



NYSE® American Composite Index™ (XAX)

**NYSE® American Composite - Technology
Subsector Index™ (XIT)**

**NYSE® American Composite - Healthcare
Subsector Index™ (XHL)**

**NYSE® American Composite - Industrials
Subsector Index™ (XID)**

**NYSE® American Composite - Natural
Resources Subsector Index™ (XNA)**

**NYSE® American Composite - Financials
Subsector Index™ (XFI)**

Version 2.0
Valid from
April 30, 2018

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Version History:

Version 2.0 (Effective April 30, 2018)

The new methodology format for the NYSE® American Indices is being released to provide greater details and clarity into the Index governance, structure, and maintenance.

Version 1.0 (Effective December 29, 1995)

The methodology document covers the newly-launched NYSE® American Composite Index™, NYSE® American Composite - Technology Subsector Index™, NYSE® American Composite - Healthcare Subsector Index™, NYSE® American Composite - Industrials Subsector Index™, NYSE® American Composite - Natural Resources Subsector Index™, NYSE® American Composite - Financial Subsector Index™.

1. Index summary

Factsheet	
Full Names	NYSE® American Composite Index™ NYSE® American - Technology Subsector Index™ NYSE® American - Healthcare Subsector Index™ NYSE® American - Industrials Subsector Index™ NYSE® American - Natural Resources Subsector Index™ NYSE® American - Financial Subsector Index™
Index Types	Price Return (USD): XAX Price Return (USD): XIT Price Return (USD): XHL Price Return (USD): XID Price Return (USD): XNA Price Return (USD): XFI
Index Description	These Indices are rules-based indices designed to measure the performance of highly capitalized companies in key market sectors and regions. Index composition and corporate actions, including rebalance information, can be accessed from NYSE Market Data at www.nyse.com/market-data/indices .
Eligible Stocks	All component stocks will be listed on the New York Stock Exchange American (“NYSE American”), and be recognized as reported National Market System (“NMS”) securities including REITs, Master Limited Partnerships, and Closed End Investment Vehicles
Number of Constituents	Variable
Weighting	Capitalization-weighted
Review of Composition	N/A
Effective Date of the Rebalance	N/A
Calculation Frequency	Price: Every 15 seconds between 09:30 & 18:00 ET
Base Date	XAX: December 29, 1995
Base Level	XAX: 550.00

<i>Historic Data Available Since</i>	XAX: October 2, 1986 XIT: January 2, 1997 XHL: January 2, 1997 XID: January 2, 1997 XNA: January 2, 1997 XFI: January 2, 1997
<i>Bloomberg Code</i>	XAX <INDEX> XIT <INDEX> XHL <INDEX> XID <INDEX> XNA <INDEX> XFI <INDEX>
<i>Reuters Code</i>	.XAX .XIT .XHL .XID .XNA .XFI
<i>Launch Date</i>	XAX: December 29, 1995
<i>Website</i>	https://www.theice.com/market-data/indices

2. Governance

Index Sponsor & Administrator

ICE Data Indices, LLC (“IDI”) is the Index Sponsor and the Index Administrator.

IDI is responsible for the day-to-day management of the Index, 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 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 index 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 and index constituent changes 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’s and the Governance Committee discussions and decisions are confidential until released to the public.

Cases not covered in rules

In cases which are not expressly covered in these rules, operational adjustments will take place along the lines of the aim of the Index. 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.

Rule book changes

The 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.

Limitations of the Index

All the NYSE indices produced by IDI (“the NYSE Indices”) may be subject to potential limitations, such as a decline in the pool of available eligible securities due to advancements in technology,

shifts in demographic spending or 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.

IDI seeks to manage and mitigate these limitations through the Benchmark design, review and oversight process.

3. Index Description

NYSE® American Composite Index™ (XAX) - reflects the aggregate market value of all common stocks and ADRs of all NYSE American-listed companies, REITs, master limited partnerships, and closed end investment vehicles.

NYSE® American Composite - Technology Subsector Index™ (XIT) - a market capitalization weighted index that is composed of equities NYSE-American listed companies by market cap that have been determined to offer goods and services in the Technology Sector.

NYSE® American Composite - Healthcare Subsector Index™ (XHL) - a market capitalization weighted index that is composed of equities NYSE-American listed companies by market cap that have been determined to offer goods and services in the Healthcare Sector.

NYSE® American Composite - Industrials Subsector Index™ (XID) - a market capitalization weighted index that is composed of equities NYSE-American listed companies by market cap that have been determined to offer goods and services in the Industrials Sector.

NYSE® American Composite - Natural Resources Subsector Index™ (XNA) - a market capitalization weighted index that is composed of equities NYSE-American listed companies by market cap that have been determined to offer goods and services in the Natural Resources Sector.

NYSE® American Composite - Financial Subsector Index™ (XFI) - a market capitalization weighted index that is composed of equities NYSE-American listed companies by market cap that have been determined to offer goods and services in the Financial Sector.

4. Publication

4.1 The opening, intraday and closing or daily publication of index values.

Opening

The first index level is calculated and published around 09:30 ET, when the U.S. equity markets open for their regular trading session. The calculation of that level utilizes the most updated prices available at that moment. In the case of constituents that have a non-traded, halted or suspended status, or have not opened for the current day, the previous day's reference prices (primary exchange official closes) or estimated prices (for IPOs, buyouts and swap offers) are used.

Dissemination frequency

The level of the price return and gross total return indexes are in principle published every 15 seconds to the ICE Data Global Index Feed (ICE Data GIF). The calculated index levels incorporate the latest traded price of each constituent from within the regular trading session, normally 09:30 to 16:00 ET. The index only holds equities listed and traded in the U.S., and thus, intraday calculations of the index would incorporate trades on a consolidated level, from all exchanges including those not designated as the official primary exchange.

The index is calculated from 09:30 until 18:00 ET on those days specified as index business days. Index business days will be classified as days on which the U.S. Equity Markets (NYSE, NASDAQ and NYSE American) are open for a full or partial day of trading.

Closing level

The closing level is the last level disseminated on the trading day and uses the official close prices from the primary listing market, NYSE American, for each constituent. For constituents that have non-traded, halted or suspended status, or have not opened for the current day, the previous day's reference prices (primary exchange official closes) or estimated prices (for IPOs, buyouts and swap offers) are used instead. 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.

Sources of Data

The Consolidated Tape (CTS/UDTF) is the primary market data source for U.S. equity real-time and closing prices. Additional sources of data less commonly used include market data vendors, company announcements, exchange announcements and other official sources.

4.2 Exceptional market conditions and corrections

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

If index constituent prices are cancelled, 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. If incorrect price or corporate action data affects index daily closing values, they are corrected retroactively as soon as possible and all revisions are communicated out to the public and market data vendors.

There is the possibility of an exchange or market-wide event resulting in the normal closing auction not going off or official closing prices not being available. In those situations, the index will take guidance from the respective exchange(s) and address on an event-by-event basis. Exchange or market-wide events include, but are not limited to, the following:

- Volatility Halts
 - LULD (Limit Up / Limit Down)
 - Market Wide Circuit Breaker
- Technological Problems / Failures
- Natural Disaster or Other BCP-Related Event

4.3 Changes to the Index

Announcement policy

Changes to the index methodology will be announced by an index announcement which will be distributed by IDI via www.nyse.com/indices and NYSE Market Data at www.nyse.com/market-data/indices.

As a general rule, the announcement periods that are mentioned below will be applied. However, Emergency actions, including urgently required corporate action treatments, often resulting from late notices from the relevant company or exchange, may require the Index Administrator to deviate from the standard timing.

Inclusion of new constituents

The inclusion of new companies in the index will typically only occur based on a specific corporate action affecting a current constituent. The inclusion of the new company will be announced on the listing day after the first trade of the company on NYSE American.

Removal of Constituents

Components would be removed from the index as a result of periodic corporate actions. All removals will be announced at least one trading day before the effective date of the removal. It should be noted that in the case of mergers and acquisitions, every effort will be made to remove the company at some reasonable time ahead of the suspension in trading in the acquired company. There will be certain situations and corporate actions that would require the removal of a company that has already ceased trading. In those cases, the company will be removed from the index at its last traded price, or, at the discretion of the Index Administrator, at a derived price that most accurately represents its post-suspension value.

Corporate actions

In case of an event that could affect one or more constituents, the Index Administrator will inform the market about the intended treatment of the event in the index shortly after the firm details have become available and have been confirmed. When possible, the corporate action will be announced, even if not all information is known, at least one trading day before the effective date of the action. Once the corporate action has been effectuated, the Index Administrator will confirm the changes in a separate announcement.

Rule changes

Going forward, barring exceptional circumstances, the Index Administrator shall announce proposed Rules changes to stakeholders prior to them being implemented. Stakeholders shall also be notified of when the changes shall take effect.

Index Reviews

IDI shall undertake regular reviews of the Index, the methodology and the market which it represents to ensure it continues to meet the index objective, in accordance with IDI's policies and procedures. Should changes to the Index be required or proposed, this will be communicated to stakeholders in accordance with IDI's policies and procedures.

Consultations

IDI may from time to time consult with stakeholders on proposed material changes that affect the Index in accordance with IDI's policies and procedures including IDI's consultation policy: https://www.theice.com/publicdocs/Consultation_Policy.pdf. Such proposals shall be published to Stakeholders and all feedback received will be considered by the Index Administrator. Any resulting changes to the Index will be announced prior to it being implemented.

Reconstitution/Rebalance: Publication of Results

The new composition of the index, including the companies to be a part of the index and their corresponding new index shares, will be announced at least two trading days before the effective date and can be accessed from NYSE Market Data at www.nyse.com/market-data/indices.

5. Calculation

5.1 Calculation of the price index

The index is calculated on a Price Return basis. The current index level would be calculated by dividing the current modified index market capitalization by the index divisor. The divisor was determined off of the initial capitalization base of the index and the base level. The divisor is updated as a result of corporate actions and composition changes.

A full description of the formulae used to calculate Price Return index values can be found in the “NYSE Indices Guide to Index Mathematics” at <https://www.nyse.com/indices/rules>.

6. Index rebalances

6.1 General aim of rebalances and frequency

General aim of the periodical rebalance

As these indices are meant to reflect the current listed membership of the NYSE® American stock exchange, there is no discreet rebalance process that is employed in the ongoing maintenance of the indices. The Index Administrator reserves the right to, at any time, change the number of stocks comprising the index by adding or deleting one or more stocks, or replacing one or more stocks contained in the index with one or more substitute stocks of its choice, if in the Index Administrator's discretion such addition, deletion or substitution is necessary or appropriate to maintain the quality and/or character of the index.

Frequency

Changes to index constituents occur on an ad hoc basis and are dependent on the listing or delisting of equity securities on the NYSE® American stock exchange.

6.2 Index universe and selection principle

Index Universe

NYSE® American Composite Index™ (XAX)

Development and maintenance of the component universe for the NYSE® American Composite Index™ is undertaken by IDI. The Universe is composed of all NYSE® American listed common stocks, ADRs and REITs, Master Limited Partnerships, and Closed End Investment Vehicles.

NYSE® American Composite - Technology Subsector Index™ (XIT)

Development and maintenance of the component universe for the NYSE® American Composite - Technology Subsector Index™ is undertaken by IDI. The Universe is composed of all NYSE American listed equity securities that are determined by IDI to be representative of the Technology sector. This determination is completed using publically available information on individual security issuers as well as the industry. 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 Technology sector and to ensure that the pool of component securities continues to represent the Technology sector, in accordance with the Index requirements.

NYSE® American Composite - Healthcare Subsector Index™ (XHL)

Development and maintenance of the component universe for the NYSE® American Composite - Healthcare Subsector Index™ is undertaken by IDI. The Universe is composed of all NYSE American listed equity securities that are determined by IDI to be representative of the Healthcare sector. This determination is completed using publically available information on individual security issuers as well as the industry. 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 Healthcare sector and to ensure that the pool of component securities continues to represent the Healthcare sector, in accordance with the Index requirements.

NYSE® American Composite - Industrials Subsector Index™ (XID)

Development and maintenance of the component universe for the NYSE® American Composite - Industrials Subsector Index™ is undertaken by IDI. The Universe is composed of all NYSE American listed equity securities that are determined by IDI to be representative of the Industrials sector. This determination is completed using publically available information on individual security issuers as well as the industry. 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 Industrials sector and to ensure that the pool of component securities continues to represent the Industrials sector, in accordance with the Index requirements.

NYSE® American Composite - Natural Resources Subsector Index™ (XNA)

Development and maintenance of the component universe for the NYSE® American Composite - Natural Resources Subsector Index™ is undertaken by IDI. The Universe is composed of all NYSE American listed equity securities that are determined by IDI to be representative of the Natural Resources sector. This determination is completed using publically available information on individual security issuers as well as the industry. 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 Natural Resources sector and to ensure that the pool of component securities continues to represent the Natural Resources sector, in accordance with the Index requirements.

NYSE® American Composite - Financials Subsector Index™ (XFI)

Development and maintenance of the component universe for the NYSE® American Composite - Financials Subsector Index™ is undertaken by IDI. The Universe is composed of all NYSE American listed equity securities that are determined by IDI to be representative of the Financials sector. This determination is completed using publically available information on individual security issuers as well as the industry. 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 Financials sector and to ensure that the pool of component securities continues to represent the Financials sector, in accordance with the Index requirements.

All index component candidates must be common shares or other securities that have the characteristics of common equities. All classes of common shares, both fully and partially paid, are eligible for consideration. However, only the most liquid class of each company's stock may be included in the index. Fixed-dividend shares and securities such as convertible notes, warrants, rights, mutual funds, unit investment trusts, shares in limited partnerships and tracking stocks are not eligible. Temporary issues arising from corporate actions, such as "when issued" shares, are considered on a case-by-case basis when necessary to maintain continuity in a company's index membership

Selection of constituents

At each IPO or new listing, the NYSE® American Composite Index™ will add a component utilizing the following criteria:

1. The listing should be listed on the NYSE American Exchange
2. The listed company stock is either of the following -
 - a. Common Stock
 - b. American Depository Receipt (ADR)
3. The listed company stock belongs to one of the following types -
 - a. Common Stock or ADRs
 - b. Real Estate Investment Trust (REIT)
 - c. Master Limited Partnership (MLP)
 - d. Closed End Investment Vehicles (eg. Closed End Fund CEF)

6.3 Periodical update of weighting

There are no rebalances in the NYSE® American Index Series.

7. Corporate Actions

7.1 General

The index may be adjusted in order to maintain the continuity of the index level and the composition. The underlying aim is that the index continues to reflect as closely as possible the index's objective to measure the performance of highly capitalized companies in key market sectors and regions listed on NYSE American.

Adjustments take place in reaction to events that occur with constituents in order to mitigate or eliminate the effect of that event on the index performance.

A full description of standard corporate action events and their handling can be found in the "NYSE Indexes Corporate Action Handling Guide" at <https://www.nyse.com/indices/rules>.

8. Disclaimer

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Intercontinental Exchange, Inc., the ultimate parent company of IDI, keeps certain activities of its business units separate from each other in order to preserve the independence and objectivity of their respective activities. As a result, certain business units of Intercontinental Exchange, Inc. may have information that is not available to other business units. IDI has established policies and procedures to maintain the confidentiality of certain non-public information received in connection with each analytical process. There is no obligation on IDI to disclose information held by it in relation to any Index to other parties.

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