

DUFF & PHELPS

**2018** Valuation Handbook  
U.S. Industry Cost of Capital

Market Results Through March 2018

Duff & Phelps

Company and SIC List

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# About Duff & Phelps

Duff & Phelps is the global advisor that protects, restores and maximizes value for clients in the areas of valuation, corporate finance, disputes and investigations, compliance and regulatory matters and other governance-related issues. Our clients include publicly traded and privately held companies, law firms, government entities and investment organizations such as private equity firms and hedge funds. We also advise the world's leading standard-setting bodies on valuation and governance best practices. The firm's nearly 2,500 professionals are located in over 70 offices in 20 countries around the world. For more information, [visit www.duffandphelps.com](http://www.duffandphelps.com).

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# Additional Resources

Duff & Phelps has authored *five* books that focus on U.S. and international valuation theory, data, and risk premia (e.g., equity risk premia, risk-free rates, size premia, industry risk premia, betas, industry multiples and other statistics, etc.) for use in valuation models. These five books are (i) the *Cost of Capital – Applications and Examples* (5th edition), and the four “*Valuation Handbooks*”: (ii) the *Valuation Handbook – U.S. Guide to Cost of Capital*, (iii) the *Valuation Handbook – U.S. Industry Cost of Capital*, (iv) the *Valuation Handbook – International Guide to Cost of Capital*, and (v) the *Valuation Handbook – International Industry Cost of Capital*.

Duff & Phelps produces *one* book that focuses on U.S. capital markets performance data (i.e., the history of returns of the capital markets in the U.S. from 1926 to the present). This resource, the *Stocks, Bonds, Bills, and Inflation*<sup>®</sup> (SBB<sup>®</sup>) *Yearbook*, has been published for over 30 years.<sup>1</sup> The SBB<sup>®</sup> *Yearbook* does not provide extensive valuation data or methodology.<sup>2</sup>

## **The Four Valuation Handbooks are Transitioning from Print to Online Delivery in 2018 and 2019**

In 2018 and 2019, the four Duff & Phelps *Valuation Handbooks* are transitioning from *print* to a new *online* delivery platform, the “Cost of Capital Navigator”. The Cost of Capital Navigator guides the Analyst through the process of estimating the cost of capital, a key component of any valuation analysis.<sup>3</sup>

To learn more about the Cost of Capital Navigator, visit: [dpcostofcapital.com](http://dpcostofcapital.com).

## **The Valuation Handbook – U.S. Guide to Cost of Capital is the First Valuation Handbook to Transition from Print to Online Delivery**

The four *Valuation Handbooks* will be transitioned over to the online Cost of Capital Navigator platform in stages. In the first stage in February 2018, the *Valuation Handbook – U.S. Guide to Cost of Capital* was transitioned over. Starting in 2018, the essential valuation data previously published in the *Valuation Handbook – U.S. Guide to Cost of Capital* will be available exclusively in the new online Cost of Capital Navigator platform.

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<sup>2</sup> Morningstar previously published two “Ibbotson SBB<sup>®</sup>” yearbooks: (i) The SBB<sup>®</sup> “*Classic*” *Yearbook*, which is now produced by Duff & Phelps as the SBB<sup>®</sup> *Yearbook* starting in 2016 (the word “Classic” was dropped from the title), and (ii) the SBB<sup>®</sup> “*Valuation*” *Yearbook*, which was discontinued by Morningstar in 2013. The former Ibbotson Associates/Morningstar SBB<sup>®</sup> *Valuation Yearbook* was replaced by the Duff & Phelps *Valuation Handbook – U.S. Guide to Cost of Capital* in 2014, and published annually as a hardcover book through 2017. Starting in 2018, Duff & Phelps will not publish a commercially available physical version of the *Valuation Handbook – U.S. Guide to Cost of Capital* that includes the data exhibits; the essential valuation data from the data exhibits will be available *only* in the online Cost of Capital Navigator platform.

<sup>3</sup> At launch in February 2018, the Cost of Capital Navigator includes cost of *equity* capital estimates. Later versions of the Cost of Capital Navigator are scheduled to include cost of debt and weighted average cost of capital (WACC) estimates.

A 2018 and 2019 schedule is provided below:<sup>4</sup>

<u>Valuation Handbook</u>	<u>2018</u>	<u>2019</u>
<i>Valuation Handbook – U.S. Guide to Cost of Capital</i>	Data available exclusively online in the Cost of Capital Navigator platform	Data available exclusively online in the Cost of Capital Navigator platform
<i>Valuation Handbook – U.S. Industry Cost of Capital</i>	Printed as book	Data available exclusively online in the Cost of Capital Navigator platform
<i>Valuation Handbook – International Guide to Cost of Capital</i>	Printed as book	Data available exclusively online in the Cost of Capital Navigator platform
<i>Valuation Handbook – International Industry Cost of Capital</i>	Printed as book	Data available exclusively online in the Cost of Capital Navigator platform

**The Cost of Capital: Applications and Examples (5th Edition) and the SBB<sup>®</sup> Yearbook Will Continue to be Printed as Hardcover Books**

There are presently no plans to transition the information and data from the *Cost of Capital: Applications and Examples* (5th edition) and the *SBB<sup>®</sup> Yearbook* over to the Cost of Capital Navigator platform. These two books will continue to be published as hardcover books.<sup>5</sup>

Each of the six books is summarized in the following sections.

<sup>4</sup> Duff & Phelps reserves the right to amend this schedule as needed.

<sup>5</sup> The *SBB<sup>®</sup> Yearbook* is published annually (typically in March), with data through December 31 of the previous year. *The Cost of Capital – Applications and Examples* (5th edition) was published in 2014; the publication of an updated “6th edition” is scheduled for winter 2018/2019.

## **Cost of Capital: Applications and Examples (5th edition)**

**Note:** *There are presently no plans to transition the information and data from the Cost of Capital: Applications and Examples (5th edition) over to the Cost of Capital Navigator platform. This book will continue to be published as a hardcover book.*

To learn more about *Cost of Capital: Applications and Examples* 5th edition, visit:  
[www.wiley.com/buy/9781118555804](http://www.wiley.com/buy/9781118555804).

The *Cost of Capital: Applications and Examples* 5th edition, by Shannon P. Pratt and Roger J. Grabowski (John Wiley & Sons, Inc., 2014) is the authoritative, comprehensive overview of valuation theory, best practices, and proper use of data. This book puts an emphasis on practical application.

The *Cost of Capital: Applications and Examples* 5th edition is a one-stop shop for background and current thinking on the development and uses of rates of return on capital. This book contains expanded materials on estimating the basic building blocks of the cost of equity capital, the risk-free rate, and the equity risk premium, plus in-depth discussion of the volatility created by the 2008 financial crisis, the subsequent recession and uncertain recovery, and how those events have fundamentally changed how we need to interpret the inputs to the models we use to develop these estimates.

The *Cost of Capital: Applications and Examples* 5th edition includes case studies providing comprehensive discussion of cost of capital estimates for valuing a business and damages calculations for small and medium-sized businesses, cross-referenced to the chapters covering the theory and data. This book puts an emphasis on practical application. To that end, this updated edition provides readers with exclusive access to a companion website filled with supplementary materials, allowing you to continue to learn in a hands-on fashion long after closing the book.

The *Cost of Capital: Applications and Examples* has been published since 1998, and is updated every three to four years. The 6th edition of this book is scheduled to be available in winter 2018/2019.

*"Shannon Pratt and Roger Grabowski have produced a remarkably comprehensive review of the subject...it is a work that valuation practitioners, CFOs, and others will find an invaluable reference".*

– **Professor Richard Brealey**, Emeritus Professor of Finance, London Business School

*"Estimating the cost of capital is critical in determining the valuation of assets, in evaluating the capital structure of corporations, and in estimating the long-run expected return of investments. Shannon Pratt and Roger Grabowski have the most thorough text on the subject, not only providing various estimation methods, but also numerous ways to use the cost of capital".*

– **Professor Roger G. Ibbotson**, Professor Emeritus of Finance at the Yale School of Management, Chairman and Chief Investment Officer of Zebra Capital LLC, and former Chairman and founder of Ibbotson Associates, now part of Morningstar, Inc.

## **Cost of Capital Navigator (the information and data previously published in the *Valuation Handbook – U.S. Guide to Cost of Capital*)**

**Note:** Starting in 2018, the information and valuation data from the *Valuation Handbook – U.S. Guide to Cost of Capital* is available exclusively in the online Cost of Capital Navigator platform. A physical book that includes the data exhibits is not commercially available.

To learn more about the online Cost of Capital Navigator, visit: [dpcostofcapital.com](http://dpcostofcapital.com).

The *Valuation Handbook – U.S. Guide to Cost of Capital* was published from 2014–2017, and included the U.S. cost of capital data inputs (equity risk premia, size premia, industry risk premia, risk premia over the risk-free rate, risk-free rates) that were previously published in the Ibbotson Associates/Morningstar *Stocks, Bonds, Bills, and Inflation*<sup>®</sup> (*SBBI*<sup>®</sup>) *Valuation Yearbook* and the Duff & Phelps *Risk Premium Report*. This data can be used to develop cost of equity capital estimates (using both the build-up method and CAPM) for an individual business, business ownership interest, security, or intangible asset.

Starting in 2018, the essential valuation data previously published in the *Valuation Handbook – U.S. Guide to Cost of Capital* will be available exclusively in the new online Cost of Capital Navigator platform. The *2018 Cost of Capital: Annual U.S. Guidance and Examples* is a companion publication available to licensees of the Cost of Capital Navigator.

To be clear, the *2018 Cost of Capital: Annual U.S. Guidance and Examples*:

- Includes the content, examples, frequently asked questions (FAQs), and methodology previously published in the Duff & Phelps *Valuation Handbook – U.S. Guide to Cost of Capital*, updated through December 31, 2017.
- Does not include the data exhibits previously published in the *Valuation Handbook – U.S. Guide to Cost of Capital*, which are available exclusively in the online Cost of Capital Navigator platform starting in 2018.
- Is provided as a reference book and teaching aid only.

The two valuation data sets previously published in the *Valuation Handbook – U.S. Guide to Cost of Capital* from 2014–2017 and now (i.e., 2018 and subsequent years) available exclusively in the online Cost of Capital Navigator are: (i) the CRSP Deciles Size Study (the former Ibbotson Associates/Morningstar *SBBI*<sup>®</sup> *Valuation Yearbook* data), and (ii) the Risk Premium Report Study. The 2018 CRSP Deciles Size Study and the 2018 Risk Premium Report Study include data through December 31, 2017. As of the initial launch of the online Cost of Capital Navigator platform in February 2018, both the CRSP Deciles Size Study and the Risk Premium Report Study are available online for all years from 1999–present.<sup>6</sup>

<sup>6</sup> There are two Cost of Capital Navigator subscription levels: (i) the “Basic” annual subscription includes the two most recent years of valuation data; and (ii) the “Pro” annual subscription includes all years of data from 1999–present. As of the initial launch of the Cost of Capital Navigator in February 2018, the “two most recent years” are 2017 and 2018 data, with data through December 31, 2016 and December 31, 2017, respectively. As of the initial launch of the Cost of Capital Navigator in February 2018, “1999–present” is all years from 1999 through 2018. To learn more, please visit: [dpcostofcapital.com](http://dpcostofcapital.com).

## **Valuation Handbook – U.S. Industry Cost of Capital**

**Note:** *The Valuation Handbook – U.S. Industry Cost of Capital will be printed and distributed as a physical book one final time in 2018, but the information and data from this book will be added to the Cost of Capital Navigator later in 2018 and 2019. Starting in 2019, information and valuation data from this book is scheduled to be available exclusively in the online Cost of Capital Navigator.*

To learn more about the *Valuation Handbook – U.S. Industry Cost of Capital*, visit:  
[duffandphelps.onfastspring.com/books](http://duffandphelps.onfastspring.com/books).

This annual book provides industry-level cost of capital estimates (cost of equity capital, cost of debt capital, and weighted average cost of capital, or WACC), plus detailed industry-level statistics for sales, market capitalization, capital structure, various levered and unlevered beta estimates (e.g., ordinary-least squares (OLS) beta, sum beta, peer group beta, downside beta, etc.), valuation (trading) multiples, financial and profitability ratios, equity returns, aggregate forward-looking earnings-per share (EPS) growth rates, and more. Over 300 critical industry-level data points are calculated for approximately 170 U.S. industries (depending on data availability). Industries are organized by standard industrial classification (SIC) code.

The *Valuation Handbook – U.S. Industry Cost of Capital* can be used to benchmark, augment, and support the analyst's own custom analysis of the industry in which a subject business, business ownership interest, security, or intangible asset resides.

The *Valuation Handbook – U.S. Industry Cost of Capital* has been published since 2014, and is updated annually with data through March 31 of the current year (e.g., the *2014 Valuation Handbook – U.S. Industry Cost of Capital* is "data through" March 31, 2014; the *2015 Valuation Handbook – U.S. Industry Cost of Capital* is "data through" March 31, 2015, etc.). This book includes three intra-year quarterly updates (June, September, and December).



## **Valuation Handbook – International Guide to Cost of Capital**

**Note:** *The Valuation Handbook – International Guide to Cost of Capital will be printed and distributed as a physical book one final time in 2018, but the information and data from this book will be added to the Cost of Capital Navigator later in 2018 and 2019. Starting in 2019, information and valuation data from this book is scheduled to be available exclusively in the online Cost of Capital Navigator.*

To learn more about the *Valuation Handbook – International Guide to Cost of Capital*, visit: [duffandphelps.onfastspring.com/books](http://duffandphelps.onfastspring.com/books).

This annual book provides country-level equity risk premia (ERPs), relative volatility (RV) factors, and country risk premia (CRPs).

This book can be used to estimate country-level cost of equity capital globally, for up to 188 countries, from the perspective of investors based in any one of up to 56 countries (depending on data availability).

The *Valuation Handbook – International Guide to Cost of Capital* has been published since 2014, and is updated annually with data through December of the previous year and March of the current year (e.g., the *2014 Valuation Handbook – International Guide to Cost of Capital* is "data through" December 31, 2013 and March 31, 2014; the *2015 Valuation Handbook – International Guide to Cost of Capital* is "data through" December 31, 2014 and March 31, 2015, etc.). This book includes one semi-annual update with data through June and September.

*"Measuring the impact of country risk in determining the international cost of capital is one of the most vexing issues in finance. Any company doing international cost of capital estimation must, at minimum, consult the Valuation Handbook – International Guide to Cost of Capital".*

– **Campbell R. Harvey**, Professor of International Business at the Fuqua School of Business, Duke University

## Valuation Handbook – International Industry Cost of Capital

**Note:** The *Valuation Handbook – International Industry Cost of Capital* will be printed and distributed as a physical book one final time in 2018, but the information and data from this book will be added to the *Cost of Capital Navigator* later in 2018 and 2019. Starting in 2019, information and valuation data from this book is scheduled to be available exclusively in the online *Cost of Capital Navigator*.

To learn more about the *Valuation Handbook – International Industry Cost of Capital*, visit: [duffandphelps.onfastspring.com/books](http://duffandphelps.onfastspring.com/books).

This annual book provides the same type of rigorous industry-level analysis published in the U.S.-centric *Valuation Handbook – U.S. Industry Cost of Capital*, on a global scale.

This book includes industry-level analyses for four global economic areas: (i) the “World”, (ii) the European Union, (iii) the Eurozone, and (iv) the United Kingdom.<sup>7</sup> Industries in the book are identified by their Global Industry Classification Standard (GICS) code. Each of the four global economic area’s industry analyses are presented in three currencies: (i) the euro (€ or EUR), (ii) the British pound (£ or GBP), and (iii) the U.S. dollar (\$) or USD).

This annual book provides industry level cost of capital estimates (cost of equity capital, cost of debt capital, and weighted average cost of capital, or WACC), plus detailed industry-level statistics for sales, market capitalization, capital structure, various levered and unlevered beta estimates (e.g., ordinary-least squares (OLS) beta, sum beta, peer group beta, downside beta, etc.), valuation (trading) multiples, financial and profitability ratios, equity returns, aggregate forward-looking earnings-per share (EPS) growth rates, and more. Over 300 critical industry-level data points are calculated for each industry (depending on data availability). Industries are organized by global industry classification standard (GICS) code.

The *Valuation Handbook – International Industry Cost of Capital* can be used to benchmark, augment, and support the analyst’s own custom analysis of the industry in which a subject business, business ownership interest, security, or intangible asset resides.

The *Valuation Handbook – International Industry Cost of Capital* has been published since 2015, and is updated annually with data through March 31 of the current year (e.g., the *2015 Valuation Handbook – International Industry Cost of Capital* is “data through” March 31, 2015; the *2016 Valuation Handbook – International Industry Cost of Capital* is “data through” March 31, 2016, etc.). This book includes one semi-annual update with data through September.

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<sup>7</sup> In the *Valuation Handbook – International Industry Cost of Capital*, “World” companies are defined as companies that (i) are components of the MSCI ACWI IMI, and (ii) satisfy the rigorous screening requirements that are employed to define the company sets used therein.

## **Stocks, Bonds, Bills, and Inflation® (SBBi®) Yearbook**

**Note:** There are presently no plans to transition the information and data from the *Stocks, Bonds, Bills, and Inflation® (SBBi®) Yearbook* over to the *Cost of Capital Navigator* platform. This book will continue to be published as a hardcover book.

To learn more about the *Stocks, Bonds, Bills, and Inflation® (SBBi®) Yearbook*, visit: [duffandphelps.onfastspring.com/books](http://duffandphelps.onfastspring.com/books).

This annual book has been the definitive annual resource for historical U.S. capital markets performance data for over 30 years.

Starting with the 2016 edition, the *Stocks, Bonds, Bills, and Inflation® (SBBi®) Yearbook* is now produced by Duff & Phelps. The *SBBi® Yearbook* was previously published by Morningstar, Inc. under the name "*Ibbotson® Stocks, Bonds, Bills, and Inflation® (SBBi®) Classic Yearbook*".<sup>8,9,10</sup>

This book includes returns, index values, and statistical analyses of U.S. large company stocks, small company stocks, long-term corporate bonds, long-term government bonds, intermediate-term government bonds, U.S. Treasury bills, and inflation from January 1926 to present (monthly).

Anyone serious about investments or investing needs an appreciation of capital market history. Such an appreciation, which can be gained from this book, is equally valuable to the individual and institutional investor, practitioners and scholars in finance, economics, and business; portfolio strategists, and security analysts seeking to benchmark their own investment performance. The *SBBi Yearbook* is a thinking person's guide to using historical data to understand the financial markets and make decisions.

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<sup>8</sup> The *SBBi® Yearbook* was published by Morningstar, Inc. from 2007 through 2015, and by Ibbotson Associates in years prior to 2007 as the *SBBi® "Classic" Yearbook*.

<sup>9</sup> The *SBBi® Yearbook* provides historical "performance" data of U.S. asset classes, while the other Duff & Phelps data resources provide "valuation" data. Specifically, the other Duff & Phelps data resources focus on U.S. and international valuation data and risk premia (e.g., equity risk premia, risk-free rates, size premia, industry risk premia, betas, industry multiples and other statistics, etc.) for use in valuation models, while the *SBBi® Yearbook* is (i) a history of the returns of the capital markets in the U.S. (thus the name, "*Stocks, Bonds, Bills, and Inflation®*," or "*SBBi®*") from 1926 to the present, and (ii) an analysis of the relative performance of U.S. asset classes. The *SBBi® Yearbook* has been published for over 30 years. The *SBBi® Yearbook* does not provide extensive valuation data or methodology.

<sup>10</sup> Beginning with the 2018 edition, the *SBBi® Yearbook* is now self-published by Duff & Phelps. The 2016 and 2017 editions were published by John Wiley & Sons.

# Introduction

The hardcover *2018 Valuation Handbook – U.S. Industry Cost of Capital* is published with data through March 2018, and includes three intra-year Quarterly Updates (June, September, and December 2018), delivered in Adobe PDF format.<sup>11,12</sup>

The *2018 Valuation Handbook – U.S. Industry Cost of Capital* provides cost of capital estimates (i.e., equity capital, debt capital, and WACC) for approximately 167 U.S. industries (identified by Standard Industrial Classification (SIC) code) and size groupings (i.e., Large-, Mid-, Low-, and Micro-capitalization companies), plus detailed statistics for sales, market capitalization, capital structure, various levered and unlevered beta estimates (e.g., ordinary least squares (OLS) beta, sum beta, downside beta, etc.), valuation (trading) multiples, financial and profitability ratios, equity returns, aggregate forward-looking earnings-per-share (EPS) growth rates, and more. The information and statistics in the *2018 Valuation Handbook – U.S. Industry Cost of Capital* can be used by the analyst to (i) benchmark, (ii) augment, and (iii) support his or her own custom analysis of the industry in which a subject business, business ownership interest, security, or intangible asset resides.<sup>13</sup>

The information in the *2018 Valuation Handbook – U.S. Industry Cost of Capital*, “Company and SIC List” (this document) is a list of the companies used in the approximate 167 U.S. industry analyses presented in the *2018 Valuation Handbook – U.S. Industry Cost of Capital* (data through March 2018). As such, the information herein is specific to the *2018 Valuation Handbook – Industry Cost of Capital* (data through March 2018), and is not applicable to any other book, update, or document.

## Company and SIC Lists

The company screening process used for identifying the main set of “healthy” companies used for the analyses presented in the *2018 Valuation Handbook – U.S. Industry Cost of Capital* mimics the screening process employed in the Risk Premium Report Study Exhibits that are published in the *2018 Valuation Handbook – U.S. Guide to Cost of Capital*.

The set of companies remaining after this screening process (i) are “seasoned” companies in that they have been traded for several years, (ii) have been selling at least a minimal quantity of product or services, and (iii) have been able to achieve a degree of positive cash flow from operations. The last step in this screening process is identifying “pure play” companies. Pure play companies are defined here as those companies that derive at least 75% of their overall revenue from a single SIC code. The companies identified in this process (“Main Set”) are used in the analyses to calculate the “Median”, “SIC Composite”, “Large Composite”, and “Small Composite” metrics for each industry (data availability allowing). Please note that “high-financial-risk” companies (“High-Financial-Risk Set”) are identified and analyzed separately. A list of companies included in the High-Financial-Risk Set analyses is presented in

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<sup>11</sup> The Quarterly Updates are included, and are not sold separately.

<sup>12</sup> The *2018 Valuation Handbook – U.S. Industry Cost of Capital* was published with data through March 2018, and includes June, September, and December (2018) Quarterly Updates.

<sup>13</sup> The *2018 Valuation Handbook – U.S. Guide to Cost of Capital* provides key year-end data previously available in (i) the Morningstar/Ibbotson *S&P 500 Valuation Yearbook* and (ii) the Duff & Phelps *Risk Premium Report*. The *2018 Valuation Handbook – U.S. Guide to Cost of Capital* can be used to develop cost of equity capital estimates for an *individual* business, business ownership interest, security, or intangible asset.

analyzed separately. A list of companies included in the High-Financial-Risk Set analyses is presented in Appendices C and D.

For a detailed discussion of the company set selection process employed in the *2017 Valuation Handbook – U.S. Industry Cost of Capital* and its quarterly updates, please refer to the section entitled “Company Screening Process” in that book.

The following appendices are included herein:

### **Main Set**

Appendix A: Companies (Main Set) in Each Industry, by SIC Code

Appendix B: SIC Codes in which Companies (Main Set) are Included

### **High-Financial-Risk Set**

Appendix C: Companies (High-Financial-Risk Set) in Each Industry, by SIC Code

Appendix D: SIC Codes in which Companies (High-Financial-Risk Set) are Included

### **Standard Industrial Classification (SIC) Definitions**

Appendix E: Industry List by SIC Code

Appendix F: Industry List by Industry Name (alphabetical)

## Appendix A:

### Companies (Main Set) in Each Industry, by SIC Code

Appendix A is a list of the Main Set of companies used to calculate the "Median", "SIC Composite", "Large Composite", and "Small Composite" metrics for each SIC code (data availability allowing) in the *2018 Valuation Handbook – U.S. Industry Cost of Capital* (data through March 2018).

## Appendix A: Companies (Main Set) in Each Industry, by SIC Code

### SIC 1

Alico, Inc.  
 Alliance Holdings GP, L.P.  
 Alliance Resource Partners, L.P.  
 Archrock Partners, L.P.  
 AV Homes, Inc.  
 Beazer Homes USA, Inc.  
 Comfort Systems USA, Inc.  
 Compass Minerals International, Inc.  
 ConocoPhillips  
 Continental Resources, Inc.  
 D.R. Horton, Inc.  
 DCP Midstream, LP  
 Diamond Offshore Drilling, Inc.  
 Diamondback Energy, Inc.  
 Dycom Industries, Inc.  
 EMCOR Group, Inc.  
 EOG Resources, Inc.  
 Evolution Petroleum Corporation  
 Gold Resource Corporation  
 Granite Construction Incorporated  
 Great Lakes Dredge & Dock Corporation  
 Hallador Energy Company  
 Helmerich & Payne, Inc.  
 Hi-Crush Partners LP  
 IES Holdings, Inc.  
 Jacobs Engineering Group Inc.  
 KB Home  
 Lennar Corporation  
 Limoneira Company  
 M.D.C. Holdings, Inc.  
 M/I Homes, Inc.  
 Martin Marietta Materials, Inc.  
 MasTec, Inc.  
 Matrix Service Company  
 Meritage Homes Corporation  
 MYR Group Inc.  
 NVR, Inc.  
 Panhandle Oil and Gas Inc.  
 PrimeEnergy Corporation  
 Primoris Services Corporation  
 PulteGroup, Inc.  
 Quanta Services, Inc.  
 RPC, Inc.  
 Southern Copper Corporation  
 Taylor Morrison Home Corporation  
 The Goldfield Corporation  
 Toll Brothers, Inc.  
 Tutor Perini Corporation  
 U.S. Silica Holdings, Inc.

United States Lime & Minerals, Inc.  
 VOC Energy Trust  
 Western Gas Partners, LP  
 William Lyon Homes  
 Williams Partners L.P.

### SIC 13

Archrock Partners, L.P.  
 ConocoPhillips  
 Continental Resources, Inc.  
 DCP Midstream, LP  
 Diamond Offshore Drilling, Inc.  
 Diamondback Energy, Inc.  
 EOG Resources, Inc.  
 Evolution Petroleum Corporation  
 Helmerich & Payne, Inc.  
 Panhandle Oil and Gas Inc.  
 PrimeEnergy Corporation  
 RPC, Inc.  
 VOC Energy Trust  
 Western Gas Partners, LP  
 Williams Partners L.P.

### SIC 131

ConocoPhillips  
 Continental Resources, Inc.  
 DCP Midstream, LP  
 Diamondback Energy, Inc.  
 EOG Resources, Inc.  
 Evolution Petroleum Corporation  
 Panhandle Oil and Gas Inc.  
 PrimeEnergy Corporation  
 VOC Energy Trust  
 Western Gas Partners, LP  
 Williams Partners L.P.

### SIC 14

Compass Minerals International, Inc.  
 Hi-Crush Partners LP  
 Martin Marietta Materials, Inc.  
 U.S. Silica Holdings, Inc.  
 United States Lime & Minerals, Inc.

### SIC 15

AV Homes, Inc.  
 Beazer Homes USA, Inc.  
 D.R. Horton, Inc.  
 KB Home  
 Lennar Corporation  
 M.D.C. Holdings, Inc.  
 M/I Homes, Inc.  
 Meritage Homes Corporation  
 NVR, Inc.  
 PulteGroup, Inc.

Taylor Morrison Home Corporation  
 Toll Brothers, Inc.  
 William Lyon Homes

### SIC 16

Dycom Industries, Inc.  
 Granite Construction Incorporated  
 Great Lakes Dredge & Dock Corporation  
 Jacobs Engineering Group Inc.  
 MasTec, Inc.  
 MYR Group Inc.  
 Primoris Services Corporation  
 The Goldfield Corporation

### SIC 162

Dycom Industries, Inc.  
 MasTec, Inc.  
 MYR Group Inc.  
 Primoris Services Corporation  
 The Goldfield Corporation

### SIC 2

A.H. Belo Corporation  
 AbbVie Inc.  
 ACCO Brands Corporation  
 Air Products and Chemicals, Inc.  
 Akorn, Inc.  
 Albemarle Corporation  
 Alexion Pharmaceuticals, Inc.  
 Altria Group, Inc.  
 American Vanguard Corporation  
 American Woodmark Corporation  
 Amgen Inc.  
 Anika Therapeutics, Inc.  
 Archer-Daniels-Midland Company  
 Ashland Global Holdings Inc.  
 Avery Dennison Corporation  
 B&G Foods, Inc.  
 Balchem Corporation  
 Bassett Furniture Industries, Incorporated  
 Baxter International Inc.  
 Bemis Company, Inc.  
 Biogen Inc.  
 BioSpecifics Technologies Corp.  
 Bio-Techne Corporation  
 Bridgford Foods Corporation  
 Bristol-Myers Squibb Company

## Appendix A: Companies (Main Set) in Each Industry, by SIC Code

Brown-Forman Corporation	Flexible Solutions International Inc.	Luminex Corporation
Builders FirstSource, Inc.	Flexsteel Industries, Inc.	Mannatech, Incorporated
Cabot Corporation	Flotek Industries, Inc.	McCormick & Company, Incorporated
Cabot Microelectronics Corporation	Flowers Foods, Inc.	Medifast, Inc.
Cal-Maine Foods, Inc.	FMC Corporation	Mercer International Inc.
Cambrex Corporation	FutureFuel Corp.	Merck & Co., Inc.
Campbell Soup Company	General Mills, Inc.	Meridian Bioscience, Inc.
Carter's, Inc.	G-III Apparel Group, Ltd.	MGP Ingredients, Inc.
Cavco Industries, Inc.	Gilead Sciences, Inc.	MiMedx Group, Inc.
Celanese Corporation	Graphic Packaging Holding Company	Molson Coors Brewing Company
Celgene Corporation	Green Plains Inc.	Mondelez International, Inc.
CF Industries Holdings, Inc.	Greif, Inc.	Monster Beverage Corporation
Chase Corporation	Guess?, Inc.	Multi-Color Corporation
Chevron Corporation	Gulf Resources, Inc.	Myriad Genetics, Inc.
China XD Plastics Company Limited	H.B. Fuller Company	National Beverage Corp.
Church & Dwight Co., Inc.	Hanesbrands Inc.	Natural Alternatives International, Inc.
Cintas Corporation	Herman Miller, Inc.	Nature's Sunshine Products, Inc.
Clearwater Paper Corporation	Heska Corporation	Neenah, Inc.
Coca-Cola Bottling Co. Consolidated	Hexcel Corporation	Neogen Corporation
Colgate-Palmolive Company	HNI Corporation	NewMarket Corporation
Columbia Sportswear Company	HollyFrontier Corporation	Nova LifeStyle, Inc.
Computacenter plc	Hooker Furniture Corporation	Nu Skin Enterprises, Inc.
Conagra Brands, Inc.	Hormel Foods Corporation	Ocean Bio-Chem, Inc.
Constellation Brands, Inc.	Huntsman Corporation	Olin Corporation
Craft Brew Alliance, Inc.	IDEXX Laboratories, Inc.	OraSure Technologies, Inc.
Crown Crafts, Inc.	IKONICS Corporation	Orchids Paper Products Company
Crown Crafts, Inc.	ImmuCell Corporation	Orient Paper, Inc.
Crystal Rock Holdings, Inc.	Ingredion Incorporated	Oxford Industries, Inc.
CSS Industries, Inc.	Innophos Holdings, Inc.	P. H. Glatfelter Company
Culp, Inc.	Innospec Inc.	Packaging Corporation of America
Cumberland Pharmaceuticals Inc.	INSYS Therapeutics, Inc.	Patrick Industries, Inc.
CVR Energy, Inc.	Inter Parfums, Inc.	PBF Energy Inc.
CVR Partners, LP	Interface, Inc.	PepsiCo, Inc.
CVR Refining, LP	International Flavors & Fragrances Inc.	Perry Ellis International, Inc.
Darling Ingredients Inc.	International Paper Company	Pfizer Inc.
Dean Foods Company	J&J Snack Foods Corp.	Phillips 66
Delek US Holdings, Inc.	John B. Sanfilippo & Son, Inc.	Pilgrim's Pride Corporation
Delta Apparel, Inc.	John Wiley & Sons, Inc.	Pinnacle Foods Inc.
Deluxe Corporation	Juniper Pharmaceuticals, Inc.	PPG Industries, Inc.
Domtar Corporation	Kellogg Company	Praxair, Inc.
DowDuPont Inc.	Kimball International, Inc.	PVH Corp.
Dr Pepper Snapple Group, Inc.	Kimberly-Clark Corporation	Quaker Chemical Corporation
Eastman Chemical Company	KMG Chemicals, Inc.	Ralph Lauren Corporation
Eli Lilly and Company	Knoll, Inc.	Regeneron Pharmaceuticals, Inc.
Emergent BioSolutions Inc.	Kraton Corporation	Reliv' International, Inc.
Enanta Pharmaceuticals, Inc.	Kronos Worldwide, Inc.	Repligen Corporation
Ennis, Inc.	Lancaster Colony Corporation	REX American Resources Corporation
Ethan Allen Interiors Inc.	Landec Corporation	RPM International Inc.
Ever-Glory International Group, Inc.	Lannett Company, Inc.	Sanderson Farms, Inc.
Exxon Mobil Corporation	La-Z-Boy Incorporated	Scholastic Corporation
Farmer Bros. Co.	Lear Corporation	Schweitzer-Mauduit International, Inc.
Ferro Corporation	Lifevantage Corporation	
	Lifeway Foods, Inc.	
	Ligand Pharmaceuticals Incorporated	



## Appendix A: Companies (Main Set) in Each Industry, by SIC Code

Seneca Foods Corporation  
 Sensient Technologies Corporation  
 Shutterfly, Inc.  
 Sleep Number Corporation  
 Snyder's-Lance, Inc.  
 Sonoco Products Company  
 Steelcase Inc.  
 Stepan Company  
 Superior Uniform Group, Inc.  
 Supernus Pharmaceuticals, Inc.  
 Tempur Sealy International, Inc.  
 Thai Nakarin Hospital Public Company Limited  
 The Boston Beer Company, Inc.  
 The Clorox Company  
 The Coca-Cola Company  
 The Estée Lauder Companies Inc.  
 The Hain Celestial Group, Inc.  
 The Hershey Company  
 The J. M. Smucker Company  
 The New York Times Company  
 The Procter & Gamble Company  
 The Scotts Miracle-Gro Company  
 The Sherwin-Williams Company  
 Tootsie Roll Industries, Inc.  
 Trecora Resources  
 Trex Company, Inc.  
 Tyson Foods, Inc.  
 Under Armour, Inc.  
 Unifi, Inc.  
 UniFirst Corporation  
 United Therapeutics Corporation  
 United-Guardian, Inc.  
 Universal Forest Products, Inc.  
 V.F. Corporation  
 Valero Energy Corporation  
 Valhi, Inc.  
 Value Line, Inc.  
 Virco Mfg. Corporation  
 W. R. Grace & Co.  
 WD-40 Company  
 Westlake Chemical Corporation  
 WestRock Company  
 Willamette Valley Vineyards, Inc.  
 Youngevity International, Inc.  
 ZAGG Inc

Zoetis Inc.

### SIC 20

---

Archer-Daniels-Midland Company  
 B&G Foods, Inc.  
 Bridgford Foods Corporation  
 Brown-Forman Corporation  
 Cal-Maine Foods, Inc.  
 Campbell Soup Company  
 Coca-Cola Bottling Co. Consolidated  
 Conagra Brands, Inc.  
 Constellation Brands, Inc.  
 Craft Brew Alliance, Inc.  
 Crystal Rock Holdings, Inc.  
 Darling Ingredients Inc.  
 Dean Foods Company  
 Dr Pepper Snapple Group, Inc.  
 Farmer Bros. Co.  
 Flowers Foods, Inc.  
 General Mills, Inc.  
 Hormel Foods Corporation  
 Ingredion Incorporated  
 J&J Snack Foods Corp.  
 John B. Sanfilippo & Son, Inc.  
 Kellogg Company  
 Lancaster Colony Corporation  
 Landec Corporation  
 Lifeway Foods, Inc.  
 McCormick & Company, Incorporated  
 Medifast, Inc.  
 MGP Ingredients, Inc.  
 Molson Coors Brewing Company  
 Mondelez International, Inc.  
 Monster Beverage Corporation  
 National Beverage Corp.  
 PepsiCo, Inc.  
 Pilgrim's Pride Corporation  
 Pinnacle Foods Inc.  
 Sanderson Farms, Inc.  
 Seneca Foods Corporation  
 Snyder's-Lance, Inc.  
 The Boston Beer Company, Inc.  
 The Coca-Cola Company  
 The Hain Celestial Group, Inc.  
 The Hershey Company  
 The J. M. Smucker Company  
 Tootsie Roll Industries, Inc.  
 Tyson Foods, Inc.  
 Willamette Valley Vineyards, Inc.

### SIC 201

---

Bridgford Foods Corporation  
 Hormel Foods Corporation  
 Pilgrim's Pride Corporation  
 Sanderson Farms, Inc.  
 Tyson Foods, Inc.

### SIC 203

---

B&G Foods, Inc.  
 Lancaster Colony Corporation  
 Landec Corporation  
 Pinnacle Foods Inc.  
 Seneca Foods Corporation

### SIC 208

---

Brown-Forman Corporation  
 Coca-Cola Bottling Co. Consolidated  
 Constellation Brands, Inc.  
 Craft Brew Alliance, Inc.  
 Crystal Rock Holdings, Inc.  
 Dr Pepper Snapple Group, Inc.  
 MGP Ingredients, Inc.  
 Molson Coors Brewing Company  
 Monster Beverage Corporation  
 National Beverage Corp.  
 The Boston Beer Company, Inc.  
 The Coca-Cola Company  
 Willamette Valley Vineyards, Inc.

### SIC 2086

---

Coca-Cola Bottling Co. Consolidated  
 Crystal Rock Holdings, Inc.  
 Dr Pepper Snapple Group, Inc.  
 Monster Beverage Corporation  
 National Beverage Corp.  
 The Coca-Cola Company

### SIC 23

---

Carter's, Inc.  
 Cintas Corporation  
 Columbia Sportswear Company  
 Delta Apparel, Inc.  
 Ever-Glory International Group, Inc.  
 G-III Apparel Group, Ltd.  
 Guess?, Inc.  
 Hanesbrands Inc.  
 Oxford Industries, Inc.  
 Perry Ellis International, Inc.  
 PVH Corp.  
 Ralph Lauren Corporation

## Appendix A: Companies (Main Set) in Each Industry, by SIC Code

Superior Uniform Group,  
Inc.  
Under Armour, Inc.  
UniFirst Corporation  
V.F. Corporation

### SIC 24

---

American Woodmark  
Corporation  
Builders FirstSource, Inc.  
Cavco Industries, Inc.  
Patrick Industries, Inc.  
Trex Company, Inc.  
Universal Forest Products,  
Inc.

### SIC 25

---

Bassett Furniture Industries,  
Incorporated  
Ethan Allen Interiors Inc.  
Flexsteel Industries, Inc.  
Herman Miller, Inc.  
HNI Corporation  
Hooker Furniture  
Corporation  
Kimball International, Inc.  
Knoll, Inc.  
La-Z-Boy Incorporated  
Lear Corporation  
Nova LifeStyle, Inc.  
Sleep Number Corporation  
Steelcase Inc.  
Tempur Sealy International,  
Inc.  
Virco Mfg. Corporation

### SIC 251

---

Bassett Furniture Industries,  
Incorporated  
Ethan Allen Interiors Inc.  
Flexsteel Industries, Inc.  
Hooker Furniture  
Corporation  
La-Z-Boy Incorporated  
Nova LifeStyle, Inc.  
Sleep Number Corporation  
Tempur Sealy International,  
Inc.

### SIC 252

---

Herman Miller, Inc.  
HNI Corporation  
Kimball International, Inc.  
Knoll, Inc.  
Steelcase Inc.

### SIC 26

---

Avery Dennison Corporation  
Bemis Company, Inc.  
Clearwater Paper  
Corporation  
CSS Industries, Inc.

Domtar Corporation  
Graphic Packaging Holding  
Company  
Greif, Inc.  
International Paper  
Company  
Kimberly-Clark Corporation  
Mercer International Inc.  
Neenah, Inc.  
Orchids Paper Products  
Company  
Orient Paper, Inc.  
P. H. Glatfelter Company  
Packaging Corporation of  
America  
Sonoco Products Company  
WestRock Company  
ZAGG Inc

### SIC 262

---

Domtar Corporation  
Kimberly-Clark Corporation  
Neenah, Inc.  
Orient Paper, Inc.  
P. H. Glatfelter Company

### SIC 265

---

Graphic Packaging Holding  
Company  
Greif, Inc.  
Packaging Corporation of  
America  
Sonoco Products Company  
WestRock Company

### SIC 267

---

Avery Dennison Corporation  
Bemis Company, Inc.  
CSS Industries, Inc.  
Orchids Paper Products  
Company  
ZAGG Inc

### SIC 27

---

A.H. Belo Corporation  
ACCO Brands Corporation  
Deluxe Corporation  
Ennis, Inc.  
John Wiley & Sons, Inc.  
Multi-Color Corporation  
Scholastic Corporation  
Shutterfly, Inc.  
The New York Times  
Company  
Value Line, Inc.

### SIC 28

---

AbbVie Inc.  
Air Products and Chemicals,  
Inc.  
Akorn, Inc.

Albemarle Corporation  
Alexion Pharmaceuticals,  
Inc.  
American Vanguard  
Corporation  
Amgen Inc.  
Anika Therapeutics, Inc.  
Ashland Global Holdings  
Inc.  
Balchem Corporation  
Baxter International Inc.  
Biogen Inc.  
BioSpecifics Technologies  
Corp.  
Bio-Techne Corporation  
Bristol-Myers Squibb  
Company  
Cabot Corporation  
Cabot Microelectronics  
Corporation  
Cambrex Corporation  
Celanese Corporation  
Celgene Corporation  
CF Industries Holdings, Inc.  
Chase Corporation  
China XD Plastics Company  
Limited  
Church & Dwight Co., Inc.  
Colgate-Palmolive  
Company  
Computacenter plc  
Cumberland  
Pharmaceuticals Inc.  
CVR Partners, LP  
DowDuPont Inc.  
Eastman Chemical  
Company  
Eli Lilly and Company  
Emergent BioSolutions Inc.  
Enanta Pharmaceuticals,  
Inc.  
Ferro Corporation  
Flexible Solutions  
International Inc.  
Flotek Industries, Inc.  
FMC Corporation  
FutureFuel Corp.  
Gilead Sciences, Inc.  
Gulf Resources, Inc.  
H.B. Fuller Company  
Heska Corporation  
Hexcel Corporation  
Huntsman Corporation  
IDEXX Laboratories, Inc.  
IKONICS Corporation  
ImmuCell Corporation  
Innophos Holdings, Inc.  
Innospec Inc.  
INSYS Therapeutics, Inc.  
Inter Parfums, Inc.  
Juniper Pharmaceuticals,  
Inc.  
KMG Chemicals, Inc.

## Appendix A: Companies (Main Set) in Each Industry, by SIC Code

Kraton Corporation  
 Kronos Worldwide, Inc.  
 Lannett Company, Inc.  
 Lifevantage Corporation  
 Ligand Pharmaceuticals Incorporated  
 Luminex Corporation  
 Mannatech, Incorporated  
 Merck & Co., Inc.  
 Meridian Bioscience, Inc.  
 MiMedx Group, Inc.  
 Myriad Genetics, Inc.  
 Natural Alternatives International, Inc.  
 Nature's Sunshine Products, Inc.  
 Neogen Corporation  
 NewMarket Corporation  
 Nu Skin Enterprises, Inc.  
 Ocean Bio-Chem, Inc.  
 Olin Corporation  
 OraSure Technologies, Inc.  
 Pfizer Inc.  
 PPG Industries, Inc.  
 Praxair, Inc.  
 Regeneron Pharmaceuticals, Inc.  
 Reliv' International, Inc.  
 Repligen Corporation  
 REX American Resources Corporation  
 RPM International Inc.  
 Sensient Technologies Corporation  
 Stepan Company  
 Supernus Pharmaceuticals, Inc.  
 Thai Nakarin Hospital Public Company Limited  
 The Estée Lauder Companies Inc.  
 The Scotts Miracle-Gro Company  
 The Sherwin-Williams Company  
 United Therapeutics Corporation  
 United-Guardian, Inc.  
 Valhi, Inc.  
 W. R. Grace & Co.  
 WD-40 Company  
 Westlake Chemical Corporation  
 Youngevity International, Inc.  
 Zoetis Inc.

Flexible Solutions International Inc.  
 Gulf Resources, Inc.  
 Innophos Holdings, Inc.  
 Innospec Inc.  
 Kronos Worldwide, Inc.  
 Praxair, Inc.  
 Valhi, Inc.  
 W. R. Grace & Co.

Supernus Pharmaceuticals, Inc.  
 United Therapeutics Corporation  
 United-Guardian, Inc.  
 Youngevity International, Inc.  
 Zoetis Inc.

### SIC 283

AbbVie Inc.  
 Akorn, Inc.  
 Alexion Pharmaceuticals, Inc.  
 Amgen Inc.  
 Anika Therapeutics, Inc.  
 Balchem Corporation  
 Baxter International Inc.  
 Biogen Inc.  
 BioSpecifics Technologies Corp.  
 Bio-Techne Corporation  
 Bristol-Myers Squibb Company  
 Cambrex Corporation  
 Celgene Corporation  
 Cumberland Pharmaceuticals Inc.  
 Eli Lilly and Company  
 Emergent BioSolutions Inc.  
 Enanta Pharmaceuticals, Inc.  
 Gilead Sciences, Inc.  
 Heska Corporation  
 IDEXX Laboratories, Inc.  
 ImmuCell Corporation  
 INSYS Therapeutics, Inc.  
 Juniper Pharmaceuticals, Inc.  
 Lannett Company, Inc.  
 Lifevantage Corporation  
 Ligand Pharmaceuticals Incorporated  
 Luminex Corporation  
 Mannatech, Incorporated  
 Merck & Co., Inc.  
 Meridian Bioscience, Inc.  
 MiMedx Group, Inc.  
 Myriad Genetics, Inc.  
 Natural Alternatives International, Inc.  
 Nature's Sunshine Products, Inc.  
 Neogen Corporation  
 Nu Skin Enterprises, Inc.  
 OraSure Technologies, Inc.  
 Pfizer Inc.  
 Regeneron Pharmaceuticals, Inc.  
 Reliv' International, Inc.  
 Repligen Corporation

### SIC 2834

Akorn, Inc.  
 Balchem Corporation  
 Baxter International Inc.  
 BioSpecifics Technologies Corp.  
 Bristol-Myers Squibb Company  
 Celgene Corporation  
 Cumberland Pharmaceuticals Inc.  
 Eli Lilly and Company  
 INSYS Therapeutics, Inc.  
 Juniper Pharmaceuticals, Inc.  
 Lannett Company, Inc.  
 Lifevantage Corporation  
 Ligand Pharmaceuticals Incorporated  
 Mannatech, Incorporated  
 Merck & Co., Inc.  
 Natural Alternatives International, Inc.  
 Nature's Sunshine Products, Inc.  
 Nu Skin Enterprises, Inc.  
 Pfizer Inc.  
 Regeneron Pharmaceuticals, Inc.  
 Reliv' International, Inc.  
 Supernus Pharmaceuticals, Inc.  
 United Therapeutics Corporation  
 United-Guardian, Inc.  
 Youngevity International, Inc.  
 Zoetis Inc.

### SIC 2835

Heska Corporation  
 IDEXX Laboratories, Inc.  
 ImmuCell Corporation  
 Luminex Corporation  
 Myriad Genetics, Inc.  
 OraSure Technologies, Inc.

### SIC 2836

AbbVie Inc.  
 Alexion Pharmaceuticals, Inc.  
 Amgen Inc.  
 Anika Therapeutics, Inc.

### SIC 281

Air Products and Chemicals, Inc.  
 Computacenter plc

## Appendix A: Companies (Main Set) in Each Industry, by SIC Code

Biogen Inc.  
Emergent BioSolutions Inc.  
Enanta Pharmaceuticals,  
Inc.  
Gilead Sciences, Inc.  
MiMedx Group, Inc.  
Repligen Corporation

Valero Energy Corporation

### SIC 291

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Chevron Corporation  
CVR Energy, Inc.  
CVR Refining, LP  
Delek US Holdings, Inc.  
Exxon Mobil Corporation  
HollyFrontier Corporation  
PBF Energy Inc.  
Phillips 66  
Trecora Resources  
Valero Energy Corporation

### SIC 3

---

A. O. Smith Corporation  
AAON, Inc.  
Abaxis, Inc.  
ABIOMED, Inc.  
Acme United Corporation  
Actuant Corporation  
Acuity Brands, Inc.  
ADTRAN, Inc.  
Advanced Energy  
Industries, Inc.  
Aerojet Rocketdyne  
Holdings, Inc.  
AeroVironment, Inc.  
AGCO Corporation  
Alamo Group Inc.  
Align Technology, Inc.  
Allied Motion Technologies  
Inc.  
Allison Transmission  
Holdings, Inc.  
Altra Industrial Motion Corp.  
American Axle &  
Manufacturing Holdings,  
Inc.  
American Outdoor Brands  
Corporation  
American Railcar Industries,  
Inc.  
AMETEK, Inc.  
Amkor Technology, Inc.  
Amphenol Corporation  
Analog Devices, Inc.  
Analogic Corporation  
Apogee Enterprises, Inc.  
Apple Inc.  
Applied Materials, Inc.  
AptarGroup, Inc.  
Armstrong World Industries,  
Inc.  
Art's-Way Manufacturing  
Co., Inc.  
Astec Industries, Inc.  
Astronics Corporation  
AstroNova, Inc.  
Atrion Corporation  
Autoliv, Inc.  
AVX Corporation

Axcelis Technologies, Inc.  
Axon Enterprise, Inc.  
Badger Meter, Inc.  
Ball Corporation  
Barnes Group Inc.  
Becton, Dickinson and  
Company  
Belden Inc.  
Benchmark Electronics, Inc.  
Bio-Rad Laboratories, Inc.  
BorgWarner Inc.  
Briggs & Stratton  
Corporation  
Brooks Automation, Inc.  
Bruker Corporation  
Brunswick Corporation  
BWX Technologies, Inc.  
CalAmp Corp.  
Callaway Golf Company  
Cantel Medical Corp.  
Carpenter Technology  
Corporation  
Caterpillar Inc.  
Cemtrex, Inc.  
Chart Industries, Inc.  
Chicago Rivet & Machine  
Co.  
China Automotive Systems,  
Inc.  
Ciena Corporation  
CIRCOR International, Inc.  
Cirrus Logic, Inc.  
Cisco Systems, Inc.  
Clearfield, Inc.  
ClearOne, Inc.  
Coda Octopus Group, Inc.  
Cognex Corporation  
Coherent, Inc.  
Cohu, Inc.  
Colfax Corporation  
Columbus McKinnon  
Corporation  
Commercial Vehicle Group,  
Inc.  
CompX International Inc.  
Comtech  
Telecommunications Corp.  
CONMED Corporation  
Continental Materials  
Corporation  
Cooper Tire & Rubber  
Company  
Cooper-Standard Holdings  
Inc.  
Core Molding Technologies,  
Inc.  
Corning Incorporated  
Crane Co.  
Cree, Inc.  
Crown Holdings, Inc.  
CTI Industries Corporation  
CTS Corporation

### SIC 284

---

Church & Dwight Co., Inc.  
Colgate-Palmolive  
Company  
IKONICS Corporation  
Inter Parfums, Inc.  
Ocean Bio-Chem, Inc.  
The Estée Lauder  
Companies Inc.

### SIC 286

---

FutureFuel Corp.  
Huntsman Corporation  
KMG Chemicals, Inc.  
NewMarket Corporation  
REX American Resources  
Corporation  
Sensient Technologies  
Corporation  
Westlake Chemical  
Corporation

### SIC 287

---

American Vanguard  
Corporation  
CF Industries Holdings, Inc.  
CVR Partners, LP  
FMC Corporation  
Thai Nakin Hospital Public  
Company Limited  
The Scotts Miracle-Gro  
Company

### SIC 289

---

Cabot Corporation  
Cabot Microelectronics  
Corporation  
Chase Corporation  
Flotek Industries, Inc.  
H.B. Fuller Company  
WD-40 Company

### SIC 29

---

Chevron Corporation  
CVR Energy, Inc.  
CVR Refining, LP  
Delek US Holdings, Inc.  
Exxon Mobil Corporation  
HollyFrontier Corporation  
PBF Energy Inc.  
Phillips 66  
Quaker Chemical  
Corporation  
Trecora Resources

Appendix A: Companies (Main Set) in Each Industry, by SIC Code

Curtiss-Wright Corporation	Haemonetics Corporation	Lockheed Martin Corporation
CVD Equipment Corporation	Hardinge Inc.	LRAD Corporation
Daktronics, Inc.	Harley-Davidson, Inc.	LSI Industries Inc.
Dana Incorporated	Hasbro, Inc.	Lydall, Inc.
Danaher Corporation	Haynes International, Inc.	Manitex International, Inc.
Data I/O Corporation	HEICO Corporation	Masimo Corporation
Deere & Company	Highpower International, Inc.	Materion Corporation
Digi International Inc.	Hillenbrand, Inc.	Mattel, Inc.
Diodes Incorporated	Hologic, Inc.	Maxim Integrated Products, Inc.
Donaldson Company, Inc.	HP Inc.	Mercury Systems, Inc.
Dorman Products, Inc.	Hubbell Incorporated	Merit Medical Systems, Inc.
Douglas Dynamics, Inc.	Huntington Ingalls Industries, Inc.	Meritor, Inc.
Dover Corporation	Hurco Companies, Inc.	Mesa Laboratories, Inc.
Dril-Quip, Inc.	Hyster-Yale Materials Handling, Inc.	Methode Electronics, Inc.
Eagle Materials Inc.	ICU Medical, Inc.	Mettler-Toledo International Inc.
EchoStar Corporation	IDEX Corporation	Microchip Technology Incorporated
Edwards Lifesciences Corporation	II-VI Incorporated	Micron Technology, Inc.
Electromed, Inc.	Illinois Tool Works Inc.	Microsemi Corporation
Electronics for Imaging, Inc.	Illumina, Inc.	Miller Industries, Inc.
Electro-Sensors, Inc.	Insteel Industries, Inc.	MKS Instruments, Inc.
Emerson Electric Co.	Integer Holdings Corporation	Modine Manufacturing Company
Emerson Radio Corp.	Integra LifeSciences Holdings Corporation	Monolithic Power Systems, Inc.
Encore Wire Corporation	Integrated Device Technology, Inc.	Moog Inc.
EnerSys	Intel Corporation	Movado Group, Inc.
EnPro Industries, Inc.	Interlink Electronics, Inc.	MSA Safety Incorporated
Entegris, Inc.	inTEST Corporation	MTS Systems Corporation
Escalade, Incorporated	Intuitive Surgical, Inc.	Mueller Industries, Inc.
ESCO Technologies Inc.	IPG Photonics Corporation	Mueller Water Products, Inc.
Espey Mfg. & Electronics Corp.	iRobot Corporation	Myers Industries, Inc.
Esterline Technologies Corporation	ITT Inc.	Nanometrics Incorporated
FARO Technologies, Inc.	Jabil Inc.	Napco Security Technologies, Inc.
Federal Signal Corporation	John Bean Technologies Corporation	National Oilwell Varco, Inc.
Finisar Corporation	Johnson Outdoors Inc.	National Presto Industries, Inc.
First Solar, Inc.	Juniper Networks, Inc.	Natural Gas Services Group, Inc.
FLIR Systems, Inc.	Kadant Inc.	Natus Medical Incorporated
Flowserve Corporation	Kaiser Aluminum Corporation	Nautilus, Inc.
Ford Motor Company	Kewaunee Scientific Corporation	NCI Building Systems, Inc.
Fortinet, Inc.	Key Tronic Corporation	NetApp, Inc.
Forum Energy Technologies, Inc.	KLA-Tencor Corporation	NETGEAR, Inc.
Fossil Group, Inc.	Kulicke and Soffa Industries, Inc.	NIKE, Inc.
Franklin Electric Co., Inc.	L3 Technologies, Inc.	NN, Inc.
FreightCar America, Inc.	Lam Research Corporation	Nordson Corporation
Frequency Electronics, Inc.	LCI Industries	Nortech Systems Incorporated
Friedman Industries, Incorporated	LeMaitre Vascular, Inc.	Northrop Grumman Corporation
Gaming Partners International Corporation	Lennox International Inc.	Nucor Corporation
Gencor Industries, Inc.	Libbey Inc.	NuVasive, Inc.
Generac Holdings Inc.	Lifetime Brands, Inc.	NVE Corporation
General Dynamics Corporation	LightPath Technologies, Inc.	NVIDIA Corporation
General Motors Company	Lincoln Electric Holdings, Inc.	Oil-Dri Corporation of America
Gentex Corporation	Lindsay Corporation	Omega Flex, Inc.
Gentherm Incorporated	Littelfuse, Inc.	
Globus Medical, Inc.		
Graco Inc.		
Graham Corporation		
Griffon Corporation		

## Appendix A: Companies (Main Set) in Each Industry, by SIC Code

ON Semiconductor Corporation	Standex International Corporation	United Technologies Corporation
Orbital ATK, Inc.	Stanley Black & Decker, Inc.	Universal Display Corporation
Oshkosh Corporation	Steel Dynamics, Inc.	Universal Electronics Inc.
OSI Systems, Inc.	Steven Madden, Ltd.	USA Technologies, Inc.
Owens Corning	Stoneridge, Inc.	USG Corporation
Owens-Illinois, Inc.	STRATTEC Security Corporation	Utah Medical Products, Inc.
P&F Industries, Inc.	Stryker Corporation	Valmont Industries, Inc.
PACCAR Inc	Sturm, Ruger & Company, Inc.	Varian Medical Systems, Inc.
Park Electrochemical Corp.	Sun Hydraulics Corporation	VASCO Data Security International, Inc.
Parker-Hannifin Corporation	SunCoke Energy Partners, L.P.	Vera Bradley, Inc.
PDF Solutions, Inc.	SunCoke Energy, Inc.	Veru Inc.
PerkinElmer, Inc.	Superior Industries International, Inc.	Viavi Solutions Inc.
PGT Innovations, Inc.	Synaptics Incorporated	Vishay Intertechnology, Inc.
Photronics, Inc.	Tapestry, Inc.	Vishay Precision Group, Inc.
Pioneer Power Solutions, Inc.	Taylor Devices, Inc.	Visteon Corporation
Plantronics, Inc.	Teledyne Technologies Incorporated	Wabash National Corporation
Plexus Corp.	Teleflex Incorporated	WABCO Holdings Inc.
Polaris Industries Inc.	Tennant Company	Waters Corporation
Powell Industries, Inc.	Tenneco Inc.	Watts Water Technologies, Inc.
Power Integrations, Inc.	Teradyne, Inc.	West Pharmaceutical Services, Inc.
Pro-Dex, Inc.	Terex Corporation	Western Digital Corporation
Profire Energy, Inc.	Texas Instruments Incorporated	Westinghouse Air Brake Technologies Corporation
Proto Labs, Inc.	Textron Inc.	Whirlpool Corporation
Qorvo, Inc.	The Boeing Company	Winnebago Industries, Inc.
Raven Industries, Inc.	The Cooper Companies, Inc.	Wireless Telecom Group, Inc.
Raytheon Company	The Eastern Company	Wolverine World Wide, Inc.
RBC Bearings Incorporated	The Goodyear Tire & Rubber Company	Woodward, Inc.
Regal Beloit Corporation	The Greenbrier Companies, Inc.	Worthington Industries, Inc.
RELM Wireless Corporation	The Manitowoc Company, Inc.	WSI Industries, Inc.
ResMed Inc.	The Timken Company	Xcerra Corporation
Rexnord Corporation	The Toro Company	Xerox Corporation
RF Industries, Ltd.	Thermo Fisher Scientific Inc.	Xilinx, Inc.
Rockwell Automation Inc.	Thermon Group Holdings, Inc.	Xylem Inc.
Rockwell Collins, Inc.	Thor Industries, Inc.	Zimmer Biomet Holdings, Inc.
Rogers Corporation	Tower International, Inc.	
Roper Technologies, Inc.	TransAct Technologies Incorporated	<b>SIC 30</b>
Rudolph Technologies, Inc.	TransDigm Group Incorporated	AptarGroup, Inc.
Sanmina Corporation	Tredegar Corporation	Cooper Tire & Rubber Company
Sealed Air Corporation	TriMas Corporation	Core Molding Technologies, Inc.
Servotronics, Inc.	Trimble Inc.	CTI Industries Corporation
Sharing Economy International Inc.	Trinity Industries, Inc.	Myers Industries, Inc.
Shiloh Industries, Inc.	TTM Technologies, Inc.	NIKE, Inc.
SigmaTron International, Inc.	Tupperware Brands Corporation	Raven Industries, Inc.
Silgan Holdings Inc.	U.S. Concrete, Inc.	Sealed Air Corporation
Silicon Laboratories Inc.	Ubiquiti Networks, Inc.	The Goodyear Tire & Rubber Company
Simpson Manufacturing Co., Inc.	UFP Technologies, Inc.	Tupperware Brands Corporation
Skyworks Solutions, Inc.	Ultralife Corporation	UFP Technologies, Inc.
Snap-on Incorporated		Veru Inc.
Socket Mobile, Inc.		
SORL Auto Parts, Inc.		
Sparton Corporation		
Spirit AeroSystems Holdings, Inc.		
SPX Corporation		
Standard Motor Products, Inc.		

## Appendix A: Companies (Main Set) in Each Industry, by SIC Code

West Pharmaceutical Services, Inc.

### SIC 308

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AptarGroup, Inc.  
Core Molding Technologies, Inc.  
Myers Industries, Inc.  
Raven Industries, Inc.  
Sealed Air Corporation  
Tupperware Brands Corporation  
UFP Technologies, Inc.

### SIC 32

---

Armstrong World Industries, Inc.  
Eagle Materials Inc.  
Libbey Inc.  
Oil-Dri Corporation of America  
Owens Corning  
Owens-Illinois, Inc.  
U.S. Concrete, Inc.  
USG Corporation

### SIC 33

---

Carpenter Technology Corporation  
Encore Wire Corporation  
Friedman Industries, Incorporated  
Haynes International, Inc.  
Insteel Industries, Inc.  
Kaiser Aluminum Corporation  
Materion Corporation  
Mueller Industries, Inc.  
SunCoke Energy Partners, L.P.  
SunCoke Energy, Inc.

### SIC 331

---

Carpenter Technology Corporation  
Friedman Industries, Incorporated  
Haynes International, Inc.  
Insteel Industries, Inc.  
SunCoke Energy Partners, L.P.  
SunCoke Energy, Inc.

### SIC 34

---

Acme United Corporation  
American Outdoor Brands Corporation  
Axon Enterprise, Inc.  
Ball Corporation  
BWX Technologies, Inc.  
Chart Industries, Inc.  
Chicago Rivet & Machine

Co.  
CIRCOR International, Inc.  
CompX International Inc.  
Crown Holdings, Inc.  
Graham Corporation  
Lifetime Brands, Inc.  
Mueller Water Products, Inc.  
National Presto Industries, Inc.  
NCI Building Systems, Inc.  
Omega Flex, Inc.  
Parker-Hannifin Corporation  
PGT Innovations, Inc.  
Shiloh Industries, Inc.  
Silgan Holdings Inc.  
Simpson Manufacturing Co., Inc.  
Sturm, Ruger & Company, Inc.  
Sun Hydraulics Corporation  
The Eastern Company  
Watts Water Technologies, Inc.

### SIC 342

---

Acme United Corporation  
CompX International Inc.  
Lifetime Brands, Inc.  
Simpson Manufacturing Co., Inc.  
The Eastern Company

### SIC 344

---

BWX Technologies, Inc.  
Chart Industries, Inc.  
Graham Corporation  
NCI Building Systems, Inc.  
PGT Innovations, Inc.

### SIC 349

---

CIRCOR International, Inc.  
Mueller Water Products, Inc.  
Omega Flex, Inc.  
Parker-Hannifin Corporation  
Sun Hydraulics Corporation  
Watts Water Technologies, Inc.

### SIC 35

---

AAON, Inc.  
AGCO Corporation  
Alamo Group Inc.  
Altra Industrial Motion Corp.  
Applied Materials, Inc.  
Art's-Way Manufacturing Co., Inc.  
Astec Industries, Inc.  
Axcelis Technologies, Inc.  
Briggs & Stratton Corporation  
Brooks Automation, Inc.  
Cisco Systems, Inc.

Colfax Corporation  
Columbus McKinnon Corporation  
CVD Equipment Corporation  
Deere & Company  
Digi International Inc.  
Douglas Dynamics, Inc.  
Dover Corporation  
Dril-Quip, Inc.  
Electronics for Imaging, Inc.  
Entegris, Inc.  
Finisar Corporation  
Fortinet, Inc.  
Forum Energy Technologies, Inc.  
Gencor Industries, Inc.  
Graco Inc.  
Hardinge Inc.  
HP Inc.  
Hyster-Yale Materials Handling, Inc.  
John Bean Technologies Corporation  
Juniper Networks, Inc.  
Kadant Inc.  
Kulicke and Soffa Industries, Inc.  
Lam Research Corporation  
Lennox International Inc.  
Lincoln Electric Holdings, Inc.  
Lindsay Corporation  
Manitex International, Inc.  
National Oilwell Varco, Inc.  
Natural Gas Services Group, Inc.  
NetApp, Inc.  
Nordson Corporation  
P&F Industries, Inc.  
PDF Solutions, Inc.  
Profire Energy, Inc.  
Proto Labs, Inc.  
RBC Bearings Incorporated  
Rexnord Corporation  
Sharing Economy International Inc.  
SPX Corporation  
Taylor Devices, Inc.  
Tennant Company  
Terex Corporation  
The Manitowoc Company, Inc.  
The Timken Company  
The Toro Company  
TransAct Technologies Incorporated  
USA Technologies, Inc.  
Western Digital Corporation  
WSI Industries, Inc.  
Xerox Corporation

## Appendix A: Companies (Main Set) in Each Industry, by SIC Code

### SIC 353

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Astec Industries, Inc.  
Columbus McKinnon Corporation  
Douglas Dynamics, Inc.  
Dril-Quip, Inc.  
Forum Energy Technologies, Inc.  
Hyster-Yale Materials Handling, Inc.  
Manitex International, Inc.  
National Oilwell Varco, Inc.  
Natural Gas Services Group, Inc.  
Profire Energy, Inc.  
Terex Corporation  
The Manitowoc Company, Inc.

### SIC 3533

---

Dril-Quip, Inc.  
Forum Energy Technologies, Inc.  
National Oilwell Varco, Inc.  
Natural Gas Services Group, Inc.  
Profire Energy, Inc.

### SIC 355

---

Applied Materials, Inc.  
Axcelis Technologies, Inc.  
Brooks Automation, Inc.  
CVD Equipment Corporation  
Entegris, Inc.  
Kadant Inc.  
Kulicke and Soffa Industries, Inc.  
Lam Research Corporation  
PDF Solutions, Inc.  
Proto Labs, Inc.  
Sharing Economy International Inc.

### SIC 3559

---

Applied Materials, Inc.  
Axcelis Technologies, Inc.  
Brooks Automation, Inc.  
CVD Equipment Corporation  
Entegris, Inc.  
Kulicke and Soffa Industries, Inc.  
Lam Research Corporation  
PDF Solutions, Inc.  
Proto Labs, Inc.

### SIC 356

---

Altra Industrial Motion Corp.  
Gencor Industries, Inc.  
Graco Inc.  
Nordson Corporation  
RBC Bearings Incorporated

Rexnord Corporation  
Taylor Devices, Inc.  
The Timken Company  
WSI Industries, Inc.

### SIC 357

---

Cisco Systems, Inc.  
Digi International Inc.  
Electronics for Imaging, Inc.  
Finisar Corporation  
Fortinet, Inc.  
HP Inc.  
Juniper Networks, Inc.  
NetApp, Inc.  
TransAct Technologies Incorporated  
USA Technologies, Inc.  
Western Digital Corporation  
Xerox Corporation

### SIC 36

---

A. O. Smith Corporation  
Acuity Brands, Inc.  
ADTRAN, Inc.  
Advanced Energy Industries, Inc.  
Allied Motion Technologies Inc.  
Amkor Technology, Inc.  
Amphenol Corporation  
Analog Devices, Inc.  
Apple Inc.  
Astronics Corporation  
AVX Corporation  
Belden Inc.  
Benchmark Electronics, Inc.  
CalAmp Corp.  
Ciena Corporation  
Cirrus Logic, Inc.  
Clearfield, Inc.  
ClearOne, Inc.  
Comtech Telecommunications Corp.  
Cree, Inc.  
CTS Corporation  
Diodes Incorporated  
EchoStar Corporation  
Emerson Radio Corp.  
EnerSys  
Espey Mfg. & Electronics Corp.  
First Solar, Inc.  
Franklin Electric Co., Inc.  
Generac Holdings Inc.  
Highpower International, Inc.  
Integrated Device Technology, Inc.  
Intel Corporation  
Interlink Electronics, Inc.  
IPG Photonics Corporation  
Jabil Inc.

Key Tronic Corporation  
Littelfuse, Inc.  
LRAD Corporation  
LSI Industries Inc.  
Maxim Integrated Products, Inc.  
Mercury Systems, Inc.  
Methode Electronics, Inc.  
Microchip Technology Incorporated  
Micron Technology, Inc.  
Microsemi Corporation  
Monolithic Power Systems, Inc.  
Napco Security Technologies, Inc.  
Nortech Systems Incorporated  
NVE Corporation  
NVIDIA Corporation  
ON Semiconductor Corporation  
Park Electrochemical Corp.  
Photronics, Inc.  
Pioneer Power Solutions, Inc.  
Plantronics, Inc.  
Plexus Corp.  
Powell Industries, Inc.  
Power Integrations, Inc.  
Qorvo, Inc.  
Regal Beloit Corporation  
RELM Wireless Corporation  
RF Industries, Ltd.  
Sanmina Corporation  
Servotronics, Inc.  
SigmaTron International, Inc.  
Silicon Laboratories Inc.  
Skyworks Solutions, Inc.  
Socket Mobile, Inc.  
Sparton Corporation  
Standard Motor Products, Inc.  
Stoneridge, Inc.  
Synaptics Incorporated  
Texas Instruments Incorporated  
Thermon Group Holdings, Inc.  
TTM Technologies, Inc.  
Ubiquiti Networks, Inc.  
Ultralife Corporation  
Universal Display Corporation  
Universal Electronics Inc.  
VASCO Data Security International, Inc.  
Vishay Intertechnology, Inc.  
Vishay Precision Group, Inc.  
Whirlpool Corporation  
Woodward, Inc.  
Xilinx, Inc.



## Appendix A: Companies (Main Set) in Each Industry, by SIC Code

### SIC 362

Allied Motion Technologies Inc.  
Franklin Electric Co., Inc.  
Generac Holdings Inc.  
Regal Beloit Corporation  
Servotronics, Inc.  
Woodward, Inc.

### SIC 3621

Allied Motion Technologies Inc.  
Franklin Electric Co., Inc.  
Generac Holdings Inc.  
Regal Beloit Corporation  
Servotronics, Inc.

### SIC 366

ADTRAN, Inc.  
Apple Inc.  
CalAmp Corp.  
Ciena Corporation  
ClearOne, Inc.  
Comtech  
Telecommunications Corp.  
EchoStar Corporation  
Napco Security Technologies, Inc.  
Plantronics, Inc.  
RELM Wireless Corporation  
Socket Mobile, Inc.  
Ubiquiti Networks, Inc.  
VASCO Data Security International, Inc.

### SIC 3663

Apple Inc.  
CalAmp Corp.  
ClearOne, Inc.  
Comtech  
Telecommunications Corp.  
EchoStar Corporation  
RELM Wireless Corporation  
Socket Mobile, Inc.  
Ubiquiti Networks, Inc.

### SIC 367

Advanced Energy Industries, Inc.  
Amkor Technology, Inc.  
Amphenol Corporation  
Analog Devices, Inc.  
AVX Corporation  
Belden Inc.  
Benchmark Electronics, Inc.  
Cirrus Logic, Inc.  
Clearfield, Inc.  
Cree, Inc.  
CTS Corporation  
Diodes Incorporated  
Espey Mfg. & Electronics Corp.

First Solar, Inc.  
Integrated Device Technology, Inc.  
Intel Corporation  
Interlink Electronics, Inc.  
IPG Photonics Corporation  
Jabil Inc.  
Key Tronic Corporation  
Maxim Integrated Products, Inc.  
Mercury Systems, Inc.  
Methode Electronics, Inc.  
Microchip Technology Incorporated  
Micron Technology, Inc.  
Microsemi Corporation  
Monolithic Power Systems, Inc.  
Nortech Systems Incorporated  
NVE Corporation  
NVIDIA Corporation  
ON Semiconductor Corporation  
Park Electrochemical Corp.  
Photronics, Inc.  
Plexus Corp.  
Power Integrations, Inc.  
Qorvo, Inc.  
RF Industries, Ltd.  
Sanmina Corporation  
SigmaTron International, Inc.  
Silicon Laboratories Inc.  
Skyworks Solutions, Inc.  
Sparton Corporation  
Stoneridge, Inc.  
Synaptics Incorporated  
Texas Instruments Incorporated  
TTM Technologies, Inc.  
Universal Display Corporation  
Vishay Intertechnology, Inc.  
Vishay Precision Group, Inc.  
Xilinx, Inc.

### SIC 3672

Benchmark Electronics, Inc.  
Jabil Inc.  
Park Electrochemical Corp.  
Plexus Corp.  
Sanmina Corporation  
SigmaTron International, Inc.  
TTM Technologies, Inc.

### SIC 3674

Amkor Technology, Inc.  
Analog Devices, Inc.  
Cirrus Logic, Inc.  
Cree, Inc.

Diodes Incorporated  
First Solar, Inc.  
Integrated Device Technology, Inc.  
Intel Corporation  
IPG Photonics Corporation  
Maxim Integrated Products, Inc.  
Mercury Systems, Inc.  
Microchip Technology Incorporated  
Micron Technology, Inc.  
Microsemi Corporation  
Monolithic Power Systems, Inc.  
NVE Corporation  
NVIDIA Corporation  
ON Semiconductor Corporation  
Photronics, Inc.  
Power Integrations, Inc.  
Qorvo, Inc.  
Silicon Laboratories Inc.  
Skyworks Solutions, Inc.  
Synaptics Incorporated  
Texas Instruments Incorporated  
Universal Display Corporation  
Vishay Precision Group, Inc.  
Xilinx, Inc.

### SIC 3679

Advanced Energy Industries, Inc.  
Clearfield, Inc.  
Espey Mfg. & Electronics Corp.  
Interlink Electronics, Inc.  
Nortech Systems Incorporated  
Sparton Corporation  
Stoneridge, Inc.

### SIC 369

EnerSys  
Highpower International, Inc.  
Standard Motor Products, Inc.  
Thermon Group Holdings, Inc.  
Ultralife Corporation

### SIC 37

Aerojet Rocketdyne Holdings, Inc.  
AeroVironment, Inc.  
Allison Transmission Holdings, Inc.  
American Axle & Manufacturing Holdings, Inc.

## Appendix A: Companies (Main Set) in Each Industry, by SIC Code

American Railcar Industries, Inc.  
 Autoliv, Inc.  
 BorgWarner Inc.  
 China Automotive Systems, Inc.  
 Commercial Vehicle Group, Inc.  
 Cooper-Standard Holdings Inc.  
 Dana Incorporated  
 Dorman Products, Inc.  
 Federal Signal Corporation  
 Ford Motor Company  
 FreightCar America, Inc.  
 General Motors Company  
 Gentex Corporation  
 Gentherm Incorporated  
 Harley-Davidson, Inc.  
 Huntington Ingalls Industries, Inc.  
 LCI Industries  
 Lockheed Martin Corporation  
 Meritor, Inc.  
 Miller Industries, Inc.  
 Modine Manufacturing Company  
 PACCAR Inc  
 Polaris Industries Inc.  
 SORL Auto Parts, Inc.  
 Spirit AeroSystems Holdings, Inc.  
 STRATTEC Security Corporation  
 Superior Industries International, Inc.  
 Tenneco Inc.  
 Textron Inc.  
 The Boeing Company  
 The Greenbrier Companies, Inc.  
 Thor Industries, Inc.  
 Tower International, Inc.  
 TransDigm Group Incorporated  
 Visteon Corporation  
 Wabash National Corporation  
 WABCO Holdings Inc.  
 Westinghouse Air Brake Technologies Corporation  
 Winnebago Industries, Inc.

China Automotive Systems, Inc.  
 Commercial Vehicle Group, Inc.  
 Cooper-Standard Holdings Inc.  
 Dana Incorporated  
 Dorman Products, Inc.  
 Federal Signal Corporation  
 Ford Motor Company  
 General Motors Company  
 Gentex Corporation  
 Gentherm Incorporated  
 LCI Industries  
 Meritor, Inc.  
 Miller Industries, Inc.  
 Modine Manufacturing Company  
 PACCAR Inc  
 SORL Auto Parts, Inc.  
 STRATTEC Security Corporation  
 Superior Industries International, Inc.  
 Tenneco Inc.  
 Tower International, Inc.  
 Visteon Corporation  
 Wabash National Corporation  
 WABCO Holdings Inc.

STRATTEC Security Corporation  
 Superior Industries International, Inc.  
 Tenneco Inc.  
 Visteon Corporation  
 WABCO Holdings Inc.

### SIC 38

Abaxis, Inc.  
 ABIOMED, Inc.  
 Align Technology, Inc.  
 Analogic Corporation  
 Atrion Corporation  
 Badger Meter, Inc.  
 Becton, Dickinson and Company  
 Bio-Rad Laboratories, Inc.  
 Bruker Corporation  
 Coda Octopus Group, Inc.  
 Cognex Corporation  
 Coherent, Inc.  
 Cohu, Inc.  
 CONMED Corporation  
 Danaher Corporation  
 Data I/O Corporation  
 Edwards Lifesciences Corporation  
 Electromed, Inc.  
 Electro-Sensors, Inc.  
 Esterline Technologies Corporation  
 FARO Technologies, Inc.  
 FLIR Systems, Inc.  
 Fossil Group, Inc.  
 Frequency Electronics, Inc.  
 Globus Medical, Inc.  
 Haemonetics Corporation  
 Hologic, Inc.  
 Hurco Companies, Inc.  
 ICU Medical, Inc.  
 II-VI Incorporated  
 Illumina, Inc.  
 Integer Holdings Corporation  
 Integra LifeSciences Holdings Corporation  
 inTEST Corporation  
 Intuitive Surgical, Inc.  
 Kewaunee Scientific Corporation  
 KLA-Tencor Corporation  
 LeMaitre Vascular, Inc.  
 LightPath Technologies, Inc.  
 Masimo Corporation  
 Merit Medical Systems, Inc.  
 Mesa Laboratories, Inc.  
 Mettler-Toledo International Inc.  
 Movado Group, Inc.  
 MSA Safety Incorporated

### SIC 3711

Federal Signal Corporation  
 Ford Motor Company  
 General Motors Company  
 LCI Industries  
 PACCAR Inc  
 Tower International, Inc.

### SIC 3714

Allison Transmission Holdings, Inc.  
 American Axle & Manufacturing Holdings, Inc.  
 Autoliv, Inc.  
 BorgWarner Inc.  
 China Automotive Systems, Inc.  
 Commercial Vehicle Group, Inc.  
 Cooper-Standard Holdings Inc.  
 Dana Incorporated  
 Dorman Products, Inc.  
 Gentex Corporation  
 Gentherm Incorporated  
 Meritor, Inc.  
 Modine Manufacturing Company  
 SORL Auto Parts, Inc.

### SIC 371

Allison Transmission Holdings, Inc.  
 American Axle & Manufacturing Holdings, Inc.  
 Autoliv, Inc.  
 BorgWarner Inc.

Appendix A: Companies (Main Set) in Each Industry, by SIC Code

MTS Systems Corporation  
 Nanometrics Incorporated  
 Natus Medical Incorporated  
 NuVasive, Inc.  
 OSI Systems, Inc.  
 PerkinElmer, Inc.  
 Pro-Dex, Inc.  
 ResMed Inc.  
 Roper Technologies, Inc.  
 Rudolph Technologies, Inc.  
 Stryker Corporation  
 Teledyne Technologies Incorporated  
 Teleflex Incorporated  
 Teradyne, Inc.  
 The Cooper Companies, Inc.  
 Thermo Fisher Scientific Inc.  
 Trimble Inc.  
 Utah Medical Products, Inc.  
 Varian Medical Systems, Inc.  
 Waters Corporation  
 Xcerra Corporation  
 Zimmer Biomet Holdings, Inc.

Frequency Electronics, Inc.  
 inTEST Corporation  
 Teradyne, Inc.  
 Xcerra Corporation

Teleflex Incorporated

**SIC 3845**

Abaxis, Inc.  
 Analogic Corporation  
 CONMED Corporation  
 Electromed, Inc.  
 Integer Holdings Corporation  
 Intuitive Surgical, Inc.  
 Masimo Corporation  
 Natus Medical Incorporated  
 ResMed Inc.  
 Utah Medical Products, Inc.  
 Varian Medical Systems, Inc.

**SIC 3826**

Bio-Rad Laboratories, Inc.  
 Bruker Corporation  
 Coherent, Inc.  
 Illumina, Inc.  
 Mettler-Toledo International Inc.  
 Thermo Fisher Scientific Inc.  
 Waters Corporation

**SIC 384**

Abaxis, Inc.  
 ABIOMED, Inc.  
 Align Technology, Inc.  
 Analogic Corporation  
 Atrion Corporation  
 CONMED Corporation  
 Edwards Lifesciences Corporation  
 Electromed, Inc.  
 Globus Medical, Inc.  
 Haemonetics Corporation  
 Hologic, Inc.  
 ICU Medical, Inc.  
 Integer Holdings Corporation  
 Integra LifeSciences Holdings Corporation  
 Intuitive Surgical, Inc.  
 LeMaitre Vascular, Inc.  
 Masimo Corporation  
 Merit Medical Systems, Inc.  
 MSA Safety Incorporated  
 Natus Medical Incorporated  
 NuVasive, Inc.  
 OSI Systems, Inc.  
 Pro-Dex, Inc.  
 ResMed Inc.  
 Stryker Corporation  
 Teleflex Incorporated  
 Utah Medical Products, Inc.  
 Varian Medical Systems, Inc.  
 Zimmer Biomet Holdings, Inc.

**SIC 39**

Callaway Golf Company  
 Daktronics, Inc.  
 Escalade, Incorporated  
 Gaming Partners  
 International Corporation  
 Hasbro, Inc.  
 iRobot Corporation  
 Mattel, Inc.  
 Nautilus, Inc.

**SIC 382**

Badger Meter, Inc.  
 Bio-Rad Laboratories, Inc.  
 Bruker Corporation  
 Cognex Corporation  
 Coherent, Inc.  
 Cohu, Inc.  
 Data I/O Corporation  
 Electro-Sensors, Inc.  
 FARO Technologies, Inc.  
 Frequency Electronics, Inc.  
 Hurco Companies, Inc.  
 II-VI Incorporated  
 Illumina, Inc.  
 inTEST Corporation  
 Kewaunee Scientific Corporation  
 LightPath Technologies, Inc.  
 Mettler-Toledo International Inc.  
 MTS Systems Corporation  
 Nanometrics Incorporated  
 Rudolph Technologies, Inc.  
 Teradyne, Inc.  
 Thermo Fisher Scientific Inc.  
 Trimble Inc.  
 Waters Corporation  
 Xcerra Corporation

**SIC 394**

Callaway Golf Company  
 Escalade, Incorporated  
 Hasbro, Inc.  
 Mattel, Inc.  
 Nautilus, Inc.

**SIC 4**

8x8, Inc.  
 Air Transport Services Group, Inc.  
 Alaska Air Group, Inc.  
 Alaska Communications Systems Group, Inc.  
 Allegiant Travel Company  
 ALLETE, Inc.  
 Alliant Energy Corporation  
 AMC Networks Inc.  
 Ameren Corporation  
 American Airlines Group Inc.  
 American Electric Power Company, Inc.  
 American States Water Company  
 American Water Works Company, Inc.  
 Andeavor Logistics LP  
 Aqua America, Inc.  
 ArcBest Corporation  
 Artesian Resources Corporation  
 AT&T Inc.

**SIC 3841**

ABIOMED, Inc.  
 Atrion Corporation  
 Globus Medical, Inc.  
 Haemonetics Corporation  
 ICU Medical, Inc.  
 LeMaitre Vascular, Inc.  
 Merit Medical Systems, Inc.  
 NuVasive, Inc.  
 Pro-Dex, Inc.

**SIC 3825**

Cohu, Inc.  
 Data I/O Corporation

## Appendix A: Companies (Main Set) in Each Industry, by SIC Code

Atlas Air Worldwide Holdings, Inc.	Eversource Energy	PG&E Corporation
Atmos Energy Corporation	Exelon Corporation	PHI, Inc.
ATN International, Inc.	Expedia Group, Inc.	Pinnacle West Capital Corporation
Avista Corporation	Expeditors International of Washington, Inc.	PNM Resources, Inc.
Beasley Broadcast Group, Inc.	FedEx Corporation	Portland General Electric Company
Black Hills Corporation	Forward Air Corporation	PPL Corporation
Boardwalk Pipeline Partners, LP	GATX Corporation	Public Service Enterprise Group Incorporated
Bristow Group Inc.	Genesee & Wyoming Inc.	Radiant Logistics, Inc.
Buckeye Partners, L.P.	Gray Television, Inc.	Republic Services, Inc.
C.H. Robinson Worldwide, Inc.	Great Plains Energy Incorporated	RGC Resources, Inc.
California Water Service Group	Hawaiian Electric Industries, Inc.	RigNet, Inc.
CBS Corporation	Hawaiian Holdings, Inc.	Saga Communications, Inc.
CenterPoint Energy, Inc.	Hawaiian Telcom Holdco, Inc.	Saia, Inc.
Central Pattana Public Company Limited	Heartland Express, Inc.	SCANA Corporation
CenturyLink, Inc.	Heritage-Crystal Clean, Inc	Sempra Energy
Charter Communications, Inc.	Holly Energy Partners, L.P.	Shenandoah Telecommunications Company
Chesapeake Utilities Corporation	Hub Group, Inc.	Sinclair Broadcast Group, Inc.
Clean Harbors, Inc.	Hudson Technologies Inc.	Sino-Global Shipping America, Ltd.
CMS Energy Corporation	IDACORP, Inc.	Sirius XM Holdings Inc.
Cogent Communications Holdings, Inc.	IDT Corporation	SJW Group
Connecticut Water Service, Inc.	Iridium Communications Inc.	SkyWest, Inc.
Consolidated Communications Holdings, Inc.	J.B. Hunt Transport Services, Inc.	Southwest Airlines Co.
Consolidated Edison, Inc.	JetBlue Airways Corporation	Spectra Energy Partners, LP
Covanta Holding Corporation	Kansas City Southern	Spire Inc.
Covenant Transportation Group, Inc.	Kinder Morgan, Inc.	Spirit Airlines, Inc.
CSX Corporation	Knight-Swift Transportation Holdings Inc.	Spok Holdings, Inc.
Delta Air Lines, Inc.	Landstar System, Inc.	Stericycle, Inc.
Discovery, Inc.	Macquarie Infrastructure Corporation	Stolt-Nielsen Limited
DISH Network Corporation	Magellan Midstream Partners, L.P.	TEGNA Inc.
Dominion Energy, Inc.	Marten Transport, Ltd.	Telephone and Data Systems, Inc.
DTE Energy Company	Matson, Inc.	The AES Corporation
Duke Energy Corporation	MGE Energy, Inc.	The E.W. Scripps Company
Echo Global Logistics, Inc.	Middlesex Water Company	The Providence Service Corporation
Edison International	MPLX LP	The Southern Company
El Paso Electric Company	MSG Networks Inc.	The Williams Companies, Inc.
Enbridge Energy Partners, L.P.	New Jersey Resources Corporation	The York Water Company
Energy Transfer Equity, L.P.	Nexstar Media Group, Inc.	Transmontaigne Partners L.P.
Energy Transfer Partners, L.P.	NextEra Energy, Inc.	Tribune Media Company
Entercom Communications Corp.	NiSource Inc.	Twenty-First Century Fox, Inc.
Entergy Corporation	Norfolk Southern Corporation	U.S. Geothermal Inc.
Envision Communications Corporation	Northwest Natural Gas Company	UGI Corporation
EQT Corporation	NorthWestern Corporation	Union Pacific Corporation
EQT Midstream Partners, LP	OGE Energy Corp.	United Continental Holdings, Inc.
Era Group Inc.	Old Dominion Freight Line, Inc.	United Parcel Service, Inc.
	ONEOK, Inc.	Unitil Corporation
	Otelco Inc.	Universal Logistics Holdings, Inc.
	Otter Tail Corporation	US Ecology, Inc.
	P.A.M. Transportation Services, Inc.	USA Truck, Inc.

## Appendix A: Companies (Main Set) in Each Industry, by SIC Code

Verizon Communications Inc.  
Viacom, Inc.  
Vonage Holdings Corp.  
Waste Management, Inc.  
WEC Energy Group, Inc.  
Werner Enterprises, Inc.  
Westar Energy, Inc.  
Western Gas Equity Partners, LP  
Xcel Energy Inc.

### SIC 40

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CSX Corporation  
Genesee & Wyoming Inc.  
Kansas City Southern  
Norfolk Southern Corporation  
Union Pacific Corporation

### SIC 42

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ArcBest Corporation  
Covenant Transportation Group, Inc.  
Forward Air Corporation  
Heartland Express, Inc.  
J.B. Hunt Transport Services, Inc.  
Knight-Swift Transportation Holdings Inc.  
Landstar System, Inc.  
Marten Transport, Ltd.  
Old Dominion Freight Line, Inc.  
P.A.M. Transportation Services, Inc.  
Saia, Inc.  
United Parcel Service, Inc.  
USA Truck, Inc.  
Werner Enterprises, Inc.

### SIC 4213

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ArcBest Corporation  
Covenant Transportation Group, Inc.  
Heartland Express, Inc.  
J.B. Hunt Transport Services, Inc.  
Knight-Swift Transportation Holdings Inc.  
Landstar System, Inc.  
Marten Transport, Ltd.  
Old Dominion Freight Line, Inc.  
P.A.M. Transportation Services, Inc.  
Saia, Inc.  
USA Truck, Inc.  
Werner Enterprises, Inc.

### SIC 45

---

Air Transport Services Group, Inc.  
Alaska Air Group, Inc.  
Allegiant Travel Company  
American Airlines Group Inc.  
Atlas Air Worldwide Holdings, Inc.  
Bristow Group Inc.  
Delta Air Lines, Inc.  
Era Group Inc.  
Hawaiian Holdings, Inc.  
JetBlue Airways Corporation  
Macquarie Infrastructure Corporation  
PHI, Inc.  
SkyWest, Inc.  
Southwest Airlines Co.  
Spirit Airlines, Inc.  
United Continental Holdings, Inc.

### SIC 451

---

Air Transport Services Group, Inc.  
Alaska Air Group, Inc.  
Allegiant Travel Company  
American Airlines Group Inc.  
Delta Air Lines, Inc.  
Hawaiian Holdings, Inc.  
JetBlue Airways Corporation  
SkyWest, Inc.  
Southwest Airlines Co.  
Spirit Airlines, Inc.  
United Continental Holdings, Inc.

### SIC 4512

---

Alaska Air Group, Inc.  
Allegiant Travel Company  
American Airlines Group Inc.  
Delta Air Lines, Inc.  
Hawaiian Holdings, Inc.  
JetBlue Airways Corporation  
SkyWest, Inc.  
Southwest Airlines Co.  
Spirit Airlines, Inc.  
United Continental Holdings, Inc.

### SIC 46

---

Andeavor Logistics LP  
Buckeye Partners, L.P.  
Enbridge Energy Partners, L.P.  
Holly Energy Partners, L.P.

Magellan Midstream Partners, L.P.  
MPLX LP  
Transmontaigne Partners L.P.

### SIC 47

---

Echo Global Logistics, Inc.  
Expedia Group, Inc.  
Expeditors International of Washington, Inc.  
GATX Corporation  
Hub Group, Inc.  
Radiant Logistics, Inc.  
Sino-Global Shipping America, Ltd.

### SIC 473

---

Echo Global Logistics, Inc.  
Expeditors International of Washington, Inc.  
Hub Group, Inc.  
Radiant Logistics, Inc.  
Sino-Global Shipping America, Ltd.

### SIC 48

---

8x8, Inc.  
Alaska Communications Systems Group, Inc.  
AMC Networks Inc.  
AT&T Inc.  
ATN International, Inc.  
Beasley Broadcast Group, Inc.  
CBS Corporation  
CenturyLink, Inc.  
Charter Communications, Inc.  
Cogent Communications Holdings, Inc.  
Consolidated Communications Holdings, Inc.  
Discovery, Inc.  
DISH Network Corporation  
Entercom Communications Corp.  
Entravision Communications Corporation  
Gray Television, Inc.  
Hawaiian Telcom Holdco, Inc.  
IDT Corporation  
Iridium Communications Inc.  
MSG Networks Inc.  
Nexstar Media Group, Inc.  
Otelco Inc.  
RigNet, Inc.  
Saga Communications, Inc.

Appendix A: Companies (Main Set) in Each Industry, by SIC Code

Shenandoah  
Telecommunications  
Company  
Sinclair Broadcast Group,  
Inc.  
Sirius XM Holdings Inc.  
Spok Holdings, Inc.  
Stolt-Nielsen Limited  
TEGNA Inc.  
Telephone and Data  
Systems, Inc.  
The E.W. Scripps Company  
Tribune Media Company  
Twenty-First Century Fox,  
Inc.  
Verizon Communications  
Inc.  
Viacom, Inc.  
Vonage Holdings Corp.

**SIC 481**

Alaska Communications  
Systems Group, Inc.  
ATN International, Inc.  
CenturyLink, Inc.  
Cogent Communications  
Holdings, Inc.  
Consolidated  
Communications Holdings,  
Inc.  
Hawaiian Telcom Holdco,  
Inc.  
IDT Corporation  
Otelco Inc.  
Shenandoah  
Telecommunications  
Company  
Spok Holdings, Inc.  
Telephone and Data  
Systems, Inc.  
Verizon Communications  
Inc.

**SIC 4813**

Alaska Communications  
Systems Group, Inc.  
CenturyLink, Inc.  
Cogent Communications  
Holdings, Inc.  
Consolidated  
Communications Holdings,  
Inc.  
Hawaiian Telcom Holdco,  
Inc.  
IDT Corporation  
Otelco Inc.

**SIC 483**

AMC Networks Inc.  
Beasley Broadcast Group,  
Inc.  
Entercom Communications  
Corp.

Entravision  
Communications  
Corporation  
Gray Television, Inc.  
Nexstar Media Group, Inc.  
Saga Communications, Inc.  
Sinclair Broadcast Group,  
Inc.  
Sirius XM Holdings Inc.  
Stolt-Nielsen Limited  
TEGNA Inc.  
The E.W. Scripps Company  
Tribune Media Company  
Viacom, Inc.

**SIC 4833**

AMC Networks Inc.  
Entravision  
Communications  
Corporation  
Gray Television, Inc.  
Nexstar Media Group, Inc.  
Sinclair Broadcast Group,  
Inc.  
Stolt-Nielsen Limited  
TEGNA Inc.  
The E.W. Scripps Company  
Tribune Media Company  
Viacom, Inc.

**SIC 49**

ALLETE, Inc.  
Alliant Energy Corporation  
Ameren Corporation  
American Electric Power  
Company, Inc.  
American States Water  
Company  
American Water Works  
Company, Inc.  
Aqua America, Inc.  
Artesian Resources  
Corporation  
Atmos Energy Corporation  
Avista Corporation  
Black Hills Corporation  
Boardwalk Pipeline  
Partners, LP  
California Water Service  
Group  
CenterPoint Energy, Inc.  
Central Pattana Public  
Company Limited  
Chesapeake Utilities  
Corporation  
Clean Harbors, Inc.  
CMS Energy Corporation  
Connecticut Water Service,  
Inc.  
Consolidated Edison, Inc.  
Covanta Holding  
Corporation  
Dominion Energy, Inc.

DTE Energy Company  
Duke Energy Corporation  
Edison International  
El Paso Electric Company  
Energy Transfer Equity, L.P.  
Energy Transfer Partners,  
L.P.  
Entergy Corporation  
EQT Corporation  
EQT Midstream Partners,  
LP  
Eversource Energy  
Exelon Corporation  
Great Plains Energy  
Incorporated  
Hawaiian Electric Industries,  
Inc.  
Heritage-Crystal Clean, Inc  
Hudson Technologies Inc.  
IDACORP, Inc.  
Kinder Morgan, Inc.  
MGE Energy, Inc.  
Middlesex Water Company  
New Jersey Resources  
Corporation  
NextEra Energy, Inc.  
NiSource Inc.  
Northwest Natural Gas  
Company  
NorthWestern Corporation  
OGE Energy Corp.  
ONEOK, Inc.  
Otter Tail Corporation  
PG&E Corporation  
Pinnacle West Capital  
Corporation  
PNM Resources, Inc.  
Portland General Electric  
Company  
PPL Corporation  
Public Service Enterprise  
Group Incorporated  
Republic Services, Inc.  
RGC Resources, Inc.  
SCANA Corporation  
Sempra Energy  
SJW Group  
Spectra Energy Partners, LP  
Spire Inc.  
Stericycle, Inc.  
The AES Corporation  
The Southern Company  
The Williams Companies,  
Inc.  
The York Water Company  
U.S. Geothermal Inc.  
Unitil Corporation  
US Ecology, Inc.  
Waste Management, Inc.  
WEC Energy Group, Inc.  
Westar Energy, Inc.

## Appendix A: Companies (Main Set) in Each Industry, by SIC Code

Western Gas Equity  
Partners, LP  
Xcel Energy Inc.

The Williams Companies,  
Inc.  
Western Gas Equity  
Partners, LP

Aceto Corporation  
Adams Resources & Energy,  
Inc.

### SIC 491

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American Electric Power  
Company, Inc.  
Dominion Energy, Inc.  
Edison International  
El Paso Electric Company  
Energy Corporation  
Exelon Corporation  
Great Plains Energy  
Incorporated  
Hawaiian Electric Industries,  
Inc.  
IDACORP, Inc.  
NextEra Energy, Inc.  
Otter Tail Corporation  
Pinnacle West Capital  
Corporation  
PNM Resources, Inc.  
Portland General Electric  
Company  
PPL Corporation  
The Southern Company

### SIC 4924

---

Atmos Energy Corporation  
New Jersey Resources  
Corporation  
Northwest Natural Gas  
Company  
RGC Resources, Inc.  
Spire Inc.

ADDvantage Technologies  
Group, Inc.  
Advance Auto Parts, Inc.  
Amazon.com, Inc.  
AMCON Distributing  
Company  
American Eagle Outfitters,  
Inc.  
AmeriGas Partners, L.P.  
AmerisourceBergen  
Corporation  
Anixter International Inc.

### SIC 493

---

ALLETE, Inc.  
Alliant Energy Corporation  
Ameren Corporation  
Avista Corporation  
DTE Energy Company  
Duke Energy Corporation  
Eversource Energy  
MGE Energy, Inc.  
NorthWestern Corporation  
OGE Energy Corp.  
PG&E Corporation  
Public Service Enterprise  
Group Incorporated  
WEC Energy Group, Inc.  
Westar Energy, Inc.  
Xcel Energy Inc.

Applied Industrial  
Technologies, Inc.  
Ark Restaurants Corp.  
Arrow Electronics, Inc.  
Asbury Automotive Group,  
Inc.  
AutoNation, Inc.  
Avnet, Inc.  
Beacon Roofing Supply, Inc.  
Bed Bath & Beyond Inc.  
Best Buy Co., Inc.

### SIC 492

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Atmos Energy Corporation  
Boardwalk Pipeline  
Partners, LP  
Chesapeake Utilities  
Corporation  
Energy Transfer Equity, L.P.  
Energy Transfer Partners,  
L.P.  
EQT Corporation  
EQT Midstream Partners,  
LP  
Kinder Morgan, Inc.  
New Jersey Resources  
Corporation  
Northwest Natural Gas  
Company  
ONEOK, Inc.  
RGC Resources, Inc.  
Spectra Energy Partners, LP  
Spire Inc.  
The Williams Companies,  
Inc.  
Western Gas Equity  
Partners, LP

### SIC 494

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American States Water  
Company  
American Water Works  
Company, Inc.  
Aqua America, Inc.  
Artesian Resources  
Corporation  
California Water Service  
Group  
Connecticut Water Service,  
Inc.  
Middlesex Water Company  
SJW Group  
The York Water Company

Big 5 Sporting Goods  
Corporation  
Big Lots, Inc.  
Biglari Holdings Inc.  
BJ's Restaurants, Inc.  
Bloomin' Brands, Inc.  
Boise Cascade Company  
Brinker International, Inc.  
BSQUARE Corporation  
Build-A-Bear Workshop, Inc.  
Cardinal Health, Inc.  
CarMax Inc.  
Casey's General Stores, Inc.  
Central Garden & Pet  
Company  
Chico's FAS, Inc.  
China Auto Logistics Inc.  
Chipotle Mexican Grill, Inc.  
Chuy's Holdings, Inc.  
Citi Trends, Inc.  
Coffee Holding Co., Inc.  
Conn's, Inc.  
Copart, Inc.

### SIC 4922

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Boardwalk Pipeline  
Partners, LP  
Energy Transfer Equity, L.P.  
Energy Transfer Partners,  
L.P.  
EQT Midstream Partners,  
LP  
Spectra Energy Partners, LP

### SIC 495

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Clean Harbors, Inc.  
Covanta Holding  
Corporation  
Heritage-Crystal Clean, Inc  
Hudson Technologies Inc.  
Republic Services, Inc.  
Stericycle, Inc.  
US Ecology, Inc.  
Waste Management, Inc.

Core-Mark Holding  
Company, Inc.  
Costco Wholesale  
Corporation  
Cracker Barrel Old Country  
Store, Inc.  
CrossAmerica Partners LP  
CVS Health Corporation  
Darden Restaurants, Inc.  
Del Frisco's Restaurant  
Group, Inc.  
Denny's Corporation

### SIC 5

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1-800-FLOWERS.COM, Inc.  
AAR Corp.

## Appendix A: Companies (Main Set) in Each Industry, by SIC Code

Destination Maternity Corporation  
 Dick's Sporting Goods, Inc.  
 Dillard's, Inc.  
 Dollar General Corporation  
 Dollar Tree, Inc.  
 Dunkin' Brands Group, Inc.  
 DXP Enterprises, Inc.  
 Educational Development Corporation  
 EnviroStar, Inc.  
 ePlus inc.  
 Express Scripts Holding Company  
 Express, Inc.  
 EZCORP, Inc.  
 Famous Dave's of America, Inc.  
 Fastenal Company  
 Fiesta Restaurant Group, Inc.  
 FirstCash, Inc.  
 Five Below, Inc.  
 Flanigan's Enterprises, Inc.  
 Foot Locker, Inc.  
 Francesca's Holdings Corporation  
 GameStop Corp.  
 Genesis Energy, L.P.  
 Genuine Parts Company  
 Global Partners LP  
 Group 1 Automotive, Inc.  
 H&E Equipment Services, Inc.  
 Haverly Furniture Companies, Inc.  
 Henry Schein, Inc.  
 Hibbett Sports, Inc.  
 Houston Wire & Cable Company  
 Huttig Building Products, Inc.  
 Ingles Markets, Incorporated  
 InnerWorkings, Inc.  
 Insight Enterprises, Inc.  
 Jack in the Box Inc.  
 Kirkland's, Inc.  
 Kohl's Corporation  
 L Brands, Inc.  
 Lawson Products, Inc.  
 Lithia Motors, Inc.  
 LKQ Corporation  
 Lowe's Companies, Inc.  
 Macy's, Inc.  
 MarineMax, Inc.  
 Martin Midstream Partners L.P.  
 McDonald's Corporation  
 McKesson Corporation  
 MSC Industrial Direct Co., Inc.

Natural Grocers by Vitamin Cottage, Inc.  
 Natural Health Trends Corp.  
 Newpark Resources, Inc.  
 NGL Energy Partners LP  
 Nordstrom, Inc.  
 Nutrisystem, Inc.  
 Office Depot, Inc.  
 O'Reilly Automotive, Inc.  
 Owens & Minor, Inc.  
 Patterson Companies, Inc.  
 PC Connection, Inc.  
 PCM, Inc.  
 Penske Automotive Group, Inc.  
 PetMed Express, Inc.  
 Pier 1 Imports, Inc.  
 Plains All American Pipeline, L.P.  
 Pool Corporation  
 Prestige Brands Holdings, Inc.  
 PriceSmart, Inc.  
 QVC Group  
 RCI Hospitality Holdings, Inc.  
 Red Robin Gourmet Burgers, Inc.  
 Reliance Steel & Aluminum Co.  
 RH  
 Ross Stores, Inc.  
 Rush Enterprises, Inc.  
 Ruth's Hospitality Group, Inc.  
 ScanSource, Inc.  
 SemGroup Corporation  
 Shoe Carnival, Inc.  
 Sonic Automotive, Inc.  
 Sonic Corp.  
 SpartanNash Company  
 Star Group, L.P.  
 Starbucks Corporation  
 Stein Mart, Inc.  
 Suburban Propane Partners, L.P.  
 Sunoco LP  
 SUPERVALU Inc.  
 SYNnex Corporation  
 Sysco Corporation  
 Target Corporation  
 Tech Data Corporation  
 TESSCO Technologies Incorporated  
 Texas Roadhouse, Inc.  
 The Andersons, Inc.  
 The Cato Corporation  
 The Cheesecake Factory Incorporated  
 The Chefs' Warehouse, Inc.  
 The Children's Place, Inc.  
 The Finish Line, Inc.

The Gap, Inc.  
 The Home Depot, Inc.  
 The Kroger Co.  
 The TJX Companies, Inc.  
 The Wendy's Company  
 Tiffany & Co.  
 Tile Shop Holdings, Inc.  
 Tilly's, Inc.  
 Tractor Supply Company  
 Trans World Entertainment Corporation  
 TravelCenters of America LLC  
 Ulta Beauty, Inc.  
 United Natural Foods, Inc.  
 Universal Corporation  
 Village Super Market, Inc.  
 W.W. Grainger, Inc.  
 Walgreens Boots Alliance, Inc.  
 Walmart Inc.  
 Watsco, Inc.  
 Weis Markets, Inc.  
 WESCO International, Inc.  
 Weyco Group, Inc.  
 Williams-Sonoma, Inc.  
 World Fuel Services Corporation  
 YUM! Brands, Inc.  
 Zumiez Inc.

### SIC 50

AAR Corp.  
 ADDvantage Technologies Group, Inc.  
 Anixter International Inc.  
 Applied Industrial Technologies, Inc.  
 Arrow Electronics, Inc.  
 Avnet, Inc.  
 Beacon Roofing Supply, Inc.  
 Boise Cascade Company  
 BSQUARE Corporation  
 China Auto Logistics Inc.  
 Copart, Inc.  
 DXP Enterprises, Inc.  
 EnviroStar, Inc.  
 ePlus inc.  
 Fastenal Company  
 Genuine Parts Company  
 H&E Equipment Services, Inc.  
 Henry Schein, Inc.  
 Houston Wire & Cable Company  
 Huttig Building Products, Inc.  
 Insight Enterprises, Inc.  
 Lawson Products, Inc.  
 LKQ Corporation  
 MSC Industrial Direct Co., Inc.  
 Owens & Minor, Inc.



## Appendix A: Companies (Main Set) in Each Industry, by SIC Code

Patterson Companies, Inc.  
Pool Corporation  
Reliance Steel & Aluminum Co.  
ScanSource, Inc.  
SYNNEX Corporation  
Tech Data Corporation  
TESSCO Technologies Incorporated  
W.W. Grainger, Inc.  
Watsco, Inc.  
WESCO International, Inc.

Central Garden & Pet Company  
Coffee Holding Co., Inc.  
Core-Mark Holding Company, Inc.  
CrossAmerica Partners LP  
Educational Development Corporation  
Genesis Energy, L.P.  
Global Partners LP  
InnerWorkings, Inc.  
Martin Midstream Partners L.P.  
McKesson Corporation  
Natural Health Trends Corp.  
Newpark Resources, Inc.  
Plains All American Pipeline, L.P.  
Prestige Brands Holdings, Inc.  
SemGroup Corporation  
SpartanNash Company  
Sunoco LP  
Sysco Corporation  
The Andersons, Inc.  
The Chefs' Warehouse, Inc.  
United Natural Foods, Inc.  
Universal Corporation  
Weyco Group, Inc.  
World Fuel Services Corporation

### SIC 5172

Adams Resources & Energy, Inc.  
CrossAmerica Partners LP  
Genesis Energy, L.P.  
Martin Midstream Partners L.P.  
Sunoco LP  
World Fuel Services Corporation

### SIC 504

BSQUARE Corporation  
ePlus inc.  
Henry Schein, Inc.  
Insight Enterprises, Inc.  
Owens & Minor, Inc.  
Patterson Companies, Inc.  
SYNNEX Corporation  
Tech Data Corporation

### SIC 5045

BSQUARE Corporation  
ePlus inc.  
Insight Enterprises, Inc.  
SYNNEX Corporation  
Tech Data Corporation

### SIC 506

ADDvantage Technologies Group, Inc.  
Anixter International Inc.  
Avnet, Inc.  
Houston Wire & Cable Company  
TESSCO Technologies Incorporated  
WESCO International, Inc.

### SIC 508

AAR Corp.  
Applied Industrial Technologies, Inc.  
DXP Enterprises, Inc.  
EnviroStar, Inc.  
H&E Equipment Services, Inc.  
MSC Industrial Direct Co., Inc.

### SIC 51

Aceto Corporation  
Adams Resources & Energy, Inc.  
AMCON Distributing Company  
AmerisourceBergen Corporation  
Cardinal Health, Inc.

### SIC 512

AmerisourceBergen Corporation  
Cardinal Health, Inc.  
McKesson Corporation  
Natural Health Trends Corp.  
Prestige Brands Holdings, Inc.

### SIC 514

Coffee Holding Co., Inc.  
SpartanNash Company  
Sysco Corporation  
The Chefs' Warehouse, Inc.  
United Natural Foods, Inc.

### SIC 517

Adams Resources & Energy, Inc.  
CrossAmerica Partners LP  
Genesis Energy, L.P.  
Global Partners LP  
Martin Midstream Partners L.P.  
Plains All American Pipeline, L.P.  
SemGroup Corporation  
Sunoco LP  
World Fuel Services Corporation

### SIC 53

Big Lots, Inc.  
Costco Wholesale Corporation  
Dillard's, Inc.  
Dollar General Corporation  
Dollar Tree, Inc.  
Five Below, Inc.  
Kohl's Corporation  
Macy's, Inc.  
PriceSmart, Inc.  
Target Corporation  
Walmart Inc.

### SIC 533

Big Lots, Inc.  
Dollar General Corporation  
Dollar Tree, Inc.  
Five Below, Inc.  
PriceSmart, Inc.  
Target Corporation  
Walmart Inc.

### SIC 54

Casey's General Stores, Inc.  
Ingles Markets, Incorporated  
Natural Grocers by Vitamin Cottage, Inc.  
The Kroger Co.  
Village Super Market, Inc.  
Weis Markets, Inc.

### SIC 541

Casey's General Stores, Inc.  
Ingles Markets, Incorporated  
The Kroger Co.  
Village Super Market, Inc.  
Weis Markets, Inc.

### SIC 55

Advance Auto Parts, Inc.  
Asbury Automotive Group, Inc.  
AutoNation, Inc.  
CarMax Inc.  
Group 1 Automotive, Inc.  
Lithia Motors, Inc.  
MarineMax, Inc.

## Appendix A: Companies (Main Set) in Each Industry, by SIC Code

O'Reilly Automotive, Inc.  
Penske Automotive Group, Inc.  
Rush Enterprises, Inc.  
Sonic Automotive, Inc.  
TravelCenters of America LLC

### SIC 56

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American Eagle Outfitters, Inc.  
Chico's FAS, Inc.  
Citi Trends, Inc.  
Destination Maternity Corporation  
Express, Inc.  
Foot Locker, Inc.  
Francesca's Holdings Corporation  
Nordstrom, Inc.  
Ross Stores, Inc.  
Shoe Carnival, Inc.  
Stein Mart, Inc.  
The Cato Corporation  
The Children's Place, Inc.  
The Finish Line, Inc.  
The Gap, Inc.  
The TJX Companies, Inc.  
Tilly's, Inc.  
Zumiez Inc.

### SIC 565

---

Citi Trends, Inc.  
Nordstrom, Inc.  
Ross Stores, Inc.  
Stein Mart, Inc.  
The Gap, Inc.  
The TJX Companies, Inc.  
Zumiez Inc.

### SIC 57

---

Bed Bath & Beyond Inc.  
Best Buy Co., Inc.  
Conn's, Inc.  
GameStop Corp.  
Haverty Furniture Companies, Inc.  
Pier 1 Imports, Inc.  
RH  
Tile Shop Holdings, Inc.  
Trans World Entertainment Corporation  
Williams-Sonoma, Inc.

### SIC 58

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Ark Restaurants Corp.  
Biglari Holdings Inc.  
BJ's Restaurants, Inc.  
Bloomin' Brands, Inc.  
Brinker International, Inc.  
Chipotle Mexican Grill, Inc.  
Chuy's Holdings, Inc.

Cracker Barrel Old Country Store, Inc.  
Darden Restaurants, Inc.  
Del Frisco's Restaurant Group, Inc.  
Denny's Corporation  
Dunkin' Brands Group, Inc.  
Famous Dave's of America, Inc.  
Fiesta Restaurant Group, Inc.  
Flanigan's Enterprises, Inc.  
Jack in the Box Inc.  
McDonald's Corporation  
RCI Hospitality Holdings, Inc.  
Red Robin Gourmet Burgers, Inc.  
Ruth's Hospitality Group, Inc.  
Sonic Corp.  
Starbucks Corporation  
Texas Roadhouse, Inc.  
The Cheesecake Factory Incorporated  
The Wendy's Company  
YUM! Brands, Inc.

### SIC 5812

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Ark Restaurants Corp.  
Biglari Holdings Inc.  
BJ's Restaurants, Inc.  
Bloomin' Brands, Inc.  
Brinker International, Inc.  
Chipotle Mexican Grill, Inc.  
Chuy's Holdings, Inc.  
Cracker Barrel Old Country Store, Inc.  
Darden Restaurants, Inc.  
Del Frisco's Restaurant Group, Inc.  
Denny's Corporation  
Dunkin' Brands Group, Inc.  
Famous Dave's of America, Inc.  
Fiesta Restaurant Group, Inc.  
Flanigan's Enterprises, Inc.  
Jack in the Box Inc.  
McDonald's Corporation  
Red Robin Gourmet Burgers, Inc.  
Ruth's Hospitality Group, Inc.  
Sonic Corp.  
Starbucks Corporation  
Texas Roadhouse, Inc.  
The Cheesecake Factory Incorporated  
The Wendy's Company  
YUM! Brands, Inc.

### SIC 59

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1-800-FLOWERS.COM, Inc.  
Amazon.com, Inc.  
AmeriGas Partners, L.P.  
Big 5 Sporting Goods Corporation  
Build-A-Bear Workshop, Inc.  
CVS Health Corporation  
Dick's Sporting Goods, Inc.  
Express Scripts Holding Company  
EZCORP, Inc.  
FirstCash, Inc.  
Hibbett Sports, Inc.  
Kirkland's, Inc.  
NGL Energy Partners LP  
Nutrisystem, Inc.  
Office Depot, Inc.  
PC Connection, Inc.  
PCM, Inc.  
PetMed Express, Inc.  
QVC Group  
Star Group, L.P.  
Suburban Propane Partners, L.P.  
Tiffany & Co.  
Ulta Beauty, Inc.  
Walgreens Boots Alliance, Inc.

### SIC 594

---

Big 5 Sporting Goods Corporation  
Build-A-Bear Workshop, Inc.  
Dick's Sporting Goods, Inc.  
Hibbett Sports, Inc.  
Tiffany & Co.

### SIC 596

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1-800-FLOWERS.COM, Inc.  
Amazon.com, Inc.  
Nutrisystem, Inc.  
PC Connection, Inc.  
PCM, Inc.  
QVC Group

### SIC 6

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1st Constitution Bancorp  
1st Source Corporation  
Acadia Realty Trust  
Access National Corporation  
ACNB Corporation  
Aetna Inc.  
Affiliated Managers Group, Inc.  
Aflac Incorporated  
Agree Realty Corporation  
AirXpanders, Inc.  
Alexander's, Inc.  
Alexandria Real Estate Equities, Inc.

Appendix A: Companies (Main Set) in Each Industry, by SIC Code

Alleghany Corporation	BancFirst Corporation	Cathay General Bancorp
AllianceBernstein Holding L.P.	Bancorp Of New Jersey, Inc.	CB Financial Services, Inc.
AMB Financial Corp	BancorpSouth Bank	Cboe Global Markets, Inc.
America First Multifamily Investors, L.P.	Bank of America Corporation	CBRE Group, Inc.
American Assets Trust, Inc.	Bank of Commerce Holdings	Centene Corporation
American Campus Communities, Inc.	Bank of Hawaii Corporation	CenterState Bank Corporation
American Equity Investment Life Holding Company	Bank of Marin Bancorp	Central Federal Corporation
American Financial Group, Inc.	Bank of South Carolina Corporation	Central Pacific Financial Corp.
American International Group, Inc.	Bank of the James Financial Group, Inc.	Central Valley Community Bancorp
American National Bankshares Inc.	Bank of the Ozarks	Century Bancorp, Inc.
American National Insurance Company	BankFinancial Corporation	CEVA, Inc.
American River Bankshares	BankUnited, Inc.	Charter Financial Corporation
American Tower Corporation (REIT)	Bankwell Financial Group, Inc.	Chatham Lodging Trust
Ameriprise Financial, Inc.	Banner Corporation	Chemical Financial Corporation
Ameris Bancorp	Bar Harbor Bankshares	Chemung Financial Corporation
Amerisafe, Inc.	Bay Bancorp, Inc.	Cherokee Inc.
AmeriServ Financial, Inc.	BB&T Corporation	Chesapeake Lodging Trust
Ames National Corporation	BBX Capital Corporation	China HGS Real Estate Inc.
AmTrust Financial Services, Inc.	BCB Bancorp, Inc.	Cigna Corporation
Anchor Bancorp	Bear State Financial, Inc.	Cincinnati Financial Corporation
Annaly Capital Management, Inc.	Beneficial Bancorp, Inc.	CIT Group Inc.
Anthem, Inc.	Berkshire Hills Bancorp, Inc.	Citigroup Inc.
Anworth Mortgage Asset Corporation	BGC Partners, Inc.	Citizens & Northern Corporation
Apartment Investment and Management Company	BlackRock Capital Investment Corporation	Citizens Community Bancorp, Inc.
Apollo Commercial Real Estate Finance, Inc.	BlackRock, Inc.	Citizens Financial Services Inc.
Apollo Global Management, LLC	Blackstone Mortgage Trust, Inc.	Citizens First Corporation
Apollo Investment Corporation	Bofl Holding, Inc.	Citizens Holding Company
Arbor Realty Trust, Inc.	BOK Financial Corporation	Citizens, Inc.
Ares Capital Corporation	Boston Private Financial Holdings, Inc.	City Holding Company
Ares Commercial Real Estate Corporation	Boston Properties, Inc.	Civista Bancshares, Inc.
Arrow Financial Corporation	BP Prudhoe Bay Royalty Trust	Clifton Bancorp Inc.
Arthur J. Gallagher & Co.	Brandywine Realty Trust	CME Group Inc.
Artisan Partners Asset Management Inc.	Bridge Bancorp, Inc.	CNA Financial Corporation
Associated Banc-Corp	Broadway Financial Corporation	CNB Financial Corporation
Assurant, Inc.	Brookline Bancorp, Inc.	CNO Financial Group, Inc.
Atlantic American Corporation	Brown & Brown, Inc.	CoBiz Financial Inc.
Atlantic Coast Financial Corporation	Bryn Mawr Bank Corporation	Codorus Valley Bancorp, Inc.
Auburn National Bancorporation, Inc.	BSB Bancorp, Inc.	Cohen & Steers, Inc.
AvalonBay Communities, Inc.	C&F Financial Corporation	Colony Bankcorp, Inc.
Baldwin & Lyons, Inc.	Cambridge Bancorp	Colony NorthStar, Inc.
Banc of California, Inc.	Camden National Corporation	Columbia Banking System, Inc.
	Camden Property Trust	Comerica Incorporated
	Capital City Bank Group, Inc.	Commerce Bancshares, Inc.
	Capital One Financial Corporation	Community Bank System, Inc.
	Capital Southwest Corporation	Community Bankers Trust Corporation
	Capitol Federal Financial, Inc.	Community Trust Bancorp, Inc.
	Carolina Trust BancShares, Inc.	Community West Bancshares
		ConnectOne Bancorp, Inc.

## Appendix A: Companies (Main Set) in Each Industry, by SIC Code

Consolidated-Tomoka Land Co.	Equity Residential	First Horizon National Corporation
CoreCivic, Inc.	Erie Indemnity Company	First Industrial Realty Trust, Inc.
CorEnergy Infrastructure Trust, Inc.	ESSA Bancorp, Inc.	First Internet Bancorp
CoreSite Realty Corporation	Essex Property Trust, Inc.	First Interstate BancSystem, Inc.
Corporate Office Properties Trust	Euronet Worldwide, Inc.	First Keystone Corp.
CorVel Corporation	Evans Bancorp, Inc.	First Merchants Corporation
Cousins Properties Incorporated	Evercore Inc.	First Mid-Illinois Bancshares, Inc.
Cowen Inc.	Extra Space Storage Inc.	First Midwest Bancorp, Inc.
Crawford & Company	F.N.B. Corporation	First Republic Bank
Credit Acceptance Corporation	Farmers & Merchants Bancorp, Inc.	First Savings Financial Group, Inc.
Cross Timbers Royalty Trust	Farmers Capital Bank Corporation	First United Corporation
Crown Castle International Corp. (REIT)	Farmers National Banc Corp.	First US Bancshares, Inc.
CSB Bancorp Inc.	Fauquier Bankshares, Inc.	Flagstar Bancorp, Inc.
CubeSmart	FBL Financial Group, Inc.	Flushing Financial Corporation
Cullen/Frost Bankers, Inc.	Federal Agricultural Mortgage Corporation	FNB Bancorp
Customers Bancorp, Inc.	Federal Realty Investment Trust	FNBH Bancorp Inc.
CVB Financial Corp.	Federated Investors, Inc.	FNCB Bancorp, Inc.
CYS Investments, Inc.	Federated National Holding Company	Forest City Realty Trust, Inc.
DCT Industrial Trust Inc.	Fidelity D & D Bancorp, Inc.	Franklin Financial Network, Inc.
Diamond Hill Investment Group, Inc.	Fidelity National Financial, Inc.	Franklin Resources, Inc.
DiamondRock Hospitality Company	Fidelity Southern Corporation	Franklin Street Properties Corp.
Digital Realty Trust, Inc.	Fidus Investment Corporation	FRP Holdings, Inc.
Dime Community Bancshares, Inc.	Fifth Third Bancorp	FS Bancorp, Inc.
Discover Financial Services	Financial Engines, Inc.	Fulton Financial Corporation
DNB Financial Corporation	Financial Institutions, Inc.	GAIN Capital Holdings, Inc.
Dolby Laboratories, Inc.	First American Financial Corporation	GAMCO Investors, Inc.
Donegal Group Inc.	First Bancorp	Garrison Capital Inc.
Dorchester Minerals, L.P.	First Bancorp Indiana Inc.	German American Bancorp, Inc.
Douglas Emmett, Inc.	First BanCorp.	Getty Realty Corp.
Duke Realty Corporation	First Bank	GGP Inc.
E*TRADE Financial Corporation	First Busey Corporation	Glacier Bancorp, Inc.
Eagle Bancorp Montana, Inc.	First Business Financial Services, Inc.	Gladstone Capital Corporation
Eagle Bancorp, Inc.	First Capital, Inc.	Gladstone Investment Corporation
East West Bancorp, Inc.	First Citizens BancShares, Inc.	Gladstone Land Corporation
EastGroup Properties, Inc.	First Commonwealth Financial Corporation	Glen Burnie Bancorp
Eaton Vance Corp.	First Community Bancshares, Inc.	Golub Capital BDC, Inc.
Education Realty Trust, Inc.	First Community Corporation	Gramercy Property Trust
Elmira Savings Bank	First Connecticut Bancorp, Inc.	Great Southern Bancorp, Inc.
EMC Insurance Group Inc.	First Defiance Financial Corp.	Greene County Bancorp, Inc.
Emclaire Financial Corp.	First Financial Bancorp.	Greenhill & Co., Inc.
Employers Holdings, Inc.	First Financial Bankshares, Inc.	Griffin Industrial Realty, Inc.
Encore Capital Group, Inc.	First Financial Corporation	Guaranty Bancorp
Enterprise Bancorp, Inc.	First Financial Northwest, Inc.	Guaranty Federal Bancshares, Inc.
Enterprise Financial Services Corp		Hallmark Financial Services, Inc.
EPR Properties		Hancock Holding Company
Equinix, Inc. (REIT)		Hanmi Financial Corporation
Equity Commonwealth		
Equity LifeStyle Properties, Inc.		

## Appendix A: Companies (Main Set) in Each Industry, by SIC Code

Hannon Armstrong Sustainable Infrastructure Capital, Inc.	Independent Bank Corporation	M&T Bank Corporation
Hawthorn Bancshares, Inc.	Independent Bank Group, Inc.	Macatawa Bank Corporation
HCI Group, Inc.	Infinity Property and Casualty Corporation	Macerich Company
HCP, Inc.	Interactive Brokers Group, Inc.	Mackinac Financial Corporation
Health Insurance Innovations, Inc.	Intercontinental Exchange, Inc.	Magyar Bancorp, Inc.
Healthcare Realty Trust Incorporated	InterDigital, Inc.	Main Street Capital Corporation
Healthcare Trust of America, Inc.	International Bancshares Corporation	MainSource Financial Group, Inc.
Heartland Financial USA, Inc.	INTL FCStone Inc.	Malvern Bancorp, Inc.
Hennessy Advisors, Inc.	Invesco Mortgage Capital Inc.	Manhattan Bridge Capital, Inc.
Hercules Capital, Inc.	Investment Technology Group, Inc.	Manning & Napier, Inc.
Heritage Commerce Corp	Investors Bancorp, Inc.	Markel Corporation
Heritage Financial Corporation	Investors Title Company	MarketAxess Holdings Inc.
Hersha Hospitality Trust	Iron Mountain Incorporated	Marlin Business Services Corp.
HFF, Inc.	J.W. Mays, Inc.	Marsh & McLennan Companies, Inc.
Highwoods Properties, Inc.	Jacksonville Bancorp, Inc.	Mastercard Incorporated
Hilltop Holdings Inc.	Jones Lang LaSalle Incorporated	Maui Land & Pineapple Company, Inc.
Hingham Institution for Savings	JPMorgan Chase & Co.	MB Financial, Inc.
HMN Financial, Inc.	Juniata Valley Financial Corp.	MBT Financial Corp.
HMS Holdings Corp.	Kayne Anderson Energy Development Company	Medallion Financial Corp.
Home Bancorp, Inc.	KCAP Financial, Inc.	Medical Properties Trust, Inc.
Home Bancshares, Inc. (Conway, AR)	Kearny Financial Corp.	Medley Capital Corporation
Home Federal Bancorp, Inc. of Louisiana	Kemper Corporation	Mercantile Bank Corporation
Home Loan Financial Corp.	Kennedy-Wilson Holdings, Inc.	Mercury General Corporation
HomeStreet, Inc.	Kentucky First Federal Bancorp	Meridian Bancorp, Inc.
HomeTrust Bancshares, Inc.	KeyCorp	Mesa Royalty Trust
Hope Bancorp, Inc.	Kilroy Realty Corporation	Mesabi Trust
HopFed Bancorp, Inc.	Kimco Realty Corporation	Meta Financial Group, Inc.
Horace Mann Educators Corporation	Kingstone Companies, Inc.	MetLife, Inc.
Horizon Bancorp	Kite Realty Group Trust	MFA Financial, Inc.
Horizon Technology Finance Corporation	KKR & Co. L.P.	MGIC Investment Corporation
Hospitality Properties Trust	KS Bancorp Inc.	Mid Penn Bancorp, Inc.
Host Hotels & Resorts, Inc.	Lake Shore Bancorp, Inc.	Mid-America Apartment Communities, Inc.
Howard Bancorp, Inc.	Lakeland Bancorp, Inc.	Middlefield Banc Corp.
Hudson Pacific Properties, Inc.	Lakeland Financial Corporation	MidSouth Bancorp, Inc.
Hugoton Royalty Trust	Lamar Advertising Company (REIT)	MidWestOne Financial Group, Inc.
Humana Inc.	Landmark Bancorp, Inc.	Monmouth Real Estate Investment Corporation
Huntington Bancshares Incorporated	LaSalle Hotel Properties	Monroe Capital Corporation
IBERIABANK Corporation	LCNB Corp.	Morgan Stanley
IF Bancorp, Inc.	LegacyTexas Financial Group, Inc.	MSB Financial Corp.
ILG, Inc.	Legg Mason, Inc.	MSCI Inc.
Impac Mortgage Holdings, Inc.	LendingTree, Inc.	MutualFirst Financial, Inc.
Income Opportunity Realty Investors, Inc.	Lexington Realty Trust	MVB Financial Corp.
Independence Holding Company	Liberty Property Trust	MVC Capital, Inc.
Independent Bank Corp.	Life Storage, Inc.	National Bank Holdings Corporation
	Lincoln National Corporation	National Bankshares, Inc.
	LPL Financial Holdings Inc.	National Health Investors, Inc.
	LTC Properties, Inc.	

## Appendix A: Companies (Main Set) in Each Industry, by SIC Code

National Holdings Corporation	Peapack-Gladstone Financial Corporation	Regional Management Corp.
National Retail Properties, Inc.	Pebblebrook Hotel Trust	Regions Financial Corporation
National Western Life Group, Inc.	PennantPark Floating Rate Capital Ltd.	Reinsurance Group of America, Incorporated
Nationstar Mortgage Holdings Inc.	PennantPark Investment Corporation	Renasant Corporation
NBT Bancorp Inc.	Penns Woods Bancorp, Inc.	Republic Bancorp, Inc.
Nelnet, Inc.	PennyMac Mortgage Investment Trust	Republic First Bancorp, Inc.
Network-1 Technologies, Inc.	Peoples Bancorp Inc.	Retail Opportunity Investments Corp.
New Mountain Finance Corporation	Peoples Bancorp of North Carolina, Inc.	Retail Properties of America, Inc.
New York Community Bancorp, Inc.	Peoples Financial Services Corp.	Riverview Bancorp, Inc.
Newtek Business Services Corp.	People's United Financial, Inc.	RLI Corp.
North European Oil Royalty Trust	Permian Basin Royalty Trust	RLJ Lodging Trust
Northeast Bancorp	Piedmont Office Realty Trust, Inc.	Royal Gold, Inc.
Northern Trust Corporation	Pinnacle Financial Partners, Inc.	RPX Corporation
Northfield Bancorp, Inc. (Staten Island, NY)	Piper Jaffray Companies	Ryman Hospitality Properties, Inc.
Northrim BanCorp, Inc.	Plumas Bancorp	S&T Bancorp, Inc.
Northwest Bancshares, Inc.	Poage Bankshares, Inc.	Sabine Royalty Trust
Northwest Indiana Bancorp	Popular, Inc.	Sabra Health Care REIT, Inc.
Norwood Financial Corp.	PRA Group, Inc.	Safety Insurance Group, Inc.
Oak Valley Bancorp	Preferred Bank	Salisbury Bancorp, Inc.
Oaktree Capital Group, LLC	Premier Financial Bancorp, Inc.	San Juan Basin Royalty Trust
OceanFirst Financial Corp.	Primerica, Inc.	Sandy Spring Bancorp, Inc.
Oconee Federal Financial Corp.	Principal Financial Group, Inc.	Saratoga Investment Corp.
OFG Bancorp	ProAssurance Corporation	Saul Centers, Inc.
OFS Capital Corporation	Prologis, Inc.	SB Financial Group, Inc.
Ohio Valley Banc Corp.	Prospect Capital Corporation	Seacoast Banking Corporation of Florida
Old Line Bancshares, Inc.	Prosperity Bancshares, Inc.	Security National Financial Corporation
Old National Bancorp	Provident Financial Holdings, Inc.	SEI Investments Co.
Old Point Financial Corporation	Provident Financial Services, Inc.	Select Bancorp, Inc.
Old Republic International Corporation	Prudential Bancorp, Inc.	Select Income REIT
Old Second Bancorp, Inc.	Prudential Financial, Inc.	Selective Insurance Group, Inc.
Omega Healthcare Investors, Inc.	PS Business Parks, Inc.	Senior Housing Properties Trust
One Liberty Properties, Inc.	Public Storage	Shore Bancshares, Inc.
Oppenheimer Holdings Inc.	Pzena Investment Management, Inc	SI Financial Group, Inc.
Oritani Financial Corp.	QCR Holdings, Inc.	Sierra Bancorp
Orrstown Financial Services, Inc.	Radian Group Inc.	Signature Bank
Ottawa Bancorp, Inc.	Rambus Inc.	Simmons First National Corporation
Oxford Lane Capital Corp.	Ramco-Gershenson Properties Trust	Simon Property Group, Inc.
Oxford Square Capital Corp.	Rand Capital Corporation	SL Green Realty Corp.
Pacific Premier Bancorp, Inc.	Raymond James Financial, Inc.	Solar Capital Ltd.
PacWest Bancorp	Rayonier Inc.	Solar Senior Capital Ltd.
Park National Corporation	Realty Holdings Corp.	Sound Financial Bancorp, Inc.
Parke Bancorp, Inc.	Realty Income Corporation	South State Corporation
Pathfinder Bancorp, Inc.	Redwood Trust, Inc.	Southern First Bancshares, Inc.
Patriot National Bancorp, Inc.	Regency Centers Corporation	Southern Missouri Bancorp, Inc.
Payment Data Systems, Inc.		Southern National Bancorp of Virginia, Inc.
PB Bancorp, Inc.		Southside Bancshares, Inc.

## Appendix A: Companies (Main Set) in Each Industry, by SIC Code

Southwest Georgia Financial Corporation	The Hartford Financial Services Group, Inc.	Ventas, Inc.
Spirit Realty Capital, Inc.	The Howard Hughes Corporation	Verisk Analytics, Inc.
Starwood Property Trust, Inc.	The National Security Group, Inc.	Virtus Investment Partners, Inc.
State Auto Financial Corporation	The Navigators Group, Inc.	Visa Inc.
State Bank Financial Corporation	The PNC Financial Services Group, Inc.	Vornado Realty Trust
State Street Corporation	The Progressive Corporation	W. P. Carey Inc.
Sterling Bancorp	The Travelers Companies, Inc.	W. R. Berkley Corporation
Stewardship Financial Corporation	The Western Union Company	Waddell & Reed Financial, Inc.
Stewart Information Services Corporation	THL Credit, Inc.	WageWorks, Inc.
Stifel Financial Corp.	Timberland Bancorp, Inc.	Walker & Dunlop, Inc.
Stock Yards Bancorp, Inc.	Tompkins Financial Corporation	Washington Federal, Inc.
Stratus Properties Inc.	Torchmark Corporation	Washington Real Estate Investment Trust
Summit Financial Group, Inc.	TowneBank	Washington Trust Bancorp, Inc.
Summit Hotel Properties, Inc.	Triangle Capital Corporation	Waterstone Financial, Inc.
Summit State Bank	TriCo Bancshares	Webster Financial Corporation
Sun Communities, Inc.	TrustCo Bank Corp NY	Weingarten Realty Investors
Sunstone Hotel Investors, Inc.	Trustmark Corporation	WellCare Health Plans, Inc.
SunTrust Banks, Inc.	Two River Bancorp	Wellesley Bancorp, Inc.
Sussex Bancorp	U.S. Bancorp	Wells Fargo & Company
SVB Financial Group	UDR, Inc.	Welltower Inc.
Synovus Financial Corp.	UMB Financial Corporation	WesBanco, Inc.
T. Rowe Price Group, Inc.	Umpqua Holdings Corporation	West Bancorporation, Inc.
Tanger Factory Outlet Centers, Inc.	Unico American Corporation	Westamerica Bancorporation
Taubman Centers, Inc.	Union Bankshares Corporation	Western Alliance Bancorporation
TC PipeLines, LP	Union Bankshares, Inc.	Western New England Bancorp, Inc.
TCF Financial Corporation	United Bancorp, Inc.	Westwood Holdings Group, Inc.
TCP Capital Corp.	United Bancshares, Inc.	WhiteHorse Finance, Inc.
TD Ameritrade Holding Corporation	United Bankshares, Inc.	Whitestone REIT
Terreno Realty Corporation	United Community Bancorp	Winmark Corporation
Territorial Bancorp Inc.	United Community Banks, Inc.	Wintrust Financial Corporation
Texas Capital Bancshares, Inc.	United Community Financial Corp.	WisdomTree Investments, Inc.
Texas Pacific Land Trust	United Financial Bancorp, Inc.	WMIH Corp.
TFS Financial Corp	United Fire Group, Inc.	World Acceptance Corporation
The Allstate Corporation	United Insurance Holdings Corp.	WSFS Financial Corporation
The Bank of New York Mellon Corporation	United Security Bancshares	WVS Financial Corp.
The Blackstone Group L.P.	UnitedHealth Group Incorporated	Wyndham Worldwide Corporation
The Carlyle Group L.P.	Unity Bancorp, Inc.	Xcel Brands, Inc.
The Charles Schwab Corporation	Universal Health Realty Income Trust	Zions Bancorporation
The Community Financial Corporation	Universal Insurance Holdings, Inc.	
The First Bancorp, Inc.	Univest Corporation of Pennsylvania	<b>SIC 60</b>
The First Bancshares, Inc.	Unum Group	1st Constitution Bancorp
The First of Long Island Corporation	Urstadt Biddle Properties Inc.	1st Source Corporation
The Goldman Sachs Group, Inc.	Valley National Bancorp	Access National Corporation
The Hanover Insurance Group, Inc.	Vector Group Ltd.	ACNB Corporation
		AMB Financial Corp
		American National Bankshares Inc.
		American River Bankshares
		Ameris Bancorp

Appendix A: Companies (Main Set) in Each Industry, by SIC Code

AmeriServ Financial, Inc.	Corp.	Farmers National Banc Corp.
Ames National Corporation	Central Valley Community Bancorp	Fauquier Bankshares, Inc.
Anchor Bancorp	Century Bancorp, Inc.	Fidelity D & D Bancorp, Inc.
Arrow Financial Corporation	Charter Financial Corporation	Fidelity Southern Corporation
Associated Banc-Corp	Chemical Financial Corporation	Fifth Third Bancorp
Atlantic Coast Financial Corporation	Chemung Financial Corporation	Financial Institutions, Inc.
Auburn National Bancorporation, Inc.	Citizens & Northern Corporation	First Bancorp
Banc of California, Inc.	Citizens Community Bancorp, Inc.	First Bancorp Indiana Inc.
BancFirst Corporation	Citizens Financial Services Inc.	First BanCorp.
Bancorp Of New Jersey, Inc.	Citizens First Corporation	First Bank
BancorpSouth Bank	Citizens Holding Company	First Busey Corporation
Bank of America Corporation	City Holding Company	First Business Financial Services, Inc.
Bank of Commerce Holdings	Civista Bancshares, Inc.	First Capital, Inc.
Bank of Hawaii Corporation	Clifton Bancorp Inc.	First Citizens BancShares, Inc.
Bank of Marin Bancorp	CNB Financial Corporation	First Commonwealth Financial Corporation
Bank of South Carolina Corporation	CoBiz Financial Inc.	First Community Bancshares, Inc.
Bank of the James Financial Group, Inc.	Codorus Valley Bancorp, Inc.	First Community Corporation
Bank of the Ozarks	Colony Bankcorp, Inc.	First Connecticut Bancorp, Inc.
BankFinancial Corporation	Columbia Banking System, Inc.	First Defiance Financial Corp.
BankUnited, Inc.	Comerica Incorporated	First Financial Bancorp.
Bankwell Financial Group, Inc.	Commerce Bancshares, Inc.	First Financial Bankshares, Inc.
Banner Corporation	Community Bank System, Inc.	First Financial Corporation
Bar Harbor Bankshares	Community Bankers Trust Corporation	First Financial Northwest, Inc.
Bay Bancorp, Inc.	Community Trust Bancorp, Inc.	First Horizon National Corporation
BB&T Corporation	Community West Bancshares	First Internet Bancorp
BBX Capital Corporation	ConnectOne Bancorp, Inc.	First Interstate BancSystem, Inc.
BCB Bancorp, Inc.	CSB Bancorp Inc.	First Keystone Corp.
Bear State Financial, Inc.	Cullen/Frost Bankers, Inc.	First Merchants Corporation
Beneficial Bancorp, Inc.	Customers Bancorp, Inc.	First Mid-Illinois Bancshares, Inc.
Berkshire Hills Bancorp, Inc.	CVB Financial Corp.	First Midwest Bancorp, Inc.
Bofl Holding, Inc.	Dime Community Bancshares, Inc.	First Republic Bank
BOK Financial Corporation	DNB Financial Corporation	First Savings Financial Group, Inc.
Boston Private Financial Holdings, Inc.	Eagle Bancorp Montana, Inc.	First United Corporation
Bridge Bancorp, Inc.	Eagle Bancorp, Inc.	First US Bancshares, Inc.
Broadway Financial Corporation	East West Bancorp, Inc.	Flagstar Bancorp, Inc.
Brookline Bancorp, Inc.	Elmira Savings Bank	Flushing Financial Corporation
Bryn Mawr Bank Corporation	Emclair Financial Corp.	FNB Bancorp
BSB Bancorp, Inc.	Enterprise Bancorp, Inc.	FNBH Bancorp Inc.
C&F Financial Corporation	Enterprise Financial Services Corp	FNCB Bancorp, Inc.
Cambridge Bancorp	ESSA Bancorp, Inc.	Franklin Financial Network, Inc.
Camden National Corporation	Euronet Worldwide, Inc.	FS Bancorp, Inc.
Capital City Bank Group, Inc.	Evans Bancorp, Inc.	Fulton Financial Corporation
Capitol Federal Financial, Inc.	F.N.B. Corporation	German American Bancorp, Inc.
Carolina Trust BancShares, Inc.	Farmers & Merchants Bancorp, Inc.	Glacier Bancorp, Inc.
Cathay General Bancorp	Farmers Capital Bank Corporation	Glen Burnie Bancorp
CB Financial Services, Inc.		
CenterState Bank Corporation		
Central Federal Corporation		
Central Pacific Financial		



## Appendix A: Companies (Main Set) in Each Industry, by SIC Code

Great Southern Bancorp, Inc.	Mackinac Financial Corporation	Peoples Bancorp Inc.
Greene County Bancorp, Inc.	Magyar Bancorp, Inc.	Peoples Bancorp of North Carolina, Inc.
Guaranty Bancorp	MainSource Financial Group, Inc.	Peoples Financial Services Corp.
Guaranty Federal Bancshares, Inc.	Malvern Bancorp, Inc.	People's United Financial, Inc.
Hancock Holding Company	Mastercard Incorporated	Pinnacle Financial Partners, Inc.
Hanmi Financial Corporation	MB Financial, Inc.	Plumas Bancorp
Hawthorn Bancshares, Inc.	MBT Financial Corp.	Poage Bankshares, Inc.
Heartland Financial USA, Inc.	Mercantile Bank Corporation	Popular, Inc.
Heritage Commerce Corp	Meridian Bancorp, Inc.	Preferred Bank
Heritage Financial Corporation	Meta Financial Group, Inc.	Premier Financial Bancorp, Inc.
Hingham Institution for Savings	Mid Penn Bancorp, Inc.	Prosperity Bancshares, Inc.
HMN Financial, Inc.	Middlefield Banc Corp.	Provident Financial Holdings, Inc.
Home Bancorp, Inc.	MidSouth Bancorp, Inc.	Provident Financial Services, Inc.
Home Bancshares, Inc. (Conway, AR)	MidWestOne Financial Group, Inc.	Prudential Bancorp, Inc.
Home Federal Bancorp, Inc. of Louisiana	MSB Financial Corp.	QCR Holdings, Inc.
Home Loan Financial Corp.	MutualFirst Financial, Inc.	Regions Financial Corporation
HomeStreet, Inc.	MVB Financial Corp.	Reasant Corporation
HomeTrust Bancshares, Inc.	National Bank Holdings Corporation	Republic Bancorp, Inc.
Hope Bancorp, Inc.	National Bankshares, Inc.	Republic First Bancorp, Inc.
HopFed Bancorp, Inc.	NBT Bancorp Inc.	Riverview Bancorp, Inc.
Horizon Bancorp	New York Community Bancorp, Inc.	S&T Bancorp, Inc.
Howard Bancorp, Inc.	Northeast Bancorp	Salisbury Bancorp, Inc.
Huntington Bancshares Incorporated	Northern Trust Corporation	Sandy Spring Bancorp, Inc.
IBERIABANK Corporation	Northfield Bancorp, Inc. (Staten Island, NY)	SB Financial Group, Inc.
IF Bancorp, Inc.	Northrim BanCorp, Inc.	Seacoast Banking Corporation of Florida
Independent Bank Corp.	Northwest Bancshares, Inc.	Select Bancorp, Inc.
Independent Bank Corporation	Northwest Indiana Bancorp	Shore Bancshares, Inc.
Independent Bank Group, Inc.	Norwood Financial Corp.	SI Financial Group, Inc.
International Bancshares Corporation	Oak Valley Bancorp	Sierra Bancorp
Investors Bancorp, Inc.	OceanFirst Financial Corp.	Signature Bank
Jacksonville Bancorp, Inc.	Oconee Federal Financial Corp.	Simmons First National Corporation
JPMorgan Chase & Co.	OFG Bancorp	Sound Financial Bancorp, Inc.
Juniata Valley Financial Corp.	Ohio Valley Banc Corp.	South State Corporation
Kearny Financial Corp.	Old Line Bancshares, Inc.	Southern First Bancshares, Inc.
Kentucky First Federal Bancorp	Old National Bancorp	Southern Missouri Bancorp, Inc.
KeyCorp	Old Point Financial Corporation	Southern National Bancorp of Virginia, Inc.
KS Bancorp Inc.	Old Second Bancorp, Inc.	Southside Bancshares, Inc.
Lake Shore Bancorp, Inc.	Oritani Financial Corp.	Southwest Georgia Financial Corporation
Lakeland Bancorp, Inc.	Orrstown Financial Services, Inc.	State Bank Financial Corporation
Lakeland Financial Corporation	Ottawa Bancorp, Inc.	State Street Corporation
Landmark Bancorp, Inc.	Pacific Premier Bancorp, Inc.	Sterling Bancorp
LCNB Corp.	PacWest Bancorp	Stewardship Financial Corporation
LegacyTexas Financial Group, Inc.	Park National Corporation	Stock Yards Bancorp, Inc.
M&T Bank Corporation	Parke Bancorp, Inc.	Summit Financial Group, Inc.
Macatawa Bank Corporation	Pathfinder Bancorp, Inc.	
	Patriot National Bancorp, Inc.	
	Payment Data Systems, Inc.	
	PB Bancorp, Inc.	
	Peapack-Gladstone Financial Corporation	
	Penns Woods Bancorp, Inc.	

Appendix A: Companies (Main Set) in Each Industry, by SIC Code

Summit State Bank  
 SunTrust Banks, Inc.  
 Sussex Bancorp  
 SVB Financial Group  
 Synovus Financial Corp.  
 TCF Financial Corporation  
 Territorial Bancorp Inc.  
 Texas Capital Bancshares, Inc.  
 TFS Financial Corp  
 The Bank of New York Mellon Corporation  
 The Community Financial Corporation  
 The First Bancorp, Inc.  
 The First Bancshares, Inc.  
 The First of Long Island Corporation  
 The PNC Financial Services Group, Inc.  
 The Western Union Company  
 Timberland Bancorp, Inc.  
 Tompkins Financial Corporation  
 TowneBank  
 TriCo Bancshares  
 TrustCo Bank Corp NY  
 Trustmark Corporation  
 Two River Bancorp  
 U.S. Bancorp  
 UMB Financial Corporation  
 Umpqua Holdings Corporation  
 Union Bankshares Corporation  
 Union Bankshares, Inc.  
 United Bancorp, Inc.  
 United Bancshares, Inc.  
 United Bankshares, Inc.  
 United Community Bancorp  
 United Community Banks, Inc.  
 United Community Financial Corp.  
 United Financial Bancorp, Inc.  
 United Security Bancshares  
 Unity Bancorp, Inc.  
 Univest Corporation of Pennsylvania  
 Valley National Bancorp  
 Visa Inc.  
 Washington Federal, Inc.  
 Washington Trust Bancorp, Inc.  
 Waterstone Financial, Inc.  
 Webster Financial Corporation  
 Wellesley Bancorp, Inc.  
 Wells Fargo & Company  
 WesBanco, Inc.  
 West Bancorporation, Inc.

Westamerica Bancorporation  
 Western Alliance Bancorporation  
 Western New England Bancorp, Inc.  
 Wintrust Financial Corporation  
 WSFS Financial Corporation  
 WVS Financial Corp.  
 Zions Bancorporation

**SIC 602**

1st Constitution Bancorp  
 1st Source Corporation  
 Access National Corporation  
 ACNB Corporation  
 AMB Financial Corp  
 American National Bankshares Inc.  
 American River Bankshares  
 Ameris Bancorp  
 AmeriServ Financial, Inc.  
 Ames National Corporation  
 Arrow Financial Corporation  
 Associated Banc-Corp  
 Auburn National Bancorporation, Inc.  
 BancFirst Corporation  
 Bancorp Of New Jersey, Inc.  
 BancorpSouth Bank  
 Bank of America Corporation  
 Bank of Commerce Holdings  
 Bank of Hawaii Corporation  
 Bank of Marin Bancorp  
 Bank of South Carolina Corporation  
 Bank of the James Financial Group, Inc.  
 Bank of the Ozarks  
 BankUnited, Inc.  
 Bankwell Financial Group, Inc.  
 Banner Corporation  
 Bar Harbor Bankshares  
 BB&T Corporation  
 BCB Bancorp, Inc.  
 Berkshire Hills Bancorp, Inc.  
 BOK Financial Corporation  
 Boston Private Financial Holdings, Inc.  
 Bridge Bancorp, Inc.  
 Bryn Mawr Bank Corporation  
 C&F Financial Corporation  
 Cambridge Bancorp  
 Camden National Corporation  
 Capital City Bank Group, Inc.

Carolina Trust BancShares, Inc.  
 Cathay General Bancorp  
 CB Financial Services, Inc.  
 CenterState Bank Corporation  
 Central Pacific Financial Corp.  
 Central Valley Community Bancorp  
 Century Bancorp, Inc.  
 Chemical Financial Corporation  
 Chemung Financial Corporation  
 Citizens & Northern Corporation  
 Citizens Financial Services Inc.  
 Citizens First Corporation  
 Citizens Holding Company  
 City Holding Company  
 Civista Bancshares, Inc.  
 CNB Financial Corporation  
 CoBiz Financial Inc.  
 Codorus Valley Bancorp, Inc.  
 Colony Bankcorp, Inc.  
 Columbia Banking System, Inc.  
 Comerica Incorporated  
 Commerce Bancshares, Inc.  
 Community Bank System, Inc.  
 Community Bankers Trust Corporation  
 Community Trust Bancorp, Inc.  
 Community West Bancshares  
 ConnectOne Bancorp, Inc.  
 CSB Bancorp Inc.  
 Cullen/Frost Bankers, Inc.  
 Customers Bancorp, Inc.  
 CVB Financial Corp.  
 DNB Financial Corporation  
 Eagle Bancorp, Inc.  
 East West Bancorp, Inc.  
 Emclave Financial Corp.  
 Enterprise Bancorp, Inc.  
 Enterprise Financial Services Corp  
 Evans Bancorp, Inc.  
 F.N.B. Corporation  
 Farmers Capital Bank Corporation  
 Farmers National Banc Corp.  
 Fauquier Bankshares, Inc.  
 Fidelity D & D Bancorp, Inc.  
 Fidelity Southern Corporation  
 Fifth Third Bancorp  
 Financial Institutions, Inc.

Appendix A: Companies (Main Set) in Each Industry, by SIC Code

First Bancorp	Howard Bancorp, Inc.	Patriot National Bancorp, Inc.
First Bancorp Indiana Inc.	Huntington Bancshares Incorporated	Peapack-Gladstone Financial Corporation
First BanCorp.	IBERIABANK Corporation	Penns Woods Bancorp, Inc.
First Bank	Independent Bank Corp.	Peoples Bancorp Inc.
First Busey Corporation	Independent Bank Corporation	Peoples Bancorp of North Carolina, Inc.
First Business Financial Services, Inc.	Independent Bank Group, Inc.	Peoples Financial Services Corp.
First Citizens BancShares, Inc.	International Bancshares Corporation	People's United Financial, Inc.
First Commonwealth Financial Corporation	JPMorgan Chase & Co.	Pinnacle Financial Partners, Inc.
First Community Bancshares, Inc.	Juniata Valley Financial Corp.	Plumas Bancorp
First Community Corporation	KeyCorp	Popular, Inc.
First Financial Bancorp.	Lakeland Bancorp, Inc.	Preferred Bank
First Financial Bankshares, Inc.	Lakeland Financial Corporation	Premier Financial Bancorp, Inc.
First Financial Corporation	Landmark Bancorp, Inc.	Prosperity Bancshares, Inc.
First Financial Northwest, Inc.	LCNB Corp.	QCR Holdings, Inc.
First Horizon National Corporation	LegacyTexas Financial Group, Inc.	Regions Financial Corporation
First Internet Bancorp	M&T Bank Corporation	Renasant Corporation
First Interstate BancSystem, Inc.	Macatawa Bank Corporation	Republic Bancorp, Inc.
First Keystone Corp.	Mackinac Financial Corporation	Republic First Bancorp, Inc.
First Merchants Corporation	MainSource Financial Group, Inc.	S&T Bancorp, Inc.
First Mid-Illinois Bancshares, Inc.	MB Financial, Inc.	Salisbury Bancorp, Inc.
First Midwest Bancorp, Inc.	Mercantile Bank Corporation	Sandy Spring Bancorp, Inc.
First Republic Bank	Mid Penn Bancorp, Inc.	SB Financial Group, Inc.
First United Corporation	Middlefield Banc Corp.	Seacoast Banking Corporation of Florida
First US Bancshares, Inc.	MidSouth Bancorp, Inc.	Select Bancorp, Inc.
FNB Bancorp	MidWestOne Financial Group, Inc.	Shore Bancshares, Inc.
FNBH Bancorp Inc.	MutualFirst Financial, Inc.	Sierra Bancorp
FNCB Bancorp, Inc.	MVB Financial Corp.	Signature Bank
Franklin Financial Network, Inc.	National Bank Holdings Corporation	Simmons First National Corporation
Fulton Financial Corporation	National Bankshares, Inc.	South State Corporation
German American Bancorp, Inc.	NBT Bancorp Inc.	Southern First Bancshares, Inc.
Glacier Bancorp, Inc.	Northeast Bancorp	Southern National Bancorp of Virginia, Inc.
Glen Burnie Bancorp	Northern Trust Corporation	Southside Bancshares, Inc.
Great Southern Bancorp, Inc.	Northrim BanCorp, Inc.	Southwest Georgia Financial Corporation
Guaranty Bancorp	Norwood Financial Corp.	State Bank Financial Corporation
Guaranty Federal Bancshares, Inc.	Oak Valley Bancorp	State Street Corporation
Hancock Holding Company	OFG Bancorp	Sterling Bancorp
Hanmi Financial Corporation	Ohio Valley Banc Corp.	Stewardship Financial Corporation
Hawthorn Bancshares, Inc.	Old Line Bancshares, Inc.	Stock Yards Bancorp, Inc.
Heartland Financial USA, Inc.	Old National Bancorp	Summit Financial Group, Inc.
Heritage Commerce Corp	Old Point Financial Corporation	Summit State Bank
Heritage Financial Corporation	Old Second Bancorp, Inc.	SunTrust Banks, Inc.
Home Bancshares, Inc. (Conway, AR)	Orrstown Financial Services, Inc.	Sussex Bancorp
HomeTrust Bancshares, Inc.	Pacific Premier Bancorp, Inc.	SVB Financial Group
Hope Bancorp, Inc.	PacWest Bancorp	Synovus Financial Corp.
Horizon Bancorp	Park National Corporation	TCF Financial Corporation
	Parke Bancorp, Inc.	
	Pathfinder Bancorp, Inc.	

## Appendix A: Companies (Main Set) in Each Industry, by SIC Code

Texas Capital Bancshares, Inc.  
 The Bank of New York Mellon Corporation  
 The Community Financial Corporation  
 The First Bancorp, Inc.  
 The First Bancshares, Inc.  
 The First of Long Island Corporation  
 The PNC Financial Services Group, Inc.  
 Tompkins Financial Corporation  
 TowneBank  
 TriCo Bancshares  
 Trustmark Corporation  
 Two River Bancorp  
 U.S. Bancorp  
 UMB Financial Corporation  
 Umpqua Holdings Corporation  
 Union Bankshares Corporation  
 Union Bankshares, Inc.  
 United Bancorp, Inc.  
 United Bancshares, Inc.  
 United Bankshares, Inc.  
 United Community Banks, Inc.  
 United Security Bancshares  
 Unity Bancorp, Inc.  
 Univest Corporation of Pennsylvania  
 Valley National Bancorp  
 Washington Federal, Inc.  
 Washington Trust Bancorp, Inc.  
 Webster Financial Corporation  
 Wellesley Bancorp, Inc.  
 Wells Fargo & Company  
 WesBanco, Inc.  
 West Bancorporation, Inc.  
 Westamerica Bancorporation  
 Western Alliance Bancorporation  
 Wintrust Financial Corporation  
 Zions Bancorporation

Broadway Financial Corporation  
 Brookline Bancorp, Inc.  
 BSB Bancorp, Inc.  
 Capitol Federal Financial, Inc.  
 Central Federal Corporation  
 Charter Financial Corporation  
 Citizens Community Bancorp, Inc.  
 Clifton Bancorp Inc.  
 Dime Community Bancshares, Inc.  
 Eagle Bancorp Montana, Inc.  
 Elmira Savings Bank  
 ESSA Bancorp, Inc.  
 Farmers & Merchants Bancorp, Inc.  
 First Capital, Inc.  
 First Connecticut Bancorp, Inc.  
 First Defiance Financial Corp.  
 First Savings Financial Group, Inc.  
 Flagstar Bancorp, Inc.  
 Flushing Financial Corporation  
 FS Bancorp, Inc.  
 Greene County Bancorp, Inc.  
 Hingham Institution for Savings  
 HMN Financial, Inc.  
 Home Bancorp, Inc.  
 Home Federal Bancorp, Inc. of Louisiana  
 Home Loan Financial Corp.  
 HomeStreet, Inc.  
 HopFed Bancorp, Inc.  
 IF Bancorp, Inc.  
 Investors Bancorp, Inc.  
 Jacksonville Bancorp, Inc.  
 Kearny Financial Corp.  
 Kentucky First Federal Bancorp  
 KS Bancorp Inc.  
 Lake Shore Bancorp, Inc.  
 Magyar Bancorp, Inc.  
 Malvern Bancorp, Inc.  
 MBT Financial Corp.  
 Meridian Bancorp, Inc.  
 Meta Financial Group, Inc.  
 MSB Financial Corp.  
 New York Community Bancorp, Inc.  
 Northfield Bancorp, Inc. (Staten Island, NY)  
 Northwest Bancshares, Inc.  
 Northwest Indiana Bancorp  
 OceanFirst Financial Corp.

Ocoonee Federal Financial Corp.  
 Oritani Financial Corp.  
 Ottawa Bancorp, Inc.  
 PB Bancorp, Inc.  
 Poage Bankshares, Inc.  
 Provident Financial Holdings, Inc.  
 Provident Financial Services, Inc.  
 Prudential Bancorp, Inc.  
 Riverview Bancorp, Inc.  
 SI Financial Group, Inc.  
 Sound Financial Bancorp, Inc.  
 Southern Missouri Bancorp, Inc.  
 Territorial Bancorp Inc.  
 TFS Financial Corp  
 Timberland Bancorp, Inc.  
 TrustCo Bank Corp NY  
 United Community Bancorp  
 United Community Financial Corp.  
 United Financial Bancorp, Inc.  
 Waterstone Financial, Inc.  
 Western New England Bancorp, Inc.  
 WSFS Financial Corporation  
 WVS Financial Corp.

### SIC 6035

Atlantic Coast Financial Corporation  
 Banc of California, Inc.  
 Bay Bancorp, Inc.  
 BBX Capital Corporation  
 Bear State Financial, Inc.  
 Beneficial Bancorp, Inc.  
 BofI Holding, Inc.  
 Broadway Financial Corporation  
 Brookline Bancorp, Inc.  
 BSB Bancorp, Inc.  
 Capitol Federal Financial, Inc.  
 Central Federal Corporation  
 Charter Financial Corporation  
 Citizens Community Bancorp, Inc.  
 Clifton Bancorp Inc.  
 Dime Community Bancshares, Inc.  
 Eagle Bancorp Montana, Inc.  
 Elmira Savings Bank  
 Farmers & Merchants Bancorp, Inc.  
 First Capital, Inc.  
 First Defiance Financial Corp.

### SIC 6035

Anchor Bancorp  
 Atlantic Coast Financial Corporation  
 Banc of California, Inc.  
 BankFinancial Corporation  
 Bay Bancorp, Inc.  
 BBX Capital Corporation  
 Bear State Financial, Inc.  
 Beneficial Bancorp, Inc.  
 BofI Holding, Inc.

## Appendix A: Companies (Main Set) in Each Industry, by SIC Code

First Savings Financial Group, Inc.  
 Flagstar Bancorp, Inc.  
 Flushing Financial Corporation  
 Greene County Bancorp, Inc.  
 HMN Financial, Inc.  
 Home Bancorp, Inc.  
 Home Federal Bancorp, Inc. of Louisiana  
 HopFed Bancorp, Inc.  
 IF Bancorp, Inc.  
 Kentucky First Federal Bancorp  
 Lake Shore Bancorp, Inc.  
 Magyar Bancorp, Inc.  
 Malvern Bancorp, Inc.  
 Meta Financial Group, Inc.  
 MSB Financial Corp.  
 Northfield Bancorp, Inc. (Staten Island, NY)  
 Northwest Bancshares, Inc.  
 Northwest Indiana Bancorp  
 OceanFirst Financial Corp.  
 Oconee Federal Financial Corp.  
 Oritani Financial Corp.  
 Ottawa Bancorp, Inc.  
 PB Bancorp, Inc.  
 Poage Bankshares, Inc.  
 Provident Financial Holdings, Inc.  
 Riverview Bancorp, Inc.  
 SI Financial Group, Inc.  
 Sound Financial Bancorp, Inc.  
 Territorial Bancorp Inc.  
 TFS Financial Corp  
 TrustCo Bank Corp NY  
 United Community Bancorp  
 Waterstone Financial, Inc.  
 Western New England Bancorp, Inc.  
 WSFS Financial Corporation

### SIC 6036

Anchor Bancorp  
 BankFinancial Corporation  
 ESSA Bancorp, Inc.  
 First Connecticut Bancorp, Inc.  
 FS Bancorp, Inc.  
 Hingham Institution for Savings  
 Home Loan Financial Corp.  
 HomeStreet, Inc.  
 Investors Bancorp, Inc.  
 Jacksonville Bancorp, Inc.  
 Kearny Financial Corp.  
 KS Bancorp Inc.  
 MBT Financial Corp.

Meridian Bancorp, Inc.  
 New York Community Bancorp, Inc.  
 Provident Financial Services, Inc.  
 Prudential Bancorp, Inc.  
 Southern Missouri Bancorp, Inc.  
 Timberland Bancorp, Inc.  
 United Community Financial Corp.  
 United Financial Bancorp, Inc.  
 WVS Financial Corp.

### SIC 609

Euronet Worldwide, Inc.  
 Mastercard Incorporated  
 Payment Data Systems, Inc.  
 The Western Union Company  
 Visa Inc.

### SIC 61

AirXpanders, Inc.  
 CIT Group Inc.  
 Credit Acceptance Corporation  
 Discover Financial Services  
 Encore Capital Group, Inc.  
 Federal Agricultural Mortgage Corporation  
 HFF, Inc.  
 Hilltop Holdings Inc.  
 Impac Mortgage Holdings, Inc.  
 LendingTree, Inc.  
 Marlin Business Services Corp.  
 Nationstar Mortgage Holdings Inc.  
 Nelnet, Inc.  
 Oxford Lane Capital Corp.  
 PRA Group, Inc.  
 Regional Management Corp.  
 Walker & Dunlop, Inc.  
 World Acceptance Corporation

### SIC 614

Credit Acceptance Corporation  
 Discover Financial Services  
 Nelnet, Inc.  
 Regional Management Corp.  
 World Acceptance Corporation

### SIC 616

HFF, Inc.  
 Impac Mortgage Holdings,

Inc.  
 LendingTree, Inc.  
 Nationstar Mortgage Holdings Inc.  
 Walker & Dunlop, Inc.

### SIC 62

Affiliated Managers Group, Inc.  
 Ameriprise Financial, Inc.  
 Apollo Global Management, LLC  
 Artisan Partners Asset Management Inc.  
 BGC Partners, Inc.  
 BlackRock, Inc.  
 Cboe Global Markets, Inc.  
 CME Group Inc.  
 Cohen & Steers, Inc.  
 Cowen Inc.  
 Diamond Hill Investment Group, Inc.  
 E\*TRADE Financial Corporation  
 Eaton Vance Corp.  
 Evercore Inc.  
 Federated Investors, Inc.  
 Financial Engines, Inc.  
 Franklin Resources, Inc.  
 GAIN Capital Holdings, Inc.  
 GAMCO Investors, Inc.  
 Greenhill & Co., Inc.  
 Hennessy Advisors, Inc.  
 Interactive Brokers Group, Inc.  
 Intercontinental Exchange, Inc.  
 INTL FCStone Inc.  
 Investment Technology Group, Inc.  
 KKR & Co. L.P.  
 Legg Mason, Inc.  
 LPL Financial Holdings Inc.  
 Manning & Napier, Inc.  
 MarketAxess Holdings Inc.  
 Morgan Stanley  
 MSCI Inc.  
 National Holdings Corporation  
 Oaktree Capital Group, LLC  
 Oppenheimer Holdings Inc.  
 Piper Jaffray Companies  
 Pzena Investment Management, Inc  
 Raymond James Financial, Inc.  
 SEI Investments Co.  
 Stifel Financial Corp.  
 T. Rowe Price Group, Inc.  
 TD Ameritrade Holding Corporation  
 The Blackstone Group L.P.

## Appendix A: Companies (Main Set) in Each Industry, by SIC Code

The Carlyle Group L.P.  
The Charles Schwab Corporation  
The Goldman Sachs Group, Inc.  
Virtus Investment Partners, Inc.  
Waddell & Reed Financial, Inc.  
Westwood Holdings Group, Inc.  
WisdomTree Investments, Inc.

SEI Investments Co.  
T. Rowe Price Group, Inc.  
The Blackstone Group L.P.  
The Carlyle Group L.P.  
The Charles Schwab Corporation  
Virtus Investment Partners, Inc.  
Waddell & Reed Financial, Inc.  
Westwood Holdings Group, Inc.  
WisdomTree Investments, Inc.

Investors Title Company  
Kemper Corporation  
Kingstone Companies, Inc.  
Lincoln National Corporation  
Markel Corporation  
Mercury General Corporation  
MetLife, Inc.  
MGIC Investment Corporation  
National Western Life Group, Inc.  
Old Republic International Corporation

### SIC 621

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Ameriprise Financial, Inc.  
BGC Partners, Inc.  
E\*TRADE Financial Corporation  
Interactive Brokers Group, Inc.  
Investment Technology Group, Inc.  
LPL Financial Holdings Inc.  
National Holdings Corporation  
Oppenheimer Holdings Inc.  
Piper Jaffray Companies  
Raymond James Financial, Inc.  
Stifel Financial Corp.  
TD Ameritrade Holding Corporation  
The Goldman Sachs Group, Inc.

### SIC 63

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Aetna Inc.  
Aflac Incorporated  
Alleghany Corporation  
American Equity Investment Life Holding Company  
American Financial Group, Inc.  
American International Group, Inc.  
American National Insurance Company  
Amerisafe, Inc.  
AmTrust Financial Services, Inc.  
Anthem, Inc.  
Assurant, Inc.  
Atlantic American Corporation  
Baldwin & Lyons, Inc.  
Centene Corporation  
Cigna Corporation  
Cincinnati Financial Corporation  
Citizens, Inc.  
CNA Financial Corporation  
CNO Financial Group, Inc.  
Donegal Group Inc.  
EMC Insurance Group Inc.  
Employers Holdings, Inc.  
FBL Financial Group, Inc.  
Federated National Holding Company  
Fidelity National Financial, Inc.  
First American Financial Corporation  
Hallmark Financial Services, Inc.  
HCI Group, Inc.  
Horace Mann Educators Corporation  
Humana Inc.  
Independence Holding Company  
Infinity Property and Casualty Corporation

ProAssurance Corporation  
Radian Group Inc.  
Reinsurance Group of America, Incorporated  
RLI Corp.  
Safety Insurance Group, Inc.  
Selective Insurance Group, Inc.  
State Auto Financial Corporation  
Stewart Information Services Corporation  
The Allstate Corporation  
The Hanover Insurance Group, Inc.  
The Hartford Financial Services Group, Inc.  
The National Security Group, Inc.  
The Navigators Group, Inc.  
The Progressive Corporation  
The Travelers Companies, Inc.  
Torchmark Corporation  
Unico American Corporation  
United Fire Group, Inc.  
United Insurance Holdings Corp.  
UnitedHealth Group Incorporated  
Universal Insurance Holdings, Inc.  
Unum Group  
W. R. Berkley Corporation  
WellCare Health Plans, Inc.  
WMIH Corp.

### SIC 628

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Affiliated Managers Group, Inc.  
Apollo Global Management, LLC  
Artisan Partners Asset Management Inc.  
BlackRock, Inc.  
Cohen & Steers, Inc.  
Cowen Inc.  
Diamond Hill Investment Group, Inc.  
Eaton Vance Corp.  
Federated Investors, Inc.  
Financial Engines, Inc.  
Franklin Resources, Inc.  
GAMCO Investors, Inc.  
Greenhill & Co., Inc.  
Hennessy Advisors, Inc.  
KKR & Co. L.P.  
Legg Mason, Inc.  
Manning & Napier, Inc.  
MSCI Inc.  
Oaktree Capital Group, LLC  
Pzena Investment Management, Inc.

### SIC 631

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American Equity Investment Life Holding Company  
Citizens, Inc.  
FBL Financial Group, Inc.  
MetLife, Inc.  
National Western Life Group, Inc.

## Appendix A: Companies (Main Set) in Each Industry, by SIC Code

Reinsurance Group of America, Incorporated

The National Security Group, Inc.  
The Navigators Group, Inc.  
The Progressive Corporation  
The Travelers Companies, Inc.  
Unico American Corporation  
United Fire Group, Inc.  
United Insurance Holdings Corp.  
Universal Insurance Holdings, Inc.  
W. R. Berkley Corporation

Wyndham Worldwide Corporation

### SIC 632

---

Aetna Inc.  
Aflac Incorporated  
Anthem, Inc.  
Centene Corporation  
Cigna Corporation  
CNO Financial Group, Inc.  
Humana Inc.  
Independence Holding Company  
UnitedHealth Group Incorporated  
Unum Group  
WellCare Health Plans, Inc.

### SIC 6324

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Aetna Inc.  
Anthem, Inc.  
Centene Corporation  
Cigna Corporation  
Humana Inc.  
UnitedHealth Group Incorporated  
WellCare Health Plans, Inc.

### SIC 633

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Alleghany Corporation  
Amerisafe, Inc.  
Baldwin & Lyons, Inc.  
Cincinnati Financial Corporation  
CNA Financial Corporation  
Donegal Group Inc.  
EMC Insurance Group Inc.  
Employers Holdings, Inc.  
Federated National Holding Company  
Hallmark Financial Services, Inc.  
HCI Group, Inc.  
Infinity Property and Casualty Corporation  
Kingstone Companies, Inc.  
Markel Corporation  
Mercury General Corporation  
ProAssurance Corporation  
RLI Corp.  
Safety Insurance Group, Inc.  
Selective Insurance Group, Inc.  
State Auto Financial Corporation  
The Allstate Corporation  
The Hanover Insurance Group, Inc.  
The Hartford Financial Services Group, Inc.

### SIC 64

---

Arthur J. Gallagher & Co.  
Brown & Brown, Inc.  
CorVel Corporation  
Crawford & Company  
Erie Indemnity Company  
Health Insurance Innovations, Inc.  
HMS Holdings Corp.  
Marsh & McLennan Companies, Inc.  
Verisk Analytics, Inc.  
WageWorks, Inc.

### SIC 65

---

CBRE Group, Inc.  
China HGS Real Estate Inc.  
Consolidated-Tomoka Land Co.  
FRP Holdings, Inc.  
Griffin Industrial Realty, Inc.  
ILG, Inc.  
Income Opportunity Realty Investors, Inc.  
J.W. Mays, Inc.  
Jones Lang LaSalle Incorporated  
Kennedy-Wilson Holdings, Inc.  
Maui Land & Pineapple Company, Inc.  
Realogy Holdings Corp.  
Stratus Properties Inc.  
The Howard Hughes Corporation  
Vector Group Ltd.  
Wyndham Worldwide Corporation

### SIC 653

---

ILG, Inc.  
Jones Lang LaSalle Incorporated  
Realogy Holdings Corp.  
Vector Group Ltd.

### SIC 655

---

China HGS Real Estate Inc.  
Income Opportunity Realty Investors, Inc.  
Maui Land & Pineapple Company, Inc.  
Stratus Properties Inc.  
The Howard Hughes Corporation

### SIC 67

---

Acadia Realty Trust  
Agree Realty Corporation  
Alexander's, Inc.  
Alexandria Real Estate Equities, Inc.  
AllianceBernstein Holding L.P.  
American Assets Trust, Inc.  
American Campus Communities, Inc.  
American Tower Corporation (REIT)  
Annaly Capital Management, Inc.  
Anworth Mortgage Asset Corporation  
Apartment Investment and Management Company  
Apollo Commercial Real Estate Finance, Inc.  
Apollo Investment Corporation  
Arbor Realty Trust, Inc.  
Ares Capital Corporation  
Ares Commercial Real Estate Corporation  
AvalonBay Communities, Inc.  
BlackRock Capital Investment Corporation  
Blackstone Mortgage Trust, Inc.  
Boston Properties, Inc.  
BP Prudhoe Bay Royalty Trust  
Brandywine Realty Trust  
Camden Property Trust  
Capital Southwest Corporation  
CEVA, Inc.  
Chatham Lodging Trust  
Cherokee Inc.  
Chesapeake Lodging Trust  
Colony NorthStar, Inc.  
CoreCivic, Inc.  
CorEnergy Infrastructure Trust, Inc.  
CoreSite Realty Corporation

## Appendix A: Companies (Main Set) in Each Industry, by SIC Code

Corporate Office Properties Trust	Hudson Pacific Properties, Inc.	Trust
Cousins Properties Incorporated	Hugoton Royalty Trust	Piedmont Office Realty Trust, Inc.
Cross Timbers Royalty Trust	InterDigital, Inc.	Prologis, Inc.
Crown Castle International Corp. (REIT)	Invesco Mortgage Capital Inc.	Prospect Capital Corporation
CubeSmart	Iron Mountain Incorporated	PS Business Parks, Inc.
CYS Investments, Inc.	Kayne Anderson Energy Development Company	Public Storage
DCT Industrial Trust Inc.	KCAP Financial, Inc.	Rambus Inc.
DiamondRock Hospitality Company	Kilroy Realty Corporation	Ramco-Gershenson Properties Trust
Digital Realty Trust, Inc.	Kimco Realty Corporation	Rand Capital Corporation
Dolby Laboratories, Inc.	Kite Realty Group Trust	Rayonier Inc.
Dorchester Minerals, L.P.	Lamar Advertising Company (REIT)	Realty Income Corporation
Douglas Emmett, Inc.	LaSalle Hotel Properties	Redwood Trust, Inc.
Duke Realty Corporation	Lexington Realty Trust	Regency Centers Corporation
EastGroup Properties, Inc.	Liberty Property Trust	Retail Opportunity Investments Corp.
Education Realty Trust, Inc.	Life Storage, Inc.	Retail Properties of America, Inc.
EPR Properties	LTC Properties, Inc.	RLJ Lodging Trust
Equinix, Inc. (REIT)	Macerich Company	Royal Gold, Inc.
Equity Commonwealth	Main Street Capital Corporation	RPX Corporation
Equity LifeStyle Properties, Inc.	Manhattan Bridge Capital, Inc.	Ryman Hospitality Properties, Inc.
Equity Residential	Medallion Financial Corp.	Sabine Royalty Trust
Essex Property Trust, Inc.	Medical Properties Trust, Inc.	Sabra Health Care REIT, Inc.
Extra Space Storage Inc.	Medley Capital Corporation	San Juan Basin Royalty Trust
Federal Realty Investment Trust	Mesa Royalty Trust	Saratoga Investment Corp.
Fidus Investment Corporation	Mesabi Trust	Saul Centers, Inc.
First Industrial Realty Trust, Inc.	MFA Financial, Inc.	Select Income REIT
Forest City Realty Trust, Inc.	Mid-America Apartment Communities, Inc.	Senior Housing Properties Trust
Franklin Street Properties Corp.	Monmouth Real Estate Investment Corporation	Simon Property Group, Inc.
Garrison Capital Inc.	Monroe Capital Corporation	SL Green Realty Corp.
Getty Realty Corp.	MVC Capital, Inc.	Solar Capital Ltd.
GGP Inc.	National Health Investors, Inc.	Solar Senior Capital Ltd.
Gladstone Capital Corporation	National Retail Properties, Inc.	Spirit Realty Capital, Inc.
Gladstone Investment Corporation	Network-1 Technologies, Inc.	Starwood Property Trust, Inc.
Gladstone Land Corporation	New Mountain Finance Corporation	Summit Hotel Properties, Inc.
Golub Capital BDC, Inc.	Newtek Business Services Corp.	Sun Communities, Inc.
Gramercy Property Trust	North European Oil Royalty Trust	Sunstone Hotel Investors, Inc.
Hannon Armstrong Sustainable Infrastructure Capital, Inc.	OFS Capital Corporation	Tanger Factory Outlet Centers, Inc.
HCP, Inc.	Omega Healthcare Investors, Inc.	Taubman Centers, Inc.
Healthcare Realty Trust Incorporated	One Liberty Properties, Inc.	TC PipeLines, LP
Healthcare Trust of America, Inc.	Oxford Square Capital Corp.	TCP Capital Corp.
Hercules Capital, Inc.	Pebblebrook Hotel Trust	Terreno Realty Corporation
Hersha Hospitality Trust	PennantPark Floating Rate Capital Ltd.	Texas Pacific Land Trust
Highwoods Properties, Inc.	PennantPark Investment Corporation	THL Credit, Inc.
Horizon Technology Finance Corporation	PennyMac Mortgage Investment Trust	Triangle Capital Corporation
Hospitality Properties Trust	Permian Basin Royalty	UDR, Inc.
Host Hotels & Resorts, Inc.		Universal Health Realty Income Trust
		Urstadt Biddle Properties Inc.
		Ventas, Inc.
		Vornado Realty Trust



## Appendix A: Companies (Main Set) in Each Industry, by SIC Code

W. P. Carey Inc.  
 Washington Real Estate  
 Investment Trust  
 Weingarten Realty Investors  
 Welltower Inc.  
 WhiteHorse Finance, Inc.  
 Whitestone REIT  
 Winmark Corporation  
 Xcel Brands, Inc.

Crown Castle International  
 Corp. (REIT)  
 CubeSmart  
 CYS Investments, Inc.  
 DCT Industrial Trust Inc.  
 DiamondRock Hospitality  
 Company  
 Digital Realty Trust, Inc.  
 Douglas Emmett, Inc.  
 Duke Realty Corporation  
 EastGroup Properties, Inc.  
 Education Realty Trust, Inc.  
 EPR Properties  
 Equinix, Inc. (REIT)  
 Equity Commonwealth  
 Equity LifeStyle Properties,  
 Inc.

Inc.  
 MFA Financial, Inc.  
 Mid-America Apartment  
 Communities, Inc.  
 Monmouth Real Estate  
 Investment Corporation  
 National Health Investors,  
 Inc.  
 National Retail Properties,  
 Inc.

### SIC 6794

CEVA, Inc.  
 Cherokee Inc.  
 Dolby Laboratories, Inc.  
 InterDigital, Inc.  
 Network-1 Technologies,  
 Inc.  
 Rambus Inc.  
 RPX Corporation  
 Winmark Corporation  
 Xcel Brands, Inc.

Duke Realty Corporation  
 EastGroup Properties, Inc.  
 Education Realty Trust, Inc.  
 EPR Properties  
 Equinix, Inc. (REIT)  
 Equity Commonwealth  
 Equity LifeStyle Properties,  
 Inc.  
 Equity Residential  
 Essex Property Trust, Inc.  
 Extra Space Storage Inc.  
 Federal Realty Investment  
 Trust

Omega Healthcare  
 Investors, Inc.  
 One Liberty Properties, Inc.  
 Pebblebrook Hotel Trust  
 PennyMac Mortgage  
 Investment Trust  
 Piedmont Office Realty  
 Trust, Inc.  
 Prologis, Inc.  
 PS Business Parks, Inc.  
 Public Storage

### SIC 6798

Acadia Realty Trust  
 Agree Realty Corporation  
 Alexander's, Inc.  
 Alexandria Real Estate  
 Equities, Inc.  
 American Assets Trust, Inc.  
 American Campus  
 Communities, Inc.  
 American Tower  
 Corporation (REIT)  
 Annaly Capital  
 Management, Inc.  
 Anworth Mortgage Asset  
 Corporation  
 Apartment Investment and  
 Management Company  
 Apollo Commercial Real  
 Estate Finance, Inc.  
 Arbor Realty Trust, Inc.  
 Ares Commercial Real  
 Estate Corporation  
 AvalonBay Communities,  
 Inc.  
 Blackstone Mortgage Trust,  
 Inc.  
 Boston Properties, Inc.  
 Brandywine Realty Trust  
 Camden Property Trust  
 Chatham Lodging Trust  
 Chesapeake Lodging Trust  
 Colony NorthStar, Inc.  
 CoreCivic, Inc.  
 CorEnergy Infrastructure  
 Trust, Inc.  
 CoreSite Realty Corporation  
 Corporate Office Properties  
 Trust  
 Cousins Properties  
 Incorporated

First Industrial Realty Trust,  
 Inc.  
 Forest City Realty Trust, Inc.  
 Franklin Street Properties  
 Corp.  
 Getty Realty Corp.  
 GGP Inc.  
 Gladstone Land Corporation  
 Gramercy Property Trust  
 Hannon Armstrong  
 Sustainable Infrastructure  
 Capital, Inc.  
 HCP, Inc.  
 Healthcare Realty Trust  
 Incorporated  
 Healthcare Trust of  
 America, Inc.  
 Hersha Hospitality Trust  
 Highwoods Properties, Inc.  
 Hospitality Properties Trust  
 Host Hotels & Resorts, Inc.  
 Hudson Pacific Properties,  
 Inc.  
 Invesco Mortgage Capital  
 Inc.  
 Iron Mountain Incorporated  
 Kilroy Realty Corporation  
 Kimco Realty Corporation  
 Kite Realty Group Trust  
 Lamar Advertising  
 Company (REIT)  
 LaSalle Hotel Properties  
 Lexington Realty Trust  
 Liberty Property Trust  
 Life Storage, Inc.  
 LTC Properties, Inc.  
 Macerich Company  
 Manhattan Bridge Capital,  
 Inc.  
 Medical Properties Trust,

Ramco-Gershenson  
 Properties Trust  
 Rayonier Inc.  
 Realty Income Corporation  
 Redwood Trust, Inc.  
 Regency Centers  
 Corporation  
 Retail Opportunity  
 Investments Corp.  
 Retail Properties of  
 America, Inc.  
 RLJ Lodging Trust  
 Ryman Hospitality  
 Properties, Inc.  
 Sabra Health Care REIT, Inc.  
 Saul Centers, Inc.  
 Select Income REIT  
 Senior Housing Properties  
 Trust  
 Simon Property Group, Inc.  
 SL Green Realty Corp.  
 Spirit Realty Capital, Inc.  
 Starwood Property Trust,  
 Inc.  
 Summit Hotel Properties,  
 Inc.  
 Sun Communities, Inc.  
 Sunstone Hotel Investors,  
 Inc.  
 Tanger Factory Outlet  
 Centers, Inc.  
 Taubman Centers, Inc.  
 Terreno Realty Corporation  
 UDR, Inc.  
 Universal Health Realty  
 Income Trust  
 Urstadt Biddle Properties  
 Inc.  
 Ventas, Inc.  
 Vornado Realty Trust  
 W. P. Carey Inc.

## Appendix A: Companies (Main Set) in Each Industry, by SIC Code

Washington Real Estate  
Investment Trust  
Weingarten Realty Investors  
Welltower Inc.  
Whitestone REIT

CoStar Group, Inc.  
CSG Systems International,  
Inc.  
CSP Inc.  
Cynergistek, Inc.  
DHI Group, Inc.

Marriott International, Inc.  
Marriott Vacations  
Worldwide Corporation  
McGrath RentCorp  
Medidata Solutions, Inc.  
MercadoLibre, Inc.

### SIC 7

ACI Worldwide, Inc.  
Activision Blizzard, Inc.  
Axiom Corporation  
Adobe Systems  
Incorporated  
Air Lease Corporation  
Akamai Technologies, Inc.  
Alphabet Inc.  
AMERCO  
American Software, Inc.  
AMN Healthcare Services,  
Inc.  
ANSYS, Inc.  
ARC Document Solutions,  
Inc.  
ASGN Incorporated  
Aspen Technology, Inc.  
athenahealth, Inc.  
Avis Budget Group, Inc.  
Aware, Inc.  
B. Riley Financial, Inc.  
Barrett Business Services,  
Inc.  
Blackbaud, Inc.  
Booking Holdings Inc.  
Booz Allen Hamilton  
Holding Corporation  
Bowl America Incorporated  
Boyd Gaming Corporation  
Broadridge Financial  
Solutions, Inc.  
CA, Inc.  
CACI International Inc  
Cadence Design Systems,  
Inc.  
CAI International, Inc.  
Canterbury Park Holding  
Corporation  
Carriage Services, Inc.  
Cass Information Systems,  
Inc.  
Cedar Fair, L.P.  
Century Casinos, Inc.  
Cerner Corporation  
Churchill Downs  
Incorporated  
Cinemark Holdings, Inc.  
Citrix Systems, Inc.  
Cognizant Technology  
Solutions Corporation  
Collectors Universe Inc.  
Commvault Systems, Inc.  
Computer Programs and  
Systems, Inc.  
Convergys Corporation  
CoreLogic, Inc.

Dover Downs Gaming &  
Entertainment, Inc.  
Dover Motorsports, Inc.  
DXC Technology Company  
eBay Inc.  
Ebix, Inc.  
Edgewater Technology, Inc.  
Electronic Arts Inc.  
Ellie Mae, Inc.  
EPAM Systems, Inc.  
Equifax Inc.  
EVERTEC, Inc.  
Evolving Systems, Inc.  
F5 Networks, Inc.  
Facebook, Inc.  
FactSet Research Systems  
Inc.  
Fair Isaac Corporation  
Fidelity National  
Information Services, Inc.  
Fiserv, Inc.  
FleetCor Technologies, Inc.  
Global Payments Inc.  
Golden Entertainment, Inc.  
Green Dot Corporation  
Guidewire Software, Inc.  
H&R Block, Inc.  
HealthStream, Inc.  
Hyatt Hotels Corporation  
IAC/InterActiveCorp  
Information Services Group,  
Inc.  
Insignia Systems, Inc.  
Insperty, Inc.  
International Business  
Machines Corporation  
International Speedway  
Corporation  
Intuit Inc.  
Inuvo, Inc.  
Issuer Direct Corporation  
j2 Global, Inc.  
Jack Henry & Associates,  
Inc.  
KAR Auction Services, Inc.  
Kelly Services, Inc.  
Kforce Inc.  
Las Vegas Sands Corp.  
Leidos Holdings, Inc.  
LogMeIn, Inc.  
MAM Software Group, Inc.  
Manhattan Associates, Inc.  
ManpowerGroup Inc.  
ManTech International  
Corporation

MGM Resorts International  
Microsoft Corporation  
MicroStrategy Incorporated  
Mobile Mini, Inc.  
Monarch Casino & Resort,  
Inc.  
Monotype Imaging Holdings  
Inc.  
Monro, Inc.  
Moody's Corporation  
Morningstar, Inc.  
Nam Dinh Educational Book  
and Equipment JSC  
National Instruments  
Corporation  
National Research  
Corporation  
Net 1 UEPS Technologies,  
Inc.  
Netflix, Inc.  
NetScout Systems, Inc.  
Nevada Gold & Casinos, Inc.  
NIC Inc.  
Omnicell, Inc.  
Omnicom Group Inc.  
Oracle Corporation  
Pegasystems Inc.  
Perficient, Inc.  
Performant Financial  
Corporation  
Progress Software  
Corporation  
PTC Inc.  
Quality Systems, Inc.  
Qualys, Inc.  
RCM Technologies, Inc.  
Reading International, Inc.  
RealPage, Inc.  
Red Hat, Inc.  
Reis, Inc.  
Robert Half International  
Inc.  
Rollins, Inc.  
S&P Global Inc.  
SeaWorld Entertainment,  
Inc.  
Shutterstock, Inc.  
SilverSun Technologies, Inc.  
Six Flags Entertainment  
Corporation  
Sotheby's  
SP Plus Corporation  
SPAR Group, Inc.  
Speedway Motorsports, Inc.  
SPS Commerce, Inc.  
SS&C Technologies  
Holdings, Inc.

## Appendix A: Companies (Main Set) in Each Industry, by SIC Code

Stamps.com Inc.  
 Sykes Enterprises, Incorporated  
 Symantec Corporation  
 Synopsys, Inc.  
 Take-Two Interactive Software, Inc.  
 TechTarget, Inc.  
 Teradata Corporation  
 The Brink's Company  
 The Interpublic Group of Companies, Inc.  
 The Marcus Corporation  
 The Ultimate Software Group, Inc.  
 Total System Services, Inc.  
 Travelzoo  
 TripAdvisor, Inc.  
 TrueBlue, Inc.  
 TSR, Inc.  
 TTEC Holdings, Inc.  
 Tucows Inc.  
 Tyler Technologies, Inc.  
 United Rentals, Inc.  
 Vail Resorts, Inc.  
 Verint Systems Inc.  
 Viad Corp  
 Virtusa Corporation  
 VMware, Inc.  
 Web.com Group, Inc.  
 WEX Inc.  
 Wilhelmina International, Inc.  
 Worldpay, Inc.  
 Wynn Resorts, Limited  
 XO Group Inc.  
 Zix Corporation

Booz Allen Hamilton Holding Corporation  
 Broadridge Financial Solutions, Inc.  
 CA, Inc.  
 CACI International Inc  
 Cadence Design Systems, Inc.  
 CAI International, Inc.  
 Cass Information Systems, Inc.  
 Cerner Corporation  
 Citrix Systems, Inc.  
 Cognizant Technology Solutions Corporation  
 Collectors Universe Inc.  
 Commvault Systems, Inc.  
 Computer Programs and Systems, Inc.  
 Convergys Corporation  
 CoreLogic, Inc.  
 CoStar Group, Inc.  
 CSG Systems International, Inc.  
 CSP Inc.  
 Cynergistek, Inc.  
 DHI Group, Inc.  
 DXC Technology Company  
 eBay Inc.  
 Ebix, Inc.  
 Edgewater Technology, Inc.  
 Electronic Arts Inc.  
 Ellie Mae, Inc.  
 EPAM Systems, Inc.  
 Equifax Inc.  
 EVERTEC, Inc.  
 Evolving Systems, Inc.  
 F5 Networks, Inc.  
 Facebook, Inc.  
 FactSet Research Systems Inc.  
 Fair Isaac Corporation  
 Fidelity National Information Services, Inc.  
 Fiserv, Inc.  
 FleetCor Technologies, Inc.  
 Global Payments Inc.  
 Green Dot Corporation  
 Guidewire Software, Inc.  
 HealthStream, Inc.  
 IAC/InterActiveCorp  
 Information Services Group, Inc.  
 Insignia Systems, Inc.  
 Insperty, Inc.  
 International Business Machines Corporation  
 Intuit Inc.  
 Inuvo, Inc.  
 Issuer Direct Corporation  
 j2 Global, Inc.

Jack Henry & Associates, Inc.  
 KAR Auction Services, Inc.  
 Kelly Services, Inc.  
 Kforce Inc.  
 Leidos Holdings, Inc.  
 LogMeIn, Inc.  
 MAM Software Group, Inc.  
 Manhattan Associates, Inc.  
 ManpowerGroup Inc.  
 ManTech International Corporation  
 McGrath RentCorp  
 Medidata Solutions, Inc.  
 MercadoLibre, Inc.  
 Microsoft Corporation  
 MicroStrategy Incorporated  
 Mobile Mini, Inc.  
 Monotype Imaging Holdings Inc.  
 Moody's Corporation  
 Morningstar, Inc.  
 Nam Dinh Educational Book and Equipment JSC  
 National Instruments Corporation  
 National Research Corporation  
 Net 1 UEPS Technologies, Inc.  
 NetScout Systems, Inc.  
 NIC Inc.  
 Omnicell, Inc.  
 Omnicom Group Inc.  
 Oracle Corporation  
 Pegasystems Inc.  
 Perficient, Inc.  
 Performant Financial Corporation  
 Progress Software Corporation  
 PTC Inc.  
 Quality Systems, Inc.  
 Qualys, Inc.  
 RCM Technologies, Inc.  
 RealPage, Inc.  
 Red Hat, Inc.  
 Reis, Inc.  
 Robert Half International Inc.  
 Rollins, Inc.  
 S&P Global Inc.  
 Shutterstock, Inc.  
 SilverSun Technologies, Inc.  
 Sotheby's  
 SPAR Group, Inc.  
 SPS Commerce, Inc.  
 SS&C Technologies Holdings, Inc.  
 Stamps.com Inc.  
 Sykes Enterprises, Incorporated

### SIC 73

ACI Worldwide, Inc.  
 Activision Blizzard, Inc.  
 Acxiom Corporation  
 Adobe Systems Incorporated  
 Air Lease Corporation  
 Akamai Technologies, Inc.  
 Alphabet Inc.  
 American Software, Inc.  
 AMN Healthcare Services, Inc.  
 ANSYS, Inc.  
 ARC Document Solutions, Inc.  
 ASGN Incorporated  
 Aspen Technology, Inc.  
 athenahealth, Inc.  
 Aware, Inc.  
 B. Riley Financial, Inc.  
 Barrett Business Services, Inc.  
 Blackbaud, Inc.  
 Booking Holdings Inc.

## Appendix A: Companies (Main Set) in Each Industry, by SIC Code

Symantec Corporation  
Synopsys, Inc.  
Take-Two Interactive Software, Inc.  
TechTarget, Inc.  
Teradata Corporation  
The Brink's Company  
The Interpublic Group of Companies, Inc.  
The Ultimate Software Group, Inc.  
Total System Services, Inc.  
Travelzoo  
TripAdvisor, Inc.  
TrueBlue, Inc.  
TSR, Inc.  
TTEC Holdings, Inc.  
Tucows Inc.  
Tyler Technologies, Inc.  
United Rentals, Inc.  
Verint Systems Inc.  
Viad Corp  
Virtusa Corporation  
VMware, Inc.  
Web.com Group, Inc.  
WEX Inc.  
Worldpay, Inc.  
XO Group Inc.  
Zix Corporation

### SIC 735

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Air Lease Corporation  
CAI International, Inc.  
McGrath RentCorp  
Mobile Mini, Inc.  
United Rentals, Inc.

### SIC 736

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AMN Healthcare Services, Inc.  
ASGN Incorporated  
Barrett Business Services, Inc.  
DHI Group, Inc.  
Insperty, Inc.  
Kelly Services, Inc.  
Kforce Inc.  
ManpowerGroup Inc.  
RCM Technologies, Inc.  
Robert Half International Inc.  
TrueBlue, Inc.

### SIC 7363

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ASGN Incorporated  
Barrett Business Services, Inc.  
Insperty, Inc.  
Kelly Services, Inc.  
Kforce Inc.  
ManpowerGroup Inc.  
Robert Half International

Inc.  
TrueBlue, Inc.

### SIC 737

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ACI Worldwide, Inc.  
Activision Blizzard, Inc.  
Acxiom Corporation  
Adobe Systems Incorporated  
Akamai Technologies, Inc.  
Alphabet Inc.  
American Software, Inc.  
ANSYS, Inc.  
Aspen Technology, Inc.  
athenahealth, Inc.  
Aware, Inc.  
Blackbaud, Inc.  
Booking Holdings Inc.  
Booz Allen Hamilton Holding Corporation  
Broadridge Financial Solutions, Inc.  
CA, Inc.  
CACI International Inc  
Cadence Design Systems, Inc.  
Cerner Corporation  
Citrix Systems, Inc.  
Cognizant Technology Solutions Corporation  
Commvault Systems, Inc.  
Computer Programs and Systems, Inc.  
CoreLogic, Inc.  
CoStar Group, Inc.  
CSG Systems International, Inc.  
CSP Inc.  
Cynergistek, Inc.  
DXC Technology Company  
eBay Inc.  
Ebix, Inc.  
Edgewater Technology, Inc.  
Electronic Arts Inc.  
Ellie Mae, Inc.  
EPAM Systems, Inc.  
EVERTEC, Inc.  
Evolving Systems, Inc.  
F5 Networks, Inc.  
Facebook, Inc.  
FactSet Research Systems Inc.  
Fair Isaac Corporation  
Fidelity National Information Services, Inc.  
Fiserv, Inc.  
FleetCor Technologies, Inc.  
Global Payments Inc.  
Guidewire Software, Inc.  
HealthStream, Inc.  
IAC/InterActiveCorp

Information Services Group, Inc.  
International Business Machines Corporation  
Intuit Inc.  
Inuvo, Inc.  
Issuer Direct Corporation  
j2 Global, Inc.  
Jack Henry & Associates, Inc.  
Leidos Holdings, Inc.  
LogMeIn, Inc.  
MAM Software Group, Inc.  
Manhattan Associates, Inc.  
ManTech International Corporation  
Medidata Solutions, Inc.  
MercadoLibre, Inc.  
Microsoft Corporation  
MicroStrategy Incorporated  
Monotype Imaging Holdings Inc.  
Morningstar, Inc.  
Nam Dinh Educational Book and Equipment JSC  
National Instruments Corporation  
Net 1 UEPS Technologies, Inc.  
NetScout Systems, Inc.  
NIC Inc.  
Omniceil, Inc.  
Oracle Corporation  
Pegasystems Inc.  
Perficient, Inc.  
Progress Software Corporation  
PTC Inc.  
Quality Systems, Inc.  
Qualys, Inc.  
RealPage, Inc.  
Red Hat, Inc.  
Reis, Inc.  
Shutterstock, Inc.  
SilverSun Technologies, Inc.  
SPS Commerce, Inc.  
SS&C Technologies Holdings, Inc.  
Stamps.com Inc.  
Sykes Enterprises, Incorporated  
Symantec Corporation  
Synopsys, Inc.  
Take-Two Interactive Software, Inc.  
TechTarget, Inc.  
Teradata Corporation  
The Ultimate Software Group, Inc.  
Travelzoo  
TripAdvisor, Inc.  
TSR, Inc.

## Appendix A: Companies (Main Set) in Each Industry, by SIC Code

Tucows Inc.  
Tyler Technologies, Inc.  
Verint Systems Inc.  
Virtusa Corporation  
VMware, Inc.  
Web.com Group, Inc.  
WEX Inc.  
Worldpay, Inc.  
XO Group Inc.  
Zix Corporation

Inc.  
Leidos Holdings, Inc.  
Manhattan Associates, Inc.  
ManTech International Corporation  
Medidata Solutions, Inc.  
NetScout Systems, Inc.  
Omnicell, Inc.  
Quality Systems, Inc.  
Tyler Technologies, Inc.  
Verint Systems Inc.  
VMware, Inc.

Green Dot Corporation  
KAR Auction Services, Inc.  
National Research Corporation  
Sotheby's  
SPAR Group, Inc.  
Total System Services, Inc.  
TTEC Holdings, Inc.  
Viad Corp

### SIC 7372

Activision Blizzard, Inc.  
Adobe Systems Incorporated  
American Software, Inc.  
ANSYS, Inc.  
Aspen Technology, Inc.  
Aware, Inc.  
CA, Inc.  
Cadence Design Systems, Inc.  
Citrix Systems, Inc.  
Commvault Systems, Inc.  
Ebiz, Inc.  
Electronic Arts Inc.  
Ellie Mae, Inc.  
EPAM Systems, Inc.  
Guidewire Software, Inc.  
Intuit Inc.  
Microsoft Corporation  
MicroStrategy Incorporated  
Monotype Imaging Holdings Inc.  
National Instruments Corporation  
Oracle Corporation  
Pegasystems Inc.  
PTC Inc.  
Qualys, Inc.  
RealPage, Inc.  
Red Hat, Inc.  
SS&C Technologies Holdings, Inc.  
Symantec Corporation  
Synopsys, Inc.  
Take-Two Interactive Software, Inc.  
The Ultimate Software Group, Inc.

### SIC 7373

Broadridge Financial Solutions, Inc.  
CACI International Inc  
Cerner Corporation  
Computer Programs and Systems, Inc.  
CSP Inc.  
F5 Networks, Inc.  
Fair Isaac Corporation  
Jack Henry & Associates,

### SIC 7374

Axiom Corporation  
CoreLogic, Inc.  
CSG Systems International, Inc.  
Cynergistek, Inc.  
Fidelity National Information Services, Inc.  
Fiserv, Inc.  
FleetCor Technologies, Inc.  
Global Payments Inc.  
Information Services Group, Inc.  
Nam Dinh Educational Book and Equipment JSC  
Net 1 UEPS Technologies, Inc.  
Sykes Enterprises, Incorporated  
WEX Inc.  
Worldpay, Inc.

### SIC 738

ARC Document Solutions, Inc.  
B. Riley Financial, Inc.  
Cass Information Systems, Inc.  
Collectors Universe Inc.  
Convergys Corporation  
Green Dot Corporation  
KAR Auction Services, Inc.  
National Research Corporation  
Sotheby's  
SPAR Group, Inc.  
The Brink's Company  
Total System Services, Inc.  
TTEC Holdings, Inc.  
Viad Corp

### SIC 7389

ARC Document Solutions, Inc.  
B. Riley Financial, Inc.  
Cass Information Systems, Inc.  
Collectors Universe Inc.  
Convergys Corporation

### SIC 79

Bowl America Incorporated  
Boyd Gaming Corporation  
Canterbury Park Holding Corporation  
Cedar Fair, L.P.  
Century Casinos, Inc.  
Churchill Downs Incorporated  
Dover Downs Gaming & Entertainment, Inc.  
Dover Motorsports, Inc.  
Golden Entertainment, Inc.  
International Speedway Corporation  
Las Vegas Sands Corp.  
MGM Resorts International  
Monarch Casino & Resort, Inc.  
Nevada Gold & Casinos, Inc.  
SeaWorld Entertainment, Inc.  
Six Flags Entertainment Corporation  
Speedway Motorsports, Inc.  
Vail Resorts, Inc.  
Wilhelmina International, Inc.  
Wynn Resorts, Limited

### SIC 799

Boyd Gaming Corporation  
Cedar Fair, L.P.  
Century Casinos, Inc.  
Dover Downs Gaming & Entertainment, Inc.  
Golden Entertainment, Inc.  
Las Vegas Sands Corp.  
MGM Resorts International  
Monarch Casino & Resort, Inc.  
Nevada Gold & Casinos, Inc.  
SeaWorld Entertainment, Inc.  
Six Flags Entertainment Corporation  
Vail Resorts, Inc.  
Wynn Resorts, Limited

### SIC 8

Acadia Healthcare Company, Inc.  
Addus HomeCare

## Appendix A: Companies (Main Set) in Each Industry, by SIC Code

Corporation  
 Adtalem Global Education Inc.  
 Almost Family, Inc.  
 American Public Education, Inc.  
 Argan, Inc.  
 BioTelemetry, Inc.  
 Bright Horizons Family Solutions Inc.  
 Capella Education Company  
 DaVita Inc.  
 Digirad Corporation  
 DLH Holdings Corp.  
 Ecology & Environment, Inc.  
 Encompass Health Corporation  
 Envision Healthcare Corporation  
 Exponent, Inc.  
 Fonar Corporation  
 Forrester Research, Inc.  
 Franklin Covey Co.  
 Gartner, Inc.  
 GP Strategies Corporation  
 Grand Canyon Education, Inc.  
 Huron Consulting Group Inc.  
 ICF International, Inc.  
 K12 Inc.  
 Laboratory Corporation of America Holdings  
 LHC Group, Inc.  
 LifePoint Health, Inc.  
 Magellan Health, Inc.  
 MAXIMUS, Inc.  
 MEDNAX, Inc.  
 Mistras Group, Inc.  
 National American University Holdings, Inc.  
 National HealthCare Corporation  
 Navigant Consulting, Inc.  
 NV5 Global, Inc.  
 Paychex, Inc.  
 PRGX Global, Inc.  
 Quest Diagnostics Incorporated  
 RadNet, Inc.  
 Resources Connection, Inc.  
 Select Medical Holdings Corporation  
 Strayer Education, Inc.  
 Tetra Tech, Inc.  
 The Ensign Group, Inc.  
 The Hackett Group, Inc.  
 Tivity Health, Inc.  
 U.S. Physical Therapy, Inc.  
 Universal Health Services, Inc.  
 Willdan Group, Inc.

### SIC 80

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Acadia Healthcare Company, Inc.  
 Addus HomeCare Corporation  
 Almost Family, Inc.  
 BioTelemetry, Inc.  
 DaVita Inc.  
 Digirad Corporation  
 DLH Holdings Corp.  
 Encompass Health Corporation  
 Envision Healthcare Corporation  
 Fonar Corporation  
 LHC Group, Inc.  
 LifePoint Health, Inc.  
 MEDNAX, Inc.  
 National HealthCare Corporation  
 Quest Diagnostics Incorporated  
 RadNet, Inc.  
 Select Medical Holdings Corporation  
 The Ensign Group, Inc.  
 Tivity Health, Inc.  
 U.S. Physical Therapy, Inc.  
 Universal Health Services, Inc.

### SIC 82

---

Adtalem Global Education Inc.  
 American Public Education, Inc.  
 Capella Education Company  
 Franklin Covey Co.  
 GP Strategies Corporation  
 Grand Canyon Education, Inc.  
 K12 Inc.  
 National American University Holdings, Inc.  
 Strayer Education, Inc.

### SIC 87

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Argan, Inc.  
 Ecology & Environment, Inc.  
 Exponent, Inc.  
 Forrester Research, Inc.  
 Gartner, Inc.  
 Huron Consulting Group Inc.  
 ICF International, Inc.  
 Magellan Health, Inc.  
 MAXIMUS, Inc.  
 Mistras Group, Inc.  
 Navigant Consulting, Inc.  
 NV5 Global, Inc.  
 Paychex, Inc.  
 PRGX Global, Inc.

Resources Connection, Inc.  
 Tetra Tech, Inc.  
 The Hackett Group, Inc.  
 Willdan Group, Inc.

### SIC 871

---

Argan, Inc.  
 Ecology & Environment, Inc.  
 Mistras Group, Inc.  
 NV5 Global, Inc.  
 Tetra Tech, Inc.  
 Willdan Group, Inc.

### SIC 874

---

Exponent, Inc.  
 Huron Consulting Group Inc.  
 ICF International, Inc.  
 Magellan Health, Inc.  
 MAXIMUS, Inc.  
 Navigant Consulting, Inc.  
 The Hackett Group, Inc.

### SIC 8742

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Exponent, Inc.  
 Huron Consulting Group Inc.  
 ICF International, Inc.  
 Navigant Consulting, Inc.  
 The Hackett Group, Inc.

## Appendix B:

# SIC Codes in which Companies (Main Set) are Included

Appendix B is a list of the SIC codes in which each of the companies in the Main Set of companies are included in the *2018 Valuation Handbook – U.S. Industry Cost of Capital* (data through March 2018).





Appendix B: SIC Codes in which Companies (Main Set) are Included

Annaly Capital Management, Inc.	NLY	6	67	6798				
ANSYS, Inc.	ANSS	7	73	737	7372			
Anthem, Inc.	ANTM	6	63	632	6324			
Anworth Mortgage Asset Corporation	ANH	6	67		6798			
Apartment Investment and Management Company	AIV	6	67		6798			
Apogee Enterprises, Inc.	APOG	3						
Apollo Commercial Real Estate Finance, Inc.	ARI	6	67		6798			
Apollo Global Management, LLC	APO	6	62	628				
Apollo Investment Corporation	AINV	6	67					
Apple Inc.	AAPL	3	36	366	3663			
Applied Industrial Technologies, Inc.	AIT	5	50	508				
Applied Materials, Inc.	AMAT	3	35	355	3559			
AptarGroup, Inc.	ATR	3	30	308				
Aqua America, Inc.	WTR	4	49	494				
Arbor Realty Trust, Inc.	ABR	6	67		6798			
ARC Document Solutions, Inc.	ARC	7	73	738	7389			
ArcBest Corporation	ARCB	4	42		4213			
Archer-Daniels-Midland Company	ADM	2	20					
Archrock Partners, L.P.	APLP	1	13					
Ares Capital Corporation	ARCC	6	67					
Ares Commercial Real Estate Corporation	ACRE	6	67		6798			
Argan, Inc.	AGX	8	87	871				
Ark Restaurants Corp.	ARKR	5	58		5812			
Armstrong World Industries, Inc.	AWI	3	32					
Arrow Electronics, Inc.	ARW	5	50					
Arrow Financial Corporation	AROW	6	60	602				
Artesian Resources Corporation	ARTNA	4	49	494				
Arthur J. Gallagher & Co.	AJG	6	64					
Artisan Partners Asset Management Inc.	APAM	6	62	628				
Art's-Way Manufacturing Co., Inc.	ARTW	3	35					
Asbury Automotive Group, Inc.	ABG	5	55					
ASGN Incorporated	ASGN	7	73	736	7363			
Ashland Global Holdings Inc.	ASH	2	28					
Aspen Technology, Inc.	AZPN	7	73	737	7372			
Associated Banc-Corp	ASB	6	60	602				
Assurant, Inc.	AIZ	6	63					
Astec Industries, Inc.	ASTE	3	35	353				
Astronics Corporation	ATRO	3	36					
AstroNova, Inc.	ALOT	3						
AT&T Inc.	T	4	48					
athenahealth, Inc.	ATHN	7	73	737				
Atlantic American Corporation	AAME	6	63					
Atlantic Coast Financial Corporation	ACFC	6	60	603	6035			
Atlas Air Worldwide Holdings, Inc.	AAWW	4	45					
Atmos Energy Corporation	ATO	4	49	492	4924			
ATN International, Inc.	ATNI	4	48	481				
Atrion Corporation	ATRI	3	38	384	3841			
Auburn National Bancorporation, Inc.	AUBN	6	60	602				
Autoliv, Inc.	ALV	3	37	371	3714			
AutoNation, Inc.	AN	5	55					
AV Homes, Inc.	AVHI	1	15					
AvalonBay Communities, Inc.	AVB	6	67		6798			
Avery Dennison Corporation	AVY	2	26	267				
Avis Budget Group, Inc.	CAR	7						
Avista Corporation	AVA	4	49	493				
Avnet, Inc.	AVT	5	50	506				
AVX Corporation	AVX	3	36	367				
Aware, Inc.	AWRE	7	73	737	7372			
Axcelis Technologies, Inc.	ACLS	3	35	355	3559			
Axon Enterprise, Inc.	AAXN	3	34					
B&G Foods, Inc.	BGS	2	20	203				
B. Riley Financial, Inc.	RILY	7	73	738	7389			
Badger Meter, Inc.	BMI	3	38	382				
Balchem Corporation	BCPC	2	28	283	2834			
Baldwin & Lyons, Inc.	BWINB	6	63	633				
Ball Corporation	BLL	3	34					
Banc of California, Inc.	BANC	6	60	603	6035			
BancFirst Corporation	BANF	6	60	602				
Bancorp Of New Jersey, Inc.	BKJ	6	60	602				
BancorpSouth Bank	BXS	6	60	602				
Bank of America Corporation	BAC	6	60	602				
Bank of Commerce Holdings	BOCH	6	60	602				
Bank of Hawaii Corporation	BOH	6	60	602				
Bank of Marin Bancorp	BMRC	6	60	602				
Bank of South Carolina Corporation	BKSC	6	60	602				
Bank of the James Financial Group, Inc.	BOTJ	6	60	602				
Bank of the Ozarks	OZRK	6	60	602				
BankFinancial Corporation	BFIN	6	60	603	6036			
BankUnited, Inc.	BKU	6	60	602				
Bankwell Financial Group, Inc.	BWFG	6	60	602				
Banner Corporation	BANR	6	60	602				
Bar Harbor Bankshares	BHB	6	60	602				
Barnes Group Inc.	B	3						
Barrett Business Services, Inc.	BBSI	7	73	736	7363			
Bassett Furniture Industries, Incorporated	BSET	2	25	251				
Baxter International Inc.	BAX	2	28	283	2834			
Bay Bancorp, Inc.	BYBK	6	60	603	6035			
BB&T Corporation	BBT	6	60	602				
BBX Capital Corporation	BBX	6	60	603	6035			
BCB Bancorp, Inc.	BCBP	6	60	602				
Beacon Roofing Supply, Inc.	BECN	5	50					
Bear State Financial, Inc.	BSF	6	60	603	6035			
Beasley Broadcast Group, Inc.	BBGI	4	48	483				
Beazer Homes USA, Inc.	BZH	1	15					
Becton, Dickinson and Company	BDX	3	38					
Bed Bath & Beyond Inc.	BBBY	5	57					
Belden Inc.	BDC	3	36	367				
Bemis Company, Inc.	BMS	2	26	267				
Benchmark Electronics, Inc.	BHE	3	36	367	3672			
Beneficial Bancorp, Inc.	BNCL	6	60	603	6035			
Berkshire Hills Bancorp, Inc.	BHLB	6	60	602				
Best Buy Co., Inc.	BBY	5	57					
BGC Partners, Inc.	BGCP	6	62	621				
Big 5 Sporting Goods Corporation	BGFV	5	59	594				
Big Lots, Inc.	BIG	5	53	533				
Biglari Holdings Inc.	BH	5	58		5812			
Biogen Inc.	BIIB	2	28	283	2836			
Bio-Rad Laboratories, Inc.	BIO	3	38	382	3826			
BioSpecifics Technologies Corp.	BSTC	2	28	283	2834			
Bio-Techne Corporation	TECH	2	28	283				
BioTelemetry, Inc.	BEAT	8	80					
BJ's Restaurants, Inc.	BJRI	5	58		5812			
Black Hills Corporation	BKH	4	49					
Blackbaud, Inc.	BLKB	7	73	737				
BlackRock Capital Investment	BKCC	6	67					

Appendix B: SIC Codes in which Companies (Main Set) are Included

Corporation									
BlackRock, Inc.	BLK	6	62	628					
Blackstone Mortgage Trust, Inc.	BXMT	6	67		6798				
Bloomin' Brands, Inc.	BLMN	5	58		5812				
Boardwalk Pipeline Partners, LP	BWP	4	49	492	4922				
BofI Holding, Inc.	BOFI	6	60	603	6035				
Boise Cascade Company	BCC	5	50						
BOK Financial Corporation	BOKF	6	60	602					
Booking Holdings Inc.	BKNG	7	73	737					
Booz Allen Hamilton Holding Corporation	BAH	7	73	737					
BorgWarner Inc.	BWA	3	37	371	3714				
Boston Private Financial Holdings, Inc.	BPFH	6	60	602					
Boston Properties, Inc.	BXP	6	67		6798				
Bowl America Incorporated	BWL.A	7	79						
Boyd Gaming Corporation	BYD	7	79	799					
BP Prudhoe Bay Royalty Trust	BPT	6	67						
Brandywine Realty Trust	BDN	6	67		6798				
Bridge Bancorp, Inc.	BDGE	6	60	602					
Bridgford Foods Corporation	BRID	2	20	201					
Briggs & Stratton Corporation	BGG	3	35						
Bright Horizons Family Solutions Inc.	BFAM	8							
Brinker International, Inc.	EAT	5	58		5812				
Bristol-Myers Squibb Company	BMJ	2	28	283	2834				
Bristow Group Inc.	BRS	4	45						
Broadridge Financial Solutions, Inc.	BR	7	73	737	7373				
Broadway Financial Corporation	BYFC	6	60	603	6035				
Brookline Bancorp, Inc.	BRKL	6	60	603	6035				
Brooks Automation, Inc.	BRKS	3	35	355	3559				
Brown & Brown, Inc.	BRO	6	64						
Brown-Forman Corporation	BF.B	2	20	208					
Bruker Corporation	BRKR	3	38	382	3826				
Brunswick Corporation	BC	3							
Bryn Mawr Bank Corporation	BMTC	6	60	602					
BSB Bancorp, Inc.	BLMT	6	60	603	6035				
BSQUARE Corporation	BSQR	5	50	504	5045				
Buckeye Partners, L.P.	BPL	4	46						
Build-A-Bear Workshop, Inc.	BBW	5	59	594					
Builders FirstSource, Inc.	BLDR	2	24						
BWX Technologies, Inc.	BWXT	3	34	344					
C&F Financial Corporation	CFFI	6	60	602					
C.H. Robinson Worldwide, Inc.	CHRW	4							
CA, Inc.	CA	7	73	737	7372				
Cabot Corporation	CBT	2	28	289					
Cabot Microelectronics Corporation	CCMP	2	28	289					
CACI International Inc	CACI	7	73	737	7373				
Cadence Design Systems, Inc.	CDNS	7	73	737	7372				
CAI International, Inc.	CAI	7	73	735					
CalAmp Corp.	CAMP	3	36	366	3663				
California Water Service Group	CWT	4	49	494					
Callaway Golf Company	ELY	3	39	394					
Cal-Maine Foods, Inc.	CALM	2	20						
Cambrex Corporation	CBM	2	28	283					
Cambridge Bancorp	CATC	6	60	602					
Camden National Corporation	CAC	6	60	602					
Camden Property Trust	CPT	6	67		6798				
Campbell Soup Company	CPB	2	20						
Cantel Medical Corp.	CMD	3							
Canterbury Park Holding Corporation	CPHC	7	79						
Capella Education Company	CPLA	8	82						
Capital City Bank Group, Inc.	CCBG	6	60	602					
Capital One Financial Corporation	COF	6							
Capital Southwest Corporation	CSWC	6	67						
Capitol Federal Financial, Inc.	CFFN	6	60	603	6035				
Cardinal Health, Inc.	CAH	5	51	512					
CarMax Inc.	KMX	5	55						
Carolina Trust BancShares, Inc.	CART	6	60	602					
Carpenter Technology Corporation	CRS	3	33	331					
Carriage Services, Inc.	CSV	7							
Carter's, Inc.	CRI	2	23						
Casey's General Stores, Inc.	CASY	5	54	541					
Cass Information Systems, Inc.	CASS	7	73	738	7389				
Caterpillar Inc.	CAT	3							
Cathay General Bancorp	CATY	6	60	602					
Cavco Industries, Inc.	CVCO	2	24						
CB Financial Services, Inc.	CBFV	6	60	602					
Cboe Global Markets, Inc.	CBOE	6	62						
CBRE Group, Inc.	CBRE	6	65						
CBS Corporation	CBS	4	48						
Cedar Fair, L.P.	FUN	7	79	799					
Celanese Corporation	CE	2	28						
Celgene Corporation	CELG	2	28	283	2834				
Cemtrex, Inc.	CETX	3							
Centene Corporation	CNC	6	63	632	6324				
CenterPoint Energy, Inc.	CNP	4	49						
CenterState Bank Corporation	CSFL	6	60	602					
Central Federal Corporation	CFBK	6	60	603	6035				
Central Garden & Pet Company	CENTA	5	51						
Central Pacific Financial Corp.	CPF	6	60	602					
Central Pattana Public Company Limited	CPN	4	49						
Central Valley Community Bancorp	CVCY	6	60	602					
Century Bancorp, Inc.	CNBKA	6	60	602					
Century Casinos, Inc.	CNTY	7	79	799					
CenturyLink, Inc.	CTL	4	48	481	4813				
Cerner Corporation	CERN	7	73	737	7373				
CEVA, Inc.	CEVA	6	67		6794				
CF Industries Holdings, Inc.	CF	2	28	287					
Chart Industries, Inc.	GTLS	3	34	344					
Charter Communications, Inc.	CHTR	4	48						
Charter Financial Corporation	CHFN	6	60	603	6035				
Chase Corporation	CCF	2	28	289					
Chatham Lodging Trust	CLDT	6	67		6798				
Chemical Financial Corporation	CHFC	6	60	602					
Chemung Financial Corporation	CHMG	6	60	602					
Cherokee Inc.	CHKE	6	67		6794				
Chesapeake Lodging Trust	CHSP	6	67		6798				
Chesapeake Utilities Corporation	CPK	4	49	492					
Chevron Corporation	CVX	2	29	291					
Chicago Rivet & Machine Co.	CVR	3	34						
Chico's FAS, Inc.	CHS	5	56						
China Auto Logistics Inc.	CALI	5	50						
China Automotive Systems, Inc.	CAAS	3	37	371	3714				
China HGS Real Estate Inc.	HGSH	6	65	655					
China XD Plastics Company Limited	CXDC	2	28						
Chipotle Mexican Grill, Inc.	CMG	5	58		5812				
Church & Dwight Co., Inc.	CHD	2	28	284					
Churchill Downs Incorporated	CHDN	7	79						
Chuy's Holdings, Inc.	CHUY	5	58		5812				

Appendix B: SIC Codes in which Companies (Main Set) are Included

Ciena Corporation	CIEN	3	36	366	
Cigna Corporation	CI	6	63	632	6324
Cincinnati Financial Corporation	CINF	6	63	633	
Cinemark Holdings, Inc.	CNK	7			
Cintas Corporation	CTAS	2	23		
CIRCOR International, Inc.	CIR	3	34	349	
Cirrus Logic, Inc.	CRUS	3	36	367	3674
Cisco Systems, Inc.	CSCO	3	35	357	
CIT Group Inc.	CIT	6	61		
Citi Trends, Inc.	CTRN	5	56	565	
Citigroup Inc.	C	6			
Citizens & Northern Corporation	CZNC	6	60	602	
Citizens Community Bancorp, Inc.	CZWI	6	60	603	6035
Citizens Financial Services Inc.	3CZFS	6	60	602	
Citizens First Corporation	CZFC	6	60	602	
Citizens Holding Company	CIZN	6	60	602	
Citizens, Inc.	CIA	6	63	631	
Citrix Systems, Inc.	CTXS	7	73	737	7372
City Holding Company	CHCO	6	60	602	
Civista Bancshares, Inc.	CIVB	6	60	602	
Clean Harbors, Inc.	CLH	4	49	495	
Clearfield, Inc.	CLFD	3	36	367	3679
ClearOne, Inc.	CLRO	3	36	366	3663
Clearwater Paper Corporation	CLW	2	26		
Clifton Bancorp Inc.	CSBK	6	60	603	6035
CME Group Inc.	CME	6	62		
CMS Energy Corporation	CMS	4	49		
CNA Financial Corporation	CNA	6	63	633	
CNB Financial Corporation	CCNE	6	60	602	
CNO Financial Group, Inc.	CNO	6	63	632	
CoBiz Financial Inc.	COBZ	6	60	602	
Coca-Cola Bottling Co. Consolidated	COKE	2	20	208	2086
Coda Octopus Group, Inc.	CODA	3	38		
Codorus Valley Bancorp, Inc.	CVLY	6	60	602	
Coffee Holding Co., Inc.	JVA	5	51	514	
Cogent Communications Holdings, Inc.	CCOI	4	48	481	4813
Cognex Corporation	CGNX	3	38	382	
Cognizant Technology Solutions Corporation	CTSH	7	73	737	
Cohen & Steers, Inc.	CNS	6	62	628	
Coherent, Inc.	COHR	3	38	382	3826
Cohu, Inc.	COHU	3	38	382	3825
Colfax Corporation	CFX	3	35		
Colgate-Palmolive Company	CL	2	28	284	
Collectors Universe Inc.	CLCT	7	73	738	7389
Colony Bankcorp, Inc.	CBAN	6	60	602	
Colony NorthStar, Inc.	CLNS	6	67		6798
Columbia Banking System, Inc.	COLB	6	60	602	
Columbia Sportswear Company	COLM	2	23		
Columbus McKinnon Corporation	CMCO	3	35	353	
Comerica Incorporated	CMA	6	60	602	
Comfort Systems USA, Inc.	FIX	1			
Commerce Bancshares, Inc.	CBSH	6	60	602	
Commercial Vehicle Group, Inc.	CVGI	3	37	371	3714
Community Bank System, Inc.	CBU	6	60	602	
Community Bankers Trust Corporation	ESXB	6	60	602	
Community Trust Bancorp, Inc.	CTBI	6	60	602	
Community West Bancshares	CWBC	6	60	602	
Commvault Systems, Inc.	CVLT	7	73	737	7372
Compass Minerals International, Inc.	CMP	1	14		
Computacenter plc	CCC	2	28	281	
Computer Programs and Systems, Inc.	CPSI	7	73	737	7373
CompX International Inc.	CIX	3	34	342	
Comtech Telecommunications Corp.	CMTL	3	36	366	3663
Conagra Brands, Inc.	CAG	2	20		
CONMED Corporation	CNMD	3	38	384	3845
Connecticut Water Service, Inc.	CTWS	4	49	494	
ConnectOne Bancorp, Inc.	CNOB	6	60	602	
Conn's, Inc.	CONN	5	57		
ConocoPhillips	COP	1	13	131	
Consolidated Communications Holdings, Inc.	CNSL	4	48	481	4813
Consolidated Edison, Inc.	ED	4	49		
Consolidated-Tomoka Land Co.	CTO	6	65		
Constellation Brands, Inc.	STZ	2	20	208	
Continental Materials Corporation	CUO	3			
Continental Resources, Inc.	CLR	1	13	131	
Convergys Corporation	CVG	7	73	738	7389
Cooper Tire & Rubber Company	CTB	3	30		
Cooper-Standard Holdings Inc.	CPS	3	37	371	3714
Copart, Inc.	CPRT	5	50		
Core Molding Technologies, Inc.	CMT	3	30	308	
CoreCivic, Inc.	CXW	6	67		6798
CoreLogic, Inc.	CLGX	7	73	737	7374
Core-Mark Holding Company, Inc.	CORE	5	51		
CorEnergy Infrastructure Trust, Inc.	CORR	6	67		6798
CoreSite Realty Corporation	COR	6	67		6798
Corning Incorporated	GLW	3			
Corporate Office Properties Trust	OFC	6	67		6798
CorVel Corporation	CRVL	6	64		
CoStar Group, Inc.	CSGP	7	73	737	
Costco Wholesale Corporation	COST	5	53		
Cousins Properties Incorporated	CUZ	6	67		6798
Covanta Holding Corporation	CVA	4	49	495	
Covenant Transportation Group, Inc.	CVTI	4	42		4213
Cowen Inc.	COWN	6	62	628	
Cracker Barrel Old Country Store, Inc.	CBRL	5	58		5812
Craft Brew Alliance, Inc.	BREW	2	20	208	
Crane Co.	CR	3			
Crawford & Company	CRD.A	6	64		
Credit Acceptance Corporation	CACC	6	61	614	
Cree, Inc.	CREE	3	36	367	3674
Cross Timbers Royalty Trust	CRT	6	67		
CrossAmerica Partners LP	CAPL	5	51	517	5172
Crown Castle International Corp. (REIT)	CCI	6	67		6798
Crown Crafts, Inc.	CRWS	2			
Crown Holdings, Inc.	CCK	3	34		
Crystal Rock Holdings, Inc.	CRVP	2	20	208	2086
CSB Bancorp Inc.	3CSBB	6	60	602	
CSG Systems International, Inc.	CSGS	7	73	737	7374
CSP Inc.	CSPI	7	73	737	7373
CSS Industries, Inc.	CSS	2	26	267	
CSX Corporation	CSX	4	40		
CTI Industries Corporation	CTIB	3	30		
CTS Corporation	CTS	3	36	367	
CubeSmart	CUBE	6	67		6798

Appendix B: SIC Codes in which Companies (Main Set) are Included

Cullen/Frost Bankers, Inc.	CFR	6	60	602		Douglas Emmett, Inc.	DEI	6	67	6798
Culp, Inc.	CULP	2				Dover Corporation	DOV	3	35	
Cumberland Pharmaceuticals Inc.	CPIX	2	28	283	2834	Dover Downs Gaming & Entertainment, Inc.	DDE	7	79	799
Curtiss-Wright Corporation	CW	3				Dover Motorsports, Inc.	DVD	7	79	
Customers Bancorp, Inc.	CUBI	6	60	602		DowDuPont Inc.	DWDP	2	28	
CVB Financial Corp.	CVBF	6	60	602		Dr Pepper Snapple Group, Inc.	DPS	2	20	208 2086
CVD Equipment Corporation	CVV	3	35	355	3559	Dril-Quip, Inc.	DRQ	3	35	353 3533
CVR Energy, Inc.	CVI	2	29	291		DTE Energy Company	DTE	4	49	493
CVR Partners, LP	UAN	2	28	287		Duke Energy Corporation	DUK	4	49	493
CVR Refining, LP	CVRR	2	29	291		Duke Realty Corporation	DRE	6	67	6798
CVS Health Corporation	CVS	5	59			Dunkin' Brands Group, Inc.	DNKN	5	58	5812
Cynergistek, Inc.	CTEK	7	73	737	7374	DXC Technology Company	DXC	7	73	737
CYS Investments, Inc.	CYS	6	67		6798	DXP Enterprises, Inc.	DXPE	5	50	508
D.R. Horton, Inc.	DHI	1	15			Dycom Industries, Inc.	DY	1	16	162
Daktronics, Inc.	DAKT	3	39			E*TRADE Financial Corporation	ETFC	6	62	621
Dana Incorporated	DAN	3	37	371	3714	Eagle Bancorp Montana, Inc.	EBMT	6	60	603 6035
Danaher Corporation	DHR	3	38			Eagle Bancorp, Inc.	EGBN	6	60	602
Darden Restaurants, Inc.	DRI	5	58		5812	Eagle Materials Inc.	EXP	3	32	
Darling Ingredients Inc.	DAR	2	20			East West Bancorp, Inc.	EWBC	6	60	602
Data I/O Corporation	DAIO	3	38	382	3825	EastGroup Properties, Inc.	EGP	6	67	6798
DaVita Inc.	DVA	8	80			Eastman Chemical Company	EMN	2	28	
DCP Midstream, LP	DCP	1	13	131		Eaton Vance Corp.	EV	6	62	628
DCT Industrial Trust Inc.	DCT	6	67		6798	eBay Inc.	EBAY	7	73	737
Dean Foods Company	DF	2	20			Ebix, Inc.	EBIX	7	73	737 7372
Deere & Company	DE	3	35			Echo Global Logistics, Inc.	ECHO	4	47	473
Del Frisco's Restaurant Group, Inc.	DFRG	5	58		5812	EchoStar Corporation	SATS	3	36	366 3663
Delek US Holdings, Inc.	DK	2	29	291		Ecology & Environment, Inc.	EEI	8	87	871
Delta Air Lines, Inc.	DAL	4	45	451	4512	Edgewater Technology, Inc.	EDGW	7	73	737
Delta Apparel, Inc.	DLA	2	23			Edison International	EIX	4	49	491
Deluxe Corporation	DLX	2	27			Education Realty Trust, Inc.	EDR	6	67	6798
Denny's Corporation	DENN	5	58		5812	Educational Development Corporation	EDUC	5	51	
Destination Maternity Corporation	DEST	5	56			Edwards Lifesciences Corporation	EW	3	38	384
DHI Group, Inc.	DHX	7	73	736		El Paso Electric Company	EE	4	49	491
Diamond Hill Investment Group, Inc.	DHIL	6	62	628		Electromed, Inc.	ELMD	3	38	384 3845
Diamond Offshore Drilling, Inc.	DO	1	13			Electronic Arts Inc.	EA	7	73	737 7372
Diamondback Energy, Inc.	FANG	1	13	131		Electronics for Imaging, Inc.	EFII	3	35	357
DiamondRock Hospitality Company	DRH	6	67		6798	Electro-Sensors, Inc.	ELSE	3	38	382
Dick's Sporting Goods, Inc.	DKS	5	59	594		Eli Lilly and Company	LLY	2	28	283 2834
Digi International Inc.	DGII	3	35	357		Ellie Mae, Inc.	ELLI	7	73	737 7372
Digirad Corporation	DRAD	8	80			Elmira Savings Bank	ESBK	6	60	603 6035
Digital Realty Trust, Inc.	DLR	6	67		6798	EMC Insurance Group Inc.	EMCI	6	63	633
Dillard's, Inc.	DDS	5	53			Emclaire Financial Corp.	EMCF	6	60	602
Dime Community Bancshares, Inc.	DCOM	6	60	603	6035	EMCOR Group, Inc.	EME	1		
Diodes Incorporated	DIOD	3	36	367	3674	Emergent BioSolutions Inc.	EBS	2	28	283 2836
Discover Financial Services	DFS	6	61	614		Emerson Electric Co.	EMR	3		
Discovery, Inc.	DISCA	4	48			Emerson Radio Corp.	MSN	3	36	
DISH Network Corporation	DISH	4	48			Employers Holdings, Inc.	EIG	6	63	633
DLH Holdings Corp.	DLHC	8	80			Enanta Pharmaceuticals, Inc.	ENTA	2	28	283 2836
DNB Financial Corporation	DNBF	6	60	602		Enbridge Energy Partners, L.P.	EEP	4	46	
Dolby Laboratories, Inc.	DLB	6	67		6794	Encompass Health Corporation	EHC	8	80	
Dollar General Corporation	DG	5	53	533		Encore Capital Group, Inc.	ECPG	6	61	
Dollar Tree, Inc.	DLTR	5	53	533		Encore Wire Corporation	WIRE	3	33	
Dominion Energy, Inc.	D	4	49	491		Energy Transfer Equity, L.P.	ETE	4	49	492 4922
Domtar Corporation	UFS	2	26	262		Energy Transfer Partners, L.P.	ETP	4	49	492 4922
Donaldson Company, Inc.	DCI	3				EnerSys	ENS	3	36	369
Donegal Group Inc.	DGICA	6	63	633		Ennis, Inc.	EBF	2	27	
Dorchester Minerals, L.P.	DMLP	6	67			EnPro Industries, Inc.	NPO	3		
Dorman Products, Inc.	DORM	3	37	371	3714	Entegris, Inc.	ENTG	3	35	355 3559
Douglas Dynamics, Inc.	PLOW	3	35	353		Entercom Communications Corp.	ETM	4	48	483

Appendix B: SIC Codes in which Companies (Main Set) are Included

Entergy Corporation	ETR	4	49	491					
Enterprise Bancorp, Inc.	EBTC	6	60	602					
Enterprise Financial Services Corp	EFSC	6	60	602					
Entravision Communications Corporation	EVC	4	48	483	4833				
EnviroStar, Inc.	EVI	5	50	508					
Envision Healthcare Corporation	EVHC	8	80						
EOG Resources, Inc.	EOG	1	13	131					
EPAM Systems, Inc.	EPAM	7	73	737	7372				
ePlus inc.	PLUS	5	50	504	5045				
EPR Properties	EPR	6	67		6798				
EQT Corporation	EQT	4	49	492					
EQT Midstream Partners, LP	EQM	4	49	492	4922				
Equifax Inc.	EFX	7	73						
Equinix, Inc. (REIT)	EQIX	6	67		6798				
Equity Commonwealth	EQC	6	67		6798				
Equity LifeStyle Properties, Inc.	ELS	6	67		6798				
Equity Residential	EQR	6	67		6798				
Era Group Inc.	ERA	4	45						
Erie Indemnity Company	ERIE	6	64						
Escalade, Incorporated	ESCA	3	39	394					
ESCO Technologies Inc.	ESE	3							
Espey Mfg. & Electronics Corp.	ESP	3	36	367	3679				
ESSA Bancorp, Inc.	ESSA	6	60	603	6036				
Essex Property Trust, Inc.	ESS	6	67		6798				
Esterline Technologies Corporation	ESL	3	38						
Ethan Allen Interiors Inc.	ETH	2	25	251					
Euronet Worldwide, Inc.	EEFT	6	60	609					
Evans Bancorp, Inc.	EVBN	6	60	602					
Evercore Inc.	EVR	6	62						
Ever-Glory International Group, Inc.	EVK	2	23						
Eversource Energy	ES	4	49	493					
EVERTEC, Inc.	EVTC	7	73	737					
Evolution Petroleum Corporation	EPM	1	13	131					
Evolving Systems, Inc.	EVOL	7	73	737					
Exelon Corporation	EXC	4	49	491					
Expedia Group, Inc.	EXPE	4	47						
Expeditors International of Washington, Inc.	EXPD	4	47	473					
Exponent, Inc.	EXPO	8	87	874	8742				
Express Scripts Holding Company	ESRX	5	59						
Express, Inc.	EXPR	5	56						
Extra Space Storage Inc.	EXR	6	67		6798				
Exxon Mobil Corporation	XOM	2	29	291					
EZCORP, Inc.	EZPW	5	59						
F.N.B. Corporation	FNB	6	60	602					
F5 Networks, Inc.	FFIV	7	73	737	7373				
Facebook, Inc.	FB	7	73	737					
FactSet Research Systems Inc.	FDS	7	73	737					
Fair Isaac Corporation	FICO	7	73	737	7373				
Famous Dave's of America, Inc.	DAVE	5	58		5812				
Farmer Bros. Co.	FARM	2	20						
Farmers & Merchants Bancorp, Inc.	FMAO	6	60	603	6035				
Farmers Capital Bank Corporation	FFKT	6	60	602					
Farmers National Banc Corp.	FMNB	6	60	602					
FARO Technologies, Inc.	FARO	3	38	382					
Fastenal Company	FAST	5	50						
Fauquier Bankshares, Inc.	FBSS	6	60	602					
FBL Financial Group, Inc.	FFG	6	63	631					
Federal Agricultural Mortgage Corporation	AGM	6	61						
Federal Realty Investment Trust	FRT	6	67		6798				
Federal Signal Corporation	FSS	3	37	371	3711				
Federated Investors, Inc.	FII	6	62	628					
Federated National Holding Company	FNHC	6	63	633					
FedEx Corporation	FDX	4							
Ferro Corporation	FOE	2	28						
Fidelity D & D Bancorp, Inc.	FDBC	6	60	602					
Fidelity National Financial, Inc.	FNF	6	63						
Fidelity National Information Services, Inc.	FIS	7	73	737	7374				
Fidelity Southern Corporation	LION	6	60	602					
Fidus Investment Corporation	FDUS	6	67						
Fiesta Restaurant Group, Inc.	FRGI	5	58		5812				
Fifth Third Bancorp	FITB	6	60	602					
Financial Engines, Inc.	FNGN	6	62	628					
Financial Institutions, Inc.	FISI	6	60	602					
Finisar Corporation	FNSR	3	35	357					
First American Financial Corporation	FAF	6	63						
First Bancorp	FBNC	6	60	602					
First Bancorp Indiana Inc.	3FBPI	6	60	602					
First BanCorp.	FBP	6	60	602					
First Bank	FRBA	6	60	602					
First Busey Corporation	BUSE	6	60	602					
First Business Financial Services, Inc.	FBIZ	6	60	602					
First Capital, Inc.	FCAP	6	60	603	6035				
First Citizens BancShares, Inc.	FCNCA	6	60	602					
First Commonwealth Financial Corporation	FCF	6	60	602					
First Community Bancshares, Inc.	FCBC	6	60	602					
First Community Corporation	FCCO	6	60	602					
First Connecticut Bancorp, Inc.	FBNK	6	60	603	6036				
First Defiance Financial Corp.	FDEF	6	60	603	6035				
First Financial Bancorp.	FFBC	6	60	602					
First Financial Bankshares, Inc.	FFIN	6	60	602					
First Financial Corporation	THFF	6	60	602					
First Financial Northwest, Inc.	FFNW	6	60	602					
First Horizon National Corporation	FHN	6	60	602					
First Industrial Realty Trust, Inc.	FR	6	67		6798				
First Internet Bancorp	INBK	6	60	602					
First Interstate BancSystem, Inc.	FIBK	6	60	602					
First Keystone Corp.	3FKYS	6	60	602					
First Merchants Corporation	FRME	6	60	602					
First Mid-Illinois Bancshares, Inc.	FMBH	6	60	602					
First Midwest Bancorp, Inc.	FMBI	6	60	602					
First Republic Bank	FRC	6	60	602					
First Savings Financial Group, Inc.	FSFG	6	60	603	6035				
First Solar, Inc.	FSLR	3	36	367	3674				
First United Corporation	FUNC	6	60	602					
First US Bancshares, Inc.	FUSB	6	60	602					
FirstCash, Inc.	FCFS	5	59						
Fiserv, Inc.	FISV	7	73	737	7374				
Five Below, Inc.	FIVE	5	53	533					
Flagstar Bancorp, Inc.	FBC	6	60	603	6035				
Flanigan's Enterprises, Inc.	BDL	5	58		5812				
FleetCor Technologies, Inc.	FLT	7	73	737	7374				
Flexible Solutions International Inc.	FSI	2	28	281					
Flexsteel Industries, Inc.	FLXS	2	25	251					
FLIR Systems, Inc.	FLIR	3	38						
Flotek Industries, Inc.	FTK	2	28	289					
Flowers Foods, Inc.	FLO	2	20						
Flowserve Corporation	FLS	3							

**Appendix B: SIC Codes in which Companies (Main Set) are Included**

Flushing Financial Corporation	FFIC	6	60	603	6035	GP Strategies Corporation	GPX	8	82		
FMC Corporation	FMC	2	28	287		Graco Inc.	GGG	3	35	356	
FNB Bancorp	FNBG	6	60	602		Graham Corporation	GHM	3	34	344	
FNBH Bancorp Inc.	3FNHM	6	60	602		Gramercy Property Trust	GPT	6	67		6798
FNCB Bancorp, Inc.	FNCB	6	60	602		Grand Canyon Education, Inc.	LOPE	8	82		
Fonar Corporation	FONR	8	80			Granite Construction Incorporated	GVA	1	16		
Foot Locker, Inc.	FL	5	56			Graphic Packaging Holding Company	GPX	2	26	265	
Ford Motor Company	F	3	37	371	3711	Gray Television, Inc.	GTN	4	48	483	4833
Forest City Realty Trust, Inc.	FCE.A	6	67		6798	Great Lakes Dredge & Dock Corporation	GLDD	1	16		
Forrester Research, Inc.	FORR	8	87			Great Plains Energy Incorporated	GXP	4	49	491	
Fortinet, Inc.	FTNT	3	35	357		Great Southern Bancorp, Inc.	GSBC	6	60	602	
Forum Energy Technologies, Inc.	FET	3	35	353	3533	Green Dot Corporation	GDOT	7	73	738	7389
Forward Air Corporation	FWRD	4	42			Green Plains Inc.	GPPE	2			
Fossil Group, Inc.	FOSL	3	38			Greene County Bancorp, Inc.	GCBC	6	60	603	6035
Francesca's Holdings Corporation	FRAN	5	56			Greenhill & Co., Inc.	GHL	6	62	628	
Franklin Covey Co.	FC	8	82			Greif, Inc.	GEF	2	26	265	
Franklin Electric Co., Inc.	FELE	3	36	362	3621	Griffin Industrial Realty, Inc.	GRIF	6	65		
Franklin Financial Network, Inc.	FSB	6	60	602		Griffon Corporation	GFF	3			
Franklin Resources, Inc.	BEN	6	62	628		Group 1 Automotive, Inc.	GPI	5	55		
Franklin Street Properties Corp.	FSP	6	67		6798	Guaranty Bancorp	GBNK	6	60	602	
FreightCar America, Inc.	RAIL	3	37			Guaranty Federal Bancshares, Inc.	GFED	6	60	602	
Frequency Electronics, Inc.	FEIM	3	38	382	3825	Guess?, Inc.	GES	2	23		
Friedman Industries, Incorporated	FRD	3	33	331		Guidewire Software, Inc.	GWRE	7	73	737	7372
FRP Holdings, Inc.	FRPH	6	65			Gulf Resources, Inc.	GURE	2	28	281	
FS Bancorp, Inc.	FSBW	6	60	603	6036	H&E Equipment Services, Inc.	HEES	5	50	508	
Fulton Financial Corporation	FULT	6	60	602		H&R Block, Inc.	HRB	7			
FutureFuel Corp.	FF	2	28	286		H.B. Fuller Company	FUL	2	28	289	
GAIN Capital Holdings, Inc.	GCAP	6	62			Haemonetics Corporation	HAE	3	38	384	3841
GAMCO Investors, Inc.	GBL	6	62	628		Hallador Energy Company	HNRG	1			
GameStop Corp.	GME	5	57			Hallmark Financial Services, Inc.	HALL	6	63	633	
Gaming Partners International Corporation	GPIC	3	39			Hancock Holding Company	HBHC	6	60	602	
Garrison Capital Inc.	GARS	6	67			Hanesbrands Inc.	HBI	2	23		
Gartner, Inc.	IT	8	87			Hanmi Financial Corporation	HAFC	6	60	602	
GATX Corporation	GATX	4	47			Hannon Armstrong Sustainable Infrastructure Capital, Inc.	HASI	6	67		6798
Gencor Industries, Inc.	GENC	3	35	356		Hardinge Inc.	HDNG	3	35		
Generac Holdings Inc.	GNRC	3	36	362	3621	Harley-Davidson, Inc.	HOG	3	37		
General Dynamics Corporation	GD	3				Hasbro, Inc.	HAS	3	39	394	
General Mills, Inc.	GIS	2	20			Haverty Furniture Companies, Inc.	HVT	5	57		
General Motors Company	GM	3	37	371	3711	Hawaiian Electric Industries, Inc.	HE	4	49	491	
Genesee & Wyoming Inc.	GWR	4	40			Hawaiian Holdings, Inc.	HA	4	45	451	4512
Genesis Energy, L.P.	GEL	5	51	517	5172	Hawaiian Telcom Holdco, Inc.	HCOM	4	48	481	4813
Gentex Corporation	GNTX	3	37	371	3714	Hawthorn Bancshares, Inc.	HWBK	6	60	602	
Gentherm Incorporated	THRM	3	37	371	3714	Haynes International, Inc.	HAYN	3	33	331	
Genuine Parts Company	GPC	5	50			HCI Group, Inc.	HCI	6	63	633	
German American Bancorp, Inc.	GABC	6	60	602		HCP, Inc.	HCP	6	67		6798
Getty Realty Corp.	GTY	6	67		6798	Health Insurance Innovations, Inc.	HIIQ	6	64		
GGP Inc.	GGP	6	67		6798	Healthcare Realty Trust Incorporated	HR	6	67		6798
G-III Apparel Group, Ltd.	GIII	2	23			Healthcare Trust of America, Inc.	HTA	6	67		6798
Gilead Sciences, Inc.	GILD	2	28	283	2836	HealthStream, Inc.	HSTM	7	73	737	
Glacier Bancorp, Inc.	GBCI	6	60	602		Heartland Express, Inc.	HTLD	4	42		4213
Gladstone Capital Corporation	GLAD	6	67			Heartland Financial USA, Inc.	HTLF	6	60	602	
Gladstone Investment Corporation	GAIN	6	67			HEICO Corporation	HEI	3			
Gladstone Land Corporation	LAND	6	67		6798	Helmerich & Payne, Inc.	HP	1	13		
Glen Burnie Bancorp	GLBZ	6	60	602		Hennessy Advisors, Inc.	HNNA	6	62	628	
Global Partners LP	GLP	5	51	517		Henry Schein, Inc.	HSIC	5	50	504	
Global Payments Inc.	GPN	7	73	737	7374	Hercules Capital, Inc.	HTGC	6	67		
Globus Medical, Inc.	GMED	3	38	384	3841	Heritage Commerce Corp	HTBK	6	60	602	
Gold Resource Corporation	GORO	1				Heritage Financial Corporation	HFWA	6	60	602	
Golden Entertainment, Inc.	GDEN	7	79	799							
Golub Capital BDC, Inc.	GBDC	6	67								

Appendix B: SIC Codes in which Companies (Main Set) are Included

Heritage-Crystal Clean, Inc	HCCI	4	49	495		IDEXX Laboratories, Inc.	IDXX	2	28	283	2835
Herman Miller, Inc.	MLHR	2	25	252		IDT Corporation	IDT	4	48	481	4813
Hersha Hospitality Trust	HT	6	67		6798	IES Holdings, Inc.	IESC	1			
Heska Corporation	HSKA	2	28	283	2835	IF Bancorp, Inc.	IROQ	6	60	603	6035
Hexcel Corporation	HXL	2	28			II-VI Incorporated	IIVI	3	38	382	
HFF, Inc.	HF	6	61	616		IKONICS Corporation	IKNX	2	28	284	
Hibbett Sports, Inc.	HIBB	5	59	594		ILG, Inc.	ILG	6	65	653	
Hi-Crush Partners LP	HCLP	1	14			Illinois Tool Works Inc.	ITW	3			
Highpower International, Inc.	HPJ	3	36	369		Illumina, Inc.	ILMN	3	38	382	3826
Highwoods Properties, Inc.	HIW	6	67		6798	ImmuCell Corporation	ICCC	2	28	283	2835
Hillenbrand, Inc.	HI	3				Impac Mortgage Holdings, Inc.	IMH	6	61	616	
Hilltop Holdings Inc.	HTH	6	61			Income Opportunity Realty Investors, Inc.	IOR	6	65	655	
Hingham Institution for Savings	HIFS	6	60	603	6036	Independence Holding Company	IHC	6	63	632	
HMN Financial, Inc.	HMNF	6	60	603	6035	Independent Bank Corp.	INDB	6	60	602	
HMS Holdings Corp.	HMSY	6	64			Independent Bank Corporation	IBCP	6	60	602	
HNI Corporation	HNI	2	25	252		Independent Bank Group, Inc.	IBTX	6	60	602	
Holly Energy Partners, L.P.	HEP	4	46			Infinity Property and Casualty Corporation	IPCC	6	63	633	
HollyFrontier Corporation	HFC	2	29	291		Information Services Group, Inc.	III	7	73	737	7374
Hologic, Inc.	HOLX	3	38	384		Ingles Markets, Incorporated	IMKTA	5	54	541	
Home Bancorp, Inc.	HBCP	6	60	603	6035	Ingredion Incorporated	INGR	2	20		
Home Bancshares, Inc. (Conway, AR)	HOMB	6	60	602		InnerWorkings, Inc.	INWK	5	51		
Home Federal Bancorp, Inc. of Louisiana	HFBL	6	60	603	6035	Innophos Holdings, Inc.	IPHS	2	28	281	
Home Loan Financial Corp.	3HLFN	6	60	603	6036	Innospec Inc.	IOSP	2	28	281	
HomeStreet, Inc.	HMST	6	60	603	6036	Insight Enterprises, Inc.	NSIT	5	50	504	5045
HomeTrust Bancshares, Inc.	HTBI	6	60	602		Insignia Systems, Inc.	ISIG	7	73		
Hooker Furniture Corporation	HOFT	2	25	251		Insperity, Inc.	NSP	7	73	736	7363
Hope Bancorp, Inc.	HOPE	6	60	602		Insteel Industries, Inc.	IIIN	3	33	331	
HopFed Bancorp, Inc.	HFBC	6	60	603	6035	INSYS Therapeutics, Inc.	INSY	2	28	283	2834
Horace Mann Educators Corporation	HMN	6	63			Integer Holdings Corporation	ITGR	3	38	384	3845
Horizon Bancorp	HBNC	6	60	602		Integra LifeSciences Holdings Corporation	IART	3	38	384	
Horizon Technology Finance Corporation	HRZN	6	67			Integrated Device Technology, Inc.	IDTI	3	36	367	3674
Hormel Foods Corporation	HRL	2	20	201		Intel Corporation	INTC	3	36	367	3674
Hospitality Properties Trust	HPT	6	67		6798	Inter Parfums, Inc.	IPAR	2	28	284	
Host Hotels & Resorts, Inc.	HST	6	67		6798	Interactive Brokers Group, Inc.	IBKR	6	62	621	
Houston Wire & Cable Company	HWCC	5	50	506		Intercontinental Exchange, Inc.	ICE	6	62		
Howard Bancorp, Inc.	HBMD	6	60	602		InterDigital, Inc.	IDCC	6	67		6794
HP Inc.	HPQ	3	35	357		Interface, Inc.	TILE	2			
Hub Group, Inc.	HUBG	4	47	473		Interlink Electronics, Inc.	LINK	3	36	367	3679
Hubbell Incorporated	HUBB	3				International Bancshares Corporation	IBOC	6	60	602	
Hudson Pacific Properties, Inc.	HPP	6	67		6798	International Business Machines Corporation	IBM	7	73	737	
Hudson Technologies Inc.	HDSN	4	49	495		International Flavors & Fragrances Inc.	IFF	2			
Hugoton Royalty Trust	HGT	6	67			International Paper Company	IP	2	26		
Humana Inc.	HUM	6	63	632	6324	International Speedway Corporation	ISCA	7	79		
Huntington Bancshares Incorporated	HBAN	6	60	602		inTEST Corporation	INTT	3	38	382	3825
Huntington Ingalls Industries, Inc.	HII	3	37			INTL FCStone Inc.	INTL	6	62		
Huntsman Corporation	HUN	2	28	286		Intuit Inc.	INTU	7	73	737	7372
Hurco Companies, Inc.	HURC	3	38	382		Intuitive Surgical, Inc.	ISRG	3	38	384	3845
Huron Consulting Group Inc.	HURN	8	87	874	8742	Inuvo, Inc.	INUV	7	73	737	
Huttig Building Products, Inc.	HBP	5	50			Invesco Mortgage Capital Inc.	IVR	6	67		6798
Hyatt Hotels Corporation	H	7				Investment Technology Group, Inc.	ITG	6	62	621	
Hyster-Yale Materials Handling, Inc.	HY	3	35	353		Investors Bancorp, Inc.	ISBC	6	60	603	6036
IAC/InterActiveCorp	IAC	7	73	737		Investors Title Company	ITIC	6	63		
IBERIABANK Corporation	IBKC	6	60	602		IPG Photonics Corporation	IPGP	3	36	367	3674
ICF International, Inc.	ICFI	8	87	874	8742	Iridium Communications Inc.	IRDM	4	48		
ICU Medical, Inc.	ICUI	3	38	384	3841	iRobot Corporation	IRBT	3	39		
IDACORP, Inc.	IDA	4	49	491		Iron Mountain Incorporated	IRM	6	67		6798
IDEX Corporation	IEX	3									

Appendix B: SIC Codes in which Companies (Main Set) are Included

Issuer Direct Corporation	ISDR	7	73	737				
ITT Inc.	ITT	3						
J&J Snack Foods Corp.	JJSF	2	20					
J.B. Hunt Transport Services, Inc.	JBHT	4	42		4213			
J.W. Mays, Inc.	MAYS	6	65					
j2 Global, Inc.	JCOM	7	73	737				
Jabil Inc.	JBL	3	36	367	3672			
Jack Henry & Associates, Inc.	JKHY	7	73	737	7373			
Jack in the Box Inc.	JACK	5	58		5812			
Jacksonville Bancorp, Inc.	JXSB	6	60	603	6036			
Jacobs Engineering Group Inc.	JEC	1	16					
JetBlue Airways Corporation	JBLU	4	45	451	4512			
John B. Sanfilippo & Son, Inc.	JBSS	2	20					
John Bean Technologies Corporation	JBT	3	35					
John Wiley & Sons, Inc.	JW.A	2	27					
Johnson Outdoors Inc.	JOUT	3						
Jones Lang LaSalle Incorporated	JLL	6	65	653				
JPMorgan Chase & Co.	JPM	6	60	602				
Juniata Valley Financial Corp.	3JUJVF	6	60	602				
Juniper Networks, Inc.	JNPR	3	35	357				
Juniper Pharmaceuticals, Inc.	JNP	2	28	283	2834			
K12 Inc.	LRN	8	82					
Kadant Inc.	KAI	3	35	355				
Kaiser Aluminum Corporation	KALU	3	33					
Kansas City Southern	KSU	4	40					
KAR Auction Services, Inc.	KAR	7	73	738	7389			
Kayne Anderson Energy Development Company	KED	6	67					
KB Home	KBH	1	15					
KCAP Financial, Inc.	KCAP	6	67					
Kearny Financial Corp.	KRNY	6	60	603	6036			
Kellogg Company	K	2	20					
Kelly Services, Inc.	KELYA	7	73	736	7363			
Kemper Corporation	KMPR	6	63					
Kennedy-Wilson Holdings, Inc.	KW	6	65					
Kentucky First Federal Bancorp	KFFB	6	60	603	6035			
Kewaunee Scientific Corporation	KEQU	3	38	382				
Key Tronic Corporation	KTCC	3	36	367				
KeyCorp	KEY	6	60	602				
Kforce Inc.	KFRC	7	73	736	7363			
Kilroy Realty Corporation	KRC	6	67		6798			
Kimball International, Inc.	KBAL	2	25	252				
Kimberly-Clark Corporation	KMB	2	26	262				
Kimco Realty Corporation	KIM	6	67		6798			
Kinder Morgan, Inc.	KMI	4	49	492				
Kingstone Companies, Inc.	KINS	6	63	633				
Kirkland's, Inc.	KIRK	5	59					
Kite Realty Group Trust	KRG	6	67		6798			
KKR & Co. L.P.	KKR	6	62	628				
KLA-Tencor Corporation	KLAC	3	38	382				
KMG Chemicals, Inc.	KMG	2	28	286				
Knight-Swift Transportation Holdings Inc.	KNX	4	42		4213			
Knoll, Inc.	KNL	2	25	252				
Kohl's Corporation	KSS	5	53					
Kraton Corporation	KRA	2	28					
Kronos Worldwide, Inc.	KRO	2	28	281				
KS Bancorp Inc.	3KSBI	6	60	603	6036			
Kulicke and Soffa Industries, Inc.	KLIC	3	35	355	3559			
L Brands, Inc.	LB	5						
L3 Technologies, Inc.	LLL	3						
Laboratory Corporation of America Holdings	LH	8						
Lake Shore Bancorp, Inc.	LSBK	6	60	603	6035			
Lakeland Bancorp, Inc.	LBAI	6	60	602				
Lakeland Financial Corporation	LKFN	6	60	602				
Lam Research Corporation	LRCX	3	35	355	3559			
Lamar Advertising Company (REIT)	LAMR	6	67		6798			
Lancaster Colony Corporation	LANC	2	20	203				
Landec Corporation	LNDC	2	20	203				
Landmark Bancorp, Inc.	LARK	6	60	602				
Landstar System, Inc.	LSTR	4	42		4213			
Lannett Company, Inc.	LCI	2	28	283	2834			
Las Vegas Sands Corp.	LVS	7	79	799				
LaSalle Hotel Properties	LHO	6	67		6798			
Lawson Products, Inc.	LAWS	5	50					
La-Z-Boy Incorporated	LZB	2	25	251				
LCI Industries	LCII	3	37	371	3711			
LCNB Corp.	LCNB	6	60	602				
Lear Corporation	LEA	2	25					
LegacyTexas Financial Group, Inc.	LTXB	6	60	602				
Legg Mason, Inc.	LM	6	62	628				
Leidos Holdings, Inc.	LDOS	7	73	737	7373			
LeMaitre Vascular, Inc.	LMAT	3	38	384	3841			
LendingTree, Inc.	TREE	6	61	616				
Lennar Corporation	LEN	1	15					
Lennox International Inc.	LII	3	35					
Lexington Realty Trust	LXP	6	67		6798			
LHC Group, Inc.	LHCG	8	80					
Libbey Inc.	LBY	3	32					
Liberty Property Trust	LPT	6	67		6798			
Life Storage, Inc.	LSI	6	67		6798			
LifePoint Health, Inc.	LPNT	8	80					
Lifetime Brands, Inc.	LCUT	3	34	342				
Lifevantage Corporation	LFVN	2	28	283	2834			
Lifeway Foods, Inc.	LWAY	2	20					
Ligand Pharmaceuticals Incorporated	LGND	2	28	283	2834			
LightPath Technologies, Inc.	LPTH	3	38	382				
Limoneira Company	LMNR	1						
Lincoln Electric Holdings, Inc.	LECO	3	35					
Lincoln National Corporation	LNC	6	63					
Lindsay Corporation	LNN	3	35					
Lithia Motors, Inc.	LAD	5	55					
Littelfuse, Inc.	LFUS	3	36					
LKQ Corporation	LKQ	5	50					
Lockheed Martin Corporation	LMT	3	37					
LogMeIn, Inc.	LOGM	7	73	737				
Lowe's Companies, Inc.	LOW	5						
LPL Financial Holdings Inc.	LPLA	6	62	621				
LRAD Corporation	LRAD	3	36					
LSI Industries Inc.	LYTS	3	36					
LTC Properties, Inc.	LTC	6	67		6798			
Luminex Corporation	LMNX	2	28	283	2835			
Lydall, Inc.	LDL	3						
M&T Bank Corporation	MTB	6	60	602				
M.D.C. Holdings, Inc.	MDC	1	15					
M/I Homes, Inc.	MHO	1	15					
Macatawa Bank Corporation	MCBC	6	60	602				
Macerich Company	MAC	6	67		6798			
Mackinac Financial Corporation	MFNC	6	60	602				



Appendix B: SIC Codes in which Companies (Main Set) are Included

Macquarie Infrastructure Corporation	MIC	4	45				
Macy's, Inc.	M	5	53				
Magellan Health, Inc.	MGLN	8	87	874			
Magellan Midstream Partners, L.P.	MMP	4	46				
Magyar Bancorp, Inc.	MGYR	6	60	603	6035		
Main Street Capital Corporation	MAIN	6	67				
MainSource Financial Group, Inc.	MSFG	6	60	602			
Malvern Bancorp, Inc.	MLVF	6	60	603	6035		
MAM Software Group, Inc.	MAMS	7	73	737			
Manhattan Associates, Inc.	MANH	7	73	737	7373		
Manhattan Bridge Capital, Inc.	LOAN	6	67		6798		
Manitex International, Inc.	MNTX	3	35	353			
Mannatech, Incorporated	MTEX	2	28	283	2834		
Manning & Napier, Inc.	MN	6	62	628			
ManpowerGroup Inc.	MAN	7	73	736	7363		
ManTech International Corporation	MANT	7	73	737	7373		
MarineMax, Inc.	HZO	5	55				
Markel Corporation	MKL	6	63	633			
MarketAxess Holdings Inc.	MKTX	6	62				
Marlin Business Services Corp.	MRLN	6	61				
Marriott International, Inc.	MAR	7					
Marriott Vacations Worldwide Corporation	VAC	7					
Marsh & McLennan Companies, Inc.	MMC	6	64				
Marten Transport, Ltd.	MRTN	4	42		4213		
Martin Marietta Materials, Inc.	MLM	1	14				
Martin Midstream Partners L.P.	MMLP	5	51	517	5172		
Masimo Corporation	MASI	3	38	384	3845		
MasTec, Inc.	MTZ	1	16	162			
Mastercard Incorporated	MA	6	60	609			
Materion Corporation	MTRN	3	33				
Matrix Service Company	MTRX	1					
Matson, Inc.	MATX	4					
Mattel, Inc.	MAT	3	39	394			
Maui Land & Pineapple Company, Inc.	MLP	6	65	655			
Maxim Integrated Products, Inc.	MXIM	3	36	367	3674		
MAXIMUS, Inc.	MMS	8	87	874			
MB Financial, Inc.	MBFI	6	60	602			
MBT Financial Corp.	MBTF	6	60	603	6036		
McCormick & Company, Incorporated	MKC	2	20				
McDonald's Corporation	MCD	5	58		5812		
McGrath RentCorp	MGRC	7	73	735			
McKesson Corporation	MCK	5	51	512			
Medallion Financial Corp.	MFIN	6	67				
Medical Properties Trust, Inc.	MPW	6	67		6798		
Medidata Solutions, Inc.	MDSO	7	73	737	7373		
Medifast, Inc.	MED	2	20				
Medley Capital Corporation	MCC	6	67				
MEDNAX, Inc.	MD	8	80				
MercadoLibre, Inc.	MELI	7	73	737			
Mercantile Bank Corporation	MBWM	6	60	602			
Mercer International Inc.	MERC	2	26				
Merck & Co., Inc.	MRK	2	28	283	2834		
Mercury General Corporation	MCY	6	63	633			
Mercury Systems, Inc.	MRCY	3	36	367	3674		
Meridian Bancorp, Inc.	EBSB	6	60	603	6036		
Meridian Bioscience, Inc.	VIVO	2	28	283			
Merit Medical Systems, Inc.	MMSI	3	38	384	3841		
Meritage Homes Corporation	MTH	1	15				
Meritor, Inc.	MTOR	3	37	371	3714		
Mesa Laboratories, Inc.	MLAB	3	38				
Mesa Royalty Trust	MTR	6	67				
Mesabi Trust	MSB	6	67				
Meta Financial Group, Inc.	CASH	6	60	603	6035		
Methode Electronics, Inc.	MEI	3	36	367			
MetLife, Inc.	MET	6	63	631			
Mettler-Toledo International Inc.	MTD	3	38	382	3826		
MFA Financial, Inc.	MFA	6	67		6798		
MGE Energy, Inc.	MGEE	4	49	493			
MGIC Investment Corporation	MTG	6	63				
MGM Resorts International	MGM	7	79	799			
MGP Ingredients, Inc.	MGPI	2	20	208			
Microchip Technology Incorporated	MCHP	3	36	367	3674		
Micron Technology, Inc.	MU	3	36	367	3674		
Microsemi Corporation	MSCC	3	36	367	3674		
Microsoft Corporation	MSFT	7	73	737	7372		
MicroStrategy Incorporated	MSTR	7	73	737	7372		
Mid Penn Bancorp, Inc.	MPB	6	60	602			
Mid-America Apartment Communities, Inc.	MAA	6	67		6798		
Middlefield Banc Corp.	MBCN	6	60	602			
Middlesex Water Company	MSEX	4	49	494			
MidSouth Bancorp, Inc.	MSL	6	60	602			
MidWestOne Financial Group, Inc.	MOFG	6	60	602			
Miller Industries, Inc.	MLR	3	37	371			
MiMedx Group, Inc.	MDXG	2	28	283	2836		
Mistras Group, Inc.	MG	8	87	871			
MKS Instruments, Inc.	MKSI	3					
Mobile Mini, Inc.	MINI	7	73	735			
Modine Manufacturing Company	MOD	3	37	371	3714		
Molson Coors Brewing Company	TAP	2	20	208			
Monarch Casino & Resort, Inc.	MCRI	7	79	799			
Mondelez International, Inc.	MDLZ	2	20				
Monmouth Real Estate Investment Corporation	MNR	6	67		6798		
Monolithic Power Systems, Inc.	MPWR	3	36	367	3674		
Monotype Imaging Holdings Inc.	TYPE	7	73	737	7372		
Monro, Inc.	MNRO	7					
Monroe Capital Corporation	MRCC	6	67				
Monster Beverage Corporation	MNST	2	20	208	2086		
Moody's Corporation	MCO	7	73				
Moog Inc.	MOG.A	3					
Morgan Stanley	MS	6	62				
Morningstar, Inc.	MORN	7	73	737			
Movado Group, Inc.	MOV	3	38				
MPLX LP	MPLX	4	46				
MSA Safety Incorporated	MSA	3	38	384			
MSB Financial Corp.	MSBF	6	60	603	6035		
MSC Industrial Direct Co., Inc.	MSM	5	50	508			
MSCI Inc.	MSCI	6	62	628			
MSG Networks Inc.	MSGN	4	48				
MTS Systems Corporation	MTSC	3	38	382			
Mueller Industries, Inc.	MLI	3	33				
Mueller Water Products, Inc.	MWA	3	34	349			
Multi-Color Corporation	LABL	2	27				
MutualFirst Financial, Inc.	MFSF	6	60	602			
MVB Financial Corp.	MVBF	6	60	602			
MVC Capital, Inc.	MVC	6	67				
Myers Industries, Inc.	MYE	3	30	308			

**Appendix B: SIC Codes in which Companies (Main Set) are Included**

MYR Group Inc.	MYRG	1	16	162	
Myriad Genetics, Inc.	MYGN	2	28	283	2835
Nam Dinh Educational Book and Equipment JSC	DST	7	73	737	7374
Nanometrics Incorporated	NANO	3	38	382	
Napco Security Technologies, Inc.	NSSC	3	36	366	
National American University Holdings, Inc.	NAUH	8	82		
National Bank Holdings Corporation	NBHC	6	60	602	
National Bankshares, Inc.	NKSH	6	60	602	
National Beverage Corp.	FIZZ	2	20	208	2086
National Health Investors, Inc.	NHI	6	67		6798
National HealthCare Corporation	NHC	8	80		
National Holdings Corporation	NHLD	6	62	621	
National Instruments Corporation	NATI	7	73	737	7372
National Oilwell Varco, Inc.	NOV	3	35	353	3533
National Presto Industries, Inc.	NPK	3	34		
National Research Corporation	NRCIA	7	73	738	7389
National Retail Properties, Inc.	NNN	6	67		6798
National Western Life Group, Inc.	NWLI	6	63	631	
Nationstar Mortgage Holdings Inc.	NSM	6	61	616	
Natural Alternatives International, Inc.	NAII	2	28	283	2834
Natural Gas Services Group, Inc.	NGS	3	35	353	3533
Natural Grocers by Vitamin Cottage, Inc.	NGVC	5	54		
Natural Health Trends Corp.	NHTC	5	51	512	
Nature's Sunshine Products, Inc.	NATR	2	28	283	2834
Natus Medical Incorporated	BABY	3	38	384	3845
Nautilus, Inc.	NLS	3	39	394	
Navigant Consulting, Inc.	NCI	8	87	874	8742
NBT Bancorp Inc.	NBTB	6	60	602	
NCI Building Systems, Inc.	NCS	3	34	344	
Neenah, Inc.	NP	2	26	262	
Nelnet, Inc.	NNI	6	61	614	
Neogen Corporation	NEOG	2	28	283	
Net 1 UEPS Technologies, Inc.	UEPS	7	73	737	7374
NetApp, Inc.	NTAP	3	35	357	
Netflix, Inc.	NFLX	7			
NETGEAR, Inc.	NTGR	3			
NetScout Systems, Inc.	NTCT	7	73	737	7373
Network-1 Technologies, Inc.	NTIP	6	67		6794
Nevada Gold & Casinos, Inc.	UWN	7	79	799	
New Jersey Resources Corporation	NJR	4	49	492	4924
New Mountain Finance Corporation	NMFC	6	67		
New York Community Bancorp, Inc.	NYCB	6	60	603	6036
NewMarket Corporation	NEU	2	28	286	
Newpark Resources, Inc.	NR	5	51		
Newtek Business Services Corp.	NEWT	6	67		
Nexstar Media Group, Inc.	NXST	4	48	483	4833
NextEra Energy, Inc.	NEE	4	49	491	
NGL Energy Partners LP	NGL	5	59		
NIC Inc.	EGOV	7	73	737	
NIKE, Inc.	NKE	3	30		
NiSource Inc.	NI	4	49		
NN, Inc.	NNBR	3			
Nordson Corporation	NDSN	3	35	356	
Nordstrom, Inc.	JWN	5	56	565	
Norfolk Southern Corporation	NSC	4	40		
Nortech Systems Incorporated	NSYS	3	36	367	3679
North European Oil Royalty Trust	NRT	6	67		
Northeast Bancorp	NBN	6	60	602	
Northern Trust Corporation	NTRS	6	60	602	
Northfield Bancorp, Inc. (Staten Island, NY)	NFBK	6	60	603	6035
Northrim BanCorp, Inc.	NRIM	6	60	602	
Northrop Grumman Corporation	NOC	3			
Northwest Bancshares, Inc.	NWBI	6	60	603	6035
Northwest Indiana Bancorp	3NWIN	6	60	603	6035
Northwest Natural Gas Company	NWN	4	49	492	4924
NorthWestern Corporation	NWE	4	49	493	
Norwood Financial Corp.	NWFL	6	60	602	
Nova LifeStyle, Inc.	NVfy	2	25	251	
Nu Skin Enterprises, Inc.	NUS	2	28	283	2834
Nucor Corporation	NUE	3			
Nutrisystem, Inc.	NTRI	5	59	596	
NuVasive, Inc.	NUVA	3	38	384	3841
NV5 Global, Inc.	NVEE	8	87	871	
NVE Corporation	NVEC	3	36	367	3674
NVIDIA Corporation	NVDA	3	36	367	3674
NVR, Inc.	NVR	1	15		
Oak Valley Bancorp	OVLY	6	60	602	
Oaktree Capital Group, LLC	OAK	6	62	628	
Ocean Bio-Chem, Inc.	OBCI	2	28	284	
OceanFirst Financial Corp.	OCFC	6	60	603	6035
Oconee Federal Financial Corp.	OFED	6	60	603	6035
Office Depot, Inc.	ODP	5	59		
OFG Bancorp	OFG	6	60	602	
OFS Capital Corporation	OFS	6	67		
OGE Energy Corp.	OGE	4	49	493	
Ohio Valley Banc Corp.	OVBC	6	60	602	
Oil-Dri Corporation of America	ODC	3	32		
Old Dominion Freight Line, Inc.	ODFL	4	42		4213
Old Line Bancshares, Inc.	OLBK	6	60	602	
Old National Bancorp	ONB	6	60	602	
Old Point Financial Corporation	OPOF	6	60	602	
Old Republic International Corporation	ORI	6	63		
Old Second Bancorp, Inc.	OSBC	6	60	602	
Olin Corporation	OLN	2	28		
Omega Flex, Inc.	OFLX	3	34	349	
Omega Healthcare Investors, Inc.	OHI	6	67		6798
Omnicell, Inc.	OMCL	7	73	737	7373
Omnicom Group Inc.	OMC	7	73		
ON Semiconductor Corporation	ON	3	36	367	3674
One Liberty Properties, Inc.	OLP	6	67		6798
ONEOK, Inc.	OKE	4	49	492	
Oppenheimer Holdings Inc.	OPY	6	62	621	
Oracle Corporation	ORCL	7	73	737	7372
OraSure Technologies, Inc.	OSUR	2	28	283	2835
Orbital ATK, Inc.	OA	3			
Orchids Paper Products Company	TIS	2	26	267	
O'Reilly Automotive, Inc.	ORLY	5	55		
Orient Paper, Inc.	ONP	2	26	262	
Oritani Financial Corp.	ORIT	6	60	603	6035
Orrstown Financial Services, Inc.	ORRF	6	60	602	
Oshkosh Corporation	OSK	3			
OSI Systems, Inc.	OSIS	3	38	384	
Otelco Inc.	OTEL	4	48	481	4813
Ottawa Bancorp, Inc.	OTTW	6	60	603	6035
Otter Tail Corporation	OTTR	4	49	491	

Appendix B: SIC Codes in which Companies (Main Set) are Included

Owens & Minor, Inc.	OMI	5	50	504					
Owens Corning	OC	3	32						
Owens-Illinois, Inc.	OI	3	32						
Oxford Industries, Inc.	OXM	2	23						
Oxford Lane Capital Corp.	OXLC	6	61						
Oxford Square Capital Corp.	OXSQ	6	67						
P&F Industries, Inc.	PFIN	3	35						
P. H. Glatfelter Company	GLT	2	26	262					
P.A.M. Transportation Services, Inc.	PTSI	4	42		4213				
PACCAR Inc	PCAR	3	37	371	3711				
Pacific Premier Bancorp, Inc.	PPBI	6	60	602					
Packaging Corporation of America	PKG	2	26	265					
PacWest Bancorp	PACW	6	60	602					
Panhandle Oil and Gas Inc.	PHX	1	13	131					
Park Electrochemical Corp.	PKE	3	36	367	3672				
Park National Corporation	PRK	6	60	602					
Parke Bancorp, Inc.	PKBK	6	60	602					
Parker-Hannifin Corporation	PH	3	34	349					
Pathfinder Bancorp, Inc.	PBHC	6	60	602					
Patrick Industries, Inc.	PATK	2	24						
Patriot National Bancorp, Inc.	PNBK	6	60	602					
Patterson Companies, Inc.	PDCO	5	50	504					
Paychex, Inc.	PAYX	8	87						
Payment Data Systems, Inc.	PYDS	6	60	609					
PB Bancorp, Inc.	PBBI	6	60	603	6035				
PBF Energy Inc.	PBF	2	29	291					
PC Connection, Inc.	CNXN	5	59	596					
PCM, Inc.	PCMI	5	59	596					
PDF Solutions, Inc.	PDFS	3	35	355	3559				
Peapack-Gladstone Financial Corporation	PGC	6	60	602					
Pebblebrook Hotel Trust	PEB	6	67		6798				
Pegasystems Inc.	PEGA	7	73	737	7372				
PennantPark Floating Rate Capital Ltd.	PFLT	6	67						
PennantPark Investment Corporation	PNNT	6	67						
Penns Woods Bancorp, Inc.	PWOD	6	60	602					
PennyMac Mortgage Investment Trust	PMT	6	67		6798				
Penske Automotive Group, Inc.	PAG	5	55						
Peoples Bancorp Inc.	PEBO	6	60	602					
Peoples Bancorp of North Carolina, Inc.	PEBK	6	60	602					
Peoples Financial Services Corp.	PFIS	6	60	602					
People's United Financial, Inc.	PBCT	6	60	602					
PepsiCo, Inc.	PEP	2	20						
Perficient, Inc.	PRFT	7	73	737					
Performant Financial Corporation	PFMT	7	73						
PerkinElmer, Inc.	PKI	3	38						
Permian Basin Royalty Trust	PBT	6	67						
Perry Ellis International, Inc.	PERY	2	23						
PetMed Express, Inc.	PETS	5	59						
Pfizer Inc.	PFE	2	28	283	2834				
PG&E Corporation	PCG	4	49	493					
PGT Innovations, Inc.	PGTI	3	34	344					
PHI, Inc.	PHIIK	4	45						
Phillips 66	PSX	2	29	291					
Photronics, Inc.	PLAB	3	36	367	3674				
Piedmont Office Realty Trust, Inc.	PDM	6	67		6798				
Pier 1 Imports, Inc.	PIR	5	57						
Pilgrim's Pride Corporation	PPC	2	20	201					
Pinnacle Financial Partners, Inc.	PNFP	6	60	602					
Pinnacle Foods Inc.	PF	2	20	203					
Pinnacle West Capital Corporation	PNW	4	49	491					
Pioneer Power Solutions, Inc.	PPSI	3	36						
Piper Jaffray Companies	PJC	6	62	621					
Plains All American Pipeline, L.P.	PAA	5	51	517					
Plantronics, Inc.	PLT	3	36	366					
Plexus Corp.	PLXS	3	36	367	3672				
Plumas Bancorp	PLBC	6	60	602					
PNM Resources, Inc.	PNM	4	49	491					
Poage Bankshares, Inc.	PBSK	6	60	603	6035				
Polaris Industries Inc.	PII	3	37						
Pool Corporation	POOL	5	50						
Popular, Inc.	BPOP	6	60	602					
Portland General Electric Company	POR	4	49	491					
Powell Industries, Inc.	POWL	3	36						
Power Integrations, Inc.	POWI	3	36	367	3674				
PPG Industries, Inc.	PPG	2	28						
PPL Corporation	PPL	4	49	491					
PRA Group, Inc.	PRAA	6	61						
Praxair, Inc.	PX	2	28	281					
Preferred Bank	PFBC	6	60	602					
Premier Financial Bancorp, Inc.	PFBI	6	60	602					
Prestige Brands Holdings, Inc.	PBH	5	51	512					
PRGX Global, Inc.	PRGX	8	87						
PriceSmart, Inc.	PSMT	5	53	533					
PrimeEnergy Corporation	PNRG	1	13	131					
Primerica, Inc.	PRI	6							
Primoris Services Corporation	PRIM	1	16	162					
Principal Financial Group, Inc.	PFG	6							
ProAssurance Corporation	PRA	6	63	633					
Pro-Dex, Inc.	PDEX	3	38	384	3841				
Profire Energy, Inc.	PFIE	3	35	353	3533				
Progress Software Corporation	PRGS	7	73	737					
Prologis, Inc.	PLD	6	67		6798				
Prospect Capital Corporation	PSEC	6	67						
Prosperity Bancshares, Inc.	PB	6	60	602					
Proto Labs, Inc.	PRLB	3	35	355	3559				
Provident Financial Holdings, Inc.	PROV	6	60	603	6035				
Provident Financial Services, Inc.	PFS	6	60	603	6036				
Prudential Bancorp, Inc.	PBIP	6	60	603	6036				
Prudential Financial, Inc.	PRU	6							
PS Business Parks, Inc.	PSB	6	67		6798				
PTC Inc.	PTC	7	73	737	7372				
Public Service Enterprise Group Incorporated	PEG	4	49	493					
Public Storage	PSA	6	67		6798				
PulteGroup, Inc.	PHM	1	15						
PVH Corp.	PVH	2	23						
Pzena Investment Management, Inc	PZN	6	62	628					
QCR Holdings, Inc.	QCRH	6	60	602					
Qorvo, Inc.	QRVO	3	36	367	3674				
Quaker Chemical Corporation	KWR	2	29						
Quality Systems, Inc.	QSII	7	73	737	7373				
Qualys, Inc.	QLYS	7	73	737	7372				
Quanta Services, Inc.	PWR	1							
Quest Diagnostics Incorporated	DGX	8	80						
QVC Group	QRTEA	5	59	596					
Radian Group Inc.	RDN	6	63						
Radiant Logistics, Inc.	RLGT	4	47	473					

Appendix B: SIC Codes in which Companies (Main Set) are Included

RadNet, Inc.	RDNT	8	80		
Ralph Lauren Corporation	RL	2	23		
Rambus Inc.	RMBS	6	67	6794	
Ramco-Gershenson Properties Trust	RPT	6	67	6798	
Rand Capital Corporation	RAND	6	67		
Raven Industries, Inc.	RAVN	3	30	308	
Raymond James Financial, Inc.	RJF	6	62	621	
Rayonier Inc.	RYN	6	67	6798	
Raytheon Company	RTN	3			
RBC Bearings Incorporated	ROLL	3	35	356	
RCI Hospitality Holdings, Inc.	RICK	5	58		
RCM Technologies, Inc.	RCMT	7	73	736	
Reading International, Inc.	RDI	7			
Realogy Holdings Corp.	RLGY	6	65	653	
RealPage, Inc.	RP	7	73	737	7372
Realty Income Corporation	O	6	67	6798	
Red Hat, Inc.	RHT	7	73	737	7372
Red Robin Gourmet Burgers, Inc.	RRGB	5	58	5812	
Redwood Trust, Inc.	RWT	6	67	6798	
Regal Beloit Corporation	RBC	3	36	362	3621
Regency Centers Corporation	REG	6	67	6798	
Regeneron Pharmaceuticals, Inc.	REGN	2	28	283	2834
Regional Management Corp.	RM	6	61	614	
Regions Financial Corporation	RF	6	60	602	
Reinsurance Group of America, Incorporated	RGA	6	63	631	
Reis, Inc.	REIS	7	73	737	
Reliance Steel & Aluminum Co.	RS	5	50		
Reliv' International, Inc.	RELV	2	28	283	2834
RELM Wireless Corporation	RWC	3	36	366	3663
Renasant Corporation	RNST	6	60	602	
Repligen Corporation	RGEN	2	28	283	2836
Republic Bancorp, Inc.	RBCAA	6	60	602	
Republic First Bancorp, Inc.	FRBK	6	60	602	
Republic Services, Inc.	RSG	4	49	495	
ResMed Inc.	RMD	3	38	384	3845
Resources Connection, Inc.	RECN	8	87		
Retail Opportunity Investments Corp.	ROIC	6	67	6798	
Retail Properties of America, Inc.	RPAI	6	67	6798	
REX American Resources Corporation	REX	2	28	286	
Rexnord Corporation	RXN	3	35	356	
RF Industries, Ltd.	RFIL	3	36	367	
RGCO Resources, Inc.	RGCO	4	49	492	4924
RH	RH	5	57		
RigNet, Inc.	RNET	4	48		
Riverview Bancorp, Inc.	RVSB	6	60	603	6035
RLI Corp.	RLI	6	63	633	
RLJ Lodging Trust	RLJ	6	67	6798	
Robert Half International Inc.	RHI	7	73	736	7363
Rockwell Automation Inc.	ROK	3			
Rockwell Collins, Inc.	COL	3			
Rogers Corporation	ROG	3			
Rollins, Inc.	ROL	7	73		
Roper Technologies, Inc.	ROP	3	38		
Ross Stores, Inc.	ROST	5	56	565	
Royal Gold, Inc.	RGLD	6	67		
RPC, Inc.	RES	1	13		
RPM International Inc.	RPM	2	28		
RPX Corporation	RPXC	6	67	6794	
Rudolph Technologies, Inc.	RTEC	3	38	382	
Rush Enterprises, Inc.	RUSHA	5	55		
Ruth's Hospitality Group, Inc.	RUTH	5	58	5812	
Ryman Hospitality Properties, Inc.	RHP	6	67	6798	
S&P Global Inc.	SPGI	7	73		
S&T Bancorp, Inc.	STBA	6	60	602	
Sabine Royalty Trust	SBR	6	67		
Sabra Health Care REIT, Inc.	SBRA	6	67	6798	
Safety Insurance Group, Inc.	SAFT	6	63	633	
Saga Communications, Inc.	SGA	4	48	483	
Saia, Inc.	SAIA	4	42	4213	
Salisbury Bancorp, Inc.	SAL	6	60	602	
San Juan Basin Royalty Trust	SJT	6	67		
Sanderson Farms, Inc.	SAFM	2	20	201	
Sandy Spring Bancorp, Inc.	SASR	6	60	602	
Sanmina Corporation	SANM	3	36	367	3672
Saratoga Investment Corp.	SAR	6	67		
Saul Centers, Inc.	BFS	6	67	6798	
SB Financial Group, Inc.	SBFG	6	60	602	
SCANA Corporation	SCG	4	49		
ScanSource, Inc.	SCSC	5	50		
Scholastic Corporation	SCHL	2	27		
Schweitzer-Mauduit International, Inc.	SWM	2			
Seacoast Banking Corporation of Florida	SBCF	6	60	602	
Sealed Air Corporation	SEE	3	30	308	
SeaWorld Entertainment, Inc.	SEAS	7	79	799	
Security National Financial Corporation	SNFCA	6			
SEI Investments Co.	SEIC	6	62	628	
Select Bancorp, Inc.	SLCT	6	60	602	
Select Income REIT	SIR	6	67	6798	
Select Medical Holdings Corporation	SEM	8	80		
Selective Insurance Group, Inc.	SIGI	6	63	633	
SemGroup Corporation	SEMG	5	51	517	
Sempra Energy	SRE	4	49		
Seneca Foods Corporation	SENEA	2	20	203	
Senior Housing Properties Trust	SNH	6	67	6798	
Sensient Technologies Corporation	SXT	2	28	286	
Servotronics, Inc.	SVT	3	36	362	3621
Sharing Economy International Inc.	SEII	3	35	355	
Shenandoah Telecommunications Company	SHEN	4	48	481	
Shiloh Industries, Inc.	SHLO	3	34		
Shoe Carnival, Inc.	SCVL	5	56		
Shore Bancshares, Inc.	SHBI	6	60	602	
Shutterfly, Inc.	SFLY	2	27		
Shutterstock, Inc.	SSTK	7	73	737	
SI Financial Group, Inc.	SIFI	6	60	603	6035
Sierra Bancorp	BSRR	6	60	602	
SigmaTron International, Inc.	SGMA	3	36	367	3672
Signature Bank	SBNY	6	60	602	
Silgan Holdings Inc.	SLGN	3	34		
Silicon Laboratories Inc.	SLAB	3	36	367	3674
SilverSun Technologies, Inc.	SSNT	7	73	737	
Simmons First National Corporation	SFNC	6	60	602	
Simon Property Group, Inc.	SPG	6	67	6798	
Simpson Manufacturing Co., Inc.	SSD	3	34	342	
Sinclair Broadcast Group, Inc.	SBGI	4	48	483	4833
Sino-Global Shipping America, Ltd.	SINO	4	47	473	

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Sirius XM Holdings Inc.	SIRI	4	48	483
Six Flags Entertainment Corporation	SIX	7	79	799
SJW Group	SJW	4	49	494
SkyWest, Inc.	SKYW	4	45	451 4512
Skyworks Solutions, Inc.	SWKS	3	36	367 3674
SL Green Realty Corp.	SLG	6	67	6798
Sleep Number Corporation	SNBR	2	25	251
Snap-on Incorporated	SNA	3		
Snyder's-Lance, Inc.	LNCE	2	20	
Socket Mobile, Inc.	SCKT	3	36	366 3663
Solar Capital Ltd.	SLRC	6	67	
Solar Senior Capital Ltd.	SUNS	6	67	
Sonic Automotive, Inc.	SAH	5	55	
Sonic Corp.	SONC	5	58	5812
Sonoco Products Company	SON	2	26	265
SORL Auto Parts, Inc.	SORL	3	37	371 3714
Sotheby's	BID	7	73	738 7389
Sound Financial Bancorp, Inc.	SFBC	6	60	603 6035
South State Corporation	SSB	6	60	602
Southern Copper Corporation	SCCO	1		
Southern First Bancshares, Inc.	SFST	6	60	602
Southern Missouri Bancorp, Inc.	SMBC	6	60	603 6036
Southern National Bancorp of Virginia, Inc.	SONA	6	60	602
Southside Bancshares, Inc.	SBSI	6	60	602
Southwest Airlines Co.	LUV	4	45	451 4512
Southwest Georgia Financial Corporation	SGB	6	60	602
SP Plus Corporation	SP	7		
SPAR Group, Inc.	SGRP	7	73	738 7389
SpartanNash Company	SPTN	5	51	514
Sparton Corporation	SPA	3	36	367 3679
Spectra Energy Partners, LP	SEP	4	49	492 4922
Speedway Motorsports, Inc.	TRK	7	79	
Spire Inc.	SR	4	49	492 4924
Spirit AeroSystems Holdings, Inc.	SPR	3	37	
Spirit Airlines, Inc.	SAVE	4	45	451 4512
Spirit Realty Capital, Inc.	SRC	6	67	6798
Spok Holdings, Inc.	SPOK	4	48	481
SPS Commerce, Inc.	SPSC	7	73	737
SPX Corporation	SPXC	3	35	
SS&C Technologies Holdings, Inc.	SSNC	7	73	737 7372
Stamps.com Inc.	STMP	7	73	737
Standard Motor Products, Inc.	SMP	3	36	369
Standex International Corporation	SXI	3		
Stanley Black & Decker, Inc.	SWK	3		
Star Group, L.P.	SGU	5	59	
Starbucks Corporation	SBUX	5	58	5812
Starwood Property Trust, Inc.	STWD	6	67	6798
State Auto Financial Corporation	STFC	6	63	633
State Bank Financial Corporation	STBZ	6	60	602
State Street Corporation	STT	6	60	602
Steel Dynamics, Inc.	STLD	3		
Steelcase Inc.	SCS	2	25	252
Stein Mart, Inc.	SMRT	5	56	565
Stepan Company	SCL	2	28	
Stericycle, Inc.	SRCL	4	49	495
Sterling Bancorp	STL	6	60	602
Steven Madden, Ltd.	SHOO	3		
Stewardship Financial Corporation	SSFN	6	60	602
Stewart Information Services	STC	6	63	

Corporation				
Stifel Financial Corp.	SF	6	62	621
Stock Yards Bancorp, Inc.	SYBT	6	60	602
Stolt-Nielsen Limited	SNI	4	48	483 4833
Stoneridge, Inc.	SRI	3	36	367 3679
STRATTEC Security Corporation	STRT	3	37	371 3714
Stratus Properties Inc.	STRS	6	65	655
Strayer Education, Inc.	STRA	8	82	
Stryker Corporation	SYK	3	38	384
Sturm, Ruger & Company, Inc.	RGR	3	34	
Suburban Propane Partners, L.P.	SPH	5	59	
Summit Financial Group, Inc.	SMMF	6	60	602
Summit Hotel Properties, Inc.	INN	6	67	6798
Summit State Bank	SSBI	6	60	602
Sun Communities, Inc.	SUI	6	67	6798
Sun Hydraulics Corporation	SNHY	3	34	349
SunCoke Energy Partners, L.P.	SXCP	3	33	331
SunCoke Energy, Inc.	SXC	3	33	331
Sunoco LP	SUN	5	51	517 5172
Sunstone Hotel Investors, Inc.	SHO	6	67	6798
SunTrust Banks, Inc.	STI	6	60	602
Superior Industries International, Inc.	SUP	3	37	371 3714
Superior Uniform Group, Inc.	SGC	2	23	
Supernus Pharmaceuticals, Inc.	SUPN	2	28	283 2834
SUPERVALU Inc.	SVU	5		
Sussex Bancorp	SBBX	6	60	602
SVB Financial Group	SIVB	6	60	602
Sykes Enterprises, Incorporated	SYKE	7	73	737 7374
Symantec Corporation	SYMC	7	73	737 7372
Synaptics Incorporated	SYNA	3	36	367 3674
SYNNEX Corporation	SNX	5	50	504 5045
Synopsys, Inc.	SNPS	7	73	737 7372
Synovus Financial Corp.	SNV	6	60	602
Sysco Corporation	SYV	5	51	514
T. Rowe Price Group, Inc.	TROW	6	62	628
Take-Two Interactive Software, Inc.	TTWO	7	73	737 7372
Tanger Factory Outlet Centers, Inc.	SKT	6	67	6798
Tapestry, Inc.	TPR	3		
Target Corporation	TGT	5	53	533
Taubman Centers, Inc.	TCO	6	67	6798
Taylor Devices, Inc.	TAYD	3	35	356
Taylor Morrison Home Corporation	TMHC	1	15	
TC PipeLines, LP	TCP	6	67	
TCF Financial Corporation	TCF	6	60	602
TCP Capital Corp.	TCPC	6	67	
TD Ameritrade Holding Corporation	AMTD	6	62	621
Tech Data Corporation	TECD	5	50	504 5045
TechTarget, Inc.	TTGT	7	73	737
TEGNA Inc.	TGNA	4	48	483 4833
Teledyne Technologies Incorporated	TDY	3	38	
Teleflex Incorporated	TFX	3	38	384 3841
Telephone and Data Systems, Inc.	TDS	4	48	481
Tempur Sealy International, Inc.	TPX	2	25	251
Tennant Company	TNC	3	35	
Tenneco Inc.	TEN	3	37	371 3714
Teradata Corporation	TDC	7	73	737
Teradyne, Inc.	TER	3	38	382 3825
Terex Corporation	TEX	3	35	353
Terreno Realty Corporation	TRNO	6	67	6798





**Appendix B: SIC Codes in which Companies (Main Set) are Included**

WellCare Health Plans, Inc.	WCG	6	63	632	6324	Zions Bancorporation	ZION	6	60	602	
Wellesley Bancorp, Inc.	WEBK	6	60	602		Zix Corporation	ZIXI	7	73	737	
Wells Fargo & Company	WFC	6	60	602		Zoetis Inc.	ZTS	2	28	283	2834
Welltower Inc.	WELL	6	67		6798	Zumiez Inc.	ZUMZ	5	56	565	
Werner Enterprises, Inc.	WERN	4	42		4213						
WesBanco, Inc.	WSBC	6	60	602							
WESCO International, Inc.	WCC	5	50	506							
West Bancorporation, Inc.	WTBA	6	60	602							
West Pharmaceutical Services, Inc.	WST	3	30								
Westamerica Bancorporation	WABC	6	60	602							
Westar Energy, Inc.	WR	4	49	493							
Western Alliance Bancorporation	WAL	6	60	602							
Western Digital Corporation	WDC	3	35	357							
Western Gas Equity Partners, LP	WGP	4	49	492	4922						
Western Gas Partners, LP	WES	1	13	131							
Western New England Bancorp, Inc.	WNEB	6	60	603	6035						
Westinghouse Air Brake Technologies Corporation	WAB	3	37								
Westlake Chemical Corporation	WLK	2	28	286							
WestRock Company	WRK	2	26	265							
Westwood Holdings Group, Inc.	WHG	6	62	628							
WEX Inc.	WEX	7	73	737	7374						
Weyco Group, Inc.	WEYS	5	51								
Whirlpool Corporation	WHR	3	36								
WhiteHorse Finance, Inc.	WHF	6	67								
Whitestone REIT	WSR	6	67		6798						
Wilhelmina International, Inc.	WHLM	7	79								
Willamette Valley Vineyards, Inc.	WVVI	2	20	208							
Willdan Group, Inc.	WLDN	8	87	871							
William Lyon Homes	WLH	1	15								
Williams Partners L.P.	WPZ	1	13	131							
Williams-Sonoma, Inc.	WSM	5	57								
Winmark Corporation	WINA	6	67		6794						
Winnebago Industries, Inc.	WGO	3	37								
Wintrust Financial Corporation	WTFC	6	60	602							
Wireless Telecom Group, Inc.	WTT	3									
WisdomTree Investments, Inc.	WETF	6	62	628							
WMIH Corp.	WMIH	6	63								
Wolverine World Wide, Inc.	WWW	3									
Woodward, Inc.	WWD	3	36	362							
World Acceptance Corporation	WRLD	6	61	614							
World Fuel Services Corporation	INT	5	51	517	5172						
Worldpay, Inc.	WP	7	73	737	7374						
Worthington Industries, Inc.	WOR	3									
WSFS Financial Corporation	WSFS	6	60	603	6035						
WSI Industries, Inc.	WSCI	3	35	356							
WVS Financial Corp.	WVFC	6	60	603	6036						
Wyndham Worldwide Corporation	WYN	6	65	653							
Wynn Resorts, Limited	WYNN	7	79	799							
Xcel Brands, Inc.	XELB	6	67		6794						
Xcel Energy Inc.	XEL	4	49	493							
Xcerra Corporation	XCRA	3	38	382	3825						
Xerox Corporation	XRX	3	35	357							
Xilinx, Inc.	XLNX	3	36	367	3674						
XO Group Inc.	XOXO	7	73	737							
Xylem Inc.	XYL	3									
Youngevity International, Inc.	YGYI	2	28	283	2834						
YUM! Brands, Inc.	YUM	5	58		5812						
ZAGG Inc	ZAGG	2	26	267							
Zimmer Biomet Holdings, Inc.	ZBH	3	38	384							



# Appendix C:

## Companies (High-Financial-Risk Set) in Each Industry, by SIC Code

Appendix C is a list of the High-Financial-Risk Set of companies used to calculate the metrics for a composite comprised of companies in the "High-Financial-Risk" category for each SIC code (data availability allowing) in the *2018 Valuation Handbook – U.S. Industry Cost of Capital* (data through March 2018).

## Appendix C: Companies (High-Financial-Risk Set) in Each Industry, by SIC Code

### SIC 1

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Anadarko Petroleum Corporation  
 Approach Resources, Inc.  
 Basic Energy Services, Inc.  
 Cabot Oil & Gas Corporation  
 Callon Petroleum Company  
 Carrizo Oil & Gas, Inc.  
 Cimarex Energy Co.  
 CNX Resources Corporation  
 Comstock Resources, Inc.  
 Concho Resources Inc.  
 CSI Compressco LP  
 Dynegy Inc.  
 Enservco Corporation  
 EV Energy Partners, L.P.  
 Gran Tierra Energy Inc.  
 Hecla Mining Company  
 Hess Corporation  
 HighPoint Resources Corporation  
 Hovnanian Enterprises, Inc.  
 Intrepid Potash, Inc.  
 ION Geophysical Corporation  
 Isramco, Inc.  
 KBR, Inc.  
 Key Energy Services, Inc.  
 Marathon Oil Corporation  
 Matador Resources Company  
 Mexco Energy Corporation  
 Mid-Con Energy Partners, LP  
 Noble Energy, Inc.  
 PDC Energy, Inc.  
 Pioneer Energy Services Corp.  
 QEP Resources, Inc.  
 Range Resources Corporation  
 Rex Energy Corporation  
 S&W Seed Company  
 SM Energy Company  
 SRC Energy Inc.  
 Stone Energy Corporation  
 Summit Midstream Partners, LP  
 Superior Energy Services, Inc.  
 Tengasco, Inc.  
 Unit Corporation  
 USA Compression Partners, LP  
 VAALCO Energy, Inc.  
 W&T Offshore, Inc.  
 Westmoreland Coal Company  
 Westmoreland Resource Partners, LP  
 Whiting Petroleum Corporation  
 WPX Energy, Inc.

### SIC 13

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Anadarko Petroleum Corporation  
 Approach Resources, Inc.  
 Basic Energy Services, Inc.  
 Cabot Oil & Gas Corporation  
 Callon Petroleum Company  
 Carrizo Oil & Gas, Inc.  
 Cimarex Energy Co.  
 CNX Resources Corporation  
 Comstock Resources, Inc.  
 Concho Resources Inc.  
 CSI Compressco LP  
 Dynegy Inc.  
 Enservco Corporation  
 EV Energy Partners, L.P.  
 Gran Tierra Energy Inc.  
 Hess Corporation  
 HighPoint Resources Corporation  
 ION Geophysical Corporation  
 Isramco, Inc.  
 Key Energy Services, Inc.  
 Marathon Oil Corporation  
 Matador Resources Company  
 Mexco Energy Corporation  
 Mid-Con Energy Partners, LP  
 Noble Energy, Inc.  
 PDC Energy, Inc.  
 Pioneer Energy Services Corp.  
 QEP Resources, Inc.  
 Range Resources Corporation  
 Rex Energy Corporation  
 SM Energy Company  
 SRC Energy Inc.  
 Stone Energy Corporation  
 Summit Midstream Partners, LP  
 Superior Energy Services, Inc.  
 Tengasco, Inc.  
 Unit Corporation  
 USA Compression Partners, LP  
 VAALCO Energy, Inc.  
 W&T Offshore, Inc.  
 Whiting Petroleum Corporation  
 WPX Energy, Inc.

### SIC 131

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Anadarko Petroleum Corporation  
 Approach Resources, Inc.  
 Cabot Oil & Gas Corporation  
 Callon Petroleum Company  
 Carrizo Oil & Gas, Inc.  
 Cimarex Energy Co.

CNX Resources Corporation  
 Comstock Resources, Inc.  
 Concho Resources Inc.  
 Dynegy Inc.  
 EV Energy Partners, L.P.  
 Gran Tierra Energy Inc.  
 Hess Corporation  
 HighPoint Resources Corporation  
 Isramco, Inc.  
 Marathon Oil Corporation  
 Matador Resources Company  
 Mexco Energy Corporation  
 Mid-Con Energy Partners, LP  
 Noble Energy, Inc.  
 PDC Energy, Inc.  
 QEP Resources, Inc.  
 Range Resources Corporation  
 Rex Energy Corporation  
 SM Energy Company  
 SRC Energy Inc.  
 Stone Energy Corporation  
 Summit Midstream Partners, LP  
 Tengasco, Inc.  
 VAALCO Energy, Inc.  
 W&T Offshore, Inc.  
 Whiting Petroleum Corporation  
 WPX Energy, Inc.

### SIC 2

---

A. Schulman, Inc.  
 Acorda Therapeutics, Inc.  
 Aemetis, Inc.  
 AMAG Pharmaceuticals, Inc.  
 American Lorain Corporation  
 Avon Products, Inc.  
 Calumet Specialty Products Partners, L.P.  
 Castle Brands Inc.  
 Cyanotech Corporation  
 Depomed, Inc.  
 Future FinTech Group Inc.  
 Impax Laboratories, Inc.  
 Innoviva, Inc.  
 Koppers Holdings Inc.  
 Lee Enterprises, Incorporated  
 LSB Industries, Inc.  
 OMNOVA Solutions Inc.  
 Pacific Ethanol, Inc.  
 Par Pacific Holdings, Inc.  
 Pernix Therapeutics Holdings, Inc.  
 Post Holdings, Inc.  
 Primo Water Corporation  
 Quad/Graphics, Inc.  
 Resolute Forest Products

## Appendix C: Companies (High-Financial-Risk Set) in Each Industry, by SIC Code

Inc.  
 Revlon, Inc.  
 Teligent, Inc.  
 The McClatchy Company  
 TreeHouse Foods, Inc.  
 Verso Corporation

Alphatec Holdings, Inc.  
 Ampco-Pittsburgh Corporation  
 AngioDynamics, Inc.  
 ARC Group Worldwide, Inc.  
 Archrock, Inc.  
 Arotech Corporation  
 Avid Technology, Inc.  
 Bel Fuse Inc.  
 Boston Scientific Corporation  
 Broadwind Energy, Inc.  
 CARBO Ceramics Inc.  
 Century Aluminum Company  
 China Recycling Energy Corporation  
 Clarus Corporation  
 Cray Inc.

RTI Surgical, Inc.  
 SIFCO Industries, Inc.  
 Sigma Designs, Inc.  
 SMTC Corporation  
 Summer Infant, Inc.  
 SunPower Corporation  
 Sypris Solutions, Inc.  
 Tel-Instrument Electronics Corp.  
 Tesla, Inc.  
 The L.S. Starrett Company  
 Titan International, Inc.  
 Triumph Group, Inc.  
 United States Steel Corporation  
 Universal Stainless & Alloy Products, Inc.  
 VOXX International Corporation  
 Xerium Technologies, Inc.  
 Xplore Technologies Corp.  
 Zebra Technologies Corporation

### SIC 20

American Lorain Corporation  
 Castle Brands Inc.  
 Future FinTech Group Inc.  
 Post Holdings, Inc.  
 Primo Water Corporation  
 TreeHouse Foods, Inc.

### SIC 28

A. Schulman, Inc.  
 Acorda Therapeutics, Inc.  
 Aemetis, Inc.  
 AMAG Pharmaceuticals, Inc.  
 Avon Products, Inc.  
 Cyanotech Corporation  
 Depomed, Inc.  
 Impax Laboratories, Inc.  
 Innoviva, Inc.  
 LSB Industries, Inc.  
 OMNOVA Solutions Inc.  
 Pacific Ethanol, Inc.  
 Pernix Therapeutics Holdings, Inc.  
 Revlon, Inc.  
 Teligent, Inc.

Cypress Semiconductor Corporation  
 DENTSPLY SIRONA Inc.  
 Ducommun Incorporated  
 Dynasil Corporation of America  
 Eastman Kodak Company  
 EMCORE Corporation  
 Extreme Networks, Inc.  
 FC Global Realty Incorporated  
 Fuel Tech, Inc.  
 General Cable Corporation  
 Harmonic Inc.  
 Harsco Corporation  
 Harvard Bioscience, Inc.  
 HRG Group, Inc.

### SIC 33

AK Steel Holding Corporation  
 Allegheny Technologies Incorporated  
 Century Aluminum Company  
 General Cable Corporation  
 United States Steel Corporation  
 Universal Stainless & Alloy Products, Inc.

### SIC 283

Acorda Therapeutics, Inc.  
 AMAG Pharmaceuticals, Inc.  
 Cyanotech Corporation  
 Depomed, Inc.  
 Impax Laboratories, Inc.  
 Innoviva, Inc.  
 Pernix Therapeutics Holdings, Inc.  
 Teligent, Inc.

IEC Electronics Corp.  
 Infinera Corporation  
 Invacare Corporation  
 Itron, Inc.  
 JAKKS Pacific, Inc.  
 Kandi Technologies Group, Inc.  
 KEMET Corporation  
 Kingold Jewelry, Inc.  
 MACOM Technology Solutions Holdings, Inc.  
 MagnaChip Semiconductor Corporation  
 MaxLinear, Inc.  
 Micron Solutions, Inc.  
 Motorcar Parts of America, Inc.

### SIC 35

3D Systems Corporation  
 Archrock, Inc.  
 Broadwind Energy, Inc.  
 Cray Inc.  
 Eastman Kodak Company  
 Extreme Networks, Inc.  
 Fuel Tech, Inc.  
 Infinera Corporation  
 Quantum Corporation  
 Xerium Technologies, Inc.  
 Xplore Technologies Corp.  
 Zebra Technologies Corporation

### SIC 2834

Depomed, Inc.  
 Impax Laboratories, Inc.  
 Innoviva, Inc.  
 Pernix Therapeutics Holdings, Inc.  
 Teligent, Inc.

Navistar International Corporation  
 NeoPhotonics Corporation  
 NF Energy Saving Corporation  
 Perma-Pipe International Holdings, Inc.  
 Quantum Corporation  
 Revolution Lighting Technologies, Inc.

### SIC 357

Cray Inc.  
 Eastman Kodak Company  
 Extreme Networks, Inc.  
 Infinera Corporation  
 Quantum Corporation  
 Xplore Technologies Corp.  
 Zebra Technologies Corporation

### SIC 3

3D Systems Corporation  
 Advanced Micro Devices, Inc.  
 Air Industries Group  
 AK Steel Holding Corporation  
 Allegheny Technologies Incorporated

## Appendix C: Companies (High-Financial-Risk Set) in Each Industry, by SIC Code

### SIC 36

Advanced Micro Devices, Inc.  
Arotech Corporation  
Bel Fuse Inc.  
China Recycling Energy Corporation  
Cypress Semiconductor Corporation  
EMCORE Corporation  
Harmonic Inc.  
HRG Group, Inc.  
IEC Electronics Corp.  
KEMET Corporation  
MACOM Technology Solutions Holdings, Inc.  
MagnaChip Semiconductor Corporation  
MaxLinear, Inc.  
Motorcar Parts of America, Inc.  
NeoPhotonics Corporation  
Revolution Lighting Technologies, Inc.  
Sigma Designs, Inc.  
SMTC Corporation  
SunPower Corporation

### SIC 367

Advanced Micro Devices, Inc.  
Bel Fuse Inc.  
Cypress Semiconductor Corporation  
EMCORE Corporation  
IEC Electronics Corp.  
KEMET Corporation  
MACOM Technology Solutions Holdings, Inc.  
MagnaChip Semiconductor Corporation  
MaxLinear, Inc.  
NeoPhotonics Corporation  
Sigma Designs, Inc.  
SMTC Corporation  
SunPower Corporation

### SIC 3674

Advanced Micro Devices, Inc.  
Cypress Semiconductor Corporation  
EMCORE Corporation  
MACOM Technology Solutions Holdings, Inc.  
MagnaChip Semiconductor Corporation  
MaxLinear, Inc.  
NeoPhotonics Corporation  
Sigma Designs, Inc.  
SunPower Corporation

### SIC 37

Ducommun Incorporated  
Kandi Technologies Group, Inc.  
Navistar International Corporation  
SIFCO Industries, Inc.  
Tesla, Inc.  
Triumph Group, Inc.

### SIC 38

Alphatec Holdings, Inc.  
AngioDynamics, Inc.  
Avid Technology, Inc.  
Boston Scientific Corporation  
DENTSPLY SIRONA Inc.  
Dynasil Corporation of America  
FC Global Realty Incorporated  
Harvard Bioscience, Inc.  
Invacare Corporation  
Itron, Inc.  
Micron Solutions, Inc.  
RTI Surgical, Inc.  
Tel-Instrument Electronics Corp.

### SIC 384

Alphatec Holdings, Inc.  
AngioDynamics, Inc.  
Boston Scientific Corporation  
DENTSPLY SIRONA Inc.  
FC Global Realty Incorporated  
Invacare Corporation  
Micron Solutions, Inc.  
RTI Surgical, Inc.

### SIC 4

American Midstream Partners, LP  
Avalon Holdings Corporation  
Boingo Wireless, Inc.  
Casella Waste Systems, Inc.  
Emmis Communications Corporation  
EnLink Midstream Partners, LP  
FirstEnergy Corp.  
Frontier Communications Corporation  
Fusion Telecommunications International, Inc.  
GCI Liberty, Inc. prior to merger with Liberty Ventures  
Globalstar, Inc.  
GTT Communications, Inc.  
Gulfmark Offshore, Inc.

Hornbeck Offshore Services, Inc.  
NRG Energy, Inc.  
ORBCOMM Inc.  
Perma-Fix Environmental Services, Inc.  
Sanchez Midstream Partners LP  
Southcross Energy Partners, L.P.  
Sprint Corporation  
Targa Resources Corp.  
Tidewater Inc.  
Urban One Inc.  
Windstream Holdings, Inc.  
XPO Logistics, Inc.  
YRC Worldwide Inc.

### SIC 48

Boingo Wireless, Inc.  
Emmis Communications Corporation  
Frontier Communications Corporation  
Fusion Telecommunications International, Inc.  
GCI Liberty, Inc. prior to merger with Liberty Ventures  
Globalstar, Inc.  
GTT Communications, Inc.  
ORBCOMM Inc.  
Sprint Corporation  
Urban One Inc.  
Windstream Holdings, Inc.

### SIC 49

American Midstream Partners, LP  
Avalon Holdings Corporation  
Casella Waste Systems, Inc.  
EnLink Midstream Partners, LP  
FirstEnergy Corp.  
NRG Energy, Inc.  
Perma-Fix Environmental Services, Inc.  
Southcross Energy Partners, L.P.  
Targa Resources Corp.

### SIC 5

Appliance Recycling Centers of America, Inc.  
Ascena Retail Group, Inc.  
AutoZone, Inc.  
Barnes & Noble, Inc.  
BlueLinx Holdings Inc.  
Bravo Brio Restaurant Group, Inc.  
CafePress Inc.

## Appendix C: Companies (High-Financial-Risk Set) in Each Industry, by SIC Code

Carrols Restaurant Group, Inc.  
 Cheniere Energy Partners, L.P.  
 Cheniere Energy, Inc.  
 Clean Energy Fuels Corp.  
 Destination XL Group, Inc.  
 Diversified Restaurant Holdings, Inc.  
 EVINE Live Inc.  
 Ferrellgas Partners, L.P.  
 GCI Liberty, Inc.  
 Good Times Restaurants Inc.  
 J. C. Penney Company, Inc.  
 Kona Grill, Inc.  
 Liquidity Services, Inc.  
 Luby's, Inc.  
 MRC Global Inc.  
 New York & Company, Inc.  
 Overstock.com, Inc.  
 Rite Aid Corporation  
 Sears Hometown and Outlet Stores, Inc.  
 Tailored Brands, Inc.  
 U.S. Auto Parts Network, Inc.

### SIC 58

Bravo Brio Restaurant Group, Inc.  
 Carrols Restaurant Group, Inc.  
 Diversified Restaurant Holdings, Inc.  
 Good Times Restaurants Inc.  
 Kona Grill, Inc.  
 Luby's, Inc.

### SIC 5812

Bravo Brio Restaurant Group, Inc.  
 Carrols Restaurant Group, Inc.  
 Diversified Restaurant Holdings, Inc.  
 Good Times Restaurants Inc.  
 Kona Grill, Inc.  
 Luby's, Inc.

### SIC 59

Barnes & Noble, Inc.  
 CafePress Inc.  
 EVINE Live Inc.  
 Ferrellgas Partners, L.P.  
 GCI Liberty, Inc.  
 Liquidity Services, Inc.  
 Overstock.com, Inc.  
 Rite Aid Corporation  
 U.S. Auto Parts Network, Inc.

### SIC 596

CafePress Inc.  
 EVINE Live Inc.  
 GCI Liberty, Inc.  
 Liquidity Services, Inc.  
 Overstock.com, Inc.  
 U.S. Auto Parts Network, Inc.

### SIC 6

AG Mortgage Investment Trust, Inc.  
 AGNC Investment Corp.  
 Ambac Financial Group, Inc.  
 American Realty Investors, Inc.  
 Arlington Asset Investment Corp.  
 Ashford Hospitality Trust, Inc.  
 BRT Apartments Corp.  
 Capstead Mortgage Corporation  
 Carver Bancorp, Inc.  
 CBL & Associates Properties, Inc.  
 Cedar Realty Trust, Inc.  
 Chimera Investment Corporation  
 Condor Hospitality Trust, Inc.  
 Consumer Portfolio Services, Inc.  
 CyrusOne Inc.  
 DDR Corp.  
 Dine Brands Global, Inc.  
 Ditech Holding Corporation  
 Dynex Capital, Inc.  
 Ellington Financial LLC  
 Envestnet, Inc.  
 Everi Holdings Inc.  
 Genworth Financial, Inc.  
 Gladstone Commercial Corporation  
 Government Properties Income Trust  
 Iconix Brand Group, Inc.  
 InnSuites Hospitality Trust  
 Investors Real Estate Trust  
 iStar Inc.  
 JMP Group LLC  
 Ladenburg Thalmann Financial Services Inc.  
 Mack-Cali Realty Corporation  
 MBIA Inc.  
 MMA Capital Management, LLC  
 Molina Healthcare, Inc.  
 MoneyGram International, Inc.  
 Navient Corporation

New England Realty Associates Limited Partnership  
 New York Mortgage Trust, Inc.  
 Oaktree Specialty Lending Corporation  
 Och-Ziff Capital Management Group LLC  
 Ocwen Financial Corporation  
 Pennsylvania Real Estate Investment Trust  
 PHH Corporation  
 Preferred Apartment Communities, Inc.  
 Regional Health Properties, Inc.  
 Resource Capital Corp.  
 SBA Communications Corporation  
 Sequential Brands Group, Inc.  
 Severn Bancorp, Inc.  
 Sotherly Hotels Inc.  
 STAG Industrial, Inc.  
 StoneMor Partners L.P.  
 The Bancorp, Inc.  
 Tiptree Inc.  
 Transcontinental Realty Investors, Inc.  
 Two Harbors Investment Corp.  
 UMH Properties, Inc.  
 VEREIT, Inc.

### SIC 60

Carver Bancorp, Inc.  
 Everi Holdings Inc.  
 MoneyGram International, Inc.  
 Ocwen Financial Corporation  
 Severn Bancorp, Inc.  
 The Bancorp, Inc.

### SIC 62

Ellington Financial LLC  
 Envestnet, Inc.  
 JMP Group LLC  
 Ladenburg Thalmann Financial Services Inc.  
 Och-Ziff Capital Management Group LLC

### SIC 67

AG Mortgage Investment Trust, Inc.  
 AGNC Investment Corp.  
 Arlington Asset Investment Corp.  
 Ashford Hospitality Trust, Inc.  
 BRT Apartments Corp.

## Appendix C: Companies (High-Financial-Risk Set) in Each Industry, by SIC Code

Capstead Mortgage Corporation  
 CBL & Associates Properties, Inc.  
 Cedar Realty Trust, Inc.  
 Chimera Investment Corporation  
 Condor Hospitality Trust, Inc.  
 CyrusOne Inc.  
 DDR Corp.  
 Dine Brands Global, Inc.  
 Dynex Capital, Inc.  
 Gladstone Commercial Corporation  
 Government Properties Income Trust  
 Iconix Brand Group, Inc.  
 InnSuites Hospitality Trust  
 Investors Real Estate Trust  
 iStar Inc.  
 Mack-Cali Realty Corporation  
 MMA Capital Management, LLC  
 New York Mortgage Trust, Inc.  
 Oaktree Specialty Lending Corporation  
 Pennsylvania Real Estate Investment Trust  
 Preferred Apartment Communities, Inc.  
 Regional Health Properties, Inc.  
 Resource Capital Corp.  
 SBA Communications Corporation  
 Sequential Brands Group, Inc.  
 Sotherly Hotels Inc.  
 STAG Industrial, Inc.  
 Two Harbors Investment Corp.  
 UMH Properties, Inc.  
 VEREIT, Inc.

DDR Corp.  
 Dynex Capital, Inc.  
 Gladstone Commercial Corporation  
 Government Properties Income Trust  
 InnSuites Hospitality Trust  
 Investors Real Estate Trust  
 iStar Inc.  
 Mack-Cali Realty Corporation  
 New York Mortgage Trust, Inc.  
 Pennsylvania Real Estate Investment Trust  
 Preferred Apartment Communities, Inc.  
 Regional Health Properties, Inc.  
 Resource Capital Corp.  
 SBA Communications Corporation  
 Sotherly Hotels Inc.  
 STAG Industrial, Inc.  
 Two Harbors Investment Corp.  
 UMH Properties, Inc.  
 VEREIT, Inc.

Kratos Defense & Security Solutions, Inc.  
 Leaf Group Ltd.  
 Live Nation Entertainment, Inc.  
 LivePerson, Inc.  
 National CineMedia, Inc.  
 NetSol Technologies, Inc.  
 Nuance Communications, Inc.  
 Penn National Gaming, Inc.  
 PFSweb, Inc.  
 Pinnacle Entertainment, Inc.  
 QuinStreet, Inc.  
 Red Lion Hotels Corporation  
 Rent-A-Center, Inc.  
 Ribbon Communications Inc.  
 salesforce.com, inc.  
 StarTek, Inc.  
 Steel Connect, Inc.  
 Synacor, Inc.  
 The InterGroup Corporation  
 The KeyW Holding Corporation  
 The Meet Group, Inc.  
 TheStreet, Inc.  
 Town Sports International Holdings, Inc.  
 Unisys Corporation  
 VeriSign, Inc.  
 Volt Information Sciences, Inc.  
 Willis Lease Finance Corporation

### SIC 6798

AG Mortgage Investment Trust, Inc.  
 AGNC Investment Corp.  
 Ashford Hospitality Trust, Inc.  
 BRT Apartments Corp.  
 Capstead Mortgage Corporation  
 CBL & Associates Properties, Inc.  
 Cedar Realty Trust, Inc.  
 Chimera Investment Corporation  
 Condor Hospitality Trust, Inc.  
 CyrusOne Inc.

### SIC 7

AeroCentury Corp.  
 Allscripts Healthcare Solutions, Inc.  
 Ascent Capital Group, Inc.  
 Asure Software, Inc.  
 Autodesk, Inc.  
 AutoWeb, Inc.  
 Black Box Corporation  
 Blackhawk Network Holdings, Inc.  
 Bottomline Technologies (de), Inc.  
 Caesars Entertainment Corporation  
 Callidus Software Inc.  
 Carbonite, Inc.  
 Cinedigm Corp.  
 Clear Channel Outdoor Holdings, Inc.  
 Command Security Corporation  
 Full House Resorts, Inc.  
 GEE Group, Inc.  
 General Finance Corporation  
 Glowpoint, Inc.  
 Groupon, Inc.  
 GSE Systems, Inc.  
 Heidrick & Struggles International, Inc.  
 Hertz Global Holdings, Inc.  
 Internap Corporation  
 Intersections Inc.

### SIC 73

AeroCentury Corp.  
 Allscripts Healthcare Solutions, Inc.  
 Ascent Capital Group, Inc.  
 Asure Software, Inc.  
 Autodesk, Inc.  
 AutoWeb, Inc.  
 Black Box Corporation  
 Blackhawk Network Holdings, Inc.  
 Bottomline Technologies (de), Inc.  
 Callidus Software Inc.  
 Carbonite, Inc.  
 Clear Channel Outdoor Holdings, Inc.  
 Command Security Corporation  
 GEE Group, Inc.  
 General Finance Corporation  
 Glowpoint, Inc.  
 Groupon, Inc.  
 GSE Systems, Inc.  
 Heidrick & Struggles International, Inc.

## Appendix C: Companies (High-Financial-Risk Set) in Each Industry, by SIC Code

Internap Corporation  
 Intersections Inc.  
 Kratos Defense & Security Solutions, Inc.  
 Leaf Group Ltd.  
 LivePerson, Inc.  
 National CineMedia, Inc.  
 NetSol Technologies, Inc.  
 Nuance Communications, Inc.  
 PFSweb, Inc.  
 QuinStreet, Inc.  
 Rent-A-Center, Inc.  
 Ribbon Communications Inc.  
 salesforce.com, inc.  
 StarTek, Inc.  
 Steel Connect, Inc.  
 Synacor, Inc.  
 The KeyW Holding Corporation  
 The Meet Group, Inc.  
 TheStreet, Inc.  
 Unisys Corporation  
 VeriSign, Inc.  
 Volt Information Sciences, Inc.  
 Willis Lease Finance Corporation

### SIC 737

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Allscripts Healthcare Solutions, Inc.  
 Asure Software, Inc.  
 Autodesk, Inc.  
 AutoWeb, Inc.  
 Black Box Corporation  
 Blackhawk Network Holdings, Inc.  
 Bottomline Technologies (de), Inc.  
 Callidus Software Inc.  
 Carbonite, Inc.  
 Glowpoint, Inc.  
 Groupon, Inc.  
 GSE Systems, Inc.  
 Internap Corporation  
 Kratos Defense & Security Solutions, Inc.  
 Leaf Group Ltd.  
 LivePerson, Inc.  
 NetSol Technologies, Inc.  
 Nuance Communications, Inc.  
 PFSweb, Inc.  
 QuinStreet, Inc.  
 Ribbon Communications Inc.  
 salesforce.com, inc.  
 Steel Connect, Inc.  
 Synacor, Inc.  
 The KeyW Holding Corporation

The Meet Group, Inc.  
 TheStreet, Inc.  
 Unisys Corporation  
 VeriSign, Inc.

### SIC 79

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Caesars Entertainment Corporation  
 Full House Resorts, Inc.  
 Live Nation Entertainment, Inc.  
 Penn National Gaming, Inc.  
 Pinnacle Entertainment, Inc.  
 Town Sports International Holdings, Inc.

### SIC 799

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Caesars Entertainment Corporation  
 Full House Resorts, Inc.  
 Penn National Gaming, Inc.  
 Pinnacle Entertainment, Inc.  
 Town Sports International Holdings, Inc.

### SIC 8

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AAC Holdings, Inc.  
 American Shared Hospital Services  
 Bioanalytical Systems, Inc.  
 BioScrip, Inc.  
 Brookdale Senior Living Inc.  
 Capital Senior Living Corporation  
 Community Health Systems, Inc.  
 Diversicare Healthcare Services, Inc.  
 Engility Holdings, Inc.  
 Five Star Senior Living Inc.  
 HCA Healthcare, Inc.  
 Kindred Healthcare, Inc.  
 Layne Christensen Company  
 Lincoln Educational Services Corporation  
 NeoGenomics, Inc.  
 Tenet Healthcare Corporation  
 Universal Technical Institute, Inc.

### SIC 80

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AAC Holdings, Inc.  
 American Shared Hospital Services  
 BioScrip, Inc.  
 Brookdale Senior Living Inc.  
 Community Health Systems, Inc.  
 Diversicare Healthcare Services, Inc.

Five Star Senior Living Inc.  
 HCA Healthcare, Inc.  
 Kindred Healthcare, Inc.  
 NeoGenomics, Inc.  
 Tenet Healthcare Corporation

## Appendix D:

# SIC Codes in which Companies (High-Financial-Risk Set) are Included

Appendix D is a list of the SIC codes in which each of the companies in the High-Financial-Risk Set of companies are included in the *2018 Valuation Handbook – U.S. Industry Cost of Capital* (data through March 2018).



Appendix D: SIC Codes in which Companies (High-Financial-Risk) are Included

3D Systems Corporation	DDD	3	35			BRT Apartments Corp.	BRT	6	67	6798
A. Schulman, Inc.	SHLM	2	28			Cabot Oil & Gas Corporation	COG	1	13	131
AAC Holdings, Inc.	AAC	8	80			Caesars Entertainment Corporation	CZR	7	79	799
Acorda Therapeutics, Inc.	ACOR	2	28	283		CafePress Inc.	PRSS	5	59	596
Advanced Micro Devices, Inc.	AMD	3	36	367	3674	Callidus Software Inc.	CALD	7	73	737
Aemetis, Inc.	AMTX	2	28			Callon Petroleum Company	CPE	1	13	131
AeroCentury Corp.	ACY	7	73			Calumet Specialty Products Partners, L.P.	CLMT	2		
AG Mortgage Investment Trust, Inc.	MITT	6	67		6798	Capital Senior Living Corporation	CSU	8		
AGNC Investment Corp.	AGNC	6	67		6798	Capstead Mortgage Corporation	CMO	6	67	6798
Air Industries Group	AIRI	3				CARBO Ceramics Inc.	CRR	3		
AK Steel Holding Corporation	AKS	3	33			Carbonite, Inc.	CARB	7	73	737
Allegheny Technologies Incorporated	ATI	3	33			Carrizo Oil & Gas, Inc.	CRZO	1	13	131
Allscripts Healthcare Solutions, Inc.	MDRX	7	73	737		Carrols Restaurant Group, Inc.	TAST	5	58	5812
Alphatec Holdings, Inc.	ATEC	3	38	384		Carver Bancorp, Inc.	CARV	6	60	
AMAG Pharmaceuticals, Inc.	AMAG	2	28	283		Casella Waste Systems, Inc.	CWST	4	49	
Ambac Financial Group, Inc.	AMBC	6				Castle Brands Inc.	ROX	2	20	
American Lorain Corporation	ALN	2	20			CBL & Associates Properties, Inc	CBL	6	67	6798
American Midstream Partners, LP	AMID	4	49			Cedar Realty Trust, Inc.	CDR	6	67	6798
American Realty Investors, Inc.	ARL	6				Century Aluminum Company	CENX	3	33	
American Shared Hospital Services	AMS	8	80			Cheniere Energy Partners, L.P.	CQP	5		
Ampco-Pittsburgh Corporation	AP	3				Cheniere Energy, Inc.	LNG	5		
Anadarko Petroleum Corporation	APC	1	13	131		Chimera Investment Corporation	CIM	6	67	6798
AngioDynamics, Inc.	ANGO	3	38	384		China Recycling Energy Corporation	CREG	3	36	
Appliance Recycling Centers of America, Inc.	ARCI	5				Cimarex Energy Co.	XEC	1	13	131
Approach Resources, Inc.	AREX	1	13	131		Cinedigm Corp.	CIDM	7		
ARC Group Worldwide, Inc.	ARCW	3				Clarus Corporation	CLAR	3		
Archrock, Inc.	AROC	3	35			Clean Energy Fuels Corp.	CLNE	5		
Arlington Asset Investment Corp.	AI	6	67			Clear Channel Outdoor Holdings, Inc.	CCO	7	73	
Arotech Corporation	ARTX	3	36			CNX Resources Corporation	CNX	1	13	131
Ascena Retail Group, Inc.	ASNA	5				Command Security Corporation	MOC	7	73	
Ascent Capital Group, Inc.	ASCMA	7	73			Community Health Systems, Inc.	CYH	8	80	
Ashford Hospitality Trust, Inc.	AHT	6	67		6798	Comstock Resources, Inc.	CRK	1	13	131
Asure Software, Inc.	ASUR	7	73	737		Concho Resources Inc.	CXO	1	13	131
Autodesk, Inc.	ADSK	7	73	737		Condor Hospitality Trust, Inc.	CDOR	6	67	6798
AutoWeb, Inc.	AUTO	7	73	737		Consumer Portfolio Services, Inc.	CPSS	6		
AutoZone, Inc.	AZO	5				Cray Inc.	CRAY	3	35	357
Avalon Holdings Corporation	AWX	4	49			CSI Compressco LP	CCLP	1	13	138
Avid Technology, Inc.	AVID	3	38			Cyanotech Corporation	CYAN	2	28	283
Avon Products, Inc.	AVP	2	28			Cypress Semiconductor Corporation	CY	3	36	367 3674
Barnes & Noble, Inc.	BKS	5	59			CyrusOne Inc.	CONE	6	67	6798
Basic Energy Services, Inc.	BAS	1	13	138		DDR Corp.	DDR	6	67	6798
Bel Fuse Inc.	BELFB	3	36	367		DENTSPLY SIRONA Inc.	XRAY	3	38	384
Bioanalytical Systems, Inc.	BASI	8				Depomed, Inc.	DEPO	2	28	283 2834
BioScrip, Inc.	BIOS	8	80			Destination XL Group, Inc.	DXLG	5		
Black Box Corporation	BBOX	7	73	737		Dine Brands Global, Inc.	DIN	6	67	
Blackhawk Network Holdings, Inc.	HAWK	7	73	737		Ditech Holding Corporation	DHCP	6		
BlueLinx Holdings Inc.	BXC	5				Diversicare Healthcare Services, Inc.	DVCR	8	80	
Boingo Wireless, Inc.	WIFI	4	48	489	4899	Diversified Restaurant Holdings, Inc.	SAUC	5	58	5812
Boston Scientific Corporation	BSX	3	38	384		Ducommun Incorporated	DCO	3	37	
Bottomline Technologies (de), Inc.	EPAY	7	73	737		Dynasil Corporation of America	DYSL	3	38	
Bravo Brio Restaurant Group, Inc.	BBRG	5	58		5812	Dynegy Inc.	DYN	1	13	131
Broadwind Energy, Inc.	BWEN	3	35			Dynex Capital, Inc.	DX	6	67	6798
Brookdale Senior Living Inc.	BKD	8	80			Eastman Kodak Company	KODK	3	35	357
						Ellington Financial LLC	EFC	6	62	

Appendix D: SIC Codes in which Companies (High-Financial-Risk) are Included

EMCORE Corporation	EMKR	3	36	367	3674	Intersections Inc.	INTX	7	73		
Emmis Communications Corporation	EMMS	4	48			Intrepid Potash, Inc.	IPI	1			
Engility Holdings, Inc.	EGL	8				Invacare Corporation	IVC	3	38	384	
EnLink Midstream Partners, LP	ENLK	4	49			Investors Real Estate Trust	IRET	6	67		6798
Enservco Corporation	ENSV	1	13	138		ION Geophysical Corporation	IO	1	13	138	
Envestnet, Inc.	ENV	6	62			Isramco, Inc.	ISRL	1	13	131	
EV Energy Partners, L.P.	EVEP	1	13	131		iStar Inc.	STAR	6	67		6798
Everi Holdings Inc.	EVRI	6	60			Itron, Inc.	ITRI	3	38		
EVINE Live Inc.	EVLV	5	59	596		J. C. Penney Company, Inc.	JCP	5			
Extreme Networks, Inc.	EXTR	3	35	357		JAKKS Pacific, Inc.	JAKK	3			
FC Global Realty Incorporated	FCRE	3	38	384		JMP Group LLC	JMP	6	62		
Ferrellgas Partners, L.P.	FGP	5	59			Kandi Technologies Group, Inc.	KNDI	3	37		
FirstEnergy Corp.	FE	4	49			KBR, Inc.	KBR	1			
Five Star Senior Living Inc.	FVE	8	80			KEMET Corporation	KEM	3	36	367	
Frontier Communications Corporation	FTR	4	48			Key Energy Services, Inc.	KEG	1	13	138	
Fuel Tech, Inc.	FTEK	3	35			Kindred Healthcare, Inc.	KND	8	80		
Full House Resorts, Inc.	FLL	7	79	799		Kingold Jewelry, Inc.	KGJI	3			
Fusion Telecommunications International, Inc.	FSNN	4	48	489	4899	Kona Grill, Inc.	KONA	5	58		5812
Future FinTech Group Inc.	FTFT	2	20			Koppers Holdings Inc.	KOP	2			
GCI Liberty, Inc.	GLIBA	5	59	596		Kratos Defense & Security Solutions, Inc.	KTOS	7	73	737	
GCI Liberty, Inc. prior to merger with Liberty Ventures	GNCMA	4	48			Ladenburg Thalmann Financial Services Inc.	LTS	6	62		
GEE Group, Inc.	JOB	7	73			Layne Christensen Company	LAYN	8			
General Cable Corporation	BGC	3	33			Leaf Group Ltd.	LFGR	7	73	737	
General Finance Corporation	GFN	7	73			Lee Enterprises, Incorporated	LEE	2			
Genworth Financial, Inc.	GNW	6				Lincoln Educational Services Corporation	LINC	8			
Gladstone Commercial Corporation	GOOD	6	67		6798	Liquidity Services, Inc.	LQDT	5	59	596	
Globalstar, Inc.	GSAT	4	48	489	4899	Live Nation Entertainment, Inc.	LYV	7	79		
Glowpoint, Inc.	GLOW	7	73	737		LivePerson, Inc.	LPSN	7	73	737	
Good Times Restaurants Inc.	GTIM	5	58		5812	LSB Industries, Inc.	LXU	2	28		
Government Properties Income Trust	GOV	6	67		6798	Luby's, Inc.	LUB	5	58		5812
Gran Tierra Energy Inc.	GTE	1	13	131		Mack-Cali Realty Corporation	CLI	6	67		6798
Groupon, Inc.	GRPN	7	73	737		MACOM Technology Solutions Holdings, Inc.	MTSI	3	36	367	3674
GSE Systems, Inc.	GVP	7	73	737		MagnaChip Semiconductor Corporation	MX	3	36	367	3674
GTT Communications, Inc.	GTT	4	48	489	4899	Marathon Oil Corporation	MRO	1	13	131	
Gulfmark Offshore, Inc.	GLF	4				Matador Resources Company	MTDR	1	13	131	
Harmonic Inc.	HLIT	3	36			MaxLinear, Inc.	MXL	3	36	367	3674
Harsco Corporation	HSC	3				MBIA Inc.	MBI	6			
Harvard Bioscience, Inc.	HBIO	3	38			Mexco Energy Corporation	MXC	1	13	131	
HCA Healthcare, Inc.	HCA	8	80			Micron Solutions, Inc.	MICR	3	38	384	
Hecla Mining Company	HL	1				Mid-Con Energy Partners, LP	MCEP	1	13	131	
Heidrick & Struggles International, Inc.	HSII	7	73			MMA Capital Management, LLC	MMAC	6	67		
Hertz Global Holdings, Inc.	HTZ	7				Molina Healthcare, Inc.	MOH	6			
Hess Corporation	HES	1	13	131		MoneyGram International, Inc.	MGI	6	60		
HighPoint Resources Corporation	HPR	1	13	131		Motorcar Parts of America, Inc.	MPAA	3	36		
Hornbeck Offshore Services, Inc.	HOS	4				MRC Global Inc.	MRC	5			
Hovnanian Enterprises, Inc.	HOV	1				National CineMedia, Inc.	NCMI	7	73		
HRG Group, Inc.	HRG	3	36			Navient Corporation	NAVI	6			
Iconix Brand Group, Inc.	ICON	6	67			Navistar International Corporation	NAV	3	37		
IEC Electronics Corp.	IEC	3	36	367		NeoGenomics, Inc.	NEO	8	80		
Impax Laboratories, Inc.	IPXL	2	28	283	2834	NeoPhotonics Corporation	NPTN	3	36	367	3674
Infinera Corporation	INFN	3	35	357		NetSol Technologies, Inc.	NTWK	7	73	737	
Innoviva, Inc.	INVA	2	28	283	2834	New England Realty Associates Limited Partnership	NEN	6			
InnSuites Hospitality Trust	IHT	6	67		6798	New York & Company, Inc.	NWY	5			
Internap Corporation	INAP	7	73	737		New York Mortgage Trust, Inc.	NYMT	6	67		6798

Appendix D: SIC Codes in which Companies (High-Financial-Risk) are Included

NF Energy Saving Corporation	NFEC	3				Southcross Energy Partners, L.P.	SXE	4	49		
Noble Energy, Inc.	NBL	1	13	131		Sprint Corporation	S	4	48		
NRG Energy, Inc.	NRG	4	49			SRC Energy Inc.	SRCI	1	13	131	
Nuance Communications, Inc.	NUAN	7	73	737		STAG Industrial, Inc.	STAG	6	67		6798
Oaktree Specialty Lending Corporation	OCSL	6	67			StarTek, Inc.	SRT	7	73		
Och-Ziff Capital Management Group LLC	OZM	6	62			Steel Connect, Inc.	STCN	7	73	737	
Ocwen Financial Corporation	OCN	6	60			Stone Energy Corporation	SGY	1	13	131	
OMNOVA Solutions Inc.	OMN	2	28			StoneMor Partners L.P.	STON	6			
ORBCOMM Inc.	ORBC	4	48	489	4899	Summer Infant, Inc.	SUMR	3			
Overstock.com, Inc.	OSTK	5	59	596		Summit Midstream Partners, LP	SMLP	1	13	131	
Pacific Ethanol, Inc.	PEIX	2	28			SunPower Corporation	SPWR	3	36	367	3674
Par Pacific Holdings, Inc.	PARR	2				Superior Energy Services, Inc.	SPN	1	13	138	
PDC Energy, Inc.	PDCE	1	13	131		Synacor, Inc.	SYNC	7	73	737	
Penn National Gaming, Inc.	PENN	7	79	799		Sypris Solutions, Inc.	SYPR	3			
Pennsylvania Real Estate Investment Trust	PEI	6	67		6798	Tailored Brands, Inc.	TLRD	5			
Perma-Fix Environmental Services, Inc.	PESI	4	49			Targa Resources Corp.	TRGP	4	49		
Perma-Pipe International Holdings, Inc.	PPIH	3				Teligent, Inc.	TLGT	2	28	283	2834
Pernix Therapeutics Holdings, Inc.	PTX	2	28	283	2834	Tel-Instrument Electronics Corp.	TIK	3	38		
PFSweb, Inc.	PFSW	7	73	737		Tenet Healthcare Corporation	THC	8	80		
PHH Corporation	PHH	6				Tengasco, Inc.	TGC	1	13	131	
Pinnacle Entertainment, Inc.	PNK	7	79	799		Tesla, Inc.	TSLA	3	37		
Pioneer Energy Services Corp.	PES	1	13	138		The Bancorp, Inc.	TBBK	6	60		
Post Holdings, Inc.	POST	2	20			The InterGroup Corporation	INTG	7			
Preferred Apartment Communities, Inc.	APTS	6	67		6798	The KeyW Holding Corporation	KEYW	7	73	737	
Primo Water Corporation	PRMW	2	20			The L.S. Starrett Company	SCX	3			
QEP Resources, Inc.	QEP	1	13	131		The McClatchy Company	MNI	2			
Quad/Graphics, Inc.	QUAD	2				The Meet Group, Inc.	MEET	7	73	737	
Quantum Corporation	QTM	3	35	357		TheStreet, Inc.	TST	7	73	737	
QuinStreet, Inc.	QNST	7	73	737		Tidewater Inc.	TDW	4			
Range Resources Corporation	RRC	1	13	131		Tiptree Inc.	TIPT	6			
Red Lion Hotels Corporation	RLH	7				Titan International, Inc.	TWI	3			
Regional Health Properties, Inc.	RHE	6	67		6798	Town Sports International Holdings, Inc.	CLUB	7	79	799	
Rent-A-Center, Inc.	RCII	7	73			Transcontinental Realty Investors, Inc.	TCI	6			
Resolute Forest Products Inc.	RFP	2				TreeHouse Foods, Inc.	THS	2	20		
Resource Capital Corp.	RSO	6	67		6798	Triumph Group, Inc.	TGI	3	37		
Revlon, Inc.	REV	2	28			Two Harbors Investment Corp.	TWO	6	67		6798
Revolution Lighting Technologies, Inc.	RVLT	3	36			U.S. Auto Parts Network, Inc.	PRTS	5	59	596	
Rex Energy Corporation	REXX	1	13	131		UMH Properties, Inc.	UMH	6	67		6798
Ribbon Communications Inc.	RBBN	7	73	737		Unisys Corporation	UIS	7	73	737	
Rite Aid Corporation	RAD	5	59			Unit Corporation	UNT	1	13		
RTI Surgical, Inc.	RTIX	3	38	384		United States Steel Corporation	X	3	33		
S&W Seed Company	SANW	1				Universal Stainless & Alloy Products, Inc.	USAP	3	33		
salesforce.com, inc.	CRM	7	73	737		Universal Technical Institute, Inc.	UTI	8			
Sanchez Midstream Partners LP	SNMP	4				Urban One Inc.	UONEK	4	48		
SBA Communications Corporation	SBAC	6	67		6798	USA Compression Partners, LP	USAC	1	13	138	
Sears Hometown and Outlet Stores, Inc.	SHOS	5				VAALCO Energy, Inc.	EGY	1	13	131	
Sequential Brands Group, Inc.	SQBG	6	67			VEREIT, Inc.	VER	6	67		6798
Severn Bancorp, Inc.	SVBI	6	60			VeriSign, Inc.	VRSN	7	73	737	
SIFCO Industries, Inc.	SIF	3	37			Verso Corporation	VRS	2			
Sigma Designs, Inc.	SIGM	3	36	367	3674	Volt Information Sciences, Inc.	VISI	7	73		
SM Energy Company	SM	1	13	131		VOXX International Corporation	VOXX	3			
SMTC Corporation	SMTX	3	36	367		W&T Offshore, Inc.	WTI	1	13	131	
Sotherly Hotels Inc.	SOHO	6	67		6798	Westmoreland Coal Company	WLB	1			
						Westmoreland Resource Partners, LP	WMLP	1			
						Whiting Petroleum Corporation	WLL	1	13	131	
						Willis Lease Finance Corporation	WLFC	7	73		
						Windstream Holdings, Inc.	WIN	4	48		

#### Appendix D: SIC Codes in which Companies (High-Financial-Risk) are Included

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WPX Energy, Inc.	WPX	1	13	131
Xerium Technologies, Inc.	XRM	3	35	
Xplore Technologies Corp.	XPLR	3	35	357
XPO Logistics, Inc.	XPO	4		
YRC Worldwide Inc.	YRCW	4		
Zebra Technologies Corporation	ZBRA	3	35	357

## Appendix E:

### Industry List by SIC Code

Appendix E is a list of the U.S. industries analyzed in the *2018 Valuation Handbook – U.S. Industry Cost of Capital* (data through March 2018) by SIC code.

Appendix E: Industry List by SIC Code

1	Mining & Construction	3679	Electronic Components, Not Elsewhere Classified
13	Oil and Gas Extraction	369	Miscellaneous Electrical Machinery, Equipment, and Supplies
131	Crude Petroleum and Natural Gas	37	Transportation Equipment
14	Mining and Quarrying Of Nonmetallic Minerals, Except Fuels	371	Motor Vehicles and Motor Vehicle Equipment
15	Building Construction General Contractors and Operative Builders	3711	Motor Vehicles and Passenger Car Bodies
16	Heavy Construction Other Than Building Construction Contractors	3714	Motor Vehicle Parts and Accessories
162	Heavy Construction, Except Highway and Street	38	Measuring, Analyzing, and Controlling Instruments; Photographic, Medical and Clocks
2	Manufacturing	382	Laboratory Apparatus and Analytical, Optical, Measuring, and Controlling Instruments
20	Food and Kindred Products	3825	Instruments for Measuring and Testing of Electricity and Electrical Signals
201	Meat Products	3826	Laboratory Analytical Instruments
203	Canned, Frozen, and Preserved Fruits, Vegetables, and Food Specialties	384	Surgical, Medical, and Dental Instruments and Supplies
208	Beverages	3841	Surgical and Medical Instruments and Apparatus
2086	Bottled and Canned Soft Drinks and Carbonated Waters	3845	Electromedical and Electrotherapeutic Apparatus
23	Apparel and Other Finished Products Made From Fabrics and Similar Materials	39	Miscellaneous Manufacturing Industries
24	Lumber and Wood Products, Except Furniture	394	Dolls, Toys, Games and Sporting and Athletic Goods
25	Furniture and Fixtures	4	Transportation, Communications, Electric, Gas, and Sanitary Services
251	Household Furniture	40	Railroad Transportation
252	Office Furniture	42	Motor Freight Transportation and Warehousing
26	Paper and Allied Products	4213	Trucking, Except Local
262	Paper Mills	45	Transportation By Air
265	Paperboard Containers and Boxes	451	Air Transportation, Scheduled, and Air Courier
267	Converted Paper and Paperboard Products, Except Printing	4512	Air Transportation, Scheduled
27	Printing, Publishing, and Allied Industries	46	Pipelines, Except Natural Gas
28	Chemicals and Allied Products	47	Transportation Services
281	Industrial Inorganic Chemicals	473	Arrangement Of Transportation Of Freight and Cargo
283	Drugs	48	Communications
2834	Pharmaceutical Preparations	481	Telephone Communications
2835	In Vitro and In Vivo Diagnostic Substances	4813	Telephone Communications, Except Radiotelephone
2836	Biological Products, Except Diagnostic Substances	483	Radio and Television Broadcasting Stations
284	Soap, Detergents, and Cleaning Preparations; Perfumes, Cosmetics, and Other Toilet Preparations	4833	Television Broadcasting Stations
286	Industrial Organic Chemicals	49	Electric, Gas, and Sanitary Services
287	Agricultural Chemicals	491	Electric Services
289	Miscellaneous Chemical Products	492	Gas Production and Distribution
29	Petroleum Refining and Related Industries	4922	Natural Gas Transmission
291	Petroleum Refining	4924	Natural Gas Distribution
3	Manufacturing	493	Combination Electric and Gas, and Other Utility
30	Rubber and Miscellaneous Plastics Products	494	Water Supply
308	Miscellaneous Plastics Products	495	Sanitary Services
32	Stone, Clay, Glass, and Concrete Products	5	Wholesale Trade & Retail Trade
33	Primary Metal Industries	50	Wholesale Trade-durable Goods
331	Steel Works, Blast Furnaces, and Rolling and Finishing Mills	504	Professional and Commercial Equipment and Supplies
34	Fabricated Metal Products, Except Machinery and Transportation Equipment	5045	Computers and Computer Peripheral Equipment and Software
342	Cutlery, Handtools, and General Hardware	506	Electrical Goods
344	Fabricated Structural Metal Products	508	Machinery, Equipment, and Supplies
349	Miscellaneous Fabricated Metal Products	51	Wholesale Trade-non-durable Goods
35	Industrial and Commercial Machinery and Computer Equipment	512	Drugs, Drug Proprietaries, and Druggists' Sundries
353	Construction, Mining, and Materials Handling	514	Groceries and Related Products
3533	Oil and Gas Field Machinery and Equipment	517	Petroleum and Petroleum Products
355	Special Industry Machinery, Except Metalworking	5172	Petroleum and Petroleum Products Wholesalers, Except Bulk Stations and Terminals
3559	Special Industry Machinery, Not Elsewhere Classified	53	General Merchandise Stores
356	General Industrial Machinery and Equipment	533	Variety Stores
357	Computer and Office Equipment	54	Food Stores
36	Electronic and Other Electrical Equipment and Components, Except Computers	541	Grocery Stores
362	Electrical Industrial Apparatus	55	Automotive Dealers and Gasoline Service Stations
3621	Motors and Generators	56	Apparel and Accessory Stores
366	Communications Equipment	565	Family Clothing Stores
3663	Radio and Television Broadcasting and Communications Equipment	57	Home Furniture, Furnishings, and Equipment Stores
367	Electronic Components and Accessories	58	Eating and Drinking Places
3672	Printed Circuit Boards	5812	Eating Places
3674	Semiconductors and Related Devices		

## Appendix E: Industry List by SIC Code

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59	Miscellaneous Retail
594	Miscellaneous Shopping Goods Stores
596	Nonstore Retailers
6	Finance, Insurance, and Real Estate
60	Depository Institutions
602	Commercial Banks
603	Savings Institutions
6035	Savings Institutions, Federally Chartered
6036	Savings Institutions, Not Federally Chartered
609	Functions Related To Depository Banking
61	Non-depository Credit Institutions
614	Personal Credit Institutions
616	Mortgage Bankers and Brokers
62	Security and Commodity Brokers, Dealers, Exchanges, and Services
621	Security Brokers, Dealers, and Flotation
628	Services Allied With The Exchange Of Securities
63	Insurance Carriers
631	Life Insurance
632	Accident and Health Insurance and Medical
6324	Hospital and Medical Service Plans
633	Fire, Marine, and Casualty Insurance
64	Insurance Agents, Brokers, and Service
65	Real Estate
653	Real Estate Agents and Managers
655	Land Subdividers and Developers
67	Holding and Other Investment Offices
6794	Patent Owners and Lessors
6798	Real Estate Investment Trusts
7	Services
73	Business Services
735	Miscellaneous Equipment Rental and Leasing
736	Personnel Supply Services
7363	Help Supply Services
737	Computer Programming, Data Processing, and Other Computer Related Services
7372	Prepackaged Software
7373	Computer Integrated Systems Design
7374	Computer Processing and Data Preparation and Processing Services
738	Miscellaneous Business Services
7389	Business Services, Not Elsewhere Classified
79	Amusement and Recreation Services
799	Miscellaneous Amusement and Recreation
8	Services
80	Health Services
82	Educational Services
87	Engineering, Accounting, Research, Management, and Related Services
871	Engineering, Architectural, and Surveying
874	Management and Public Relations Services
8742	Management Consulting Services

## Appendix F:

### Industry List by Industry Name (alphabetical)

Appendix F is a list of the U.S. industries analyzed in the *2018 Valuation Handbook – U.S. Industry Cost of Capital* (data through March 2018) in alphabetical order.



Appendix F: Industry List by Industry Name (alphabetical)

Accident and Health Insurance and Medical	632	Fire, Marine, and Casualty Insurance	633
Agricultural Chemicals	287	Food and Kindred Products	20
Air Transportation, Scheduled	4512	Food Stores	54
Air Transportation, Scheduled, and Air Courier	451	Functions Related To Depository Banking	609
Amusement and Recreation Services	79	Furniture and Fixtures	25
Apparel and Accessory Stores	56	Gas Production and Distribution	492
Apparel and Other Finished Products Made From Fabrics and Similar Materials	23	General Industrial Machinery and Equipment	356
Arrangement Of Transportation Of Freight and Cargo	473	General Merchandise Stores	53
Automotive Dealers and Gasoline Service Stations	55	Groceries and Related Products	514
Beverages	208	Grocery Stores	541
Biological Products, Except Diagnostic Substances	2836	Health Services	80
Bottled and Canned Soft Drinks and Carbonated Waters	2086	Heavy Construction Other Than Building Construction Contractors	16
Building Construction General Contractors and Operative Builders	15	Heavy Construction, Except Highway and Street	162
Business Services	73	Help Supply Services	7363
Business Services, Not Elsewhere Classified	7389	Holding and Other Investment Offices	67
Canned, Frozen, and Preserved Fruits, Vegetables, and Food Specialties	203	Home Furniture, Furnishings, and Equipment Stores	57
Chemicals and Allied Products	28	Hospital and Medical Service Plans	6324
Combination Electric and Gas, and Other Utility	493	Household Furniture	251
Commercial Banks	602	In Vitro and In Vivo Diagnostic Substances	2835
Communications	48	Industrial and Commercial Machinery and Computer Equipment	35
Communications Equipment	366	Industrial Inorganic Chemicals	281
Computer and Office Equipment	357	Industrial Organic Chemicals	286
Computer Integrated Systems Design	7373	Instruments for Measuring and Testing of Electricity and Electrical Signals	3825
Computer Processing and Data Preparation and Processing Services	7374	Insurance Agents, Brokers, and Service	64
Computer Programming, Data Processing, and Other Computer Related Services	737	Insurance Carriers	63
	5045	Laboratory Analytical Instruments	3826
Computers and Computer Peripheral Equipment and Software		Laboratory Apparatus and Analytical, Optical, Measuring, and Controlling Instruments	382
Construction, Mining, and Materials Handling	353	Land Subdividers and Developers	655
Converted Paper and Paperboard Products, Except	267	Life Insurance	631
Crude Petroleum and Natural Gas	131	Lumber and Wood Products, Except Furniture	24
Cutlery, Handtools, and General Hardware	342	Machinery, Equipment, and Supplies	508
Depository Institutions	60	Management and Public Relations Services	874
Dolls, Toys, Games and Sporting and Athletic Goods	394	Management Consulting Services	8742
Drugs	283	Manufacturing	2
Drugs, Drug Proprietaries, and Druggists' Sundries	512	Manufacturing	3
Eating and Drinking Places	58		38
Eating Places	5812	Measuring, Analyzing, and Controlling Instruments; Photographic, Medical and Optical Goods; Watches and Clocks	201
Educational Services	82	Meat Products	1
Electric Services	491	Mining & Construction	14
Electric, Gas, and Sanitary Services	49	Mining and Quarrying Of Nonmetallic Minerals, Except Fuels	799
Electrical Goods	506	Miscellaneous Amusement and Recreation	738
Electrical Industrial Apparatus	362	Miscellaneous Business Services	289
Electromedical and Electrotherapeutic Apparatus	3845	Miscellaneous Chemical Products	369
Electronic and Other Electrical Equipment and Components, Except Computer Equipment	36	Miscellaneous Electrical Machinery, Equipment, and Supplies	735
Electronic Components and Accessories	367	Miscellaneous Equipment Rental and Leasing	349
Electronic Components, Not Elsewhere Classified	3679	Miscellaneous Fabricated Metal Products	39
Engineering, Accounting, Research, Management, and Related Services	87	Miscellaneous Manufacturing Industries	308
Engineering, Architectural, and Surveying	871	Miscellaneous Plastics Products	59
Fabricated Metal Products, Except Machinery and Transportation Equipment	34	Miscellaneous Retail	594
Fabricated Structural Metal Products	344	Miscellaneous Shopping Goods Stores	616
Family Clothing Stores	565	Mortgage Bankers and Brokers	42
Finance, Insurance, and Real Estate	6	Motor Freight Transportation and Warehousing	3714
		Motor Vehicle Parts and Accessories	371
		Motor Vehicles and Motor Vehicle Equipment	3711
		Motor Vehicles and Passenger Car Bodies	

Appendix F: Industry List by Industry Name (alphabetical)

Motors and Generators	3621	Transportation, Communications, Electric, Gas, and Sanitary Services	4
Natural Gas Distribution	4924	Trucking, Except Local	4213
Natural Gas Transmission	4922	Variety Stores	533
Non-depository Credit Institutions	61	Water Supply	494
Nonstore Retailers	596	Wholesale Trade & Retail Trade	5
Office Furniture	252	Wholesale Trade-durable Goods	50
Oil and Gas Extraction	13	Wholesale Trade-non-durable Goods	51
Oil and Gas Field Machinery and Equipment	3533		
Paper and Allied Products	26		
Paper Mills	262		
Paperboard Containers and Boxes	265		
Patent Owners and Lessors	6794		
Personal Credit Institutions	614		
Personnel Supply Services	736		
Petroleum and Petroleum Products	517		
Petroleum and Petroleum Products Wholesalers, Except Bulk Stations and Terminals	5172		
Petroleum Refining	291		
Petroleum Refining and Related Industries	29		
Pharmaceutical Preparations	2834		
Pipelines, Except Natural Gas	46		
Prepackaged Software	7372		
Primary Metal Industries	33		
Printed Circuit Boards	3672		
Printing, Publishing, and Allied Industries	27		
Professional and Commercial Equipment and Supplies	504		
Radio and Television Broadcasting and Communications Equipment	3663		
Radio and Television Broadcasting Stations	483		
Railroad Transportation	40		
Real Estate	65		
Real Estate Agents and Managers	653		
Real Estate Investment Trusts	6798		
Rubber and Miscellaneous Plastics Products	30		
Sanitary Services	495		
Savings Institutions	603		
Savings Institutions, Federally Chartered	6035		
Savings Institutions, Not Federally Chartered	6036		
Security and Commodity Brokers, Dealers, Exchanges, and Services	62		
Security Brokers, Dealers, and Flotation	621		
Semiconductors and Related Devices	3674		
Services	7		
Services	8		
Services Allied With The Exchange Of Securities	628		
Soap, Detergents, and Cleaning Preparations; Perfumes, Cosmetics, and Other Toilet Preparations	284		
Special Industry Machinery, Except Metalworking	355		
Special Industry Machinery, Not Elsewhere Classified	3559		
Steel Works, Blast Furnaces, and Rolling and Finishing Mills	331		
Stone, Clay, Glass, and Concrete Products	32		
Surgical and Medical Instruments and Apparatus	3841		
Surgical, Medical, and Dental Instruments and Supplies	384		
Telephone Communications	481		
Telephone Communications, Except Radiotelephone	4813		
Television Broadcasting Stations	4833		
Transportation By Air	45		
Transportation Equipment	37		
Transportation Services	47		