&P Dow Jones Indices verifies that the fast-track conditions have been met. Once S&P Dow Jones Indices announces that the IPO is eligible for fast-track addition, it is added to the index with five business days lead time. At the discretion of the Index Committee, fast-track IPO additions eligible to be added during a quarterly rebalancing freeze period may instead be added on the rebalancing effective date.
- Fast-track IPOs are assigned size and style at the time of the addition according to the rules outlined in the Eligibility Criteria section.

**Issues Re-emerging from Pink Sheets, OTC Securities, or Bankruptcy Status.** Issues re-emerging from pink sheets, OTC securities, or bankruptcy status on eligible exchanges are added to their respective indices at the next quarterly update provided the new listing satisfies all eligibility requirements. Additions are effective prior to the open of Monday following the third Friday of March, June, September, and December, using a reference date as of five weeks prior to the rebalancing effective date.

**Additions**

Generally, no companies are added to an index between annual reconstitutions except for spinoffs, IPOs, issues re-emerging from pink sheets, OTC securities, or bankruptcy status, as described in the previous section. Any exceptions to this rule are announced to clients with ample lead time.

**Spinoffs.** Spinoffs from index constituents are added to the index at the time of the spinoff and remain in the index providing the spin-off satisfies all eligibility requirements. Spinoffs are assigned the same size and style as the parent company at the time of the event, with the spin-off’s size evaluated at the subsequent quarterly update.

**Deletions**

A company is deleted from the index if it is involved in a merger, acquisition, or significant restructuring such that it no longer meets the eligibility criteria:

- A company delisted as a result of a merger, acquisition or other corporate action is removed at a time announced by S&P Dow Jones Indices, normally at the close of the last day of trading or expiration of a tender offer. Constituents that are halted from trading may be kept in the index until trading resumes, at the discretion of the Index Committee. If a stock is moved to the pink sheets or the OTC securities, the stock is removed.

A company that substantially violates one or more of the eligibility criteria may be deleted at the Index Committee’s discretion. For more information, please refer to S&P Dow Jones Indices’ Equity Indices Policies & Practices Methodology.

**Corporate Actions**

For information on corporate actions, please refer to the Market Capitalization Indices section of S&P Dow Jones Indices’ Equity Indices Policies & Practices Methodology.

**Currency of Calculation and Additional Index Return Series**

The indices calculate in U.S. dollars.

In addition to the indices detailed in this methodology, additional return series versions of the indices may be available, including, but not limited to the following: currency, currency hedged, decrement, fair value, inverse, leveraged, and risk control versions. For a list of available indices, please refer to the S&P DJI Methodology & Regulatory Status Database.

For information on various index calculations, please refer to S&P Dow Jones Indices’ Index Mathematics Methodology.

For the inputs necessary to calculate certain types of indices, including decrement, dynamic hedged, fair value, and risk control indices, please refer to the Parameters documents available at www.spglobal.com/spdji.

**Investable Weight Factor (IWF)**
All issues in the Dow Jones U.S. Total Stock Market Indices are assigned a float factor, called an Investable Weight Factor (IWF). The IWF ranges between 0 and 1 and is an adjustment factor that accounts for the publicly available shares of a company. The company’s adjusted market capitalization determines an equity issue’s relative weight in the index.

Please refer to S&P Dow Jones Indices’ Float Methodology for details.

Other Adjustments

In cases where there is no achievable market price for a stock being deleted, it can be removed at a zero or minimal price at the Index Committee’s discretion.

Base Dates and History Availability

Index history availability, base dates, and base values are shown in the table below.

<table>
<thead>
<tr>
<th>Index</th>
<th>Launch Date</th>
<th>First Value Date</th>
<th>Base Date</th>
<th>Base Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dow Jones U.S. TSM Index</td>
<td>01/01/1987</td>
<td>01/01/1987</td>
<td>01/01/1987</td>
<td>2434.95</td>
</tr>
<tr>
<td>Dow Jones U.S. Completion TSM Index*</td>
<td>01/30/1987</td>
<td>01/30/1987</td>
<td>01/30/1987</td>
<td>111.14</td>
</tr>
<tr>
<td>Dow Jones U.S. Diversified REITs Total Stock Market Index</td>
<td>06/20/2008</td>
<td>06/20/2008</td>
<td>06/20/2008</td>
<td>1000</td>
</tr>
<tr>
<td>Dow Jones U.S. Hotel &amp; Lodging REITs Total Stock Market Index</td>
<td>06/20/2008</td>
<td>06/20/2008</td>
<td>06/20/2008</td>
<td>1000</td>
</tr>
<tr>
<td>Dow Jones U.S. Industrial &amp; Office REITs Total Stock Market Index</td>
<td>06/20/2008</td>
<td>06/20/2008</td>
<td>06/20/2008</td>
<td>1000</td>
</tr>
<tr>
<td>Dow Jones U.S. Mortgage REITs Total Stock Market Index</td>
<td>06/20/2008</td>
<td>06/20/2008</td>
<td>06/20/2008</td>
<td>1000</td>
</tr>
<tr>
<td>Dow Jones U.S. Real Estate Holding &amp; Development Total Stock Market Index</td>
<td>06/20/2008</td>
<td>06/20/2008</td>
<td>06/20/2008</td>
<td>1000</td>
</tr>
<tr>
<td>Dow Jones U.S. Real Estate Services Total Stock Market Index</td>
<td>06/20/2008</td>
<td>06/20/2008</td>
<td>06/20/2008</td>
<td>1000</td>
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<tr>
<td>Dow Jones U.S. Residential REITs Total Stock Market Index</td>
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<td>06/20/2008</td>
<td>06/20/2008</td>
<td>1000</td>
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<tr>
<td>Dow Jones U.S. Retail REITs Total Stock Market Index</td>
<td>06/20/2008</td>
<td>06/20/2008</td>
<td>06/20/2008</td>
<td>1000</td>
</tr>
<tr>
<td>Dow Jones U.S. Specialty REITs Total Stock Market Index</td>
<td>06/20/2008</td>
<td>06/20/2008</td>
<td>06/20/2008</td>
<td>1000</td>
</tr>
</tbody>
</table>

* The full-market-capitalization Dow Jones U.S. Total Stock Market Index has a base date of January 1, 1987, and a base value 2,434.95 for the price return version and 5.67 for the total return version. The float-adjusted Dow Jones U.S. Total Stock Market Index was introduced on April 30, 2004, with the same index values as the full-capitalization indices. The float-adjusted-market-capitalization Dow Jones U.S. Completion Total Stock Market Index was similarly chain-linked to a full-market-cap version (no longer calculated), which had a base date of January 30, 1987, and a base value of 111.14. Because the historical full-capitalization indices were chain-linked to the float-adjusted indices on April 30, 2004, the published returns of the full-capitalization indices through that date serve as the historical track records for both the float-adjusted and full-capitalization series.


≠ Dates and values for industry and sector indices based on S&P Dow Jones Indices’ proprietary classification system may vary, depending upon when individual industry, supersector, sector and subsector indices were created.
Index Data

Calculation Return Types

S&P Dow Jones Indices calculates multiple return types which vary based on the treatment of regular cash dividends. The classification of regular cash dividends is determined by S&P Dow Jones Indices.

- Price Return (PR) versions are calculated without adjustments for regular cash dividends.
- Gross Total Return (TR) versions reinvest regular cash dividends at the close on the ex-date without consideration for withholding taxes.
- Net Total Return (NTR) versions, if available, reinvest regular cash dividends at the close on the ex-date after the deduction of applicable withholding taxes.

In the event there are no regular cash dividends on the ex-date, the daily performance of all three indices will be identical.

For a complete list of indices available, please refer to the daily index levels file (".SDL").

For more information on the classification of regular versus special cash dividends as well as the tax rates used in the calculation of net return, please refer to S&P Dow Jones Indices’ Equity Indices Policies & Practices Methodology.

For more information on the calculation of return types, please refer to S&P Dow Jones Indices’ Index Mathematics Methodology.
Index Governance

Index Committee

An S&P Dow Jones Indices Index Committee maintains the indices. All committee members are full-time professional members of S&P Dow Jones Indices’ staff. The committee meets regularly. At each meeting, the Index Committee reviews pending corporate actions that may affect index constituents, statistics comparing the composition of the indices to the market, companies that are being considered as candidates for addition to an index, and any significant market events. In addition, the Index Committee may revise index policy covering rules for selecting companies, treatment of dividends, share counts or other matters.

S&P Dow Jones Indices considers information about changes to its indices and related matters to be potentially market moving and material. Therefore, all Index Committee discussions are confidential.

S&P Dow Jones Indices’ Index Committees reserve the right to make exceptions when applying the methodology if the need arises. In any scenario where the treatment differs from the general rules stated in this document or supplemental documents, clients will receive sufficient notice, whenever possible.

In addition to the daily governance of indices and maintenance of index methodologies, at least once within any 12-month period, the Index Committee reviews the methodology to ensure the indices continue to achieve the stated objectives, and that the data and methodology remain effective. In certain instances, S&P Dow Jones Indices may publish a consultation inviting comments from external parties.

*For information on Quality Assurance and Internal Reviews of Methodology, please refer to S&P Dow Jones Indices’ Equity Indices Policies & Practices Methodology.*
Index Policy

Announcements
All index constituents are evaluated daily for data needed to calculate index levels and returns. All events affecting the daily index calculation are typically announced in advance via the Index Corporate Events report (SDE), delivered daily to all clients. Any unusual treatment of a corporate action or short notice of an event may be communicated via email to clients.

Pro-forma Files
In addition to the corporate events file (.SDE), S&P Dow Jones Indices provides constituent pro-forma files each time the indices rebalance. The pro-forma file is typically provided daily in advance of the rebalancing date and contains all constituents as well as their corresponding weights and index shares effective for the upcoming rebalancing.

Please visit www.spglobal.com/spdji for a complete schedule of rebalancing timelines and pro-forma delivery times.

Holiday Schedule
The Dow Jones U.S. Total Stock Market Indices are calculated when the U.S. equity markets are open.

A complete holiday schedule for the year is available on S&P Dow Jones Indices’ Web site at www.spglobal.com/spdji.

Rebalancing
The Index Committee may change the date of a given rebalancing for reasons including market holidays occurring on or around the scheduled rebalancing date. Any such change will be announced with proper advance notice where possible.

Unexpected Exchange Closures
For information on Unexpected Exchange Closures, please refer to S&P Dow Jones Indices’ Equity Indices Policies & Practices Methodology.

Recalculation Policy
For information on the recalculation policy, please refer to S&P Dow Jones Indices’ Equity Indices Policies & Practices Methodology.

Real-Time Calculation
Real-time, intra-day, index calculations are executed for certain indices, whenever any of the index’s primary exchanges are open. Real-time indices are not restated.

For information on Calculations and Pricing Disruptions, Expert Judgment and Data Hierarchy, please refer to S&P Dow Jones Indices’ Equity Indices Policies & Practices Methodology.

Contact Information
For any questions regarding an index, please contact: index_services@spglobal.com.
Index Dissemination

Index levels are available through S&P Dow Jones Indices’ Web site at www.spglobal.com/spdji, major quote vendors (see codes below), numerous investment-oriented Web sites, and various print and electronic media.

Tickers

The table below lists headline indices covered by this document. All versions of the below indices that may exist are also covered by this document. Please refer to the S&P DJI Methodology & Regulatory Status Database for a complete list of indices covered by this document.

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<th>Index</th>
<th>Price Return</th>
<th>Total Return</th>
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<td></td>
<td>BBG</td>
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<tr>
<td>Dow Jones U.S. TSM Index</td>
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<td>Size Segment and Style Indices:</td>
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<td>Mid-Cap Growth Index</td>
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<tr>
<td>Mid-Cap Value Index</td>
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<td>DWS</td>
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<td>Real Estate Indices:</td>
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<td>Diversified REITs TSM Index</td>
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<td>Hotel &amp; Lodging REITs TSM Index</td>
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<td>Industrial &amp; Office REITs TSM Index</td>
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<td>Real Estate Holding &amp; Development TSM Index</td>
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<td>Real Estate Investment &amp; Services TSM Index</td>
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<td>Specialty REITs TSM Index</td>
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<td>Dow Jones U.S. Broad Stock Market Index</td>
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<tr>
<td>Dow Jones U.S. Completion TSM Index</td>
<td>DWCPF</td>
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</table>

Index Data

Daily constituent and index level data are available via subscription.

Web site

For further information, please refer to S&P Dow Jones Indices’ Web site at www.spglobal.com/spdji.
## Methodology Changes

Methodology changes since January 1, 2015, are as follows:

<table>
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<tr>
<th>Change</th>
<th>Effective Date (After Close)</th>
<th>Previous Methodology</th>
<th>Updated Methodology</th>
</tr>
</thead>
<tbody>
<tr>
<td>IPO Fast-Track Eligibility</td>
<td>04/30/2019</td>
<td>--</td>
<td>Certain large IPOs may be eligible for fast-track entry, subject to the following conditions:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Only newly public IPOs and direct placement listings will be considered eligible for fast-track entry. Formerly bankrupt companies that switch from Over-the-Counter Exchange (“OTC”) or a non-covered exchange to an S&amp;P Dow Jones Indices covered exchange are ineligible.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Fast-track IPO additions must meet a minimum FMC threshold of US$ 2 billion, calculated using the shares offered (excluding over-allotment options) and the closing price on the first day of trading on an eligible exchange. The threshold level is reviewed from time to time and updated as needed to assure consistency with market conditions.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• In addition, the IPO will need to meet all other applicable index eligibility rules except for the liquidity requirement. If all necessary public information is available, S&amp;P Dow Jones Indices verifies that the fast-track conditions have been met. Once S&amp;P Dow Jones Indices announces that the IPO is eligible for fast-track addition, it is added to the index with five business days lead time. At the discretion of the Index Committee, fast-track IPO additions eligible to be added during a quarterly rebalancing freeze period may instead be added on the rebalancing effective date.</td>
</tr>
<tr>
<td>U.S. Domicile Requirement</td>
<td>09/15/2017</td>
<td>No specific SEC filing requirement.</td>
<td>The company must file 10-K annual reports.</td>
</tr>
<tr>
<td>Eligible Exchanges</td>
<td>09/15/2017</td>
<td>Eligible securities include all U.S. common equities listed on NYSE, NYSE Arca, NYSE American (formerly NYSE MKT), NASDAQ Global Select Market, NASDAQ Select Market, NASDAQ Capital Market, Bats BZX, Bats BYX, Bats EDGA, and Bats EDGX exchanges.</td>
<td>Eligible securities include all U.S. common equities listed on NYSE, NYSE Arca, NYSE American, NASDAQ Global Select Market, NASDAQ Select Market, NASDAQ Capital Market, Bats BZX, Bats BYX, Bats EDGA, Bats EDGX, and IEX exchanges.</td>
</tr>
<tr>
<td>IWF and Liquidity Requirements</td>
<td>06/22/2015</td>
<td>Stocks followed IWF and liquidity rules for developed market stocks.</td>
<td>Non-constituent stocks with an IWF of 10% (0.10) or less are ineligible. Current constituents have no minimum requirement. Non-constituent stocks with an annual dollar value traded to float-adjusted market capitalization ratio of less than 10% are ineligible. Current constituents have no minimum requirement.</td>
</tr>
</tbody>
</table>
Appendix II

ESG Disclosures

<table>
<thead>
<tr>
<th>EXPLANATION OF HOW ENVIRONMENTAL, SOCIAL &amp; GOVERNANCE (ESG) FACTORS ARE REFLECTED IN THE KEY ELEMENTS OF THE BENCHMARK METHODOLOGY¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Name of the benchmark administrator.</td>
</tr>
<tr>
<td>2. Underlying asset class of the ESG benchmark.²</td>
</tr>
<tr>
<td>3. Name of the S&amp;P Dow Jones Indices benchmark or family of benchmarks.</td>
</tr>
<tr>
<td>4. Do any of the indices maintained by this methodology take into account ESG factors?</td>
</tr>
<tr>
<td>Appendix latest update:</td>
</tr>
<tr>
<td>Appendix first publication:</td>
</tr>
</tbody>
</table>

¹ The information contained in this Appendix is intended to meet the requirements of the European Union Commission Delegated Regulation (EU) 2020/1817 supplementing Regulation (EU) 2016/1011 of the European Parliament and of the Council as regards the minimum content of the explanation of how environmental, social and governance factors are reflected in the benchmark methodology and the retained EU law in the UK [The Benchmarks (amendment and Transitional Provision) (EU Exit) Regulations 2019].

² The ‘underlying assets’ are defined in European Union Commission Delegated Regulation (EU) 2020/1816 supplementing Regulation (EU) 2016/1011 of the European Parliament and of the Council as regards the explanation in the benchmark statement of how environmental, social and governance factors are reflected in each benchmark provided and published.
Disclaimer

Performance Disclosure/Back-Tested Data

Where applicable, S&P Dow Jones Indices and its index-related affiliates (“S&P DJI”) defines various dates to assist our clients in providing transparency. The First Value Date is the first day for which there is a calculated value (either live or back-tested) for a given index. The Base Date is the date at which the index is set to a fixed value for calculation purposes. The Launch Date designates the date when the values of an index are first considered live: index values provided for any date or time period prior to the index’s Launch Date are considered back-tested. S&P DJI defines the Launch Date as the date by which the values of an index are known to have been released to the public, for example via the company's public website or its data feed to external parties. For Dow Jones-branded indices introduced prior to May 31, 2013, the Launch Date (which prior to May 31, 2013, was termed “Date of introduction”) is set at a date upon which no further changes were permitted to be made to the index methodology, but that may have been prior to the Index’s public release date.

Please refer to the methodology for the Index for more details about the index, including the manner in which it is rebalanced, the timing of such rebalancing, criteria for additions and deletions, as well as all index calculations.

Information presented prior to an index’s launch date is hypothetical back-tested performance, not actual performance, and is based on the index methodology in effect on the launch date. However, when creating back-tested history for periods of market anomalies or other periods that do not reflect the general current market environment, index methodology rules may be relaxed to capture a large enough universe of securities to simulate the target market the index is designed to measure or strategy the index is designed to capture. For example, market capitalization and liquidity thresholds may be reduced. In addition, forks have not been factored into the back-test data with respect to the S&P Cryptocurrency Indices. For the S&P Cryptocurrency Top 5 & 10 Equal Weight Indices, the custody element of the methodology was not considered; the back-test history is based on the index constituents that meet the custody element as of the Launch Date. Back-tested performance reflects application of an index methodology and selection of index constituents with the benefit of hindsight and knowledge of factors that may have positively affected its performance, cannot account for all financial risk that may affect results and may be considered to reflect survivor/look ahead bias. Actual returns may differ significantly from, and be lower than, back-tested returns. Past performance is not an indication or guarantee of future results.

Typically, when S&P DJI creates back-tested index data, S&P DJI uses actual historical constituent-level data (e.g., historical price, market capitalization, and corporate action data) in its calculations. As ESG investing is still in early stages of development, certain datapoints used to calculate certain ESG indices may not be available for the entire desired period of back-tested history. The same data availability issue could be true for other indices as well. In cases when actual data is not available for all relevant historical periods, S&P DJI may employ a process of using “Backward Data Assumption” (or pulling back) of ESG data for the calculation of back-tested historical performance. "Backward Data Assumption" is a process that applies the earliest actual live data point available for an index constituent company to all prior historical instances in the index performance. For example, Backward Data Assumption inherently assumes that companies currently not involved in a specific business activity (also known as “product involvement”) were never involved historically and similarly also assumes that companies currently involved in a specific business activity were involved historically too. The Backward Data Assumption allows the hypothetical back-test to be extended over more historical years than would be feasible using only actual data. For more information on “Backward Data Assumption” please refer to the FAQ. The methodology and factsheets of any index that employs backward assumption in the back-tested history will explicitly state so. The methodology will include an Appendix with a table setting forth the specific data points and relevant time period for which backward projected data was used. Index returns shown do not represent the results of actual trading of investable assets/securities. S&P DJI maintains the index and calculates the index levels and performance shown or discussed but does not manage any assets.
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