

DUFF & PHELPS

**2019** Valuation Handbook  
U.S. Industry Cost of Capital

Market Results Through June 2019

Duff & Phelps

Company and SIC List

Cover design: Zach Rodheim, Design Manager, Duff & Phelps Publications Business

Copyright © 2019 Duff & Phelps, LLC. All Rights Reserved. The information and data presented in the *2019 Valuation Handbook – U.S. Industry Cost of Capital* has been obtained with the greatest of care from sources believed to be reliable, but is not guaranteed to be complete, accurate, or timely. Duff & Phelps, LLC ([www.duffandphelps.com](http://www.duffandphelps.com)) and/or its data providers expressly disclaim any liability, including incidental or consequential damages, arising from the use of the *2019 Valuation Handbook – U.S. Industry Cost of Capital* or any errors or omissions that may be contained in the *2019 Valuation Handbook – U.S. Industry Cost of Capital*, or any other product (existing or to be developed) based upon the methodology and/or data published herein.

Public or internal distributions (e.g., posting data, information, charts, tables, and/or figures, or images from the *2019 Valuation Handbook – U.S. Industry Cost of Capital* to public or internal websites; using data, information, charts, tables, and/or figures, or images from the *2019 Valuation Handbook – U.S. Industry Cost of Capital* in marketing materials) is expressly forbidden, and no part of the *2019 Valuation Handbook – U.S. Industry Cost of Capital* may be reproduced or used in any form or by any other means – graphic, electronic, or mechanical, including photocopying, recording, taping, or information storage and retrieval systems – without Duff & Phelps LLC's prior, written permission.

To obtain permission, please write to: Cost of Capital Navigator, Duff & Phelps LLC, 311 S. Wacker Dr., Suite 4200, Chicago, IL 60606. Your request should specify the data or other information you wish to use and the manner in which you wish to use it. In addition, you will need to include copies of any charts, tables, and/or figures that you have created based on that information. There is a \$1,500 processing fee per request. There may be additional fees depending on your proposed usage. One of the sources of raw data used to produce the derived data and information in the *2019 Valuation Handbook – U.S. Industry Cost of Capital* is Morningstar, Inc. Use of raw data from Morningstar to produce the derived data and information herein does not necessarily constitute agreement by Morningstar, Inc. of any investment philosophy or strategy presented in this publication.

The forgoing does not preclude End-Users from citing the *2019 Valuation Handbook – U.S. Industry Cost of Capital* for End-User's own internal business purposes, which includes the ability to provide *limited* citations to End-User's *direct* clients solely for the purpose of performing services for such direct clients in the ordinary course of End-User's business activities.

Published by:

Duff & Phelps, LLC

311 South Wacker Drive

Suite 4200

Chicago, IL 60606

(312) 697-4600

[www.duffandphelps.com](http://www.duffandphelps.com)

# About Duff & Phelps

Duff & Phelps is the global advisor that protects, restores and maximizes value for clients in the areas of valuation, corporate finance, investigations, disputes, cyber security, compliance and regulatory matters, and other governance-related issues. We work with clients across diverse sectors, mitigating risk to assets, operations and people. With Kroll, a division of Duff & Phelps since 2018, our firm has nearly 3,500 professionals in 28 countries around the world. For more information, visit [www.duffandphelps.com](http://www.duffandphelps.com).

*M&A advisory, capital raising and secondary market advisory services in the United States are provided by Duff & Phelps Securities, LLC. Member FINRA/SIPC. Pagemill Partners is a Division of Duff & Phelps Securities, LLC. M&A advisory, capital raising and secondary market advisory services in the United Kingdom are provided by Duff & Phelps Securities Ltd. (DPSL), which is authorized and regulated by the Financial Conduct Authority. M&A advisory and capital raising services in Germany are provided by Duff & Phelps GmbH, which is a Tied Agent of DPSL. Valuation Advisory Services in India are provided by Duff & Phelps India Private Limited under a category 1 merchant banker license issued by the Securities and Exchange Board of India.*

## 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) 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* (this book), (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® (SBBi®) Yearbook*, has been published for over 30 years.<sup>1</sup> The *SBBi® Yearbook* does not provide extensive valuation data or methodology.<sup>2</sup>

### The Four Valuation Handbooks are Transitioning from Print to Online Delivery in 2019 and 2020

In 2019 and 2020, 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).

---

<sup>1</sup> "Stocks, Bonds, Bills, and Inflation®" and "SBBi®" are registered trademarks of Morningstar, Inc. All rights reserved. Used with permission.

<sup>2</sup> Morningstar previously published two "Ibbotson SBBi®" yearbooks: (i) The *SBBi® "Classic" Yearbook*, which is now produced by Duff & Phelps as the "*SBBi® Yearbook*" starting in 2016 (the word "Classic" was dropped from the title), and (ii) the *SBBi® "Valuation" Yearbook*, which was discontinued by Morningstar in 2013. The former Ibbotson/Morningstar *SBBi® 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 Cost of Capital Navigator online platform. To learn more about the Cost of Capital Navigator, visit: [dpcostofcapital.com](http://dpcostofcapital.com).

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

## 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* is available exclusively in the new online Cost of Capital Navigator platform at [dpcostofcapital.com](http://dpcostofcapital.com). The Cost of Capital Navigator includes two essential U.S. valuation data sets:

- The CRSP Decile Size Study (the former Ibbotson Associates/Morningstar *SBBI*® *Valuation Yearbook* data)<sup>4</sup>
- The Risk Premium Report Study

The Cost of Capital Navigator includes size premia, industry risk premia, equity risk premia (ERPs), risk-free rates, and other risk premia that Analysts have used and trusted for years to develop cost of capital estimates for U.S. companies.

The *2019 Cost of Capital: Annual U.S. Guidance and Examples* is a companion publication available to licensees of the Cost of Capital Navigator.<sup>5</sup>

To be clear, the *2019 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, 2018
- 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.

---

<sup>4</sup> Morningstar previously published two "Ibbotson SBBI"® yearbooks: (i) The *SBBI*® "Classic" *Yearbook*, which is now produced by Duff & Phelps as the "*SBBI*® *Yearbook*" starting in 2016 (the word "Classic" was dropped from the title), and (ii) the *SBBI*® "*Valuation*" *Yearbook*, which was discontinued by Morningstar in 2013. The former Ibbotson/Morningstar *SBBI*® *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 Cost of Capital Navigator online platform. To learn more about the Cost of Capital Navigator, visit: [dpcostofcapital.com](http://dpcostofcapital.com).

<sup>5</sup> The *2019 Cost of Capital: Annual U.S. Guidance and Examples* is available to licensed Cost of Capital Navigator users only. The *2018 Cost of Capital: Annual U.S. Guidance and Examples* is sold separately (\$45). "The *2018 Cost of Capital: Annual Guidance and Examples* provides many examples for properly using the CRSP Deciles Size Study and Risk Premium Report Study data to resource for training new staff." – Roger Grabowski, Duff & Phelps

## The Other Three *Valuation Handbooks* Will Transition from Print to Online Delivery Later in 2019 and 2020

The other three *Valuation Handbooks* (the *Valuation Handbook – U.S. Industry Cost of Capital*, the *Valuation Handbook – International Guide to Cost of Capital*, and the *Valuation Handbook – International Industry Cost of Capital*) will be printed and distributed as books in 2019, but the information and data from these books is scheduled to be available exclusively in the Cost of Capital Navigator after the transition.

By the end of 2020, the essential data and information from all four *Valuation Handbooks* is scheduled to be housed online in the Cost of Capital Navigator platform, and physical books that include the data exhibits will not be commercially available. The 2019 and 2020 schedule is provided below:<sup>6</sup>

<b>Valuation Handbook</b>	<b>2019</b>	<b>2020</b>
<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 in the Cost of Capital Navigator platform
<i>Valuation Handbook – U.S. Industry Cost of Capital</i>	Printed as book	Data available exclusively in the Cost of Capital Navigator platform
<i>Valuation Handbook – International Guide to Cost of Capital</i>	Printed as book	Data available exclusively in the Cost of Capital Navigator platform
<i>Valuation Handbook – International Industry Cost of Capital</i>	Printed as book	Data available exclusively in the Cost of Capital Navigator platform

## The *Cost of Capital: Applications and Examples* (5th Edition) and the *SBBi® 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 *SBBi® Yearbook* over to the Cost of Capital Navigator platform. These two books will continue to be published as hardcover books.<sup>7</sup>

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

<sup>6</sup> Duff & Phelps reserves the right to amend this schedule as needed.

<sup>7</sup> The *SBBi® 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 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.*

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 2020.

*"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 (from the Foreword)

*"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 Morningstar/Ibbotson *Stocks, Bonds, Bills, and Inflation*<sup>®</sup> (SBB<sup>I</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 *2019 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 *2019 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, 2018.
- 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/Morningstar SBB<sup>I</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>8</sup>

---

<sup>8</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 early 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 early 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 2019, but the information and data from this book will be added to the Cost of Capital Navigator later in 2019. Starting in 2020, 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 2019, but the information and data from this book will be added to the *Cost of Capital Navigator* later in 2019 and 2020. Starting in 2020, 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 186 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 Finance at the Fuqua School of Business, Duke University; Research Associate of the National Bureau of Economic Research in Cambridge, Massachusetts; President of the American Finance Association in 2016

## **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 2019, but the information and data from this book will be added to the *Cost of Capital Navigator* later in 2019 and 2020. Starting in 2020, 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>9</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.

---

<sup>9</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>10,11,12</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.

---

<sup>10</sup> The *SBBi® Classic Yearbook* (as it was known at that time) was published by Morningstar, Inc. from 2007 through 2015, and by Ibbotson Associates in years prior to 2007.

<sup>11</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 annually for over 30 years. The *SBBi® Yearbook* does not provide extensive valuation data or methodology.

<sup>12</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 *2019 Valuation Handbook – U.S. Industry Cost of Capital* is published with data through March 2019, and includes three intra-year Quarterly Updates (June, September, and December 2019), delivered in Adobe PDF format.<sup>13,14</sup>

The *2019 Valuation Handbook – U.S. Industry Cost of Capital* provides cost of capital estimates (i.e., equity capital, debt capital, and WACC) for approximately 170 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>15</sup>

The information in the *2019 Valuation Handbook – U.S. Industry Cost of Capital*, “Company and SIC List” (this document) is a list of the companies used in the approximate 170 U.S. industry analyses presented in the *2019 Valuation Handbook – U.S. Industry Cost of Capital, Quarterly Update 1* (data through June 2019). As such, the information herein is specific to the *2019 Valuation Handbook – Industry Cost of Capital, Quarterly Update 1* (data through June 2019), 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 *2019 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 *2019 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

---

<sup>13</sup> The Quarterly Updates are now included, and are not sold separately.

<sup>14</sup> The *2019 Valuation Handbook – U.S. Industry Cost of Capital* was published with data through March 2019, and also includes June, September, and December (2019) Quarterly Updates.

<sup>15</sup> The *2019 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 *2019 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.

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 *2019 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 *2019 Valuation Handbook – U.S. Industry Cost of Capital* (data through June 2019).

**SIC 1**

Alico, Inc.  
 Alliance Resource Partners, L.P.  
 Ameresco, Inc.  
 Antero Resources Corporation  
 Beazer Homes USA, Inc.  
 Cabot Oil & Gas Corporation  
 Callon Petroleum Company  
 Cal-Maine Foods, Inc.  
 Century Communities, Inc.  
 Ciner Resources LP  
 Comfort Systems USA, Inc.  
 Compass Minerals International, Inc.  
 ConocoPhillips  
 Continental Resources, Inc.  
 D.R. Horton, Inc.  
 DCP Midstream, LP  
 Diamondback Energy, Inc.  
 EMCOR Group, Inc.  
 EOG Resources, Inc.  
 Evolution Petroleum Corporation  
 Fluor Corporation  
 Gold Resource Corporation  
 Granite Construction Incorporated  
 Hallador Energy Company  
 Helmerich & Payne, Inc.  
 Hi-Crush Partners LP  
 IES Holdings, Inc.  
 Installed Building Products, Inc.  
 Jacobs Engineering Group Inc.  
 KB Home  
 Lennar Corporation  
 LGI Homes, Inc.  
 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.  
 Newmont Goldcorp Corporation  
 NVR, Inc.  
 Oasis Petroleum Inc.  
 Panhandle Oil and Gas Inc.  
 Parsley Energy, Inc.

Pioneer Natural Resources Company  
 PrimeEnergy Resources 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  
 William Lyon Homes

Cabot Oil & Gas Corporation  
 Callon Petroleum Company  
 Cal-Maine Foods, Inc.  
 ConocoPhillips  
 Continental Resources, Inc.  
 DCP Midstream, LP  
 Diamondback Energy, Inc.  
 EOG Resources, Inc.  
 Evolution Petroleum Corporation  
 Oasis Petroleum Inc.  
 Panhandle Oil and Gas Inc.  
 Parsley Energy, Inc.  
 Pioneer Natural Resources Company  
 PrimeEnergy Resources Corporation  
 VOC Energy Trust

**SIC 10**

Alico, Inc.  
 Gold Resource Corporation  
 Limoneira Company  
 Newmont Goldcorp Corporation  
 Southern Copper Corporation

**SIC 13**

Antero Resources Corporation  
 Cabot Oil & Gas Corporation  
 Callon Petroleum Company  
 Cal-Maine Foods, Inc.  
 ConocoPhillips  
 Continental Resources, Inc.  
 DCP Midstream, LP  
 Diamondback Energy, Inc.  
 EOG Resources, Inc.  
 Evolution Petroleum Corporation  
 Helmerich & Payne, Inc.  
 Oasis Petroleum Inc.  
 Panhandle Oil and Gas Inc.  
 Parsley Energy, Inc.  
 Pioneer Natural Resources Company  
 PrimeEnergy Resources Corporation  
 RPC, Inc.  
 VOC Energy Trust

**SIC 131**

Antero Resources Corporation

**SIC 14**

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

**SIC 15**

Beazer Homes USA, Inc.  
 Century Communities, Inc.  
 D.R. Horton, Inc.  
 KB Home  
 Lennar Corporation  
 LGI Homes, Inc.  
 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**

Ameresco, Inc.  
 Fluor Corporation  
 Granite Construction Incorporated  
 Jacobs Engineering Group Inc.  
 MasTec, Inc.  
 MYR Group Inc.

Primoris Services  
Corporation  
The Goldfield Corporation

## Company

Columbia Sportswear  
Company  
Conagra Brands, Inc.  
Corcept Therapeutics  
Incorporated  
Craft Brew Alliance, Inc.  
Crown Crafts, Inc.  
CVR Energy, Inc.  
Darling Ingredients Inc.  
Delek US Holdings, Inc.  
Delta Apparel, Inc.  
Deluxe Corporation  
Domtar Corporation  
DuPont de Nemours, Inc.  
Eastman Chemical  
Company  
Eli Lilly and Company  
Emergent BioSolutions  
Inc.  
Enanta Pharmaceuticals,  
Inc.  
Ethan Allen Interiors Inc.  
Exelixis, Inc.  
Exxon Mobil Corporation  
Farmer Bros. Co.  
Ferro Corporation  
Flexible Solutions  
International Inc.  
Flexsteel Industries, Inc.  
Flowers Foods, Inc.  
FMC Corporation  
FutureFuel Corp.  
General Mills, Inc.  
Gilead Sciences, Inc.  
Graphic Packaging  
Holding Company  
Green Plains Inc.  
Greif, Inc.  
Guess?, Inc.  
Gulf Resources, Inc.  
H.B. Fuller Company  
Hanesbrands Inc.  
Heska Corporation  
Hexcel Corporation  
HNI Corporation  
HollyFrontier Corporation  
Hooker Furniture  
Corporation  
Hormel Foods Corporation  
Huntsman Corporation  
IDEXX Laboratories, Inc.  
IKONICS Corporation  
Ingredion Incorporated  
Innophos Holdings, Inc.  
Innospec Inc.  
Innoviva, Inc.  
Inter Parfums, Inc.  
Interface, Inc.  
International Flavors &  
Fragrances Inc.  
International Paper  
Company

IT Tech Packaging, Inc.  
J & J Snack Foods Corp.  
John B. Sanfilippo & Son,  
Inc.  
John Wiley & Sons, Inc.  
Kellogg Company  
Kimball International, Inc.  
Kimberly-Clark  
Corporation  
Knoll, Inc.  
Kraton Corporation  
Kronos Worldwide, Inc.  
Laboratory Corporation of  
America Holdings  
Lancaster Colony  
Corporation  
Landec Corporation  
Lannett Company, Inc.  
Lear Corporation  
Lee Enterprises,  
Incorporated  
LifeVantage Corporation  
Lifeway Foods, Inc.  
Ligand Pharmaceuticals  
Incorporated  
Louisiana-Pacific  
Corporation  
Luminex Corporation  
Mannatech, Incorporated  
McCormick & Company,  
Incorporated  
Medifast, Inc.  
Merck International Inc.  
Merck & Co., Inc.  
Meridian Bioscience, Inc.  
MGP Ingredients, Inc.  
Mohawk Industries, Inc.  
Molson Coors Brewing  
Company  
Mondelez International,  
Inc.  
Monster Beverage  
Corporation  
Myriad Genetics, Inc.  
National Beverage Corp.  
Natural Alternatives  
International, Inc.  
Nature's Sunshine  
Products, Inc.  
Neenah, Inc.  
Nektar Therapeutics  
Neogen Corporation  
New Media Investment  
Group Inc.  
NewMarket Corporation  
Nova LifeStyle, Inc.  
Nu Skin Enterprises, Inc.  
Ocean Bio-Chem, Inc.  
Olin Corporation  
OraSure Technologies,  
Inc.  
O'Reilly Automotive, Inc.  
Oxford Industries, Inc.

**SIC 2**

AbbVie Inc.  
ACCO Brands Corporation  
Air Products and  
Chemicals, Inc.  
Albemarle Corporation  
Alexion Pharmaceuticals,  
Inc.  
Altria Group, Inc.  
American Vanguard  
Corporation  
American Woodmark  
Corporation  
Amgen Inc.  
ANI Pharmaceuticals, 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.  
Biogen Inc.  
Bio-Rad Laboratories, Inc.  
BioSpecifics Technologies  
Corp.  
Bio-Techne Corporation  
Bridgford Foods  
Corporation  
Bristol-Myers Squibb  
Company  
Brown-Forman  
Corporation  
Builders FirstSource, Inc.  
Cabot Corporation  
Cabot Microelectronics  
Corporation  
Cambrex Corporation  
Campbell Soup Company  
Carter's, Inc.  
Cavco Industries, Inc.  
Celanese Corporation  
Celgene Corporation  
CF Industries Holdings,  
Inc.  
Chase Corporation  
Chevron Corporation  
Church & Dwight Co., Inc.  
Cintas Corporation  
Clearwater Paper  
Corporation  
Coca-Cola Consolidated,  
Inc.  
Colgate-Palmolive

P. H. Glatfelter Company  
 Packaging Corporation of America  
 Patrick Industries, Inc.  
 PBF Energy Inc.  
 PepsiCo, Inc.  
 Pfizer Inc.  
 Phibro Animal Health Corporation  
 Phillips 66  
 Pilgrim's Pride Corporation  
 PPG Industries, Inc.  
 Pro-Dex, Inc.  
 PVH Corp.  
 Quaker Chemical Corporation  
 Quidel Corporation  
 Ralph Lauren Corporation  
 Rayonier Advanced Materials Inc.  
 Regeneron  
 Pharmaceuticals, Inc.  
 Renewable Energy Group, Inc.  
 Repligen Corporation  
 REX American Resources Corporation  
 RPM International Inc.  
 Sanderson Farms, Inc.  
 Scholastic Corporation  
 Schweitzer-Mauduit International, Inc.  
 Seneca Foods Corporation  
 Sensient Technologies Corporation  
 SIGA Technologies, Inc.  
 Sleep Number Corporation  
 Sonoco Products Company  
 Stepan Company  
 Supernus Pharmaceuticals, Inc.  
 Tempur Sealy International, Inc.  
 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 Mosaic 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.  
 USANA Health Sciences, Inc.  
 Valero Energy Corporation  
 Valhi, Inc.  
 Value Line, Inc.  
 Vertex Pharmaceuticals Incorporated  
 Virco Mfg. Corporation  
 W. R. Grace & Co.  
 WD-40 Company  
 Westlake Chemical Corporation  
 WestRock Company  
 Willamette Valley Vineyards, Inc.  
 Zoetis Inc.

---

**SIC 20**

Archer-Daniels-Midland Company  
 B&G Foods, Inc.  
 Bridgford Foods Corporation  
 Brown-Forman Corporation  
 Campbell Soup Company  
 Coca-Cola Consolidated, Inc.  
 Conagra Brands, Inc.  
 Craft Brew Alliance, Inc.  
 Darling Ingredients Inc.  
 Farmer Bros. Co.  
 Flowers Foods, Inc.  
 General Mills, Inc.  
 Hormel Foods Corporation  
 Ingredient 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  
 Sanderson Farms, Inc.  
 Seneca Foods Corporation  
 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.  
 Campbell Soup Company  
 Lancaster Colony Corporation  
 Landec Corporation  
 Seneca Foods Corporation  
 The J. M. Smucker Company

---

**SIC 208**

Brown-Forman Corporation  
 Coca-Cola Consolidated, Inc.  
 Craft Brew Alliance, Inc.  
 MGP Ingredients, Inc.  
 Molson Coors Brewing Company  
 Monster Beverage Corporation  
 National Beverage Corp.  
 PepsiCo, Inc.  
 The Boston Beer Company, Inc.

The Coca-Cola Company  
Willamette Valley  
Vineyards, Inc.

**SIC 23**

Carter's, Inc.  
Cintas Corporation  
Columbia Sportswear  
Company  
Delta Apparel, Inc.  
Guess?, Inc.  
Hanesbrands Inc.  
Oxford Industries, Inc.  
PVH Corp.  
Ralph Lauren Corporation  
Under Armour, Inc.  
UniFirst Corporation

**SIC 24**

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

**SIC 25**

Bassett Furniture  
Industries, Incorporated  
Ethan Allen Interiors Inc.  
Flexsteel Industries, Inc.  
HNI Corporation  
Hooker Furniture  
Corporation  
Kimball International, Inc.  
Knoll, Inc.  
Lear Corporation  
Nova LifeStyle, Inc.  
Sleep Number  
Corporation  
Tempur Sealy  
International, Inc.  
Virco Mfg. Corporation

**SIC 251**

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

**SIC 26**

Avery Dennison  
Corporation  
Clearwater Paper  
Corporation  
Domtar Corporation  
Graphic Packaging  
Holding Company  
Greif, Inc.  
International Paper  
Company  
IT Tech Packaging, Inc.  
Kimberly-Clark  
Corporation  
Mercer International Inc.  
Neenah, Inc.  
O'Reilly Automotive, Inc.  
P. H. Glatfelter Company  
Packaging Corporation of  
America  
Sonoco Products  
Company  
WestRock Company

**SIC 262**

Domtar Corporation  
IT Tech Packaging, Inc.  
Kimberly-Clark  
Corporation  
Neenah, Inc.  
P. H. Glatfelter Company

**SIC 265**

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

**SIC 27**

ACCO Brands Corporation  
Deluxe Corporation  
John Wiley & Sons, Inc.  
Lee Enterprises,  
Incorporated  
New Media Investment  
Group Inc.  
Scholastic Corporation  
The New York Times  
Company  
Value Line, Inc.

**SIC 28**

AbbVie Inc.  
Air Products and  
Chemicals, Inc.  
Albemarle Corporation  
Alexion Pharmaceuticals,  
Inc.

American Vanguard  
Corporation  
Amgen Inc.  
ANI Pharmaceuticals, Inc.  
Anika Therapeutics, Inc.  
Ashland Global Holdings  
Inc.  
Balchem Corporation  
Baxter International Inc.  
Biogen Inc.  
Bio-Rad Laboratories, 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  
Church & Dwight Co., Inc.  
Colgate-Palmolive  
Company  
Corcept Therapeutics  
Incorporated  
DuPont de Nemours, Inc.  
Eastman Chemical  
Company  
Eli Lilly and Company  
Emergent BioSolutions  
Inc.  
Enanta Pharmaceuticals,  
Inc.  
Exelixis, Inc.  
Ferro Corporation  
Flexible Solutions  
International 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  
Innophos Holdings, Inc.  
Innospec Inc.  
Innoviva, Inc.  
Inter Parfums, Inc.  
International Flavors &  
Fragrances Inc.  
Kraton Corporation  
Kronos Worldwide, Inc.  
Lannett Company, Inc.  
LifeVantage Corporation

Ligand Pharmaceuticals Incorporated  
 Luminex Corporation  
 Mannatech, Incorporated  
 Merck & Co., Inc.  
 Meridian Bioscience, Inc.  
 Myriad Genetics, Inc.  
 Natural Alternatives International, Inc.  
 Nature's Sunshine Products, Inc.  
 Nektar Therapeutics  
 Neogen Corporation  
 NewMarket Corporation  
 Nu Skin Enterprises, Inc.  
 Ocean Bio-Chem, Inc.  
 Olin Corporation  
 OraSure Technologies, Inc.  
 Pfizer Inc.  
 Phibro Animal Health Corporation  
 PPG Industries, Inc.  
 Pro-Dex, Inc.  
 Quidel Corporation  
 Regeneron  
 Pharmaceuticals, Inc.  
 Repligen Corporation  
 REX American Resources Corporation  
 RPM International Inc.  
 Sensient Technologies Corporation  
 SIGA Technologies, Inc.  
 Stepan Company  
 Supernus  
 Pharmaceuticals, Inc.  
 The Clorox Company  
 The Estée Lauder Companies Inc.  
 The Mosaic Company  
 The Scotts Miracle-Gro Company  
 The Sherwin-Williams Company  
 United Therapeutics Corporation  
 United-Guardian, Inc.  
 USANA Health Sciences, Inc.  
 Valhi, Inc.  
 Vertex Pharmaceuticals Incorporated  
 W. R. Grace & Co.  
 WD-40 Company  
 Westlake Chemical Corporation  
 Zoetis Inc.

**SIC 281**

Air Products and Chemicals, Inc.

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

**SIC 283**

AbbVie Inc.  
 Alexion Pharmaceuticals, Inc.  
 Amgen Inc.  
 ANI Pharmaceuticals, Inc.  
 Anika Therapeutics, Inc.  
 Balchem Corporation  
 Baxter International Inc.  
 Biogen Inc.  
 Bio-Rad Laboratories, Inc.  
 BioSpecifics Technologies Corp.  
 Bio-Techne Corporation  
 Bristol-Myers Squibb Company  
 Cambrex Corporation  
 Celgene Corporation  
 Corcept Therapeutics Incorporated  
 Eli Lilly and Company  
 Emergent BioSolutions Inc.  
 Enanta Pharmaceuticals, Inc.  
 Exelixis, Inc.  
 Gilead Sciences, Inc.  
 Heska Corporation  
 IDEXX Laboratories, Inc.  
 Innoviva, Inc.  
 Lannett Company, Inc.  
 LifeVantage Corporation  
 Ligand Pharmaceuticals Incorporated  
 Luminex Corporation  
 Mannatech, Incorporated  
 Merck & Co., Inc.  
 Meridian Bioscience, Inc.  
 Myriad Genetics, Inc.  
 Natural Alternatives International, Inc.  
 Nature's Sunshine Products, Inc.  
 Nektar Therapeutics  
 Neogen Corporation  
 Nu Skin Enterprises, Inc.  
 OraSure Technologies, Inc.  
 Pfizer Inc.  
 Phibro Animal Health Corporation  
 Quidel Corporation  
 Regeneron  
 Pharmaceuticals, Inc.

Repligen Corporation  
 SIGA Technologies, Inc.  
 Supernus  
 Pharmaceuticals, Inc.  
 United Therapeutics Corporation  
 United-Guardian, Inc.  
 USANA Health Sciences, Inc.  
 Vertex Pharmaceuticals Incorporated  
 Zoetis Inc.

**SIC 2834**

ANI Pharmaceuticals, Inc.  
 Balchem Corporation  
 Baxter International Inc.  
 Bio-Rad Laboratories, Inc.  
 BioSpecifics Technologies Corp.  
 Bristol-Myers Squibb Company  
 Celgene Corporation  
 Corcept Therapeutics Incorporated  
 Eli Lilly and Company  
 Innoviva, Inc.  
 Lannett Company, Inc.  
 LifeVantage Corporation  
 Ligand Pharmaceuticals Incorporated  
 Mannatech, Incorporated  
 Merck & Co., Inc.  
 Natural Alternatives International, Inc.  
 Nature's Sunshine Products, Inc.  
 Nektar Therapeutics  
 Nu Skin Enterprises, Inc.  
 Pfizer Inc.  
 Regeneron  
 Pharmaceuticals, Inc.  
 Supernus  
 Pharmaceuticals, Inc.  
 United Therapeutics Corporation  
 United-Guardian, Inc.  
 USANA Health Sciences, Inc.  
 Vertex Pharmaceuticals Incorporated  
 Zoetis Inc.

**SIC 2835**

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

**SIC 2836**

AbbVie Inc.  
 Alexion Pharmaceuticals, Inc.  
 Amgen Inc.  
 Anika Therapeutics, Inc.  
 Biogen Inc.  
 Emergent BioSolutions Inc.  
 Enanta Pharmaceuticals, Inc.  
 Exelixis, Inc.  
 Gilead Sciences, Inc.  
 Repligen Corporation  
 SIGA Technologies, Inc.

**SIC 284**

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

**SIC 286**

FutureFuel Corp.  
 NewMarket Corporation  
 REX American Resources Corporation  
 Sensient Technologies Corporation  
 Westlake Chemical Corporation

**SIC 287**

American Vanguard Corporation  
 CF Industries Holdings, Inc.  
 FMC Corporation  
 The Mosaic Company  
 The Scotts Miracle-Gro Company

**SIC 289**

Cabot Corporation  
 Cabot Microelectronics Corporation  
 Chase Corporation  
 H.B. Fuller Company  
 WD-40 Company

**SIC 29**

Chevron Corporation  
 CVR Energy, Inc.  
 Delek US Holdings, Inc.  
 Exxon Mobil Corporation  
 HollyFrontier Corporation

PBF Energy Inc.  
 Phillips 66  
 Quaker Chemical Corporation  
 Renewable Energy Group, Inc.  
 Trecora Resources  
 Valero Energy Corporation

**SIC 291**

Chevron Corporation  
 CVR Energy, Inc.  
 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.  
 ABIOMED, Inc.  
 Acme United Corporation  
 Acuity Brands, Inc.  
 ADTRAN, Inc.  
 Advanced Energy Industries, Inc.  
 AeroVironment, Inc.  
 AGCO Corporation  
 Alamo Group Inc.  
 Align Technology, Inc.  
 Allied Motion Technologies Inc.  
 Allison Transmission Holdings, Inc.  
 Alphabet Inc.  
 Altra Industrial Motion Corp.  
 American Axle & Manufacturing Holdings, Inc.  
 American Outdoor Brands Corporation  
 AMETEK, Inc.  
 Amkor Technology, Inc.  
 Amphenol Corporation  
 Analog Devices, Inc.  
 AngioDynamics, Inc.  
 Apple Inc.  
 Applied Materials, Inc.  
 Applied Optoelectronics, Inc.  
 AptarGroup, Inc.  
 Arista Networks, Inc.  
 Armstrong World Industries, Inc.  
 Arotech Corporation  
 Astec Industries, Inc.  
 Astronics Corporation  
 AstroNova, Inc.

Atrion Corporation  
 Autoliv, Inc.  
 AVX Corporation  
 Axcelis Technologies, Inc.  
 Axon Enterprise, Inc.  
 AXT, Inc.  
 Badger Meter, Inc.  
 Ball Corporation  
 Barnes Group Inc.  
 Becton, Dickinson and Company  
 Belden Inc.  
 Benchmark Electronics, Inc.  
 BK Technologies Corporation  
 BorgWarner Inc.  
 Boston Scientific Corporation  
 Brady Corporation  
 Briggs & Stratton Corporation  
 Broadcom Inc.  
 Bruker Corporation  
 Brunswick Corporation  
 BWX Technologies, Inc.  
 Caleres, Inc.  
 Callaway Golf Company  
 Cantel Medical Corp.  
 Carpenter Technology Corporation  
 Caterpillar Inc.  
 Cemtrex, Inc.  
 Chicago Rivet & Machine Co.  
 China Automotive Systems, Inc.  
 Ciena Corporation  
 CIRCOR International, Inc.  
 Cirrus Logic, Inc.  
 Cisco Systems, Inc.  
 Clearfield, Inc.  
 Coda Octopus Group, Inc.  
 Cognex Corporation  
 Coherent, Inc.  
 Cohu, Inc.  
 Colfax Corporation  
 Columbus McKinnon Corporation  
 Commercial Metals Company  
 Commercial Vehicle Group, Inc.  
 CommScope Holding Company, Inc.  
 CompX International Inc.  
 Comtech Telecommunications Corp.  
 CONMED Corporation  
 Connecticut Water Service, Inc.

Continental Building Products, Inc.	Fossil Group, Inc.	Corporation
Control4 Corporation	Fox Factory Holding Corp.	KEMET Corporation
Cooper Tire & Rubber Company	Franklin Electric Co., Inc.	Kewaunee Scientific Corporation
Cooper-Standard Holdings Inc.	Friedman Industries, Incorporated	Key Tronic Corporation
Core Molding Technologies, Inc.	Gencor Industries, Inc.	Kulicke and Soffa Industries, Inc.
Cornerstone Building Brands, Inc.	Generac Holdings Inc.	L3Harris Technologies, Inc.
Corning Incorporated	General Dynamics Corporation	Lakeland Industries, Inc.
Crane Co.	General Motors Company	Lam Research Corporation
Crown Holdings, Inc.	Gentex Corporation	LCI Industries
CTS Corporation	Gentherm Incorporated	LeMaitre Vascular, Inc.
Cubic Corporation	Global Brass and Copper Holdings, Inc.	Lennox International Inc.
Curtiss-Wright Corporation	Globus Medical, Inc.	Lifetime Brands, Inc.
CVD Equipment Corporation	Graco Inc.	LightPath Technologies, Inc.
CyberOptics Corporation	Graham Corporation	Lincoln Electric Holdings, Inc.
Daktronics, Inc.	Griffon Corporation	Lindsay Corporation
Dana Incorporated	Haemonetics Corporation	Littelfuse, Inc.
Danaher Corporation	Harley-Davidson, Inc.	Lockheed Martin Corporation
Data I/O Corporation	Harsco Corporation	LRAD Corporation
Deere & Company	Hasbro, Inc.	Lydall, Inc.
Digi International Inc.	Haynes International, Inc.	Malibu Boats, Inc.
Diodes Incorporated	HEICO Corporation	Marine Products Corporation
Donaldson Company, Inc.	Helios Technologies, Inc.	Masimo Corporation
Dorman Products, Inc.	Highpower International, Inc.	Materion Corporation
Douglas Dynamics, Inc.	Hillenbrand, Inc.	Maxim Integrated Products, Inc.
Dover Corporation	Hologic, Inc.	Mercury Systems, Inc.
Dril-Quip, Inc.	HP Inc.	Merit Medical Systems, Inc.
Ducommun Incorporated	Hubbell Incorporated	Meritor, Inc.
Dynasil Corporation of America	Huntington Ingalls Industries, Inc.	Mesa Laboratories, Inc.
Eagle Materials Inc.	Hurco Companies, Inc.	Methode Electronics, Inc.
EchoStar Corporation	Hyster-Yale Materials Handling, Inc.	Mettler-Toledo International Inc.
Edwards Lifesciences Corporation	ICU Medical, Inc.	Microchip Technology Incorporated
Electromed, Inc.	IDEX Corporation	Micron Technology, Inc.
Electronics for Imaging, Inc.	II-VI Incorporated	Miller Industries, Inc.
Electro-Sensors, Inc.	Illinois Tool Works Inc.	Mitek Systems, Inc.
Emerson Electric Co.	Illumina, Inc.	MKS Instruments, Inc.
Encore Wire Corporation	Inogen, Inc.	Modine Manufacturing Company
EnerSys	Insteel Industries, Inc.	Monolithic Power Systems, Inc.
EnPro Industries, Inc.	Integer Holdings Corporation	Moog Inc.
Entegris, Inc.	Integra LifeSciences Holdings Corporation	Motorcar Parts of America, Inc.
Escalade, Incorporated	Intel Corporation	Movado Group, Inc.
ESCO Technologies Inc.	inTEST Corporation	MSA Safety Incorporated
Espey Mfg. & Electronics Corp.	IntriCon Corporation	MTS Systems Corporation
FARO Technologies, Inc.	Intuitive Surgical, Inc.	Mueller Industries, Inc.
Federal Signal Corporation	IPG Photonics Corporation	Mueller Water Products, Inc.
Finisar Corporation	iRobot Corporation	Nanometrics Incorporated
First Solar, Inc.	ITT Inc.	Napco Security Technologies, Inc.
FLIR Systems, Inc.	Jabil Inc.	
Flowserve Corporation	John Bean Technologies Corporation	
Ford Motor Company	Johnson Outdoors Inc.	
FormFactor, Inc.	Juniper Networks, Inc.	
Fortinet, Inc.	Kadant Inc.	
	Kaiser Aluminum	



Cooper Tire & Rubber Company  
Core Molding Technologies, Inc.  
Sealed Air Corporation  
The Goodyear Tire & Rubber Company  
Tupperware Brands Corporation  
UFP Technologies, Inc.  
West Pharmaceutical Services, Inc.

**SIC 308**

Alphabet Inc.  
AptarGroup, Inc.  
Core Molding Technologies, Inc.  
Sealed Air Corporation  
Tupperware Brands Corporation  
UFP Technologies, Inc.

**SIC 31**

Caleres, Inc.  
Rocky Brands, Inc.  
Skechers U.S.A., Inc.  
Steven Madden, Ltd.  
Tapestry, Inc.  
Vera Bradley, Inc.  
Wolverine World Wide, Inc.

**SIC 32**

Armstrong World Industries, Inc.  
Continental Building Products, Inc.  
Eagle Materials Inc.  
Oil-Dri Corporation of America  
Owens Corning  
Owens-Illinois, Inc.  
U.S. Concrete, Inc.  
ZAGG Inc

**SIC 33**

Carpenter Technology Corporation  
Commercial Metals Company  
Encore Wire Corporation  
Friedman Industries, Incorporated  
Global Brass and Copper Holdings, Inc.  
Haynes International, Inc.  
Insteel Industries, Inc.  
Kaiser Aluminum Corporation  
Materion Corporation  
Mueller Industries, Inc.  
Steel Dynamics, Inc.

SunCoke Energy, Inc.  
Synalloy Corporation

**SIC 331**

Carpenter Technology Corporation  
Commercial Metals Company  
Friedman Industries, Incorporated  
Haynes International, Inc.  
Insteel Industries, Inc.  
Steel Dynamics, Inc.  
SunCoke Energy, Inc.  
Synalloy Corporation

**SIC 34**

Acme United Corporation  
Axon Enterprise, Inc.  
Ball Corporation  
Chicago Rivet & Machine Co.  
CompX International Inc.  
Cornerstone Building Brands, Inc.  
Crown Holdings, Inc.  
Graham Corporation  
Griffon Corporation  
Helios Technologies, Inc.  
Lifetime Brands, Inc.  
Mueller Water Products, Inc.  
Omega Flex, Inc.  
Parker-Hannifin Corporation  
PGT Innovations, Inc.  
Quanex Building Products Corporation  
Shiloh Industries, Inc.  
Silgan Holdings Inc.  
Simpson Manufacturing Co., Inc.  
Sturm, Ruger & Company, Inc.  
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**

Cornerstone Building Brands, Inc.  
Graham Corporation  
Griffon Corporation  
PGT Innovations, Inc.

Quanex Building Products Corporation

**SIC 349**

Helios Technologies, Inc.  
Mueller Water Products, Inc.  
Omega Flex, Inc.  
Parker-Hannifin Corporation  
Watts Water Technologies, Inc.

**SIC 35**

AAON, Inc.  
AGCO Corporation  
Alamo Group Inc.  
Altra Industrial Motion Corp.  
Applied Materials, Inc.  
Arista Networks, Inc.  
Astec Industries, Inc.  
Axcelis Technologies, Inc.  
Briggs & Stratton Corporation  
BWX Technologies, Inc.  
Cisco Systems, Inc.  
Colfax Corporation  
Columbus McKinnon Corporation  
CVD Equipment Corporation  
Deere & Company  
Digi International Inc.  
Dover Corporation  
Dril-Quip, Inc.  
Electronics for Imaging, Inc.  
Electro-Sensors, Inc.  
Entegris, Inc.  
Finisar Corporation  
Fortinet, Inc.  
Gencor Industries, Inc.  
Graco Inc.  
HP Inc.  
Hyster-Yale Materials Handling, Inc.  
IDEX Corporation  
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  
Mitek Systems, Inc.  
NetApp, Inc.  
NETGEAR, Inc.

Nordson Corporation  
 PDF Solutions, Inc.  
 Proto Labs, Inc.  
 RBC Bearings  
 Incorporated  
 Rexnord Corporation  
 Taylor Devices, Inc.  
 Tennant Company  
 Terex Corporation  
 The Gorman-Rupp  
 Company  
 The Middleby Corporation  
 The Timken Company  
 The Toro Company  
 USA Technologies, Inc.  
 Western Digital  
 Corporation  
 Xerox Corporation  
 Zebra Technologies  
 Corporation

**SIC 353**

Astec Industries, Inc.  
 Columbus McKinnon  
 Corporation  
 Dril-Quip, Inc.  
 Hyster-Yale Materials  
 Handling, Inc.  
 Terex Corporation

**SIC 355**

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

**SIC 3559**

Applied Materials, Inc.  
 Axcelis Technologies, 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 Gorman-Rupp  
 Company  
 The Timken Company

**SIC 357**

Arista Networks, Inc.  
 Cisco Systems, Inc.  
 Digi International Inc.  
 Electronics for Imaging,  
 Inc.  
 Electro-Sensors, Inc.  
 Finisar Corporation  
 Fortinet, Inc.  
 HP Inc.  
 Juniper Networks, Inc.  
 Mitek Systems, Inc.  
 NetApp, Inc.  
 NETGEAR, Inc.  
 USA Technologies, Inc.  
 Western Digital  
 Corporation  
 Xerox Corporation  
 Zebra Technologies  
 Corporation

**SIC 3577**

Electronics for Imaging,  
 Inc.  
 Electro-Sensors, Inc.  
 Finisar Corporation  
 Fortinet, Inc.  
 Mitek Systems, Inc.  
 Xerox Corporation  
 Zebra Technologies  
 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.  
 Applied Optoelectronics,  
 Inc.  
 Astronics Corporation  
 AVX Corporation  
 AXT, Inc.  
 Belden Inc.  
 Benchmark Electronics,  
 Inc.  
 BK Technologies  
 Corporation  
 Broadcom Inc.

Ciena Corporation  
 Cirrus Logic, Inc.  
 Clearfield, Inc.  
 CommScope Holding  
 Company, Inc.  
 Comtech  
 Telecommunications  
 Corp.  
 CTS Corporation  
 Diodes Incorporated  
 EchoStar Corporation  
 EnerSys  
 Espey Mfg. & Electronics  
 Corp.  
 First Solar, Inc.  
 Franklin Electric Co., Inc.  
 Generac Holdings Inc.  
 Highpower International,  
 Inc.  
 Intel Corporation  
 IPG Photonics  
 Corporation  
 Jabil Inc.  
 KEMET Corporation  
 Key Tronic Corporation  
 Littelfuse, Inc.  
 LRAD Corporation  
 Maxim Integrated  
 Products, Inc.  
 Mercury Systems, Inc.  
 Methode Electronics, Inc.  
 Microchip Technology  
 Incorporated  
 Micron Technology, Inc.  
 Monolithic Power  
 Systems, Inc.  
 Motorcar Parts of  
 America, Inc.  
 Napco Security  
 Technologies, Inc.  
 NVE Corporation  
 NVIDIA Corporation  
 ON Semiconductor  
 Corporation  
 OneSpan Inc.  
 Photonics, Inc.  
 Plantronics, Inc.  
 Plexus Corp.  
 Powell Industries, Inc.  
 Power Integrations, Inc.  
 Preformed Line Products  
 Company  
 Qorvo, Inc.  
 QUALCOMM Incorporated  
 Regal Beloit Corporation  
 RF Industries, Ltd.  
 Sanmina Corporation  
 Semtech Corporation  
 Servotronics, Inc.  
 Silicon Laboratories Inc.  
 Skyworks Solutions, Inc.  
 Socket Mobile, Inc.

Stoneridge, Inc.  
 Synaptics Incorporated  
 Texas Instruments  
 Incorporated  
 Thermon Group Holdings,  
 Inc.  
 TTM Technologies, Inc.  
 Ubiquiti Networks, Inc.  
 Ultra Clean Holdings, Inc.  
 Ultralife Corporation  
 Universal Display  
 Corporation  
 Universal Electronics Inc.  
 Vicor Corporation  
 VirTra, Inc.  
 Vishay Intertechnology,  
 Inc.  
 Vishay Precision Group,  
 Inc.  
 Whirlpool Corporation  
 Woodward, Inc.  
 Xilinx, Inc.

**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.  
 BK Technologies  
 Corporation  
 Ciena Corporation  
 CommScope Holding  
 Company, Inc.  
 Comtech  
 Telecommunications  
 Corp.  
 EchoStar Corporation  
 Napco Security  
 Technologies, Inc.  
 OneSpan Inc.  
 Plantronics, Inc.  
 Socket Mobile, Inc.  
 Ubiquiti Networks, Inc.

**SIC 3663**

Apple Inc.  
 BK Technologies  
 Corporation

CommScope Holding  
 Company, Inc.  
 Comtech  
 Telecommunications  
 Corp.  
 EchoStar Corporation  
 Socket Mobile, Inc.  
 Ubiquiti Networks, Inc.

**SIC 367**

Advanced Energy  
 Industries, Inc.  
 Amkor Technology, Inc.  
 Amphenol Corporation  
 Analog Devices, Inc.  
 Applied Optoelectronics,  
 Inc.  
 AVX Corporation  
 AXT, Inc.  
 Belden Inc.  
 Benchmark Electronics,  
 Inc.  
 Broadcom Inc.  
 Cirrus Logic, Inc.  
 Clearfield, Inc.  
 CTS Corporation  
 Diodes Incorporated  
 Espey Mfg. & Electronics  
 Corp.  
 First Solar, Inc.  
 Intel Corporation  
 IPG Photonics  
 Corporation  
 Jabil Inc.  
 KEMET Corporation  
 Key Tronic Corporation  
 Maxim Integrated  
 Products, Inc.  
 Mercury Systems, Inc.  
 Methode Electronics, Inc.  
 Microchip Technology  
 Incorporated  
 Micron Technology, Inc.  
 Monolithic Power  
 Systems, Inc.  
 NVE Corporation  
 NVIDIA Corporation  
 ON Semiconductor  
 Corporation  
 Photronics, Inc.  
 Plexus Corp.  
 Power Integrations, Inc.  
 Qorvo, Inc.  
 QUALCOMM Incorporated  
 RF Industries, Ltd.  
 Sanmina Corporation  
 Semtech Corporation  
 Silicon Laboratories Inc.  
 Skyworks Solutions, Inc.  
 Stoneridge, Inc.  
 Synaptics Incorporated

Texas Instruments  
 Incorporated  
 TTM Technologies, Inc.  
 Ultra Clean Holdings, Inc.  
 Universal Display  
 Corporation  
 Vicor Corporation  
 Vishay Intertechnology,  
 Inc.  
 Vishay Precision Group,  
 Inc.  
 Xilinx, Inc.

**SIC 3672**

Benchmark Electronics,  
 Inc.  
 Jabil Inc.  
 Plexus Corp.  
 Sanmina Corporation  
 TTM Technologies, Inc.

**SIC 3674**

Amkor Technology, Inc.  
 Analog Devices, Inc.  
 Applied Optoelectronics,  
 Inc.  
 AXT, Inc.  
 Broadcom Inc.  
 Cirrus Logic, Inc.  
 Diodes Incorporated  
 First Solar, Inc.  
 Intel Corporation  
 IPG Photonics  
 Corporation  
 Maxim Integrated  
 Products, Inc.  
 Mercury Systems, Inc.  
 Microchip Technology  
 Incorporated  
 Micron Technology, Inc.  
 Monolithic Power  
 Systems, Inc.  
 NVE Corporation  
 NVIDIA Corporation  
 ON Semiconductor  
 Corporation  
 Photronics, Inc.  
 Power Integrations, Inc.  
 Qorvo, Inc.  
 QUALCOMM Incorporated  
 Semtech Corporation  
 Silicon Laboratories Inc.  
 Skyworks Solutions, Inc.  
 Synaptics Incorporated  
 Texas Instruments  
 Incorporated  
 Ultra Clean Holdings, Inc.  
 Universal Display  
 Corporation  
 Xilinx, Inc.

**SIC 369**

EnerSys

Highpower International, Inc.  
 Motorcar Parts of America, Inc.  
 Thermon Group Holdings, Inc.  
 Ultralife Corporation  
 VirTra, Inc.

WABCO Holdings Inc.  
 Wabtec Corporation  
 Winnebago Industries, Inc.

Cooper-Standard Holdings Inc.  
 Dana Incorporated  
 Dorman Products, Inc.  
 Gentex Corporation  
 Gentherm Incorporated  
 Meritor, Inc.  
 Modine Manufacturing Company  
 SORL Auto Parts, Inc.  
 Strattec Security Corporation  
 Visteon Corporation  
 WABCO Holdings Inc.

#### SIC 37

---

AeroVironment, Inc.  
 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.  
 Ducommun Incorporated  
 Federal Signal Corporation  
 Ford Motor Company  
 Fox Factory Holding Corp.  
 General Motors Company  
 Gentex Corporation  
 Gentherm Incorporated  
 Harley-Davidson, Inc.  
 Huntington Ingalls Industries, Inc.  
 LCI Industries  
 Lockheed Martin Corporation  
 Malibu Boats, Inc.  
 Marine Products Corporation  
 Meritor, Inc.  
 Miller Industries, Inc.  
 Modine Manufacturing Company  
 PACCAR Inc  
 Polaris Industries Inc.  
 SORL Auto Parts, Inc.  
 Spartan Motors, Inc.  
 Spirit AeroSystems Holdings, Inc.  
 Strattec Security Corporation  
 Textron Inc.  
 The Boeing Company  
 The Greenbrier Companies, Inc.  
 Thor Industries, Inc.  
 Tower International, Inc.  
 Visteon Corporation  
 Wabash National Corporation

#### SIC 371

---

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.  
 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.  
 Spartan Motors, Inc.  
 Strattec Security Corporation  
 Tower International, Inc.  
 Visteon Corporation  
 Wabash National Corporation  
 WABCO Holdings Inc.

#### 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.

#### SIC 38

---

ABIOMED, Inc.  
 Align Technology, Inc.  
 AngioDynamics, Inc.  
 Atrion Corporation  
 Badger Meter, Inc.  
 Becton, Dickinson and Company  
 Boston Scientific Corporation  
 Bruker Corporation  
 Cantel Medical Corp.  
 Coda Octopus Group, Inc.  
 Cognex Corporation  
 Coherent, Inc.  
 Cohu, Inc.  
 CONMED Corporation  
 Connecticut Water Service, Inc.  
 Control4 Corporation  
 CyberOptics Corporation  
 Danaher Corporation  
 Data I/O Corporation  
 Dynasil Corporation of America  
 Edwards Lifesciences Corporation  
 Electromed, Inc.  
 FARO Technologies, Inc.  
 FLIR Systems, Inc.  
 FormFactor, Inc.  
 Fossil Group, Inc.  
 Globus Medical, Inc.  
 Haemonetics Corporation  
 Hologic, Inc.  
 Hurco Companies, Inc.  
 ICU Medical, Inc.  
 II-VI Incorporated  
 Illumina, Inc.  
 Inogen, Inc.  
 Integer Holdings Corporation  
 Integra LifeSciences Holdings Corporation  
 inTEST Corporation  
 IntriCon Corporation  
 Intuitive Surgical, Inc.

Kewaunee Scientific Corporation  
 L3Harris Technologies, Inc.  
 Lakeland Industries, Inc.  
 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  
 MTS Systems Corporation  
 Nanometrics Incorporated  
 Natus Medical Incorporated  
 NuVasive, Inc.  
 Orthofix Medical Inc.  
 OSI Systems, Inc.  
 Peoples Bancorp Inc.  
 Peoples Bancorp of North Carolina, Inc.  
 PerkinElmer, 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  
 Zimmer Biomet Holdings, Inc.  
 Zynex, Inc.

---

**SIC 382**

Badger Meter, Inc.  
 Bruker Corporation  
 Cognex Corporation  
 Coherent, Inc.  
 Cohu, Inc.  
 Control4 Corporation  
 CyberOptics Corporation  
 Data I/O Corporation  
 Dynasil Corporation of America  
 FARO Technologies, Inc.  
 FormFactor, 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

---

**SIC 3825**

Cohu, Inc.  
 Data I/O Corporation  
 FormFactor, Inc.  
 inTEST Corporation  
 Teradyne, Inc.

---

**SIC 3826**

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

---

**SIC 384**

ABIOMED, Inc.  
 Align Technology, Inc.  
 AngioDynamics, Inc.  
 Atrion Corporation  
 Becton, Dickinson and Company  
 Boston Scientific Corporation  
 Cantel Medical Corp.  
 CONMED Corporation  
 Connecticut Water Service, Inc.  
 Edwards Lifesciences Corporation  
 Electromed, Inc.  
 Globus Medical, Inc.  
 Haemonetics Corporation  
 Hologic, Inc.  
 ICU Medical, Inc.  
 Inogen, Inc.  
 Integer Holdings Corporation  
 Integra LifeSciences Holdings Corporation  
 IntriCon Corporation  
 Intuitive Surgical, Inc.

Lakeland Industries, Inc.  
 LeMaitre Vascular, Inc.  
 Masimo Corporation  
 Merit Medical Systems, Inc.  
 MSA Safety Incorporated  
 Natus Medical Incorporated  
 NuVasive, Inc.  
 Orthofix Medical Inc.  
 OSI Systems, Inc.  
 Peoples Bancorp Inc.  
 Peoples Bancorp of North Carolina, Inc.  
 ResMed Inc.  
 Stryker Corporation  
 Teleflex Incorporated  
 Utah Medical Products, Inc.  
 Varian Medical Systems, Inc.  
 Zimmer Biomet Holdings, Inc.  
 Zynex, Inc.

---

**SIC 3841**

ABIOMED, Inc.  
 AngioDynamics, Inc.  
 Atrion Corporation  
 Becton, Dickinson and Company  
 Globus Medical, Inc.  
 Haemonetics Corporation  
 ICU Medical, Inc.  
 LeMaitre Vascular, Inc.  
 Merit Medical Systems, Inc.  
 NuVasive, Inc.  
 Peoples Bancorp Inc.  
 Peoples Bancorp of North Carolina, Inc.  
 Teleflex Incorporated

---

**SIC 3842**

Edwards Lifesciences Corporation  
 Integra LifeSciences Holdings Corporation  
 IntriCon Corporation  
 Lakeland Industries, Inc.  
 MSA Safety Incorporated  
 Zimmer Biomet Holdings, Inc.

---

**SIC 3845**

CONMED Corporation  
 Connecticut Water Service, Inc.  
 Electromed, Inc.  
 Inogen, Inc.  
 Integer Holdings Corporation  
 Intuitive Surgical, Inc.

Masimo Corporation  
 Natus Medical  
 Incorporated  
 ResMed Inc.  
 Utah Medical Products,  
 Inc.  
 Varian Medical Systems,  
 Inc.  
 Zynex, Inc.

---

**SIC 39**

Brady Corporation  
 Callaway Golf Company  
 Daktronics, Inc.  
 Escalade, Incorporated  
 Hasbro, Inc.  
 iRobot Corporation  
 Nautilus, Inc.

---

**SIC 4**

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 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.  
 Atlas Air Worldwide  
 Holdings, Inc.  
 Atmos Energy Corporation  
 ATN International, Inc.  
 Avista Corporation  
 Beasley Broadcast Group,  
 Inc.  
 Black Hills Corporation  
 Buckeye Partners, L.P.  
 C.H. Robinson Worldwide,  
 Inc.  
 California Water Service  
 Group  
 CBS Corporation  
 CenterPoint Energy, Inc.  
 CenturyLink, Inc.  
 Charter Communications,  
 Inc.  
 Chesapeake Utilities  
 Corporation

CMS Energy Corporation  
 Cogent Communications  
 Holdings, Inc.  
 Consolidated Edison, Inc.  
 Covanta Holding  
 Corporation  
 Covenant Transportation  
 Group, Inc.  
 CSX Corporation  
 Delta Air Lines, Inc.  
 Discovery, Inc.  
 DISH Network Corporation  
 Dominion Energy, Inc.  
 DTE Energy Company  
 Duke Energy Corporation  
 Echo Global Logistics, Inc.  
 Edison International  
 El Paso Electric Company  
 Enable Midstream  
 Partners, LP  
 Energy Transfer LP  
 Energy Corporation  
 EQM Midstream Partners,  
 LP  
 Era Group Inc.  
 Evergy, Inc.  
 Eversource Energy  
 Exelon Corporation  
 Expedia Group, Inc.  
 Expeditors International of  
 Washington, Inc.  
 FedEx Corporation  
 Forward Air Corporation  
 GATX Corporation  
 Genesee & Wyoming Inc.  
 Gray Television, Inc.  
 Hawaiian Electric  
 Industries, Inc.  
 Hawaiian Holdings, Inc.  
 Heartland Express, Inc.  
 Hemisphere Media Group,  
 Inc.  
 Heritage-Crystal Clean,  
 Inc  
 Holly Energy Partners, L.P.  
 Hub Group, Inc.  
 IDACORP, Inc.  
 IDT Corporation  
 Iridium Communications  
 Inc.  
 J.B. Hunt Transport  
 Services, Inc.  
 JetBlue Airways  
 Corporation  
 Kansas City Southern  
 Kinder Morgan, Inc.  
 Knight-Swift  
 Transportation Holdings  
 Inc.  
 Landstar System, Inc.  
 Magellan Midstream  
 Partners, L.P.  
 Marten Transport, Ltd.

Matson, Inc.  
 MGE Energy, Inc.  
 Middlesex Water  
 Company  
 MPLX LP  
 MSG Networks Inc.  
 New Jersey Resources  
 Corporation  
 Nexstar Media Group, Inc.  
 NextEra Energy Partners,  
 LP  
 NextEra Energy, Inc.  
 NiSource Inc.  
 Norfolk Southern  
 Corporation  
 Northwest Natural  
 Holding Company  
 NorthWestern Corporation  
 OGE Energy Corp.  
 Old Dominion Freight Line,  
 Inc.  
 ONE Gas, Inc.  
 ONEOK, Inc.  
 Otelco Inc.  
 P.A.M. Transportation  
 Services, Inc.  
 Pattern Energy Group Inc.  
 PBF Logistics LP  
 Phillips 66 Partners LP  
 Pinnacle West Capital  
 Corporation  
 PNM Resources, Inc.  
 Portland General Electric  
 Company  
 PPL Corporation  
 Public Service Enterprise  
 Group Incorporated  
 Radiant Logistics, Inc.  
 Republic Services, Inc.  
 RGC Resources, Inc.  
 Saga Communications,  
 Inc.  
 Saia, Inc.  
 Salem Media Group, Inc.  
 Sempra Energy  
 Sharps Compliance Corp.  
 Shenandoah  
 Telecommunications  
 Company  
 Sinclair Broadcast Group,  
 Inc.  
 Sino-Global Shipping  
 America, Ltd.  
 Sirius XM Holdings Inc.  
 SJW Group  
 SkyWest, Inc.  
 Southwest Airlines Co.  
 Spire Inc.  
 Spirit Airlines, Inc.  
 Spok Holdings, Inc.  
 Stericycle, Inc.  
 TEGNA Inc.

Telephone and Data Systems, Inc.  
The AES Corporation  
The E.W. Scripps Company  
The Providence Service Corporation  
The Southern Company  
The Williams Companies, Inc.  
The York Water Company  
Tribune Media Company  
UGI Corporation  
Union Pacific Corporation  
United Airlines Holdings, Inc.  
United Parcel Service, Inc.  
United States Cellular Corporation  
Unitil Corporation  
Universal Logistics Holdings, Inc.  
US Ecology, Inc.  
USA Truck, Inc.  
Verizon Communications Inc.  
Viacom Inc.  
Vonage Holdings Corp.  
Waste Management, Inc.  
WEC Energy Group, Inc.  
Werner Enterprises, Inc.  
Western Midstream Partners, LP  
Xcel Energy Inc.  
XPO Logistics, Inc.

**SIC 40**

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

**SIC 42**

ArcBest Corporation  
C.H. Robinson Worldwide, Inc.  
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.  
Werner Enterprises, Inc.

**SIC 4213**

ArcBest Corporation  
C.H. Robinson Worldwide, Inc.  
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.  
Werner Enterprises, Inc.

**SIC 45**

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

**SIC 451**

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

**SIC 46**

Buckeye Partners, L.P.  
Holly Energy Partners, L.P.  
Magellan Midstream Partners, L.P.  
MPLX LP  
PBF Logistics LP  
Phillips 66 Partners LP

**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.  
XPO Logistics, Inc.

**SIC 473**

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

**SIC 48**

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.  
Discovery, Inc.  
DISH Network Corporation  
Gray Television, Inc.  
Hemisphere Media Group, Inc.  
IDT Corporation  
Iridium Communications Inc.  
MSG Networks Inc.  
Nexstar Media Group, Inc.  
Otelco Inc.  
Saga Communications, Inc.  
Salem Media Group, Inc.  
Shenandoah Telecommunications Company  
Sinclair Broadcast Group, Inc.  
Sirius XM Holdings Inc.  
Spok Holdings, Inc.  
TEGNA Inc.  
Telephone and Data Systems, Inc.  
The E.W. Scripps Company

Tribune Media Company  
 United States Cellular  
 Corporation  
 Verizon Communications  
 Inc.  
 Viacom Inc.  
 Vonage Holdings Corp.

Hemisphere Media Group,  
 Inc.  
 Nexstar Media Group, Inc.  
 Sinclair Broadcast Group,  
 Inc.  
 TEGNA Inc.  
 The E.W. Scripps  
 Company  
 Tribune Media Company  
 Viacom Inc.

NiSource Inc.  
 Northwest Natural  
 Holding Company  
 NorthWestern Corporation  
 OGE Energy Corp.  
 ONE Gas, Inc.  
 ONEOK, Inc.  
 Pattern Energy Group Inc.  
 Pinnacle West Capital  
 Corporation  
 PNM Resources, Inc.  
 Portland General Electric  
 Company  
 PPL Corporation  
 Public Service Enterprise  
 Group Incorporated  
 Republic Services, Inc.  
 RGC Resources, Inc.  
 Sempra Energy  
 Sharps Compliance Corp.  
 SJW Group  
 Spire Inc.  
 Stericycle, Inc.  
 The AES Corporation  
 The Southern Company  
 The Williams Companies,  
 Inc.  
 The York Water Company  
 UGI Corporation  
 Utilil Corporation  
 US Ecology, Inc.  
 Waste Management, Inc.  
 WEC Energy Group, Inc.  
 Western Midstream  
 Partners, LP  
 Xcel Energy Inc.

**SIC 481**

Alaska Communications  
 Systems Group, Inc.  
 AT&T Inc.  
 ATN International, Inc.  
 CenturyLink, Inc.  
 Cogent Communications  
 Holdings, Inc.  
 IDT Corporation  
 Otelco Inc.  
 Shenandoah  
 Telecommunications  
 Company  
 Spok Holdings, Inc.  
 Telephone and Data  
 Systems, Inc.  
 United States Cellular  
 Corporation  
 Verizon Communications  
 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  
 California Water Service  
 Group  
 CenterPoint Energy, Inc.  
 Chesapeake Utilities  
 Corporation  
 CMS Energy Corporation  
 Consolidated Edison, Inc.  
 Covanta Holding  
 Corporation  
 Dominion Energy, Inc.  
 DTE Energy Company  
 Duke Energy Corporation  
 Edison International  
 El Paso Electric Company  
 Enable Midstream  
 Partners, LP  
 Entergy Corporation  
 EQM Midstream Partners,  
 LP  
 Evergy, Inc.  
 Eversource Energy  
 Exelon Corporation  
 Hawaiian Electric  
 Industries, Inc.  
 Heritage-Crystal Clean,  
 Inc  
 IDACORP, Inc.  
 Kinder Morgan, Inc.  
 MGE Energy, Inc.  
 Middlesex Water  
 Company  
 New Jersey Resources  
 Corporation  
 NextEra Energy Partners,  
 LP  
 NextEra Energy, Inc.

**SIC 491**

Edison International  
 El Paso Electric Company  
 Entergy Corporation  
 Exelon Corporation  
 Hawaiian Electric  
 Industries, Inc.  
 IDACORP, Inc.  
 NextEra Energy Partners,  
 LP  
 NextEra Energy, Inc.  
 Pinnacle West Capital  
 Corporation  
 PNM Resources, Inc.  
 Portland General Electric  
 Company  
 PPL Corporation  
 The Southern Company

**SIC 4813**

Alaska Communications  
 Systems Group, Inc.  
 CenturyLink, Inc.  
 Cogent Communications  
 Holdings, Inc.  
 IDT Corporation  
 Otelco Inc.

**SIC 483**

AMC Networks Inc.  
 Beasley Broadcast Group,  
 Inc.  
 Gray Television, Inc.  
 Hemisphere Media Group,  
 Inc.  
 Nexstar Media Group, Inc.  
 Saga Communications,  
 Inc.  
 Salem Media Group, Inc.  
 Sinclair Broadcast Group,  
 Inc.  
 Sirius XM Holdings Inc.  
 TEGNA Inc.  
 The E.W. Scripps  
 Company  
 Tribune Media Company  
 Viacom Inc.

**SIC 4833**

AMC Networks Inc.  
 Gray Television, Inc.

**SIC 492**

Atmos Energy Corporation  
 Chesapeake Utilities  
 Corporation  
 Enable Midstream  
 Partners, LP

EQM Midstream Partners, LP  
 Kinder Morgan, Inc.  
 New Jersey Resources Corporation  
 Northwest Natural Holding Company  
 ONE Gas, Inc.  
 ONEOK, Inc.  
 RGC Resources, Inc.  
 Spire Inc.  
 The Williams Companies, Inc.  
 Western Midstream Partners, LP

**SIC 4924**

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

**SIC 493**

ALLETE, Inc.  
 Alliant Energy Corporation  
 Ameren Corporation  
 Avista Corporation  
 DTE Energy Company  
 Duke Energy Corporation  
 Evergy, Inc.  
 Eversource Energy  
 NorthWestern Corporation  
 OGE Energy Corp.  
 Public Service Enterprise Group Incorporated  
 Sempra Energy  
 UGI Corporation  
 WEC Energy Group, Inc.  
 Xcel Energy Inc.

**SIC 4931**

ALLETE, Inc.  
 Alliant Energy Corporation  
 Ameren Corporation  
 Avista Corporation  
 DTE Energy Company  
 Duke Energy Corporation  
 Evergy, Inc.  
 Eversource Energy  
 NorthWestern Corporation  
 OGE Energy Corp.  
 Public Service Enterprise Group Incorporated  
 Sempra Energy  
 WEC Energy Group, Inc.  
 Xcel Energy Inc.

**SIC 494**

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

**SIC 495**

Covanta Holding Corporation  
 Heritage-Crystal Clean, Inc  
 Republic Services, Inc.  
 Sharps Compliance Corp.  
 Stericycle, Inc.  
 US Ecology, Inc.  
 Waste Management, Inc.

**SIC 5**

1-800-FLOWERS.COM, Inc.  
 AAR Corp.  
 Abercrombie & Fitch Co.  
 Adams Resources & Energy, Inc.  
 Advance Auto Parts, Inc.  
 Amazon.com, Inc.  
 AMCON Distributing Company  
 American Eagle Outfitters, Inc.  
 AmeriGas Partners, L.P.  
 AmerisourceBergen Corporation  
 Anixter International Inc.  
 Applied Industrial Technologies, Inc.  
 Aramark  
 Ark Restaurants Corp.  
 Arrow Electronics, Inc.  
 Asbury Automotive Group, Inc.  
 AutoNation, Inc.  
 Avnet, Inc.  
 Beacon Roofing Supply, Inc.  
 Best Buy Co., Inc.  
 Big 5 Sporting Goods Corporation  
 Big Lots, Inc.  
 BJ's Restaurants, Inc.  
 Bloomin' Brands, Inc.  
 BlueLinx Holdings Inc.  
 Boise Cascade Company

Brinker International, Inc.  
 Burlington Stores, Inc.  
 Cardinal Health, Inc.  
 Carrols Restaurant Group, Inc.  
 Casey's General Stores, Inc.  
 CDW Corporation  
 Central Garden & Pet Company  
 Cheniere Energy Partners, L.P.  
 Chico's FAS, Inc.  
 Chipotle Mexican Grill, Inc.  
 Chuy's Holdings, Inc.  
 Citi Trends, Inc.  
 Coffee Holding Co., Inc.  
 Copart, Inc.  
 Core-Mark Holding Company, Inc.  
 Costco Wholesale Corporation  
 Cracker Barrel Old Country Store, Inc.  
 CrossAmerica Partners LP  
 CVS Health Corporation  
 Darden Restaurants, Inc.  
 Delek Logistics Partners, LP  
 Denny's Corporation  
 Designer Brands Inc.  
 Dick's Sporting Goods, Inc.  
 Dillard's, Inc.  
 Dollar General Corporation  
 Dollar Tree, Inc.  
 Dunkin' Brands Group, Inc.  
 ePlus inc.  
 EVI Industries, Inc.  
 Express, Inc.  
 EZCORP, 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.  
 Genesco Inc.  
 Genuine Parts Company  
 G-III Apparel Group, Ltd.  
 Global Partners LP  
 Group 1 Automotive, Inc.  
 Haverty Furniture Companies, Inc.  
 HD Supply Holdings, Inc.  
 Henry Schein, Inc.  
 Houston Wire & Cable Company

Huttig Building Products, Inc.  
 Ingles Markets, Incorporated  
 Insight Enterprises, Inc.  
 Jack in the Box Inc.  
 Kirkland's, Inc.  
 Kohl's Corporation  
 L Brands, Inc.  
 Lawson Products, Inc.  
 La-Z-Boy Incorporated  
 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.  
 Murphy USA Inc.  
 Natural Grocers by Vitamin Cottage, Inc.  
 Natural Health Trends Corp.  
 Nordstrom, Inc.  
 Office Depot, Inc.  
 Olympic Steel, Inc.  
 Papa John's International, Inc.  
 Patterson Companies, Inc.  
 PC Connection, Inc.  
 PCM, Inc.  
 Penske Automotive Group, Inc.  
 PetMed Express, Inc.  
 Plains All American Pipeline, L.P.  
 Pool Corporation  
 Potbelly Corporation  
 Prestige Consumer Healthcare Inc.  
 PriceSmart, Inc.  
 Qurate Retail Inc.  
 Red Robin Gourmet Burgers, Inc.  
 Reliance Steel & Aluminum Co.  
 RH  
 Ross Stores, Inc.  
 Rush Enterprises, Inc.  
 Ruth's Hospitality Group, Inc.  
 ScanSource, Inc.  
 Shoe Carnival, Inc.  
 Sonic Automotive, Inc.  
 SpartanNash Company  
 Sportsman's Warehouse Holdings, Inc.  
 Sprague Resources LP

Sprouts Farmers Market, Inc.  
 Star Group, L.P.  
 Starbucks Corporation  
 Stein Mart, Inc.  
 Suburban Propane Partners, L.P.  
 Sunoco LP  
 SYNEX Corporation  
 Sysco Corporation  
 Systemax Inc.  
 Tandy Leather Factory, Inc.  
 Target Corporation  
 Tech Data Corporation  
 TESSCO Technologies Incorporated  
 Texas Roadhouse, Inc.  
 The Buckle, Inc.  
 The Cato Corporation  
 The Cheesecake Factory Incorporated  
 The Chefs' Warehouse, Inc.  
 The Children's Place, 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.  
 T-Mobile US, Inc.  
 Tractor Supply Company  
 TransAct Technologies Incorporated  
 TravelCenters of America LLC  
 Ulta Beauty, Inc.  
 United Natural Foods, Inc.  
 Universal Corporation  
 Urban Outfitters, Inc.  
 Village Super Market, Inc.  
 W.W. Grainger, Inc.  
 Walgreens Boots Alliance, Inc.  
 Walmart Inc.  
 Watsco, Inc.  
 Wayside Technology Group, 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.

Anixter International Inc.  
 Applied Industrial Technologies, Inc.  
 Arrow Electronics, Inc.  
 Avnet, Inc.  
 Beacon Roofing Supply, Inc.  
 BlueLinx Holdings Inc.  
 Boise Cascade Company  
 CDW Corporation  
 Copart, Inc.  
 ePlus inc.  
 EVI Industries, Inc.  
 Fastenal Company  
 Genuine Parts Company  
 HD Supply Holdings, Inc.  
 Henry Schein, Inc.  
 Houston Wire & Cable Company  
 Huttig Building Products, Inc.  
 Insight Enterprises, Inc.  
 Lawson Products, Inc.  
 La-Z-Boy Incorporated  
 LKQ Corporation  
 MSC Industrial Direct Co., Inc.  
 Olympic Steel, Inc.  
 Patterson Companies, Inc.  
 Pool Corporation  
 Reliance Steel & Aluminum Co.  
 ScanSource, Inc.  
 SYNEX Corporation  
 Systemax Inc.  
 Tech Data Corporation  
 TESSCO Technologies Incorporated  
 W.W. Grainger, Inc.  
 Watsco, Inc.  
 Wayside Technology Group, Inc.  
 WESCO International, Inc.

---

**SIC 504**

CDW Corporation  
 ePlus inc.  
 Henry Schein, Inc.  
 Insight Enterprises, Inc.  
 Patterson Companies, Inc.  
 SYNEX Corporation  
 Tech Data Corporation  
 Wayside Technology Group, Inc.

---

**SIC 5045**

CDW Corporation  
 ePlus inc.  
 Insight Enterprises, Inc.  
 SYNEX Corporation  
 Tech Data Corporation

Wayside Technology  
Group, Inc.

---

**SIC 506**

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

---

**SIC 51**

Adams Resources &  
Energy, Inc.  
AMCON Distributing  
Company  
AmerisourceBergen  
Corporation  
Cardinal Health, Inc.  
Central Garden & Pet  
Company  
Cheniere Energy Partners,  
L.P.  
Coffee Holding Co., Inc.  
Core-Mark Holding  
Company, Inc.  
CrossAmerica Partners LP  
Delek Logistics Partners,  
LP  
Global Partners LP  
Martin Midstream  
Partners L.P.  
McKesson Corporation  
Natural Health Trends  
Corp.  
Plains All American  
Pipeline, L.P.  
Prestige Consumer  
Healthcare Inc.  
SpartanNash Company  
Sprague Resources LP  
Sunoco LP  
Sysco Corporation  
The Chefs' Warehouse,  
Inc.  
United Natural Foods, Inc.  
Universal Corporation  
Weyco Group, Inc.  
World Fuel Services  
Corporation

---

**SIC 512**

AmerisourceBergen  
Corporation  
Cardinal Health, Inc.  
McKesson Corporation  
Natural Health Trends  
Corp.  
Prestige Consumer  
Healthcare 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.  
Cheniere Energy Partners,  
L.P.  
CrossAmerica Partners LP  
Delek Logistics Partners,  
LP  
Global Partners LP  
Martin Midstream  
Partners L.P.  
Plains All American  
Pipeline, L.P.  
Sprague Resources LP  
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.  
Sprouts Farmers Market,  
Inc.  
The Kroger Co.  
Village Super Market, Inc.  
Weis Markets, Inc.

---

**SIC 541**

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

---

**SIC 5411**

Ingles Markets,  
Incorporated  
Sprouts Farmers Market,  
Inc.  
The Kroger Co.  
Village Super Market, Inc.  
Weis Markets, Inc.

---

**SIC 55**

Advance Auto Parts, Inc.  
Asbury Automotive Group,  
Inc.  
AutoNation, Inc.  
Group 1 Automotive, Inc.  
Lithia Motors, Inc.  
MarineMax, Inc.  
Murphy USA Inc.  
Penske Automotive Group,  
Inc.  
Rush Enterprises, Inc.  
Sonic Automotive, Inc.  
TravelCenters of America  
LLC

---

**SIC 56**

Abercrombie & Fitch Co.  
American Eagle Outfitters,  
Inc.  
Burlington Stores, Inc.  
Chico's FAS, Inc.  
Citi Trends, Inc.  
Designer Brands Inc.  
Express, Inc.  
Foot Locker, Inc.  
Francesca's Holdings  
Corporation  
Genesco Inc.  
L Brands, Inc.  
Nordstrom, Inc.  
Ross Stores, Inc.  
Shoe Carnival, Inc.  
Stein Mart, Inc.  
The Buckle, Inc.  
The Cato Corporation  
The Children's Place, Inc.  
The Gap, Inc.  
The TJX Companies, Inc.  
Tilly's, Inc.  
T-Mobile US, Inc.  
Urban Outfitters, Inc.

Zumiez Inc.

**SIC 565**

Abercrombie & Fitch Co.  
Citi Trends, Inc.  
Nordstrom, Inc.  
Ross Stores, Inc.  
Stein Mart, Inc.  
The Buckle, Inc.  
The Gap, Inc.  
The TJX Companies, Inc.  
T-Mobile US, Inc.  
Urban Outfitters, Inc.  
Zumiez Inc.

**SIC 57**

Best Buy Co., Inc.  
GameStop Corp.  
Haverty Furniture  
Companies, Inc.  
RH  
Tile Shop Holdings, Inc.  
TransAct Technologies  
Incorporated

**SIC 58**

Aramark  
Ark Restaurants Corp.  
BJ's Restaurants, Inc.  
Bloomin' Brands, Inc.  
Brinker International, Inc.  
Carrols Restaurant Group,  
Inc.  
Chipotle Mexican Grill, Inc.  
Chuy's Holdings, Inc.  
Cracker Barrel Old Country  
Store, Inc.  
Darden Restaurants, Inc.  
Denny's Corporation  
Dunkin' Brands Group, Inc.  
Fiesta Restaurant Group,  
Inc.  
Flanigan's Enterprises,  
Inc.  
G-III Apparel Group, Ltd.  
Jack in the Box Inc.  
McDonald's Corporation  
Papa John's International,  
Inc.  
Potbelly Corporation  
Red Robin Gourmet  
Burgers, Inc.  
Ruth's Hospitality Group,  
Inc.  
Starbucks Corporation  
Texas Roadhouse, Inc.  
The Cheesecake Factory  
Incorporated  
The Wendy's Company  
YUM! Brands, Inc.

**SIC 59**

1-800-FLOWERS.COM,  
Inc.  
Amazon.com, Inc.  
AmeriGas Partners, L.P.  
Big 5 Sporting Goods  
Corporation  
CVS Health Corporation  
Dick's Sporting Goods,  
Inc.  
EZCORP, Inc.  
FirstCash, Inc.  
Kirkland's, Inc.  
PC Connection, Inc.  
PCM, Inc.  
PetMed Express, Inc.  
Qurate Retail Inc.  
Sportsman's Warehouse  
Holdings, Inc.  
Star Group, L.P.  
Suburban Propane  
Partners, L.P.  
Tandy Leather Factory,  
Inc.  
Tiffany & Co.  
Ulta Beauty, Inc.  
Walgreens Boots Alliance,  
Inc.

**SIC 596**

1-800-FLOWERS.COM,  
Inc.  
Amazon.com, Inc.  
PC Connection, Inc.  
PCM, Inc.  
Qurate Retail Inc.

**SIC 6**

1st Constitution Bancorp  
1st Source Corporation  
Acadia Realty Trust  
ACNB Corporation  
Affiliated Managers  
Group, Inc.  
Aflac Incorporated  
Agree Realty Corporation  
AirXpanders, Inc.  
Alcentra Capital  
Corporation  
Alexander's, Inc.  
Alexandria Real Estate  
Equities, Inc.  
Alleghany Corporation  
AllianceBernstein Holding  
L.P.  
Ally Financial Inc.  
America First Multifamily  
Investors, L.P.  
American Assets Trust,  
Inc.  
American Campus  
Communities, Inc.

American Equity  
Investment Life Holding  
Company  
American Financial Group,  
Inc.  
American International  
Group, Inc.  
American National  
Bankshares Inc.  
American National  
Insurance Company  
American Realty  
Investors, Inc.  
American River  
Bankshares  
American Tower  
Corporation (REIT)  
Ameriprise Financial, Inc.  
Ameris Bancorp  
Amersafe, Inc.  
AmeriServ Financial, Inc.  
Ames National  
Corporation  
Annaly Capital  
Management, Inc.  
Anthem, Inc.  
Anworth Mortgage Asset  
Corporation  
Apartment Investment  
and Management  
Company  
Apollo Commercial Real  
Estate Finance, Inc.  
Apollo Global  
Management, LLC  
Apollo Investment  
Corporation  
Arbor Realty Trust, Inc.  
Ares Capital Corporation  
Ares Commercial Real  
Estate Corporation  
Ares Management  
Corporation  
Armada Hoffer Properties,  
Inc.  
Arrow Financial  
Corporation  
Arthur J. Gallagher & Co.  
Artisan Partners Asset  
Management Inc.  
Associated Banc-Corp  
Assurant, Inc.  
Atlantic American  
Corporation  
Atlantic Union Bankshares  
Corporation  
Auburn National  
Bancorporation, Inc.  
AvalonBay Communities,  
Inc.  
Axos Financial, Inc.  
Banc of California, Inc.  
BancFirst Corporation

Bancorp Of New Jersey, Inc.	Capital Southwest Corporation	Inc.
BancorpSouth Bank	Capitol Federal Financial, Inc.	Community Bank System, Inc.
Bank First Corporation	CareTrust REIT, Inc.	Community Bankers Trust Corporation
Bank of America Corporation	Carolina Financial Corporation	Community Trust Bancorp, Inc.
Bank of Commerce Holdings	Carolina Trust	Community West Bancshares
Bank of Hawaii Corporation	BancShares, Inc.	ConnectOne Bancorp, Inc.
Bank of Marin Bancorp	Carter Bank & Trust	Conn's, Inc.
Bank of South Carolina Corporation	Cathay General Bancorp	Consolidated-Tomoka Land Co.
Bank of the James Financial Group, Inc.	CB Financial Services, Inc.	CoreCivic, Inc.
Bank OZK	CBRE Group, Inc.	CorEnergy Infrastructure Trust, Inc.
BankFinancial Corporation	Centene Corporation	CoreSite Realty Corporation
BankUnited, Inc.	CenterState Bank Corporation	Corporate Office Properties Trust
Bankwell Financial Group, Inc.	Central Federal Corporation	Cortland Bancorp
Banner Corporation	Central Pacific Financial Corp.	CorVel Corporation
Bar Harbor Bankshares	Central Valley Community Bancorp	Cousins Properties Incorporated
BayCom Corp	Century Bancorp, Inc.	Cowen Inc.
BB&T Corporation	CEVA, Inc.	Crawford & Company
BBX Capital Corporation	Chatham Lodging Trust	Credit Acceptance Corporation
BCB Bancorp, Inc.	Chemical Financial Corporation	Cross Timbers Royalty Trust
Berkshire Hills Bancorp, Inc.	Chemung Financial Corporation	Crown Castle International Corp. (REIT)
BGC Partners, Inc.	Chesapeake Lodging Trust	CubeSmart
BlackRock Capital Investment Corporation	China HGS Real Estate Inc.	Cullen/Frost Bankers, Inc.
BlackRock TCP Capital Corp.	Cigna Corporation	Customers Bancorp, Inc.
BlackRock, Inc.	CIM Commercial Trust Corporation	CVB Financial Corp.
Blackstone Mortgage Trust, Inc.	Cincinnati Financial Corporation	Diamond Hill Investment Group, Inc.
BOK Financial Corporation	CIT Group Inc.	DiamondRock Hospitality Company
Boston Private Financial Holdings, Inc.	Citigroup Inc.	Digital Realty Trust, Inc.
Boston Properties, Inc.	Citizens & Northern Corporation	Dime Community Bancshares, Inc.
BP Prudhoe Bay Royalty Trust	Citizens Community Bancorp, Inc.	Discover Financial Services
Braemar Hotels & Resorts, Inc.	Citizens Holding Company	DNB Financial Corporation
Brandywine Realty Trust	City Holding Company	Dolby Laboratories, Inc.
Bridge Bancorp, Inc.	City Office REIT, Inc.	Donegal Group Inc.
Brimor Property Group Inc.	Civista Bancshares, Inc.	Dorchester Minerals, L.P.
Broadway Financial Corporation	CM Finance Inc.	Douglas Emmett, Inc.
Brookline Bancorp, Inc.	CME Group Inc.	Duke Realty Corporation
Brown & Brown, Inc.	CNA Financial Corporation	E*TRADE Financial Corporation
BRT Apartments Corp.	CNB Financial Corporation	Eagle Bancorp, Inc.
Bryn Mawr Bank Corporation	CNO Financial Group, Inc.	East West Bancorp, Inc.
C&F Financial Corporation	Codorus Valley Bancorp, Inc.	EastGroup Properties, Inc.
Cambridge Bancorp	Cohen & Steers, Inc.	Eaton Vance Corp.
Camden National Corporation	Colony Bankcorp, Inc.	Elmira Savings Bank
Camden Property Trust	Columbia Banking System, Inc.	EMC Insurance Group Inc.
Capital City Bank Group, Inc.	Columbia Property Trust, Inc.	Emclaire Financial Corp
Capital One Financial Corporation	Comerica Incorporated	Empire State Realty Trust, Inc.
	Commerce Bancshares,	

Employers Holdings, Inc.	First Financial Bankshares, Inc.	Inc.
Encore Capital Group, Inc.	First Financial Corporation	Greenhill & Co., Inc.
Enterprise Bancorp, Inc.	First Financial Northwest, Inc.	Griffin Industrial Realty, Inc.
Enterprise Financial Services Corp	First Guaranty Bancshares, Inc.	Guaranty Federal Bancshares, Inc.
EPR Properties	First Horizon National Corporation	Hallmark Financial Services, Inc.
Equinix, Inc. (REIT)	First Industrial Realty Trust, Inc.	Hancock Whitney Corporation
Equity Commonwealth	First Internet Bancorp	Hanmi Financial Corporation
Equity LifeStyle Properties, Inc.	First Interstate BancSystem, Inc.	Hannon Armstrong Sustainable Infrastructure Capital, Inc.
Equity Residential	First Merchants Corporation	Harvest Capital Credit Corporation
Erie Indemnity Company	First Mid Bancshares, Inc.	Hawthorn Bancshares, Inc.
ESSA Bancorp, Inc.	First Midwest Bancorp, Inc.	HCI Group, Inc.
Essex Property Trust, Inc.	First National Corporation	HCP, Inc.
Euronet Worldwide, Inc.	First Republic Bank	Health Insurance Innovations, Inc.
Evans Bancorp, Inc.	First Savings Financial Group, Inc.	Healthcare Realty Trust Incorporated
Evercore Inc.	First United Corporation	Healthcare Trust of America, Inc.
Ever-Glory International Group, Inc.	First US Bancshares, Inc.	Heartland Financial USA, Inc.
Extra Space Storage Inc.	Flagstar Bancorp, Inc.	Hennessy Advisors, Inc.
F.N.B. Corporation	Flushing Financial Corporation	Hercules Capital, Inc.
Farmers & Merchants Bancorp, Inc.	FNCB Bancorp, Inc.	Heritage Commerce Corp
Farmers National Banc Corp.	Franklin Financial Network, Inc.	Heritage Financial Corporation
Farmland Partners Inc.	Franklin Financial Services Corporation	Heritage Insurance Holdings, Inc.
Fauquier Bankshares, Inc.	Franklin Resources, Inc.	Hersha Hospitality Trust
FBL Financial Group, Inc.	Franklin Street Properties Corp.	Highwoods Properties, Inc.
Federal Agricultural Mortgage Corporation	FS Bancorp, Inc.	Hilltop Holdings Inc.
Federal Realty Investment Trust	FS KKR Capital Corp.	Hingham Institution for Savings
Federated Investors, Inc.	FSB Bancorp, Inc.	HMN Financial, Inc.
FedNat Holding Company	Fulton Financial Corporation	HMS Holdings Corp.
Fidelity D & D Bancorp, Inc.	FVCBankcorp, Inc.	Home Bancorp, Inc.
Fidelity National Financial, Inc.	GAIN Capital Holdings, Inc.	Home Bancshares, Inc. (Conway, AR)
Fidus Investment Corporation	GAMCO Investors, Inc.	Home Federal Bancorp, Inc. of Louisiana
Fifth Third Bancorp	Gaming and Leisure Properties, Inc.	HomeStreet, Inc.
Financial Institutions, Inc.	Garrison Capital Inc.	HomeTrust Bancshares, Inc.
First American Financial Corporation	German American Bancorp, Inc.	Hope Bancorp, Inc.
First Bancorp	Getty Realty Corp.	HopFed Bancorp, Inc.
First BanCorp.	Glacier Bancorp, Inc.	Horace Mann Educators Corporation
First Bank	Gladstone Capital Corporation	Horizon Bancorp, Inc.
First Busey Corporation	Gladstone Investment Corporation	Horizon Technology Finance Corporation
First Business Financial Services, Inc.	Gladstone Land Corporation	Hospitality Properties Trust
First Capital, Inc.	Glen Burnie Bancorp	Host Hotels & Resorts, Inc.
First Citizens BancShares, Inc.	Golub Capital BDC, Inc.	
First Commonwealth Financial Corporation	Great Southern Bancorp, Inc.	
First Community Bankshares, Inc.	Greene County Bancorp,	
First Community Corporation		
First Defiance Financial Corp.		
First Financial Bancorp.		

Howard Bancorp, Inc.	Liberty Property Trust	National Bank Holdings Corporation
Hudson Pacific Properties, Inc.	Life Storage, Inc.	National Bankshares, Inc.
Humana Inc.	Lincoln National Corporation	National General Holdings Corp.
Huntington Bancshares Incorporated	Loews Corporation	National Health Investors, Inc.
IBERIABANK Corporation	LPL Financial Holdings Inc.	National Holdings Corporation
IF Bancorp, Inc.	LTC Properties, Inc.	National Retail Properties, Inc.
Impac Mortgage Holdings, Inc.	M&T Bank Corporation	National Western Life Group, Inc.
Income Opportunity Realty Investors, Inc.	Macatawa Bank Corporation	NBT Bancorp Inc.
Independence Holding Company	Macerich Company	Nelnet, Inc.
Independence Realty Trust, Inc.	Mack-Cali Realty Corporation	Network-1 Technologies, Inc.
Independent Bank Corp.	Mackinac Financial Corporation	New Mountain Finance Corporation
Independent Bank Corporation	Magyar Bancorp, Inc.	New Residential Investment Corp.
Independent Bank Group, Inc.	Main Street Capital Corporation	New York Community Bancorp, Inc.
Intercontinental Exchange, Inc.	Malvern Bancorp, Inc.	Newtek Business Services Corp.
InterDigital, Inc.	Manhattan Bridge Capital, Inc.	Nicolet Bankshares, Inc.
International Bancshares Corporation	Manning & Napier, Inc.	NMI Holdings, Inc.
Invesco Mortgage Capital Inc.	Marcus & Millichap, Inc.	North European Oil Royalty Trust
Investors Bancorp, Inc.	MarketAxess Holdings Inc.	Northeast Bank
Investors Title Company	Marlin Business Services Corp.	Northern Trust Corporation
Iron Mountain Incorporated	Marsh & McLennan Companies, Inc.	Northfield Bancorp, Inc. (Staten Island, NY)
J.W. Mays, Inc.	Mastercard Incorporated	Northrim BanCorp, Inc.
Jones Lang LaSalle Incorporated	MBT Financial Corp.	Northwest Bancshares, Inc.
JPMorgan Chase & Co.	Medallion Financial Corp.	Norwood Financial Corp.
Kearny Financial Corp.	Medical Properties Trust, Inc.	Oaktree Strategic Income Corporation
Kemper Corporation	Mercantile Bank Corporation	OceanFirst Financial Corp.
Kennedy-Wilson Holdings, Inc.	Mercury General Corporation	Oconee Federal Financial Corp.
Kentucky First Federal Bancorp	Meridian Bancorp, Inc.	OFG Bancorp
KeyCorp	Mesa Royalty Trust	OFS Capital Corporation
Kilroy Realty Corporation	Mesabi Trust	Ohio Valley Banc Corp.
Kimco Realty Corporation	Meta Financial Group, Inc.	Old Line Bancshares, Inc.
Kingstone Companies, Inc.	MetLife, Inc.	Old National Bancorp
KKR & Co. Inc.	MFA Financial, Inc.	Old Point Financial Corporation
Ladder Capital Corp	MGIC Investment Corporation	Old Republic International Corporation
Lake Shore Bancorp, Inc.	Mid Penn Bancorp, Inc.	Old Second Bancorp, Inc.
Lakeland Bancorp, Inc.	Mid-America Apartment Communities, Inc.	Omega Healthcare Investors, Inc.
Lakeland Financial Corporation	Middlefield Banc Corp.	One Liberty Properties, Inc.
Lamar Advertising Company (REIT)	MidWestOne Financial Group, Inc.	OneMain Holdings, Inc.
Landmark Bancorp, Inc.	Moelis & Company	Oppenheimer Holdings Inc.
LCNB Corp.	Molina Healthcare, Inc.	OptimumBank Holdings, Inc.
LegacyTexas Financial Group, Inc.	Monmouth Real Estate Investment Corporation	Opus Bank
Legg Mason, Inc.	Monroe Capital Corporation	
LendingTree, Inc.	Morgan Stanley	
Lexington Realty Trust	Mr. Cooper Group Inc.	
	MSCI Inc.	
	MutualFirst Financial, Inc.	
	MVB Financial Corp.	

Oritani Financial Corp.	PS Business Parks, Inc.	Select Bancorp, Inc.
Orrstown Financial Services, Inc.	Public Storage	Selective Insurance Group, Inc.
Ottawa Bancorp, Inc.	Pzena Investment Management, Inc.	Senior Housing Properties Trust
Outfront Media Inc.	QCR Holdings, Inc.	ServisFirst Bancshares, Inc.
Oxford Square Capital Corp.	QTS Realty Trust, Inc.	Severn Bancorp, Inc.
Pacific Mercantile Bancorp	Radian Group Inc.	Shore Bancshares, Inc.
Pacific Premier Bancorp, Inc.	Rambus Inc.	Sierra Bancorp
PacWest Bancorp	Rand Capital Corporation	Signature Bank
Park National Corporation	Raymond James Financial, Inc.	Silvercrest Asset Management Group Inc.
Parke Bancorp, Inc.	Rayonier Inc.	Simmons First National Corporation
Pathfinder Bancorp, Inc.	RE/MAX Holdings, Inc.	Simon Property Group, Inc.
Patriot National Bancorp, Inc.	Realogy Holdings Corp.	SL Green Realty Corp.
PB Bancorp, Inc.	Realty Income Corporation	SLM Corporation
PCB Bancorp	Regency Centers Corporation	Solar Capital Ltd.
Peapack-Gladstone Financial Corporation	Regional Management Corp.	Solar Senior Capital Ltd.
Pebblebrook Hotel Trust	Regions Financial Corporation	Sound Financial Bancorp, Inc.
PennantPark Floating Rate Capital Ltd.	Reinsurance Group of America, Incorporated	South State Corporation
PennantPark Investment Corporation	Renasant Corporation	Southern First Bancshares, Inc.
Penns Woods Bancorp, Inc.	Republic Bancorp, Inc.	Southern Missouri Bancorp, Inc.
PennyMac Financial Services, Inc.	Republic First Bancorp, Inc.	Southern National Bancorp of Virginia, Inc.
Peoples Financial Services Corp.	Retail Opportunity Investments Corp.	Southside Bancshares, Inc.
People's United Financial, Inc.	Retail Properties of America, Inc.	Southwest Georgia Financial Corporation
Permian Basin Royalty Trust	Rexford Industrial Realty, Inc.	Spirit Realty Capital, Inc.
Physicians Realty Trust	Riverview Bancorp, Inc.	STAG Industrial, Inc.
Piedmont Office Realty Trust, Inc.	Riverview Financial Corporation	Starwood Property Trust, Inc.
Pinnacle Financial Partners, Inc.	RLI Corp.	State Auto Financial Corporation
Piper Jaffray Companies	RLJ Lodging Trust	State Street Corporation
Plumas Bancorp	Royal Gold, Inc.	Stellus Capital Investment Corporation
Popular, Inc.	RPT Realty	Stewardship Financial Corporation
PRA Group, Inc.	Ryman Hospitality Properties, Inc.	Stewart Information Services Corporation
Preferred Bank	S&T Bancorp, Inc.	Stifel Financial Corp.
Premier Financial Bancorp, Inc.	Sabine Royalty Trust	Stock Yards Bancorp, Inc.
Primerica, Inc.	Sabra Health Care REIT, Inc.	StoneCastle Financial Corp.
Principal Financial Group, Inc.	Safety Insurance Group, Inc.	Summit Financial Group, Inc.
ProAssurance Corporation	Salisbury Bancorp, Inc.	Summit Hotel Properties, Inc.
Prologis, Inc.	San Juan Basin Royalty Trust	Summit State Bank
Prospect Capital Corporation	Sandy Spring Bancorp, Inc.	Sun Communities, Inc.
Prosperity Bancshares, Inc.	Santander Consumer USA Holdings Inc.	Sunstone Hotel Investors, Inc.
Protective Insurance Corp.	Saul Centers, Inc.	SunTrust Banks, Inc.
Provident Financial Holdings, Inc.	SB Financial Group, Inc.	SVB Financial Group
Provident Financial Services, Inc.	SB One Bancorp	Synovus Financial Corp.
Prudential Bancorp, Inc.	Seacoast Banking Corporation of Florida	T. Rowe Price Group, Inc.
Prudential Financial, Inc.	Security National Financial Corporation	
	SEI Investments Company	

Tanger Factory Outlet Centers, Inc.  
 Taubman Centers, Inc.  
 TC PipeLines, LP  
 TCF Financial Corporation  
 TD Ameritrade Holding Corporation  
 Terreno Realty Corporation  
 Territorial Bancorp Inc.  
 Texas Capital Bancshares, Inc.  
 Texas Pacific Land Trust  
 TFS Financial Corporation  
 The Allstate Corporation  
 The Bancorp, Inc.  
 The Bank of New York Mellon Corporation  
 The Blackstone Group Inc.  
 The Carlyle Group L.P.  
 The Charles Schwab Corporation  
 The Community Financial Corporation  
 The First Bancorp, Inc.  
 The First Bancshares, Inc.  
 The First of Long Island Corporation  
 The GEO Group, Inc.  
 The Goldman Sachs Group, Inc.  
 The Hanover Insurance Group, Inc.  
 The Hartford Financial Services Group, Inc.  
 The Howard Hughes Corporation  
 The National Security Group, Inc.  
 The PNC Financial Services Group, Inc.  
 The Progressive Corporation  
 The Travelers Companies, Inc.  
 The Western Union Company  
 THL Credit, Inc.  
 Timberland Bancorp, Inc.  
 Tiptree Inc.  
 Tompkins Financial Corporation  
 Torchmark Corporation  
 TowneBank  
 TPG Specialty Lending, Inc.  
 Transcontinental Realty Investors, Inc.  
 TriCo Bancshares  
 TriplePoint Venture Growth BDC Corp.  
 TriState Capital Holdings, Inc.

TrustCo Bank Corp NY  
 Trustmark Corporation  
 Two River Bancorp  
 U.S. Bancorp  
 UDR, Inc.  
 UMB Financial Corporation  
 Umpqua Holdings Corporation  
 Union Bankshares, Inc.  
 United Bancorp, Inc.  
 United Bancshares, Inc.  
 United Bankshares, Inc.  
 United Community Banks, Inc.  
 United Community Financial Corp.  
 United Financial Bancorp, Inc.  
 United Fire Group, Inc.  
 United Insurance Holdings Corp.  
 United Security Bancshares  
 UnitedHealth Group Incorporated  
 Unity Bancorp, Inc.  
 Universal Health Realty Income Trust  
 Universal Insurance Holdings, Inc.  
 Uninvest Financial Corporation  
 Unum Group  
 Urstadt Biddle Properties Inc.  
 Valley National Bancorp  
 Ventas, Inc.  
 Verisk Analytics, Inc.  
 Village Bank and Trust Financial Corp.  
 Viper Energy Partners LP  
 Virtus Investment Partners, Inc.  
 Visa Inc.  
 Vornado Realty Trust  
 Voya Financial, Inc.  
 W. P. Carey Inc.  
 W. R. Berkley Corporation  
 Waddell & Reed Financial, Inc.  
 WageWorks, Inc.  
 Walker & Dunlop, Inc.  
 Washington Federal, Inc.  
 Washington Real Estate Investment Trust  
 Washington Trust Bancorp, Inc.  
 Waterstone Financial, Inc.  
 Webster Financial Corporation  
 Weingarten Realty Investors

WellCare Health Plans, Inc.  
 Wellesley Bancorp, Inc.  
 Wells Fargo & Company  
 Welltower Inc.  
 WesBanco, Inc.  
 West Bancorporation, Inc.  
 Westamerica Bancorporation  
 Western Alliance Bancorporation  
 Western New England Bancorp, Inc.  
 Westwood Holdings Group, Inc.  
 WhiteHorse Finance, Inc.  
 Whitestone REIT  
 Winmark Corporation  
 Wintrust Financial Corporation  
 WisdomTree Investments, Inc.  
 World Acceptance Corporation  
 WSFS Financial Corporation  
 WVS Financial Corp.  
 Wyndham Destinations, Inc.  
 Zions Bancorporation, National Association

---

**SIC 60**

1st Constitution Bancorp  
 1st Source Corporation  
 ACNB Corporation  
 American National Bankshares Inc.  
 American River Bankshares  
 Ameris Bancorp  
 AmeriServ Financial, Inc.  
 Ames National Corporation  
 Arrow Financial Corporation  
 Associated Banc-Corp  
 Atlantic Union Bankshares Corporation  
 Auburn National Bancorporation, Inc.  
 Axos Financial, Inc.  
 Banc of California, Inc.  
 BancFirst Corporation  
 Bancorp Of New Jersey, Inc.  
 BancorpSouth Bank  
 Bank First Corporation  
 Bank of America Corporation  
 Bank of Commerce Holdings  
 Bank of Hawaii Corporation

Bank of Marin Bancorp	CNB Financial Corporation	First Financial Bancorp.
Bank of South Carolina Corporation	Codorus Valley Bancorp, Inc.	First Financial Bankshares, Inc.
Bank of the James Financial Group, Inc.	Colony Bankcorp, Inc.	First Financial Corporation
Bank OZK	Columbia Banking System, Inc.	First Financial Northwest, Inc.
BankFinancial Corporation	Comerica Incorporated	First Guaranty Bancshares, Inc.
BankUnited, Inc.	Commerce Bancshares, Inc.	First Horizon National Corporation
Bankwell Financial Group, Inc.	Community Bank System, Inc.	First Internet Bancorp
Banner Corporation	Community Bankers Trust Corporation	First Interstate BancSystem, Inc.
Bar Harbor Bankshares	Community Trust Bancorp, Inc.	First Merchants Corporation
BayCom Corp	Community West Bancshares	First Mid Bancshares, Inc.
BB&T Corporation	ConnectOne Bancorp, Inc.	First Midwest Bancorp, Inc.
BBX Capital Corporation	Conn's, Inc.	First National Corporation
BCB Bancorp, Inc.	Cortland Bancorp	First Republic Bank
Berkshire Hills Bancorp, Inc.	Cullen/Frost Bankers, Inc.	First Savings Financial Group, Inc.
BOK Financial Corporation	Customers Bancorp, Inc.	First United Corporation
Boston Private Financial Holdings, Inc.	CVB Financial Corp.	First US Bancshares, Inc.
Bridge Bancorp, Inc.	Dime Community Bancshares, Inc.	Flagstar Bancorp, Inc.
Broadway Financial Corporation	DNB Financial Corporation	Flushing Financial Corporation
Brookline Bancorp, Inc.	Eagle Bancorp, Inc.	FNCB Bancorp, Inc.
Bryn Mawr Bank Corporation	East West Bancorp, Inc.	Franklin Financial Network, Inc.
C&F Financial Corporation	Elmira Savings Bank	Franklin Financial Services Corporation
Cambridge Bancorp	Emclair Financial Corp	FS Bancorp, Inc.
Camden National Corporation	Enterprise Bancorp, Inc.	FSB Bancorp, Inc.
Capital City Bank Group, Inc.	Enterprise Financial Services Corp	Fulton Financial Corporation
Capitol Federal Financial, Inc.	ESSA Bancorp, Inc.	FVCBancorp, Inc.
Carolina Financial Corporation	Euronet Worldwide, Inc.	German American Bancorp, Inc.
Carolina Trust BancShares, Inc.	Evans Bancorp, Inc.	Glacier Bancorp, Inc.
Carter Bank & Trust	F.N.B. Corporation	Glen Burnie Bancorp
Cathay General Bancorp	Farmers & Merchants Bancorp, Inc.	Great Southern Bancorp, Inc.
CB Financial Services, Inc.	Farmers National Banc Corp.	Greene County Bancorp, Inc.
CenterState Bank Corporation	Fauquier Bankshares, Inc.	Guaranty Federal Bancshares, Inc.
Central Federal Corporation	Fidelity D & D Bancorp, Inc.	Hancock Whitney Corporation
Central Pacific Financial Corp.	Fifth Third Bancorp	Hanmi Financial Corporation
Central Valley Community Bancorp	Financial Institutions, Inc.	Hawthorn Bancshares, Inc.
Century Bancorp, Inc.	First Bancorp	Heartland Financial USA, Inc.
Chemical Financial Corporation	First BanCorp.	Heritage Commerce Corp
Chemung Financial Corporation	First Bank	Heritage Financial Corporation
CIT Group Inc.	First Busey Corporation	Hingham Institution for Savings
Citizens & Northern Corporation	First Business Financial Services, Inc.	HMN Financial, Inc.
Citizens Community Bancorp, Inc.	First Capital, Inc.	Home Bancorp, Inc.
Citizens Holding Company	First Citizens BancShares, Inc.	
City Holding Company	First Commonwealth Financial Corporation	
Civista Bancshares, Inc.	First Community Bankshares, Inc.	
	First Community Corporation	
	First Defiance Financial Corp.	

Home Bancshares, Inc.  
(Conway, AR)

Home Federal Bancorp,  
Inc. of Louisiana

HomeStreet, Inc.

HomeTrust Bancshares,  
Inc.

Hope Bancorp, Inc.

HopFed Bancorp, Inc.

Horizon Bancorp, Inc.

Howard Bancorp, Inc.

Huntington Bancshares  
Incorporated

IBERIABANK Corporation

IF Bancorp, Inc.

Independent Bank Corp.

Independent Bank  
Corporation

Independent Bank Group,  
Inc.

International Bancshares  
Corporation

Investors Bancorp, Inc.

JPMorgan Chase & Co.

Kearny Financial Corp.

Kentucky First Federal  
Bancorp

KeyCorp

Lake Shore Bancorp, Inc.

Lakeland Bancorp, Inc.

Lakeland Financial  
Corporation

Landmark Bancorp, Inc.

LCNB Corp.

LegacyTexas Financial  
Group, Inc.

M&T Bank Corporation

Macatawa Bank  
Corporation

Mackinac Financial  
Corporation

Magyar Bancorp, Inc.

Malvern Bancorp, Inc.

Mastercard Incorporated

MBT Financial Corp.

Mercantile Bank  
Corporation

Meridian Bancorp, Inc.

Meta Financial Group, Inc.

Mid Penn Bancorp, Inc.

Middlefield Banc Corp.

MidWestOne Financial  
Group, Inc.

MutualFirst Financial, Inc.

MVB Financial Corp.

National Bank Holdings  
Corporation

National Bankshares, Inc.

NBT Bancorp Inc.

New York Community  
Bancorp, Inc.

Nicolet Bankshares, Inc.

Northeast Bank

Northern Trust  
Corporation

Northfield Bancorp, Inc.  
(Staten Island, NY)

Northrim BanCorp, Inc.

Northwest Bancshares,  
Inc.

Norwood Financial Corp.

OceanFirst Financial Corp.

Oconee Federal Financial  
Corp.

OFG Bancorp

Ohio Valley Banc Corp.

Old Line Bancshares, Inc.

Old National Bancorp

Old Point Financial  
Corporation

Old Second Bancorp, Inc.

OptimumBank Holdings,  
Inc.

Opus Bank

Oritani Financial Corp.

Orrstown Financial  
Services, Inc.

Ottawa Bancorp, Inc.

Pacific Mercantile  
Bancorp

Pacific Premier Bancorp,  
Inc.

PacWest Bancorp

Park National Corporation

Parke Bancorp, Inc.

Pathfinder Bancorp, Inc.

Patriot National Bancorp,  
Inc.

PB Bancorp, Inc.

PCB Bancorp

Peapack-Gladstone  
Financial Corporation

Penns Woods Bancorp,  
Inc.

Peoples Financial Services  
Corp.

People's United Financial,  
Inc.

Pinnacle Financial  
Partners, Inc.

Plumas Bancorp

Popular, Inc.

Preferred Bank

Premier Financial  
Bancorp, Inc.

Prosperity Bancshares,  
Inc.

Provident Financial  
Holdings, Inc.

Provident Financial  
Services, Inc.

Prudential Bancorp, Inc.

QCR Holdings, Inc.

Regions Financial  
Corporation

Renasant Corporation

Republic Bancorp, Inc.

Republic First Bancorp,  
Inc.

Riverview Bancorp, Inc.

Riverview Financial  
Corporation

S&T Bancorp, Inc.

Salisbury Bancorp, Inc.

Sandy Spring Bancorp,  
Inc.

SB Financial Group, Inc.

SB One Bancorp

Seacoast Banking  
Corporation of Florida

Select Bancorp, Inc.

ServisFirst Bancshares,  
Inc.

Severn Bancorp, Inc.

Shore Bancshares, Inc.

Sierra Bancorp

Signature Bank

Simmons First National  
Corporation

Sound Financial Bancorp,  
Inc.

South State Corporation

Southern First  
Bancshares, Inc.

Southern Missouri  
Bancorp, Inc.

Southern National  
Bancorp of Virginia, Inc.

Southside Bancshares,  
Inc.

Southwest Georgia  
Financial Corporation

State Street Corporation

Stewardship Financial  
Corporation

Stock Yards Bancorp, Inc.

Summit Financial Group,  
Inc.

Summit State Bank

SunTrust Banks, Inc.

SVB Financial Group

Synovus Financial Corp.

TCF Financial Corporation

Territorial Bancorp Inc.

Texas Capital Bancshares,  
Inc.

TFS Financial Corporation

The Bancorp, 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.

The Western Union

Company	American National Bankshares Inc.	Central Pacific Financial Corp.
Timberland Bancorp, Inc.	American River Bankshares	Central Valley Community Bancorp
Tompkins Financial Corporation	Ameris Bancorp	Century Bancorp, Inc.
TowneBank	AmeriServ Financial, Inc.	Chemical Financial Corporation
TriCo Bancshares	Ames National Corporation	Chemung Financial Corporation
TriState Capital Holdings, Inc.	Arrow Financial Corporation	CIT Group Inc.
TrustCo Bank Corp NY	Associated Banc-Corp	Citizens & Northern Corporation
Trustmark Corporation	Atlantic Union Bankshares Corporation	Citizens Community Bancorp, Inc.
Two River Bancorp	Auburn National Bancorporation, Inc.	Citizens Holding Company
U.S. Bancorp	BancFirst Corporation	City Holding Company
UMB Financial Corporation	Bancorp Of New Jersey, Inc.	Civista Bancshares, Inc.
Umpqua Holdings Corporation	BancorpSouth Bank	CNB Financial Corporation
Union Bankshares, Inc.	Bank First Corporation	Codorus Valley Bancorp, Inc.
United Bancorp, Inc.	Bank of America Corporation	Colony Bancorp, Inc.
United Bancshares, Inc.	Bank of Commerce Holdings	Columbia Banking System, Inc.
United Bankshares, Inc.	Bank of Hawaii Corporation	Comerica Incorporated
United Community Banks, Inc.	Bank of Marin Bancorp	Commerce Bancshares, Inc.
United Community Financial Corp.	Bank of South Carolina Corporation	Community Bank System, Inc.
United Financial Bancorp, Inc.	Bank of the James Financial Group, Inc.	Community Bankers Trust Corporation
United Security Bancshares	Bank OZK	Community Trust Bancorp, Inc.
Unity Bancorp, Inc.	BankFinancial Corporation	Community West Bancshares
Univest Financial Corporation	BankUnited, Inc.	ConnectOne Bancorp, Inc.
Valley National Bancorp	Bankwell Financial Group, Inc.	Conn's, Inc.
Village Bank and Trust Financial Corp.	Banner Corporation	Cortland Bancorp
Visa Inc.	Bar Harbor Bankshares	Cullen/Frost Bankers, Inc.
Washington Federal, Inc.	BayCom Corp	Customers Bancorp, Inc.
Washington Trust Bancorp, Inc.	BB&T Corporation	CVB Financial Corp.
Waterstone Financial, Inc.	BCB Bancorp, Inc.	DNB Financial Corporation
Webster Financial Corporation	Berkshire Hills Bancorp, Inc.	Eagle Bancorp, Inc.
Wellesley Bancorp, Inc.	BOK Financial Corporation	East West Bancorp, Inc.
Wells Fargo & Company	Boston Private Financial Holdings, Inc.	Emclair Financial Corp
WesBanco, Inc.	Bridge Bancorp, Inc.	Enterprise Bancorp, Inc.
West Bancorporation, Inc.	Bryn Mawr Bank Corporation	Enterprise Financial Services Corp
Westamerica Bancorporation	C&F Financial Corporation	Evans Bancorp, Inc.
Western Alliance Bancorporation	Cambridge Bancorp	F.N.B. Corporation
Western New England Bancorp, Inc.	Camden National Corporation	Farmers National Banc Corp.
Wintrust Financial Corporation	Capital City Bank Group, Inc.	Fauquier Bankshares, Inc.
WSFS Financial Corporation	Carolina Financial Corporation	Fidelity D & D Bancorp, Inc.
WVS Financial Corp.	Carolina Trust BancShares, Inc.	Fifth Third Bancorp
Zions Bancorporation, National Association	Carter Bank & Trust	Financial Institutions, Inc.
	Cathay General Bancorp	First Bancorp
	CB Financial Services, Inc.	First BanCorp.
	CenterState Bank Corporation	First Bank
		First Busey Corporation
		First Business Financial Services, Inc.
<b>SIC 602</b>		
1st Constitution Bancorp		
1st Source Corporation		
ACNB Corporation		

First Capital, Inc.	Home Bancshares, Inc. (Conway, AR)	Pacific Mercantile Bancorp
First Citizens BancShares, Inc.	HomeStreet, Inc.	Pacific Premier Bancorp, Inc.
First Commonwealth Financial Corporation	HomeTrust Bancshares, Inc.	PacWest Bancorp
First Community Bankshares, Inc.	Hope Bancorp, Inc.	Park National Corporation
First Community Corporation	Horizon Bancorp, Inc.	Parke Bancorp, Inc.
First Financial Bancorp.	Howard Bancorp, Inc.	Pathfinder Bancorp, Inc.
First Financial Bankshares, Inc.	Huntington Bancshares Incorporated	Patriot National Bancorp, Inc.
First Financial Corporation	IBERIABANK Corporation	PCB Bancorp
First Financial Northwest, Inc.	Independent Bank Corp.	Peapack-Gladstone Financial Corporation
First Guaranty Bancshares, Inc.	Independent Bank Corporation	Penns Woods Bancorp, Inc.
First Horizon National Corporation	Independent Bank Group, Inc.	Peoples Financial Services Corp.
First Internet Bancorp	International Bancshares Corporation	People's United Financial, Inc.
First Interstate BancSystem, Inc.	JPMorgan Chase & Co.	Pinnacle Financial Partners, Inc.
First Merchants Corporation	KeyCorp	Plumas Bancorp
First Mid Bancshares, Inc.	Lakeland Bancorp, Inc.	Popular, Inc.
First Midwest Bancorp, Inc.	Lakeland Financial Corporation	Preferred Bank
First National Corporation	Landmark Bancorp, Inc.	Premier Financial Bancorp, Inc.
First Republic Bank	LCNB Corp.	Prosperity Bancshares, Inc.
First Savings Financial Group, Inc.	LegacyTexas Financial Group, Inc.	QCR Holdings, Inc.
First United Corporation	M&T Bank Corporation	Regions Financial Corporation
First US Bancshares, Inc.	Macatawa Bank Corporation	Renasant Corporation
Flushing Financial Corporation	Mackinac Financial Corporation	Republic Bancorp, Inc.
FNCB Bancorp, Inc.	Malvern Bancorp, Inc.	Republic First Bancorp, Inc.
Franklin Financial Network, Inc.	Mercantile Bank Corporation	Riverview Financial Corporation
Franklin Financial Services Corporation	Mid Penn Bancorp, Inc.	S&T Bancorp, Inc.
Fulton Financial Corporation	Middlefield Banc Corp.	Salisbury Bancorp, Inc.
FVCBankcorp, Inc.	MidWestOne Financial Group, Inc.	Sandy Spring Bancorp, Inc.
German American Bancorp, Inc.	MutualFirst Financial, Inc.	SB Financial Group, Inc.
Glacier Bancorp, Inc.	MVB Financial Corp.	SB One Bancorp
Glen Burnie Bancorp	National Bank Holdings Corporation	Seacoast Banking Corporation of Florida
Great Southern Bancorp, Inc.	National Bankshares, Inc.	Select Bancorp, Inc.
Guaranty Federal Bancshares, Inc.	NBT Bancorp Inc.	ServisFirst Bancshares, Inc.
Hancock Whitney Corporation	Nicolet Bankshares, Inc.	Shore Bancshares, Inc.
Hanmi Financial Corporation	Northeast Bank	Sierra Bancorp
Hawthorn Bancshares, Inc.	Northern Trust Corporation	Signature Bank
Heartland Financial USA, Inc.	Northrim BanCorp, Inc.	Simmons First National Corporation
Heritage Commerce Corp	Norwood Financial Corp.	South State Corporation
Heritage Financial Corporation	OFG Bancorp	Southern First Bancshares, Inc.
	Ohio Valley Banc Corp.	Southern National Bancorp of Virginia, Inc.
	Old Line Bancshares, Inc.	Southside Bancshares, Inc.
	Old National Bancorp	Southwest Georgia Financial Corporation
	Old Point Financial Corporation	State Street Corporation
	Old Second Bancorp, Inc.	
	OptimumBank Holdings, Inc.	
	Opus Bank	
	Orrstown Financial Services, Inc.	

Stewardship Financial Corporation  
 Stock Yards Bancorp, Inc.  
 Summit Financial Group, Inc.  
 Summit State Bank  
 SunTrust Banks, Inc.  
 SVB Financial Group  
 Synovus Financial Corp.  
 TCF Financial Corporation  
 Texas Capital Bancshares, Inc.  
 The Bancorp, 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  
 TriState Capital Holdings, Inc.  
 Trustmark Corporation  
 Two River Bancorp  
 U.S. Bancorp  
 UMB Financial Corporation  
 Umpqua Holdings Corporation  
 Union Bankshares, Inc.  
 United Bancorp, Inc.  
 United Bancshares, Inc.  
 United Bankshares, Inc.  
 United Community Banks, Inc.  
 United Security Bancshares  
 Unity Bancorp, Inc.  
 Univest Financial Corporation  
 Valley National Bancorp  
 Village Bank and Trust Financial Corp.  
 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, National Association

---

**SIC 603**

Axos Financial, Inc.  
 Banc of California, Inc.  
 BBX Capital Corporation  
 Broadway Financial Corporation  
 Brookline Bancorp, Inc.  
 Capitol Federal Financial, Inc.  
 Central Federal Corporation  
 Dime Community Bancshares, Inc.  
 Elmira Savings Bank  
 ESSA Bancorp, Inc.  
 Farmers & Merchants Bancorp, Inc.  
 First Defiance Financial Corp.  
 Flagstar Bancorp, Inc.  
 FS Bancorp, Inc.  
 FSB Bancorp, Inc.  
 Greene County Bancorp, Inc.  
 Hingham Institution for Savings  
 HMN Financial, Inc.  
 Home Bancorp, Inc.  
 Home Federal Bancorp, Inc. of Louisiana  
 HopFed Bancorp, Inc.  
 IF Bancorp, Inc.  
 Investors Bancorp, Inc.  
 Kearny Financial Corp.  
 Kentucky First Federal Bancorp  
 Lake Shore Bancorp, Inc.  
 Magyar Bancorp, Inc.  
 MBT Financial Corp.  
 Meridian Bancorp, Inc.  
 Meta Financial Group, Inc.  
 New York Community Bancorp, Inc.  
 Northfield Bancorp, Inc. (Staten Island, NY)  
 Northwest Bancshares, Inc.  
 OceanFirst Financial Corp.  
 Oconee Federal Financial Corp.  
 Oritani Financial Corp.  
 Ottawa Bancorp, Inc.  
 PB Bancorp, Inc.  
 Provident Financial Holdings, Inc.  
 Provident Financial Services, Inc.  
 Prudential Bancorp, Inc.

Riverview Bancorp, Inc.  
 Severn Bancorp, Inc.  
 Sound Financial Bancorp, Inc.  
 Southern Missouri Bancorp, Inc.  
 Territorial Bancorp Inc.  
 TFS Financial Corporation  
 Timberland Bancorp, Inc.  
 TrustCo Bank Corp NY  
 United Community Financial Corp.  
 United Financial Bancorp, Inc.  
 Waterstone Financial, Inc.  
 Western New England Bancorp, Inc.  
 WSFS Financial Corporation  
 WVS Financial Corp.

---

**SIC 6035**

Axos Financial, Inc.  
 Banc of California, Inc.  
 BBX Capital Corporation  
 Broadway Financial Corporation  
 Brookline Bancorp, Inc.  
 Capitol Federal Financial, Inc.  
 Central Federal Corporation  
 Dime Community Bancshares, Inc.  
 Elmira Savings Bank  
 Farmers & Merchants Bancorp, Inc.  
 First Defiance Financial Corp.  
 Flagstar Bancorp, Inc.  
 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.  
 Meta Financial Group, Inc.  
 Northfield Bancorp, Inc. (Staten Island, NY)  
 Northwest Bancshares, Inc.  
 OceanFirst Financial Corp.  
 Oconee Federal Financial Corp.  
 Oritani Financial Corp.  
 Ottawa Bancorp, Inc.  
 PB Bancorp, Inc.

Provident Financial Holdings, Inc.  
Riverview Bancorp, Inc.  
Severn Bancorp, Inc.  
Sound Financial Bancorp, Inc.  
Territorial Bancorp Inc.  
TFS Financial Corporation  
TrustCo Bank Corp NY  
Waterstone Financial, Inc.  
Western New England Bancorp, Inc.  
WSFS Financial Corporation

---

**SIC 6036**

ESSA Bancorp, Inc.  
FS Bancorp, Inc.  
FSB Bancorp, Inc.  
Hingham Institution for Savings  
Investors Bancorp, Inc.  
Kearny Financial Corp.  
Magyar 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 61**

AirXpanders, Inc.  
Ally Financial Inc.  
Credit Acceptance Corporation  
Discover Financial Services  
Encore Capital Group, Inc.  
Federal Agricultural Mortgage Corporation  
Impac Mortgage Holdings, Inc.  
Income Opportunity Realty Investors, Inc.  
LendingTree, Inc.  
Marlin Business Services Corp.  
Medallion Financial Corp.  
Mr. Cooper Group Inc.  
Nelnet, Inc.  
OneMain Holdings, Inc.

PennyMac Financial Services, Inc.  
PRA Group, Inc.  
Regional Management Corp.  
Santander Consumer USA Holdings Inc.  
SLM Corporation  
Walker & Dunlop, Inc.  
World Acceptance Corporation

---

**SIC 614**

Credit Acceptance Corporation  
Discover Financial Services  
Nelnet, Inc.  
OneMain Holdings, Inc.  
Regional Management Corp.  
Santander Consumer USA Holdings Inc.  
SLM Corporation  
World Acceptance Corporation

---

**SIC 616**

Impac Mortgage Holdings, Inc.  
Income Opportunity Realty Investors, Inc.  
LendingTree, Inc.  
Mr. Cooper Group Inc.  
PennyMac Financial Services, Inc.  
Walker & Dunlop, Inc.

---

**SIC 6162**

Impac Mortgage Holdings, Inc.  
Income Opportunity Realty Investors, Inc.  
Mr. Cooper Group Inc.  
PennyMac Financial Services, Inc.  
Walker & Dunlop, Inc.

---

**SIC 62**

Affiliated Managers Group, Inc.  
Ameriprise Financial, Inc.  
Apollo Global Management, LLC  
Ares Management Corporation  
Artisan Partners Asset Management Inc.  
BlackRock, Inc.  
CME Group Inc.  
Cohen & Steers, Inc.  
Cowen Inc.

Diamond Hill Investment Group, Inc.  
E\*TRADE Financial Corporation  
Eaton Vance Corp.  
Evercore Inc.  
Ever-Glory International Group, Inc.  
Federated Investors, Inc.  
Franklin Resources, Inc.  
GAIN Capital Holdings, Inc.  
GAMCO Investors, Inc.  
Greenhill & Co., Inc.  
Hennessy Advisors, Inc.  
Intercontinental Exchange, Inc.  
KKR & Co. Inc.  
Legg Mason, Inc.  
LPL Financial Holdings Inc.  
Manning & Napier, Inc.  
MarketAxess Holdings Inc.  
Moelis & Company  
Morgan Stanley  
MSCI Inc.  
National Holdings Corporation  
Oppenheimer Holdings Inc.  
Piper Jaffray Companies  
Principal Financial Group, Inc.  
Pzena Investment Management, Inc  
Raymond James Financial, Inc.  
SEI Investments Company  
Silvercrest Asset Management Group Inc.  
Stifel Financial Corp.  
T. Rowe Price Group, Inc.  
TD Ameritrade Holding Corporation  
The Blackstone Group Inc.  
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.

---

**SIC 621**

Ameriprise Financial, Inc.

E\*TRADE Financial Corporation  
 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 628**

Affiliated Managers Group, Inc.  
 Apollo Global Management, LLC  
 Ares Management Corporation  
 Artisan Partners Asset Management Inc.  
 BlackRock, Inc.  
 Cohen & Steers, Inc.  
 Cowen Inc.  
 Diamond Hill Investment Group, Inc.  
 Eaton Vance Corp.  
 Federated Investors, Inc.  
 Franklin Resources, Inc.  
 GAMCO Investors, Inc.  
 Greenhill & Co., Inc.  
 Hennessy Advisors, Inc.  
 KKR & Co. Inc.  
 Legg Mason, Inc.  
 Manning & Napier, Inc.  
 Moelis & Company  
 MSCI Inc.  
 Principal Financial Group, Inc.  
 Pzena Investment Management, Inc.  
 SEI Investments Company  
 Silvercrest Asset Management Group Inc.  
 T. Rowe Price Group, Inc.  
 The Blackstone Group Inc.  
 The Carlyle Group L.P.  
 The Charles Schwab Corporation  
 Virtus Investment Partners, Inc.  
 Waddell & Reed Financial, Inc.  
 Westwood Holdings Group, Inc.  
 WisdomTree Investments, Inc.

---

**SIC 63**

Aflac Incorporated  
 Alleghany Corporation  
 American Equity Investment Life Holding Company  
 American Financial Group, Inc.  
 American International Group, Inc.  
 American National Insurance Company  
 Amerisafe, Inc.  
 Anthem, Inc.  
 Assurant, Inc.  
 Atlantic American Corporation  
 Centene Corporation  
 Cigna Corporation  
 Cincinnati Financial Corporation  
 CNA Financial Corporation  
 CNO Financial Group, Inc.  
 Donegal Group Inc.  
 EMC Insurance Group Inc.  
 Employers Holdings, Inc.  
 FBL Financial Group, Inc.  
 FedNat Holding Company  
 Fidelity National Financial, Inc.  
 First American Financial Corporation  
 Hallmark Financial Services, Inc.  
 HCI Group, Inc.  
 Heritage Insurance Holdings, Inc.  
 Horace Mann Educators Corporation  
 Humana Inc.  
 Independence Holding Company  
 Investors Title Company  
 Kemper Corporation  
 Kingstone Companies, Inc.  
 Lincoln National Corporation  
 Mercury General Corporation  
 MetLife, Inc.  
 MGIC Investment Corporation  
 Molina Healthcare, Inc.  
 National General Holdings Corp.  
 National Western Life Group, Inc.  
 NMI Holdings, Inc.  
 Old Republic International Corporation  
 ProAssurance Corporation

Protective Insurance Corp.  
 Prudential Financial, Inc.  
 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 Progressive Corporation  
 The Travelers Companies, Inc.  
 Tiptree Inc.  
 Torchmark Corporation  
 United Fire Group, Inc.  
 United Insurance Holdings Corp.  
 UnitedHealth Group Incorporated  
 Universal Insurance Holdings, Inc.  
 Unum Group  
 Voya Financial, Inc.  
 W. R. Berkley Corporation  
 WellCare Health Plans, Inc.

---

**SIC 631**

American Equity Investment Life Holding Company  
 FBL Financial Group, Inc.  
 MetLife, Inc.  
 National Western Life Group, Inc.  
 Prudential Financial, Inc.  
 Reinsurance Group of America, Incorporated

---

**SIC 632**

Aflac Incorporated  
 Anthem, Inc.  
 Centene Corporation  
 Cigna Corporation  
 CNO Financial Group, Inc.  
 Humana Inc.  
 Independence Holding Company  
 Molina Healthcare, Inc.

UnitedHealth Group  
Incorporated  
Unum Group  
WellCare Health Plans,  
Inc.

Universal Insurance  
Holdings, Inc.  
W. R. Berkley Corporation

**SIC 67**

**SIC 6324**

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

Acadia Realty Trust  
Agree Realty Corporation  
Alcentra Capital  
Corporation  
Alexander's, Inc.  
Alexandria Real Estate  
Equities, Inc.  
AllianceBernstein Holding  
L.P.  
America First Multifamily  
Investors, L.P.  
American Assets Trust,  
Inc.  
American Campus  
Communities, Inc.  
American Tower  
Corporation (REIT)

**SIC 633**

Alleghany Corporation  
American International  
Group, Inc.  
Amerisafe, Inc.  
Cincinnati Financial  
Corporation  
CNA Financial Corporation  
Donegal Group Inc.  
EMC Insurance Group Inc.  
Employers Holdings, Inc.  
FedNat Holding Company  
Hallmark Financial  
Services, Inc.  
HCI Group, Inc.  
Heritage Insurance  
Holdings, Inc.  
Kemper Corporation  
Kingstone Companies,  
Inc.  
Mercury General  
Corporation  
National General Holdings  
Corp.  
ProAssurance Corporation  
Protective Insurance Corp.  
RLI Corp.  
Safety Insurance Group,  
Inc.  
Selective Insurance  
Group, Inc.  
The Allstate Corporation  
The Hanover Insurance  
Group, Inc.  
The Hartford Financial  
Services Group, Inc.  
The National Security  
Group, Inc.  
The Progressive  
Corporation  
The Travelers Companies,  
Inc.  
Tiptree Inc.  
United Fire Group, Inc.  
United Insurance Holdings  
Corp.

**SIC 65**

American Realty  
Investors, Inc.  
CBRE Group, Inc.  
China HGS Real Estate  
Inc.  
Consolidated-Tomoka  
Land Co.  
Griffin Industrial Realty,  
Inc.  
J.W. Mays, Inc.  
Jones Lang LaSalle  
Incorporated  
Kennedy-Wilson Holdings,  
Inc.  
Marcus & Millichap, Inc.  
RE/MAX Holdings, Inc.  
Realty Holdings Corp.  
The Howard Hughes  
Corporation  
Transcontinental Realty  
Investors, Inc.  
Wyndham Destinations,  
Inc.

Annaly Capital  
Management, Inc.  
Anworth Mortgage Asset  
Corporation  
Apartment Investment  
and Management  
Company  
Apollo Commercial Real  
Estate Finance, Inc.  
Apollo Investment  
Corporation  
Ares Capital Corporation  
Ares Commercial Real  
Estate Corporation  
Armada Hoffer Properties,  
Inc.  
AvalonBay Communities,  
Inc.  
BlackRock Capital  
Investment Corporation  
BlackRock TCP Capital  
Corp.  
Blackstone Mortgage  
Trust, Inc.  
Boston Properties, Inc.  
BP Prudhoe Bay Royalty  
Trust  
Braemar Hotels & Resorts,  
Inc.  
Brandywine Realty Trust  
Brixmor Property Group  
Inc.  
BRT Apartments Corp.  
Camden Property Trust  
Capital Southwest  
Corporation  
CareTrust REIT, Inc.  
CEVA, Inc.  
Chatham Lodging Trust  
Chesapeake Lodging  
Trust  
CIM Commercial Trust  
Corporation  
City Office REIT, Inc.

**SIC 651**

American Realty  
Investors, Inc.  
Griffin Industrial Realty,  
Inc.  
J.W. Mays, Inc.  
Kennedy-Wilson Holdings,  
Inc.  
Transcontinental Realty  
Investors, Inc.

**SIC 653**

Jones Lang LaSalle  
Incorporated  
Marcus & Millichap, Inc.  
RE/MAX Holdings, Inc.  
Realty Holdings Corp.  
Wyndham Destinations,  
Inc.

CM Finance Inc.	Healthcare Realty Trust Incorporated	Oaktree Strategic Income Corporation
Columbia Property Trust, Inc.	Healthcare Trust of America, Inc.	OFS Capital Corporation
CoreCivic, Inc.	Hercules Capital, Inc.	Omega Healthcare Investors, Inc.
CorEnergy Infrastructure Trust, Inc.	Hersha Hospitality Trust	One Liberty Properties, Inc.
CoreSite Realty Corporation	Highwoods Properties, Inc.	Outfront Media Inc.
Corporate Office Properties Trust	Horizon Technology Finance Corporation	Oxford Square Capital Corp.
Cousins Properties Incorporated	Hospitality Properties Trust	Pebblebrook Hotel Trust
Cross Timbers Royalty Trust	Host Hotels & Resorts, Inc.	PennantPark Floating Rate Capital Ltd.
Crown Castle International Corp. (REIT)	Hudson Pacific Properties, Inc.	PennantPark Investment Corporation
CubeSmart	Independence Realty Trust, Inc.	Permian Basin Royalty Trust
DiamondRock Hospitality Company	InterDigital, Inc.	Physicians Realty Trust
Digital Realty Trust, Inc.	Invesco Mortgage Capital Inc.	Piedmont Office Realty Trust, Inc.
Dolby Laboratories, Inc.	Iron Mountain Incorporated	Prologis, Inc.
Dorchester Minerals, L.P.	Kilroy Realty Corporation	Prospect Capital Corporation
Douglas Emmett, Inc.	Kimco Realty Corporation	PS Business Parks, Inc.
Duke Realty Corporation	Lamar Advertising Company (REIT)	Public Storage
EastGroup Properties, Inc.	Lexington Realty Trust	QTS Realty Trust, Inc.
Empire State Realty Trust, Inc.	Liberty Property Trust	Rambus Inc.
EPR Properties	Life Storage, Inc.	Rand Capital Corporation
Equinix, Inc. (REIT)	LTC Properties, Inc.	Rayonier Inc.
Equity Commonwealth	Macerich Company	Realty Income Corporation
Equity LifeStyle Properties, Inc.	Mack-Cali Realty Corporation	Regency Centers Corporation
Equity Residential	Main Street Capital Corporation	Retail Opportunity Investments Corp.
Essex Property Trust, Inc.	Manhattan Bridge Capital, Inc.	Retail Properties of America, Inc.
Extra Space Storage Inc.	Medical Properties Trust, Inc.	Rexford Industrial Realty, Inc.
Farmland Partners Inc.	Mesa Royalty Trust	RLJ Lodging Trust
Federal Realty Investment Trust	Mesabi Trust	Royal Gold, Inc.
Fidus Investment Corporation	MFA Financial, Inc.	RPT Realty
First Industrial Realty Trust, Inc.	Mid-America Apartment Communities, Inc.	Ryman Hospitality Properties, Inc.
Franklin Street Properties Corp.	Monmouth Real Estate Investment Corporation	Sabine Royalty Trust
FS KKR Capital Corp.	Monroe Capital Corporation	Sabra Health Care REIT, Inc.
Gaming and Leisure Properties, Inc.	National Health Investors, Inc.	San Juan Basin Royalty Trust
Garrison Capital Inc.	National Retail Properties, Inc.	Saul Centers, Inc.
Getty Realty Corp.	Network-1 Technologies, Inc.	Senior Housing Properties Trust
Gladstone Capital Corporation	New Mountain Finance Corporation	Simon Property Group, Inc.
Gladstone Investment Corporation	New Residential Investment Corp.	SL Green Realty Corp.
Gladstone Land Corporation	Newtek Business Services Corp.	Solar Capital Ltd.
Golub Capital BDC, Inc.	North European Oil Royalty Trust	Solar Senior Capital Ltd.
Hannon Armstrong Sustainable Infrastructure Capital, Inc.		Spirit Realty Capital, Inc.
Harvest Capital Credit Corporation		STAG Industrial, Inc.
HCP, Inc.		Starwood Property Trust, Inc.
		Stellus Capital Investment Corporation
		StoneCastle Financial

Corp.  
Summit Hotel Properties, Inc.  
Sun Communities, Inc.  
Sunstone Hotel Investors, Inc.  
Tanger Factory Outlet Centers, Inc.  
Taubman Centers, Inc.  
TC PipeLines, LP  
Terreno Realty Corporation  
Texas Pacific Land Trust  
The GEO Group, Inc.  
THL Credit, Inc.  
TPG Specialty Lending, Inc.  
TriplePoint Venture Growth BDC Corp.  
UDR, Inc.  
Universal Health Realty Income Trust  
Urstadt Biddle Properties Inc.  
Ventas, Inc.  
Viper Energy Partners LP  
Vornado Realty Trust  
W. P. Carey Inc.  
Washington Real Estate Investment Trust  
Weingarten Realty Investors  
Welltower Inc.  
WhiteHorse Finance, Inc.  
Whitestone REIT  
Winmark Corporation

**SIC 6794**

CEVA, Inc.  
Dolby Laboratories, Inc.  
InterDigital, Inc.  
Network-1 Technologies, Inc.  
Rambus Inc.  
Winmark Corporation

**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.  
Ares Commercial Real Estate Corporation  
Armada Hoffer Properties, Inc.  
AvalonBay Communities, Inc.  
Blackstone Mortgage Trust, Inc.  
Boston Properties, Inc.  
Braemar Hotels & Resorts, Inc.  
Brandywine Realty Trust  
Brixmor Property Group Inc.  
BRT Apartments Corp.  
Camden Property Trust  
CareTrust REIT, Inc.  
Chatham Lodging Trust  
Chesapeake Lodging Trust  
CIM Commercial Trust Corporation  
City Office REIT, Inc.  
Columbia Property Trust, Inc.  
CoreCivic, Inc.  
CorEnergy Infrastructure Trust, Inc.  
CoreSite Realty Corporation  
Corporate Office Properties Trust  
Cousins Properties Incorporated  
Crown Castle International Corp. (REIT)  
CubeSmart  
DiamondRock Hospitality Company  
Digital Realty Trust, Inc.  
Douglas Emmett, Inc.  
Duke Realty Corporation  
EastGroup Properties, Inc.  
Empire State Realty Trust, Inc.  
EPR Properties  
Equinix, Inc. (REIT)  
Equity Commonwealth  
Equity LifeStyle Properties, Inc.  
Equity Residential  
Essex Property Trust, Inc.  
Extra Space Storage Inc.  
Farmland Partners Inc.  
Federal Realty Investment Trust  
First Industrial Realty Trust, Inc.

Franklin Street Properties Corp.  
Gaming and Leisure Properties, Inc.  
Getty Realty Corp.  
Gladstone Land Corporation  
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.  
Independence Realty Trust, Inc.  
Invesco Mortgage Capital Inc.  
Iron Mountain Incorporated  
Kilroy Realty Corporation  
Kimco Realty Corporation  
Lamar Advertising Company (REIT)  
Lexington Realty Trust  
Liberty Property Trust  
Life Storage, Inc.  
LTC Properties, Inc.  
Macerich Company  
Mack-Cali Realty Corporation  
Manhattan Bridge Capital, Inc.  
Medical Properties Trust, Inc.  
MFA Financial, Inc.  
Mid-America Apartment Communities, Inc.  
Monmouth Real Estate Investment Corporation  
National Health Investors, Inc.  
National Retail Properties, Inc.  
New Residential Investment Corp.  
Omega Healthcare Investors, Inc.  
One Liberty Properties, Inc.  
Outfront Media Inc.  
Pebblebrook Hotel Trust  
Physicians Realty Trust

Piedmont Office Realty Trust, Inc.	Adobe Inc.	Equifax Inc.
Prologis, Inc.	Air Lease Corporation	EVERTEC, Inc.
PS Business Parks, Inc.	Akamai Technologies, Inc.	Evolving Systems, Inc.
Public Storage	AMERCO	Extended Stay America, Inc.
QTS Realty Trust, Inc.	American Software, Inc.	F5 Networks, Inc.
Rayonier Inc.	AMN Healthcare Services, Inc.	Facebook, Inc.
Realty Income Corporation	ANSYS, Inc.	FactSet Research Systems Inc.
Regency Centers Corporation	ARC Document Solutions, Inc.	Fair Isaac Corporation
Retail Opportunity Investments Corp.	ASGN Incorporated	Fidelity National Information Services, Inc.
Retail Properties of America, Inc.	Aspen Technology, Inc.	Finjan Holdings, Inc.
Rexford Industrial Realty, Inc.	Automatic Data Processing, Inc.	Fiserv, Inc.
RLJ Lodging Trust	Aware, Inc.	FleetCor Technologies, Inc.
RPT Realty	Barrett Business Services, Inc.	GlobalSCAPE, Inc.
Ryman Hospitality Properties, Inc.	BG Staffing, Inc.	Green Dot Corporation
Sabra Health Care REIT, Inc.	Blackbaud, Inc.	Grubhub Inc.
Saul Centers, Inc.	Booking Holdings Inc.	Guidewire Software, Inc.
Senior Housing Properties Trust	Booz Allen Hamilton Holding Corporation	H&R Block, Inc.
Simon Property Group, Inc.	Bowl America Incorporated	HealthStream, Inc.
SL Green Realty Corp.	Boyd Gaming Corporation	Heidrick & Struggles International, Inc.
Spirit Realty Capital, Inc.	Broadridge Financial Solutions, Inc.	Hilton Worldwide Holdings Inc.
STAG Industrial, Inc.	CACI International Inc	Hyatt Hotels Corporation
Starwood Property Trust, Inc.	Cadence Design Systems, Inc.	IAC/InterActiveCorp
Summit Hotel Properties, Inc.	Canterbury Park Holding Corporation	Information Services Group, Inc.
Sun Communities, Inc.	Carriage Services, Inc.	Insignia Systems, Inc.
Sunstone Hotel Investors, Inc.	Cass Information Systems, Inc.	Insperty, Inc.
Tanger Factory Outlet Centers, Inc.	Cedar Fair, L.P.	Intelligent Systems Corporation
Taubman Centers, Inc.	Century Casinos, Inc.	International Business Machines Corporation
Terreno Realty Corporation	Cerner Corporation	International Speedway Corporation
The GEO Group, Inc.	Churchill Downs Incorporated	Intuit Inc.
UDR, Inc.	Cinemark Holdings, Inc.	Issuer Direct Corporation
Universal Health Realty Income Trust	Citrix Systems, Inc.	j2 Global, Inc.
Urstadt Biddle Properties Inc.	Cognizant Technology Solutions Corporation	Jack Henry & Associates, Inc.
Ventas, Inc.	Collectors Universe, Inc.	KAR Auction Services, Inc.
Vornado Realty Trust	Command Center, Inc.	Kelly Services, Inc.
W. P. Carey Inc.	CoreLogic, Inc.	Kforce Inc.
Washington Real Estate Investment Trust	CoStar Group, Inc.	Korn Ferry
Weingarten Realty Investors	Cross Country Healthcare, Inc.	Las Vegas Sands Corp.
Welltower Inc.	CSG Systems International, Inc.	LogMeIn, Inc.
Whitestone REIT	CSP Inc.	MAM Software Group, Inc.
	Cynergistek, Inc.	Manhattan Associates, Inc.
	DHI Group, Inc.	ManpowerGroup Inc.
	Dover Motorsports, Inc.	ManTech International Corporation
	DXC Technology Company	Marriott International, Inc.
	eBay Inc.	Marriott Vacations Worldwide Corporation
	Ebix, Inc.	Mastech Digital, Inc.
	Electronic Arts Inc.	McGrath RentCorp
	EPAM Systems, Inc.	Medidata Solutions, Inc.
		MercadoLibre, Inc.

**SIC 7**

ABM Industries Incorporated  
ACI Worldwide, Inc.  
Activision Blizzard, Inc.

MGM Resorts International	Stamps.com Inc.	Automatic Data Processing, Inc.
Microsoft Corporation	Sykes Enterprises, Incorporated	Aware, Inc.
MicroStrategy Incorporated	Symantec Corporation	Barrett Business Services, Inc.
Mobile Mini, Inc.	Synopsys, Inc.	BG Staffing, Inc.
Monarch Casino & Resort, Inc.	Take-Two Interactive Software, Inc.	Blackbaud, Inc.
Monotype Imaging Holdings Inc.	TechTarget, Inc.	Booking Holdings Inc.
Monro, Inc.	Teradata Corporation	Booz Allen Hamilton Holding Corporation
Moody's Corporation	The Interpublic Group of Companies, Inc.	Broadridge Financial Solutions, Inc.
Morningstar, Inc.	Total System Services, Inc.	CACI International Inc
National Instruments Corporation	Travelzoo	Cadence Design Systems, Inc.
National Research Corporation	TriNet Group, Inc.	Cass Information Systems, Inc.
Natural Gas Services Group, Inc.	TripAdvisor, Inc.	Cerner Corporation
Net 1 UEPS Technologies, Inc.	TrueBlue, Inc.	Citrix Systems, Inc.
Netflix, Inc.	TSR, Inc.	Cognizant Technology Solutions Corporation
NetScout Systems, Inc.	TTEC Holdings, Inc.	Collectors Universe, Inc.
NextGen Healthcare, Inc.	Tyler Technologies, Inc.	Command Center, Inc.
NIC Inc.	United Rentals, Inc.	CoreLogic, Inc.
Oak Valley Bancorp	Vail Resorts, Inc.	CoStar Group, Inc.
Omniceil, Inc.	Veeva Systems Inc.	Cross Country Healthcare, Inc.
Omnicom Group Inc.	Verint Systems Inc.	CSG Systems International, Inc.
Oracle Corporation	Viad Corp	CSP Inc.
Paycom Software, Inc.	Virtusa Corporation	Cynergistek, Inc.
Pegasystems Inc.	WEX Inc.	DHI Group, Inc.
Perficient, Inc.	Wilhelmina International, Inc.	DXC Technology Company
Progress Software Corporation	Willis Lease Finance Corporation	eBay Inc.
PTC Inc.	Worldpay, Inc.	Ebix, Inc.
QAD Inc.	Wynn Resorts, Limited	Electronic Arts Inc.
Qualys, Inc.	Yelp Inc.	EPAM Systems, Inc.
RCM Technologies, Inc.	Zix Corporation	Equifax Inc.
Reading International, Inc.		EVERTEC, Inc.
RealPage, Inc.	<b>SIC 70</b>	Evolving Systems, Inc.
Robert Half International Inc.	Extended Stay America, Inc.	F5 Networks, Inc.
Rollins, Inc.	Hilton Worldwide Holdings Inc.	Facebook, Inc.
S&P Global Inc.	Hyatt Hotels Corporation	FactSet Research Systems Inc.
Sabre Corporation	Marriott International, Inc.	Fair Isaac Corporation
salesforce.com, inc.	Marriott Vacations Worldwide Corporation	Fidelity National Information Services, Inc.
Science Applications International Corporation		Finjan Holdings, Inc.
ServiceMaster Global Holdings, Inc.	<b>SIC 73</b>	Fiserv, Inc.
Shutterstock, Inc.	ABM Industries Incorporated	FleetCor Technologies, Inc.
SilverSun Technologies, Inc.	ACI Worldwide, Inc.	GlobalSCAPE, Inc.
Six Flags Entertainment Corporation	Activision Blizzard, Inc.	Green Dot Corporation
Sotheby's	Adobe Inc.	Grubhub Inc.
SP Plus Corporation	Air Lease Corporation	Guidewire Software, Inc.
SPAR Group, Inc.	Akamai Technologies, Inc.	HealthStream, Inc.
Speedway Motorsports, Inc.	American Software, Inc.	Heidrick & Struggles International, Inc.
SPS Commerce, Inc.	AMN Healthcare Services, Inc.	IAC/InterActiveCorp
SS&C Technologies Holdings, Inc.	ANSYS, Inc.	Information Services Group, Inc.
	ARC Document Solutions, Inc.	
	ASGN Incorporated	
	Aspen Technology, Inc.	

Insignia Systems, Inc.  
 Insperity, Inc.  
 Intelligent Systems Corporation  
 International Business Machines Corporation  
 Intuit Inc.  
 Issuer Direct Corporation  
 j2 Global, Inc.  
 Jack Henry & Associates, Inc.  
 KAR Auction Services, Inc.  
 Kelly Services, Inc.  
 Kforce Inc.  
 Korn Ferry  
 LogMeln, Inc.  
 MAM Software Group, Inc.  
 Manhattan Associates, Inc.  
 ManpowerGroup Inc.  
 ManTech International Corporation  
 Mastech Digital, Inc.  
 McGrath RentCorp  
 Medidata Solutions, Inc.  
 MercadoLibre, Inc.  
 Microsoft Corporation  
 MicroStrategy Incorporated  
 Mobile Mini, Inc.  
 Monotype Imaging Holdings Inc.  
 Moody's Corporation  
 Morningstar, Inc.  
 National Instruments Corporation  
 National Research Corporation  
 Net 1 UEPS Technologies, Inc.  
 NetScout Systems, Inc.  
 NextGen Healthcare, Inc.  
 NIC Inc.  
 Oak Valley Bancorp  
 Omnicell, Inc.  
 Omnicom Group Inc.  
 Oracle Corporation  
 Paycom Software, Inc.  
 Pegasystems Inc.  
 Perficient, Inc.  
 Progress Software Corporation  
 PTC Inc.  
 QAD Inc.  
 Qualys, Inc.  
 RCM Technologies, Inc.  
 RealPage, Inc.  
 Robert Half International Inc.  
 Rollins, Inc.  
 S&P Global Inc.  
 Sabre Corporation

salesforce.com, inc.  
 Science Applications International Corporation  
 Shutterstock, Inc.  
 SilverSun Technologies, Inc.  
 Sotheby's  
 SPAR Group, Inc.  
 SPS Commerce, Inc.  
 SS&C Technologies Holdings, Inc.  
 Stamps.com Inc.  
 Sykes Enterprises, Incorporated  
 Symantec Corporation  
 Synopsis, Inc.  
 Take-Two Interactive Software, Inc.  
 TechTarget, Inc.  
 Teradata Corporation  
 The Interpublic Group of Companies, Inc.  
 Total System Services, Inc.  
 Travelzoo  
 TriNet Group, Inc.  
 TripAdvisor, Inc.  
 TrueBlue, Inc.  
 TSR, Inc.  
 TTEC Holdings, Inc.  
 Tyler Technologies, Inc.  
 United Rentals, Inc.  
 Veeva Systems Inc.  
 Verint Systems Inc.  
 Viad Corp  
 Virtusa Corporation  
 WEX Inc.  
 Willis Lease Finance Corporation  
 Worldpay, Inc.  
 Yelp Inc.  
 Zix Corporation

---

**SIC 735**

Air Lease Corporation  
 McGrath RentCorp  
 Mobile Mini, Inc.  
 United Rentals, Inc.  
 Willis Lease Finance Corporation

---

**SIC 736**

AMN Healthcare Services, Inc.  
 ASGN Incorporated  
 Barrett Business Services, Inc.  
 Command Center, Inc.  
 Cross Country Healthcare, Inc.  
 DHI Group, Inc.

Heidrick & Struggles International, Inc.  
 Insperity, Inc.  
 Kelly Services, Inc.  
 Kforce Inc.  
 Korn Ferry  
 ManpowerGroup Inc.  
 Mastech Digital, Inc.  
 RCM Technologies, Inc.  
 Robert Half International Inc.  
 TrueBlue, Inc.

---

**SIC 7361**

AMN Healthcare Services, Inc.  
 DHI Group, Inc.  
 Heidrick & Struggles International, Inc.  
 Korn Ferry  
 Mastech Digital, Inc.

---

**SIC 7363**

ASGN Incorporated  
 Barrett Business Services, Inc.  
 Command Center, Inc.  
 Cross Country Healthcare, Inc.  
 Insperity, Inc.  
 Kelly Services, Inc.  
 Kforce Inc.  
 ManpowerGroup Inc.  
 TrueBlue, Inc.

---

**SIC 737**

ACI Worldwide, Inc.  
 Activision Blizzard, Inc.  
 Adobe Inc.  
 Akamai Technologies, Inc.  
 American Software, Inc.  
 ANSYS, Inc.  
 Aspen Technology, Inc.  
 Automatic Data Processing, Inc.  
 Aware, Inc.  
 Blackbaud, Inc.  
 Booking Holdings Inc.  
 Booz Allen Hamilton Holding Corporation  
 Broadridge Financial Solutions, Inc.  
 CACI International Inc  
 Cadence Design Systems, Inc.  
 Cerner Corporation  
 Citrix Systems, Inc.  
 Cognizant Technology Solutions Corporation  
 CoreLogic, Inc.  
 CoStar Group, Inc.

CSG Systems International, Inc.  
 CSP Inc.  
 Cynergistek, Inc.  
 DXC Technology Company  
 eBay Inc.  
 Ebix, Inc.  
 Electronic Arts 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.  
 Finjan Holdings, Inc.  
 Fiserv, Inc.  
 FleetCor Technologies, Inc.  
 GlobalSCAPE, Inc.  
 Grubhub Inc.  
 Guidewire Software, Inc.  
 HealthStream, Inc.  
 IAC/InterActiveCorp Information Services Group, Inc.  
 Intelligent Systems Corporation  
 International Business Machines Corporation  
 Intuit Inc.  
 Issuer Direct Corporation  
 j2 Global, Inc.  
 Jack Henry & Associates, 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.  
 National Instruments Corporation  
 Net 1 UEPS Technologies, Inc.  
 NetScout Systems, Inc.  
 NextGen Healthcare, Inc.  
 NIC Inc.  
 Oak Valley Bancorp  
 Omnicell, Inc.

Oracle Corporation  
 Paycom Software, Inc.  
 Pegasystems Inc.  
 Perficient, Inc.  
 Progress Software Corporation  
 PTC Inc.  
 QAD Inc.  
 Qualys, Inc.  
 RealPage, Inc.  
 Sabre Corporation  
 salesforce.com, inc.  
 Science Applications International Corporation  
 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  
 Travelzoo  
 TriNet Group, Inc.  
 TripAdvisor, Inc.  
 TSR, Inc.  
 Tyler Technologies, Inc.  
 Veeva Systems Inc.  
 Verint Systems Inc.  
 Virtusa Corporation  
 WEX Inc.  
 Worldpay, Inc.  
 Yelp Inc.  
 Zix Corporation

---

**SIC 7372**

Activision Blizzard, Inc.  
 American Software, Inc.  
 ANSYS, Inc.  
 Aspen Technology, Inc.  
 Aware, Inc.  
 Cadence Design Systems, Inc.  
 Citrix Systems, Inc.  
 Ebix, Inc.  
 Electronic Arts Inc.  
 Finjan Holdings, Inc.  
 GlobalSCAPE, Inc.  
 Guidewire Software, Inc.  
 HealthStream, Inc.  
 Intelligent Systems Corporation  
 Intuit Inc.  
 MicroStrategy Incorporated

Monotype Imaging Holdings Inc.  
 National Instruments Corporation  
 NextGen Healthcare, Inc.  
 Pegasystems Inc.  
 PTC Inc.  
 Qualys, Inc.  
 RealPage, Inc.  
 salesforce.com, inc.  
 SS&C Technologies Holdings, Inc.  
 Symantec Corporation  
 Synopsys, Inc.  
 Take-Two Interactive Software, Inc.

---

**SIC 7373**

Broadridge Financial Solutions, Inc.  
 CACI International Inc  
 Cerner Corporation  
 CSP Inc.  
 F5 Networks, Inc.  
 Fair Isaac Corporation  
 Jack Henry & Associates, Inc.  
 Manhattan Associates, Inc.  
 ManTech International Corporation  
 NetScout Systems, Inc.  
 Oak Valley Bancorp  
 Omnicell, Inc.  
 Science Applications International Corporation  
 Tyler Technologies, Inc.

---

**SIC 7374**

Automatic Data Processing, Inc.  
 CoreLogic, Inc.  
 CSG Systems International, Inc.  
 Cynergistek, Inc.  
 EVERTEC, Inc.  
 Fidelity National Information Services, Inc.  
 Fiserv, Inc.  
 FleetCor Technologies, Inc.  
 Information Services Group, Inc.  
 Net 1 UEPS Technologies, Inc.  
 Sykes Enterprises, Incorporated  
 TriNet Group, Inc.  
 WEX Inc.  
 Worldpay, Inc.

**SIC 738**

ARC Document Solutions, Inc.  
 Cass Information Systems, Inc.  
 Collectors Universe, 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 79**

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

**SIC 8**

Acadia Healthcare Company, Inc.  
 Addus HomeCare Corporation

Adtalem Global Education Inc.  
 Amedisys, Inc.  
 American Public Education, Inc.  
 American Shared Hospital Services  
 Argan, Inc.  
 BioTelemetry, Inc.  
 Bright Horizons Family Solutions Inc.  
 Charles River Laboratories International, Inc.  
 CRA International, Inc.  
 DaVita Inc.  
 DLH Holdings Corp.  
 Ecology & Environment, Inc.  
 Encompass Health 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.  
 IQVIA Holdings Inc.  
 K12 Inc.  
 LHC Group, Inc.  
 Magellan Health, Inc.  
 MAXIMUS, Inc.  
 MEDNAX, Inc.  
 National HealthCare Corporation  
 Navigant Consulting, Inc.  
 NV5 Global, Inc.  
 Paychex, Inc.  
 Pope Resources, A Delaware Limited Partnership  
 PRGX Global, Inc.  
 Psychemedics Corporation  
 Quest Diagnostics Incorporated  
 RadNet, Inc.  
 Resources Connection, Inc.  
 Select Medical Holdings Corporation  
 Strategic 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**

Acadia Healthcare Company, Inc.  
 Addus HomeCare Corporation  
 Amedisys, Inc.  
 American Shared Hospital Services  
 BioTelemetry, Inc.  
 DaVita Inc.  
 DLH Holdings Corp.  
 Encompass Health Corporation  
 FONAR Corporation  
 LHC Group, Inc.  
 MEDNAX, Inc.  
 National HealthCare Corporation  
 Psychemedics 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 809**

American Shared Hospital Services  
 BioTelemetry, Inc.  
 DaVita Inc.  
 DLH Holdings Corp.  
 Tivity Health, Inc.

**SIC 82**

Adtalem Global Education Inc.  
 American Public Education, Inc.  
 Franklin Covey Co.  
 GP Strategies Corporation  
 Grand Canyon Education, Inc.  
 K12 Inc.  
 Strategic Education, Inc.

**SIC 87**

Argan, Inc.  
 Charles River Laboratories International, Inc.  
 Ecology & Environment, Inc.  
 Exponent, Inc.  
 Forrester Research, Inc.  
 Gartner, Inc.

Huron Consulting Group  
Inc.  
ICF International, Inc.  
IQVIA Holdings Inc.  
Magellan Health, Inc.  
MAXIMUS, 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.  
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**

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 *2019 Valuation Handbook – U.S. Industry Cost of Capital* (data through June 2019).



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

Ameriprise Financial, Inc.	AMP	6	62	621				
Ameris Bancorp	ABCB	6	60	602				
Amerisafe, Inc.	AMSF	6	63	633				
AmeriServ Financial, Inc.	ASRV	6	60	602				
AmerisourceBergen Corporation	ABC	5	51	512				
Ames National Corporation	ATLO	6	60	602				
AMETEK, Inc.	AME	3						
Amgen Inc.	AMGN	2	28	283	2836			
Amkor Technology, Inc.	AMKR	3	36	367	3674			
AMN Healthcare Services, Inc.	AMN	7	73	736	7361			
Amphenol Corporation	APH	3	36	367				
Analog Devices, Inc.	ADI	3	36	367	3674			
Andeavor Logistics LP	ANDX	4						
AngioDynamics, Inc.	ANGO	3	38	384	3841			
ANI Pharmaceuticals, Inc.	ANIP	2	28	283	2834			
Anika Therapeutics, Inc.	ANIK	2	28	283	2836			
Anixter International Inc.	AXE	5	50	506				
Annaly Capital Management, Inc.	NLY	6	67		6798			
ANSYS, Inc.	ANSS	7	73	737	7372			
Antero Resources Corporation	AR	1	13	131				
Anthem, Inc.	ANTM	6	63	632	6324			
Anworth Mortgage Asset Corporation	ANH	6	67		6798			
Apartment Investment and Management Company	AIV	6	67		6798			
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					
Applied Materials, Inc.	AMAT	3	35	355	3559			
Applied Optoelectronics, Inc.	AAOI	3	36	367	3674			
AptarGroup, Inc.	ATR	3	30	308				
Aqua America, Inc.	WTR	4	49	494				
Aramark	ARMK	5	58					
Arbor Realty Trust, Inc.	ABR	6						
ARC Document Solutions, Inc.	ARC	7	73	738				
ArcBest Corporation	ARCB	4	42		4213			
Archer-Daniels-Midland Company	ADM	2	20					
Ares Capital Corporation	ARCC	6	67					
Ares Commercial Real Estate Corporation	ACRE	6	67		6798			
Ares Management Corporation	ARES	6	62	628				
Argan, Inc.	AGX	8	87	871				
Arista Networks, Inc.	ANET	3	35	357				
Ark Restaurants Corp.	ARKR	5	58					
Armada Hoffer Properties, Inc.	AHH	6	67		6798			
Armstrong World Industries, Inc.	AWI	3	32					
Arotech Corporation	ARTX	3						
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				
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	481				
Atlantic American Corporation	AAME	6	63					
Atlantic Union Bankshares Corporation	AUB	6	60	602				
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			
Automatic Data Processing, Inc.	ADP	7	73	737	7374			
AutoNation, Inc.	AN	5	55					
AvalonBay Communities, Inc.	AVB	6	67		6798			
Avery Dennison Corporation	AVY	2	26					
Avista Corporation	AVA	4	49	493	4931			
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					
Axos Financial, Inc.	AX	6	60	603	6035			
AXT, Inc.	AXTI	3	36	367	3674			
B&G Foods, Inc.	BGS	2	20	203				
Badger Meter, Inc.	BMI	3	38	382				
Balchem Corporation	BCPC	2	28	283	2834			
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 First Corporation	BFC	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				



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

Camden National Corporation	CAC	6	60	602		Charter Communications, Inc.	CHTR	4	48		
Camden Property Trust	CPT	6	67		6798	Chase Corporation	CCF	2	28	289	
Campbell Soup Company	CPB	2	20	203		Chatham Lodging Trust	CLDT	6	67		6798
Cantel Medical Corp.	CMD	3	38	384		Chemical Financial Corporation	CHFC	6	60	602	
Canterbury Park Holding Corporation	CPHC	7	79			Chemung Financial Corporation	CHMG	6	60	602	
Capital City Bank Group, Inc.	CCBG	6	60	602		Cheniere Energy Partners, L.P.	CQP	5	51	517	
Capital One Financial Corporation	COF	6				Chesapeake Lodging Trust	CHSP	6	67		6798
Capital Southwest Corporation	CSWC	6	67			Chesapeake Utilities Corporation	CPK	4	49	492	
Capitol Federal Financial, Inc.	CFFN	6	60	603	6035	Chevron Corporation	CVX	2	29	291	
Cardinal Health, Inc.	CAH	5	51	512		Chicago Rivet & Machine Co.	CVR	3	34		
CareTrust REIT, Inc.	CTRE	6	67		6798	Chico's FAS, Inc.	CHS	5	56		
Carolina Financial Corporation	CARO	6	60	602		China Automotive Systems, Inc.	CAAS	3	37	371	3714
Carolina Trust BancShares, Inc.	CART	6	60	602		China HGS Real Estate Inc.	HGSH	6	65		
Carpenter Technology Corporation	CRS	3	33	331		Chipotle Mexican Grill, Inc.	CMG	5	58		
Carriage Services, Inc.	CSV	7				Church & Dwight Co., Inc.	CHD	2	28	284	
Carrols Restaurant Group, Inc.	TAST	5	58			Churchill Downs Incorporated	CHDN	7	79		
Carter Bank & Trust	CARE	6	60	602		Chuy's Holdings, Inc.	CHUY	5	58		
Carter's, Inc.	CRI	2	23			Ciena Corporation	CIEN	3	36	366	
Casey's General Stores, Inc.	CASY	5	54	541		Cigna Corporation	CI	6	63	632	6324
Cass Information Systems, Inc.	CASS	7	73	738		CIM Commercial Trust Corporation	CMCT	6	67		6798
Caterpillar Inc.	CAT	3				Cincinnati Financial Corporation	CINF	6	63	633	
Cathay General Bancorp	CATY	6	60	602		Cinemark Holdings, Inc.	CNK	7			
Cavco Industries, Inc.	CVCO	2	24			Ciner Resources LP	CINR	1	14		
CB Financial Services, Inc.	CBFV	6	60	602		Cintas Corporation	CTAS	2	23		
CBRE Group, Inc.	CBRE	6	65			CIRCOR International, Inc.	CIR	3			
CBS Corporation	CBS	4	48			Cirrus Logic, Inc.	CRUS	3	36	367	3674
CDW Corporation	CDW	5	50	504	5045	Cisco Systems, Inc.	CSCO	3	35	357	
Cedar Fair, L.P.	FUN	7	79	799		CIT Group Inc.	CIT	6	60	602	
Celanese Corporation	CE	2	28			Citi Trends, Inc.	CTRN	5	56	565	
Celgene Corporation	CELG	2	28	283	2834	Citigroup Inc.	C	6			
Cemtrex, Inc.	CETX	3				Citizens & Northern Corporation	CZNC	6	60	602	
Centene Corporation	CNC	6	63	632	6324	Citizens Community Bancorp, Inc.	CZWI	6	60	602	
CenterPoint Energy, Inc.	CNP	4	49			Citizens Holding Company	CIZN	6	60	602	
CenterState Bank Corporation	CSFL	6	60	602		Citrix Systems, Inc.	CTXS	7	73	737	7372
Central Federal Corporation	CFBK	6	60	603	6035	City Holding Company	CHCO	6	60	602	
Central Garden & Pet Company	CENTA	5	51			City Office REIT, Inc.	CIO	6	67		6798
Central Pacific Financial Corp.	CPF	6	60	602		Civista Bancshares, Inc.	CIVB	6	60	602	
Central Valley Community Bancorp	CVCY	6	60	602		Clearfield, Inc.	CLFD	3	36	367	
Century Bancorp, Inc.	CNBKA	6	60	602		Clearwater Paper Corporation	CLW	2	26		
Century Casinos, Inc.	CNTY	7	79	799		CM Finance Inc.	CMFN	6	67		
Century Communities, Inc.	CCS	1	15			CME Group Inc.	CME	6	62		
CenturyLink, Inc.	CTL	4	48	481	4813	CMS Energy Corporation	CMS	4	49		
Cerner Corporation	CERN	7	73	737	7373	CNA Financial Corporation	CNA	6	63	633	
CEVA, Inc.	CEVA	6	67		6794	CNB Financial Corporation	CCNE	6	60	602	
CF Industries Holdings, Inc.	CF	2	28	287		CNO Financial Group, Inc.	CNO	6	63	632	
Charles River Laboratories International, Inc.	CRL	8	87			Coca-Cola Consolidated, Inc.	COKE	2	20	208	
						Coda Octopus Group, Inc.	CODA	3	38		
						Codorus Valley Bancorp, Inc.	CVLY	6	60	602	
						Coffee Holding Co., Inc.	JVA	5	51	514	

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

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					
Colony Bankcorp, Inc.	CBAN	6	60	602					
Columbia Banking System, Inc.	COLB	6	60	602					
Columbia Property Trust, Inc.	CXP	6	67		6798				
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							
Command Center, Inc.	CCNI	7	73	736	7363				
Commerce Bancshares, Inc.	CBSH	6	60	602					
Commercial Metals Company	CMC	3	33	331					
Commercial Vehicle Group, Inc.	CVGI	3	37	371	3714				
CommScope Holding Company, Inc.	COMM	3	36	366	3663				
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					
Compass Minerals International, Inc.	CMP	1	14						
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	3	38	384	3845				
ConnectOne Bancorp, Inc.	CNOB	6	60	602					
Conn's, Inc.	CONN	6	60	602					
ConocoPhillips	COP	1	13	131					
Consolidated Edison, Inc.	ED	4	49						
Consolidated-Tomoka Land Co.	CTO	6	65						
Continental Building Products, Inc.	CBPX	3	32						
Continental Resources, Inc.	CLR	1	13	131					
Control4 Corporation	CTRL	3	38	382					
Cooper Tire & Rubber Company	CTB	3	30						
Cooper-Standard Holdings Inc.	CPS	3	37	371	3714				
Copart, Inc.	CPRT	5	50						
Corcept Therapeutics Incorporated	CORT	2	28	283	2834				
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				
Cornerstone Building Brands, Inc.	CNR	3	34	344					
Corning Incorporated	GLW	3							
Corporate Office Properties Trust	OFC	6	67		6798				
Cortland Bancorp	CLDB	6	60	602					
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					
CRA International, Inc.	CRAI	8							
Cracker Barrel Old Country Store, Inc.	CBRL	5	58						
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					
Cross Country Healthcare, Inc.	CCRN	7	73	736	7363				
Cross Timbers Royalty Trust	CRT	6	67						
CrossAmerica Partners LP	CAPL	5	51	517					
Crown Castle International Corp. (REIT)	CCI	6	67		6798				
Crown Crafts, Inc.	CRWS	2							
Crown Holdings, Inc.	CCK	3	34						
CSG Systems International, Inc.	CSGS	7	73	737	7374				
CSP Inc.	CSPI	7	73	737	7373				
CSX Corporation	CSX	4	40						
CTS Corporation	CTS	3	36	367					
CubeSmart	CUBE	6	67		6798				
Cubic Corporation	CUB	3							
Cullen/Frost Bankers, Inc.	CFR	6	60	602					
Curtiss-Wright Corporation	CW	3							
Customers Bancorp, Inc.	CUBI	6	60	602					
CVB Financial Corp.	CVBF	6	60	602					
CVD Equipment Corporation	CVV	3	35	355	3559				
CVR Energy, Inc.	CVI	2	29	291					
CVS Health Corporation	CVS	5	59						
CyberOptics Corporation	CYBE	3	38	382					
Cynergistek, Inc.	CTEK	7	73	737	7374				

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

D.R. Horton, Inc.	DHI	1	15		
Daktronics, Inc.	DAKT	3	39		
Dana Incorporated	DAN	3	37	371	3714
Danaher Corporation	DHR	3	38		
Darden Restaurants, Inc.	DRI	5	58		
Darling Ingredients Inc.	DAR	2	20		
Data I/O Corporation	DAIO	3	38	382	3825
DaVita Inc.	DVA	8	80	809	
DCP Midstream, LP	DCP	1	13	131	
Deere & Company	DE	3	35		
Delek Logistics Partners, LP	DKL	5	51	517	
Delek US Holdings, Inc.	DK	2	29	291	
Delta Air Lines, Inc.	DAL	4	45	451	
Delta Apparel, Inc.	DLA	2	23		
Deluxe Corporation	DLX	2	27		
Denny's Corporation	DENN	5	58		
Designer Brands Inc.	DBI	5	56		
DHI Group, Inc.	DHX	7	73	736	7361
Diamond Hill Investment Group, Inc.	DHIL	6	62	628	
Diamondback Energy, Inc.	FANG	1	13	131	
DiamondRock Hospitality Company	DRH	6	67		6798
Dick's Sporting Goods, Inc.	DKS	5	59		
Digi International Inc.	DGII	3	35	357	
Digital Realty Trust, Inc.	DLR	6	67		6798
Dillard's, Inc.	DDS	5	53		
Dime Community Bancshares, Inc.	DCOM	6	60	603	6035
Diodes Incorporated	DIOD	3	36	367	3674
Discover Financial Services	DFS	6	61	614	
Discovery, Inc.	DISCA	4	48		
DISH Network Corporation	DISH	4	48		
DLH Holdings Corp.	DLHC	8	80	809	
DNB Financial Corporation	DNBF	6	60	602	
Dolby Laboratories, Inc.	DLB	6	67		6794
Dollar General Corporation	DG	5	53	533	
Dollar Tree, Inc.	DLTR	5	53	533	
Dominion Energy, Inc.	D	4	49		
Domtar Corporation	UFS	2	26	262	
Donaldson Company, Inc.	DCI	3			
Donegal Group Inc.	DGICA	6	63	633	
Dorchester Minerals, L.P.	DMLP	6	67		
Dorman Products, Inc.	DORM	3	37	371	3714
Douglas Dynamics, Inc.	PLOW	3			
Douglas Emmett, Inc.	DEI	6	67		6798
Dover Corporation	DOV	3	35		
Dover Motorsports, Inc.	DVD	7	79		
Dril-Quip, Inc.	DRQ	3	35	353	
DTE Energy Company	DTE	4	49	493	4931
Ducommun Incorporated	DCO	3	37		
Duke Energy Corporation	DUK	4	49	493	4931
Duke Realty Corporation	DRE	6	67		6798
Dunkin' Brands Group, Inc.	DNKN	5	58		
DuPont de Nemours, Inc.	DD	2	28		
DXC Technology Company	DXC	7	73	737	
Dynasil Corporation of America	DYSL	3	38	382	
E*TRADE Financial	ETFC	6	62	621	
Corporation					
Eagle Bancorp, Inc.	EGBN	6	60	602	
Eagle Materials Inc.	EXP	3	32		
East West Bancorp, Inc.	EWBC	6	60	602	
EastGroup Properties, Inc.	EGP	6	67		6798
Eastman Chemical Company	EMN	2	28		
Eaton Vance Corp.	EV	6	62	628	
eBay Inc.	EBAY	7	73	737	
Ebix, Inc.	EBIX	7	73	737	7372
Echo Global Logistics, Inc.	ECHO	4	47	473	
EchoStar Corporation	SATS	3	36	366	3663
Ecology & Environment, Inc.	EEI	8	87	871	
Edison International	EIX	4	49	491	
Edwards Lifesciences Corporation	EW	3	38	384	3842
El Paso Electric Company	EE	4	49	491	
Electromed, Inc.	ELMD	3	38	384	3845
Electronic Arts Inc.	EA	7	73	737	7372
Electronics for Imaging, Inc.	EFII	3	35	357	3577
Electro-Sensors, Inc.	ELSE	3	35	357	3577
Eli Lilly and Company	LLY	2	28	283	2834
Elmira Savings Bank	ESBK	6	60	603	6035
EMC Insurance Group Inc.	EMCI	6	63	633	
Emclaire Financial Corp	EMCF	6	60	602	
EMCOR Group, Inc.	EME	1			
Emergent BioSolutions Inc.	EBS	2	28	283	2836
Emerson Electric Co.	EMR	3			
Empire State Realty Trust, Inc.	ESRT	6	67		6798
Employers Holdings, Inc.	EIG	6	63	633	
Enable Midstream Partners, LP	ENBL	4	49	492	
Enanta Pharmaceuticals, Inc.	ENTA	2	28	283	2836
Encompass Health Corporation	EHC	8	80		
Encore Capital Group, Inc.	ECPG	6	61		
Encore Wire Corporation	WIRE	3	33		
Energy Transfer LP	ET	4			
EnerSys	ENS	3	36	369	
EnPro Industries, Inc.	NPO	3			
Entegris, Inc.	ENTG	3	35	355	3559
Energy Corporation	ETR	4	49	491	
Enterprise Bancorp, Inc.	EBTC	6	60	602	
Enterprise Financial Services Corp	EFSC	6	60	602	
EOG Resources, Inc.	EOG	1	13	131	
EPAM Systems, Inc.	EPAM	7	73	737	
ePlus inc.	PLUS	5	50	504	5045
EPR Properties	EPR	6	67		6798
EQM Midstream Partners, LP	EQM	4	49	492	
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		



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

Fluor Corporation	FLR	1	16						
Flushing Financial Corporation	FFIC	6	60	602					
FMC Corporation	FMC	2	28	287					
FNCB Bancorp, Inc.	FNCB	6	60	602					
FONAR Corporation	FONR	8	80						
Foot Locker, Inc.	FL	5	56						
Ford Motor Company	F	3	37	371	3711				
FormFactor, Inc.	FORM	3	38	382	3825				
Forrester Research, Inc.	FORR	8	87						
Fortinet, Inc.	FTNT	3	35	357	3577				
Forward Air Corporation	FWRD	4	42						
Fossil Group, Inc.	FOSL	3	38						
Fox Factory Holding Corp.	FOXF	3	37						
Francesca's Holdings Corporation	FRAN	5	56						
Franklin Covey Co.	FC	8	82						
Franklin Electric Co., Inc.	FELE	3	36	362	3621				
Franklin Financial Network, Inc.	FSB	6	60	602					
Franklin Financial Services Corporation	FRAF	6	60	602					
Franklin Resources, Inc.	BEN	6	62	628					
Franklin Street Properties Corp.	FSP	6	67		6798				
Friedman Industries, Incorporated	FRD	3	33	331					
FS Bancorp, Inc.	FSBW	6	60	603	6036				
FS KKR Capital Corp.	FSK	6	67						
FSB Bancorp, Inc.	FSBC	6	60	603	6036				
Fulton Financial Corporation	FULT	6	60	602					
FutureFuel Corp.	FF	2	28	286					
FVCBankcorp, Inc.	FVCB	6	60	602					
GAIN Capital Holdings, Inc.	GCAP	6	62						
GAMCO Investors, Inc.	GBL	6	62	628					
GameStop Corp.	GME	5	57						
Gaming and Leisure Properties, Inc.	GLPI	6	67		6798				
Garrison Capital Inc.	GARS	6	67						
Gartner, Inc.	IT	8	87						
GATX Corporation	GATX	4	47						
Gencor Industries, Inc.	GENC	3	35	356					
Generac Holdings Inc.	GNRC	3	36	362	3621				
General Dynamics Corporation	GD	3							
General Mills, Inc.	GIS	2	20						
General Motors Company	GM	3	37	371	3711				
Genesco Inc.	GCO	5	56						
Genesee & Wyoming Inc.	GWR	4	40						
Gentex Corporation	GNTX	3	37	371	3714				
Gentherm Incorporated	THRM	3	37	371	3714				
Genuine Parts Company	GPC	5	50						
German American Bancorp, Inc.	GABC	6	60	602					
Getty Realty Corp.	GTY	6	67		6798				
G-III Apparel Group, Ltd.	GIII	5	58						
Gilead Sciences, Inc.	GILD	2	28	283	2836				
Glacier Bancorp, Inc.	GBCI	6	60	602					
Gladstone Capital Corporation	GLAD	6	67						
Gladstone Investment Corporation	GAIN	6	67						
Gladstone Land Corporation	LAND	6	67		6798				
Glen Burnie Bancorp	GLBZ	6	60	602					
Global Brass and Copper Holdings, Inc.	BRSS	3	33						
Global Partners LP	GLP	5	51	517					
GlobalSCAPE, Inc.	GSB	7	73	737	7372				
Globus Medical, Inc.	GMED	3	38	384	3841				
Gold Resource Corporation	GORO	1	10						
Golub Capital BDC, Inc.	GBDC	6	67						
GP Strategies Corporation	GPX	8	82						
Graco Inc.	GGG	3	35	356					
Graham Corporation	GHM	3	34	344					
Grand Canyon Education, Inc.	LOPE	8	82						
Granite Construction Incorporated	GVA	1	16						
Graphic Packaging Holding Company	GPK	2	26	265					
Gray Television, Inc.	GTN	4	48	483	4833				
Great Southern Bancorp, Inc.	GSBC	6	60	602					
Green Dot Corporation	GDOT	7	73	738					
Green Plains Inc.	GPRE	2							
Greene County Bancorp, Inc.	GCBC	6	60	603	6035				
Greenhill & Co., Inc.	GHL	6	62	628					
Greif, Inc.	GEF	2	26	265					
Griffin Industrial Realty, Inc.	GRIF	6	65	651					
Griffon Corporation	GFF	3	34	344					
Group 1 Automotive, Inc.	GPI	5	55						
Grubhub Inc.	GRUB	7	73	737					
Guaranty Federal Bancshares, Inc.	GFED	6	60	602					
Guess?, Inc.	GES	2	23						
Guidewire Software, Inc.	GWRE	7	73	737	7372				
Gulf Resources, Inc.	GURE	2	28	281					
H&R Block, Inc.	HRB	7							
H.B. Fuller Company	FUL	2	28	289					
Haemonetics Corporation	HAE	3	38	384	3841				
Hallador Energy Company	HNRG	1							
Hallmark Financial Services, Inc.	HALL	6	63	633					
Hancock Whitney Corporation	HWC	6	60	602					
Hanesbrands Inc.	HBI	2	23						
Hanmi Financial Corporation	HAFC	6	60	602					
Hannon Armstrong Sustainable Infrastructure Capital, Inc.	HASI	6	67		6798				
Harley-Davidson, Inc.	HOG	3	37						
Harsco Corporation	HSC	3							
Harvest Capital Credit Corporation	HCAP	6	67						
Hasbro, Inc.	HAS	3	39						
Haverty Furniture Companies, Inc.	HVT	5	57						
Hawaiian Electric Industries, Inc.	HE	4	49	491					
Hawaiian Holdings, Inc.	HA	4	45	451					
Hawthorn Bancshares, Inc.	HWBK	6	60	602					

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

Haynes International, Inc.	HAYN	3	33	331					Horizon Bancorp, Inc.	HBNC	6	60	602				
HCI Group, Inc.	HCI	6	63	633					Horizon Technology								
HCP, Inc.	HCP	6	67		6798				Finance Corporation	HRZN	6	67					
HD Supply Holdings, Inc.	HDS	5	50						Hormel Foods Corporation	HRL	2	20	201				
Health Insurance									Hospitality Properties								
Innovations, Inc.	HIIQ	6	64						Trust	HPT	6	67		6798			
Healthcare Realty Trust									Host Hotels & Resorts, Inc.	HST	6	67		6798			
Incorporated	HR	6	67		6798				Houston Wire & Cable								
Healthcare Trust of									Company	HWCC	5	50	506				
America, Inc.	HTA	6	67		6798				Howard Bancorp, Inc.	HBMD	6	60	602				
HealthStream, Inc.	HSTM	7	73	737	7372				HP Inc.	HPQ	3	35	357				
Heartland Express, Inc.	HTLD	4	42		4213				Hub Group, Inc.	HUBG	4	47	473				
Heartland Financial USA,									Hubbell Incorporated	HUBB	3						
Inc.	HTLF	6	60	602					Hudson Pacific Properties,								
HEICO Corporation	HEI	3							Inc.	HPP	6	67		6798			
Heidrick & Struggles									Humana Inc.	HUM	6	63	632	6324			
International, Inc.	HSII	7	73	736	7361				Huntington Bancshares								
Helios Technologies, Inc.	HLIO	3	34	349					Incorporated	HBAN	6	60	602				
Helmerich & Payne, Inc.	HP	1	13						Huntington Ingalls								
Hemisphere Media Group,									Industries, Inc.	HII	3	37					
Inc.	HMTV	4	48	483	4833				Huntsman Corporation	HUN	2	28					
Hennessy Advisors, Inc.	HNNA	6	62	628					Hurco Companies, Inc.	HURC	3	38	382				
Henry Schein, Inc.	HSIC	5	50	504					Huron Consulting Group								
Hercules Capital, Inc.	HTGC	6	67						Inc.	HURN	8	87	874	8742			
Heritage Commerce Corp	HTBK	6	60	602					Huttig Building Products,								
Heritage Financial									Inc.	HBP	5	50					
Corporation	HFWA	6	60	602					Hyatt Hotels Corporation	H	7	70					
Heritage Insurance									Hyster-Yale Materials								
Holdings, Inc.	HRTG	6	63	633					Handling, Inc.	HY	3	35	353				
Heritage-Crystal Clean, Inc	HCCI	4	49	495					IAC/InterActiveCorp	IAC	7	73	737				
Hersha Hospitality Trust	HT	6	67		6798				IBERIABANK Corporation	IBKC	6	60	602				
Heska Corporation	HSKA	2	28	283	2835				ICF International, Inc.	ICFI	8	87	874	8742			
Hexcel Corporation	HXL	2	28						ICU Medical, Inc.	ICUI	3	38	384	3841			
Hi-Crush Partners LP	HCR	1	14						IDACORP, Inc.	IDA	4	49	491				
Highpower International,									IDEX Corporation	IEX	3	35					
Inc.	HPJ	3	36	369					IDEXX Laboratories, Inc.	IDXX	2	28	283	2835			
Highwoods Properties, Inc.	HIW	6	67		6798				IDT Corporation	IDT	4	48	481	4813			
Hillenbrand, Inc.	HI	3							IES Holdings, Inc.	IESC	1						
Hilltop Holdings Inc.	HTH	6							IF Bancorp, Inc.	IROQ	6	60	603	6035			
Hilton Worldwide Holdings									II-VI Incorporated	IIVI	3	38	382				
Inc.	HLT	7	70						IKONICS Corporation	IKNX	2	28	284				
Hingham Institution for									Illinois Tool Works Inc.	ITW	3						
Savings	HIFS	6	60	603	6036				Illumina, Inc.	ILMN	3	38	382	3826			
HMN Financial, Inc.	HMNF	6	60	603	6035				Impac Mortgage Holdings,								
HMS Holdings Corp.	HMSY	6	64						Inc.	IMH	6	61	616	6162			
HNI Corporation	HNI	2	25						Income Opportunity Realty								
Holly Energy Partners, L.P.	HEP	4	46						Investors, Inc.	IOR	6	61	616	6162			
HollyFrontier Corporation	HFC	2	29	291					Independence Holding								
Hologic, Inc.	HOLX	3	38	384					Company	IHC	6	63	632				
Home Bancorp, Inc.	HBCP	6	60	603	6035				Independence Realty								
Home Bancshares, Inc.									Trust, Inc.	IRT	6	67		6798			
(Conway, AR)	HOMB	6	60	602					Independent Bank Corp.	INDB	6	60	602				
Home Federal Bancorp,									Independent Bank								
Inc. of Louisiana	HFBL	6	60	603	6035				Corporation	IBCP	6	60	602				
HomeStreet, Inc.	HMST	6	60	602					Independent Bank Group,								
HomeTrust Bancshares,									Inc.	IBTX	6	60	602				
Inc.	HTBI	6	60	602					Information Services								
Hooker Furniture									Group, Inc.	III	7	73	737	7374			
Corporation	HOFT	2	25	251					Ingles Markets,								
Hope Bancorp, Inc.	HOPE	6	60	602					Incorporated	IMKTA	5	54	541	5411			
HopFed Bancorp, Inc.	HFBC	6	60	603	6035				Ingredion Incorporated	INGR	2	20					
Horace Mann Educators									Innophos Holdings, Inc.	IPHS	2	28	281				
Corporation	HMN	6	63						Innospec Inc.	IOSP	2	28					
									Innoviva, Inc.	INVA	2	28	283	2834			

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

Inogen, Inc.	INGN	3	38	384	3845	John Wiley & Sons, Inc.	JW.A	2	27		
Insight Enterprises, Inc.	NSIT	5	50	504	5045	Johnson Outdoors Inc.	JOUT	3			
Insignia Systems, Inc.	ISIG	7	73			Jones Lang LaSalle Incorporated	JLL	6	65	653	
Insperty, Inc.	NSP	7	73	736	7363	JPMorgan Chase & Co.	JPM	6	60	602	
Installed Building Products, Inc.	IBP	1				Juniper Networks, Inc.	JNPR	3	35	357	
Insteel Industries, Inc.	IIIN	3	33	331		K12 Inc.	LRN	8	82		
Integer Holdings Corporation	ITGR	3	38	384	3845	Kadant Inc.	KAI	3	35	355	
Integra LifeSciences Holdings Corporation	IART	3	38	384	3842	Kaiser Aluminum Corporation	KALU	3	33		
Intel Corporation	INTC	3	36	367	3674	Kansas City Southern	KSU	4	40		
Intelligent Systems Corporation	INS	7	73	737	7372	KAR Auction Services, Inc.	KAR	7	73	738	
Inter Parfums, Inc.	IPAR	2	28	284		KB Home	KBH	1	15		
Intercontinental Exchange, Inc.	ICE	6	62			Kearny Financial Corp.	KRNY	6	60	603	6036
InterDigital, Inc.	IDCC	6	67		6794	Kellogg Company	K	2	20		
Interface, Inc.	TILE	2				Kelly Services, Inc.	KELYA	7	73	736	7363
International Bancshares Corporation	IBOC	6	60	602		KEMET Corporation	KEM	3	36	367	
International Business Machines Corporation	IBM	7	73	737		Kemper Corporation	KMPR	6	63	633	
International Flavors & Fragrances Inc.	IFF	2	28			Kennedy-Wilson Holdings, Inc.	KW	6	65	651	
International Paper Company	IP	2	26			Kentucky First Federal Bancorp	KFFB	6	60	603	6035
International Speedway Corporation	ISCA	7	79			Kewaunee Scientific Corporation	KEQU	3	38	382	
inTEST Corporation	INTT	3	38	382	3825	Key Tronic Corporation	KTCC	3	36	367	
IntriCon Corporation	IIN	3	38	384	3842	KeyCorp	KEY	6	60	602	
Intuit Inc.	INTU	7	73	737	7372	Kforce Inc.	KFRC	7	73	736	7363
Intuitive Surgical, Inc.	ISRG	3	38	384	3845	Kilroy Realty Corporation	KRC	6	67		6798
Invesco Mortgage Capital Inc.	IVR	6	67		6798	Kimball International, Inc.	KBAL	2	25		
Investors Bancorp, Inc.	ISBC	6	60	603	6036	Kimberly-Clark Corporation	KMB	2	26	262	
Investors Title Company	ITIC	6	63			Kimco Realty Corporation	KIM	6	67		6798
IPG Photonics Corporation	IPGP	3	36	367	3674	Kinder Morgan, Inc.	KMI	4	49	492	
IQVIA Holdings Inc.	IQV	8	87			Kingstone Companies, Inc.	KINS	6	63	633	
Iridium Communications Inc.	IRDM	4	48			Kirkland's, Inc.	KIRK	5	59		
iRobot Corporation	IRBT	3	39			KKR & Co. Inc.	KKR	6	62	628	
Iron Mountain Incorporated	IRM	6	67		6798	Knight-Swift Transportation Holdings Inc.	KNX	4	42		4213
Issuer Direct Corporation	ISDR	7	73	737		Knoll, Inc.	KNL	2	25		
IT Tech Packaging, Inc.	ITP	2	26	262		Kohl's Corporation	KSS	5	53		
ITT Inc.	ITT	3				Korn Ferry	KFY	7	73	736	7361
J & J Snack Foods Corp.	JJSF	2	20			Kraton Corporation	KRA	2	28		
J.B. Hunt Transport Services, Inc.	JBHT	4	42		4213	Kronos Worldwide, Inc.	KRO	2	28	281	
J.W. Mays, Inc.	MAYS	6	65	651		Kulicke and Soffa Industries, Inc.	KLIC	3	35	355	3559
j2 Global, Inc.	JCOM	7	73	737		L Brands, Inc.	LB	5	56		
Jabil Inc.	JBL	3	36	367	3672	L3Harris Technologies, Inc.	LHX	3	38		
Jack Henry & Associates, Inc.	JKHY	7	73	737	7373	Laboratory Corporation of America Holdings	LH	2			
Jack in the Box Inc.	JACK	5	58			Ladder Capital Corp	LADR	6			
Jacobs Engineering Group Inc.	JEC	1	16			Lake Shore Bancorp, Inc.	LSBK	6	60	603	6035
JetBlue Airways Corporation	JBLU	4	45	451		Lakeland Bancorp, Inc.	LBAI	6	60	602	
John B. Sanfilippo & Son, Inc.	JBSS	2	20			Lakeland Financial Corporation	LKFN	6	60	602	
John Bean Technologies Corporation	JBT	3	35			Lakeland Industries, Inc.	LAKE	3	38	384	3842
						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	

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

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					
Lawson Products, Inc.	LAWS	5	50						
La-Z-Boy Incorporated	LZB	5	50						
LCI Industries	LCII	3	37	371	3711				
LCNB Corp.	LCNB	6	60	602					
Lear Corporation	LEA	2	25						
Lee Enterprises, Incorporated	LEE	2	27						
LegacyTexas Financial Group, Inc.	LTXB	6	60	602					
Legg Mason, Inc.	LM	6	62	628					
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				
LGI Homes, Inc.	LGIH	1	15						
LHC Group, Inc.	LHCG	8	80						
Liberty Property Trust	LPT	6	67		6798				
Life Storage, Inc.	LSI	6	67		6798				
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	10						
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						
Loews Corporation	L	6							
LogMeIn, Inc.	LOGM	7	73	737					
Louisiana-Pacific Corporation	LPX	2	24						
Lowe's Companies, Inc.	LOW	5							
LPL Financial Holdings Inc.	LPLA	6	62	621					
LRAD Corporation	LRAD	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				
Mack-Cali Realty Corporation	CLI	6	67		6798				
Mackinac Financial Corporation	MFNC	6	60	602					
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	6036				
Main Street Capital Corporation	MAIN	6	67						
Malibu Boats, Inc.	MBUU	3	37						
Malvern Bancorp, Inc.	MLVF	6	60	602					
MAM Software Group, Inc.	MAMS	7	73	737					
Manhattan Associates, Inc.	MANH	7	73	737	7373				
Manhattan Bridge Capital, Inc.	LOAN	6	67		6798				
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				
Marcus & Millichap, Inc.	MMI	6	65	653					
Marine Products Corporation	MPX	3	37						
MarineMax, Inc.	HZO	5	55						
MarketAxess Holdings Inc.	MKTX	6	62						
Marlin Business Services Corp.	MRLN	6	61						
Marriott International, Inc.	MAR	7	70						
Marriott Vacations Worldwide Corporation	VAC	7	70						
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					
Masimo Corporation	MASI	3	38	384	3845				
MasTec, Inc.	MTZ	1	16						
Mastech Digital, Inc.	MHH	7	73	736	7361				
Mastercard Incorporated	MA	6	60						
Materion Corporation	MTRN	3	33						
Matrix Service Company	MTRX	1							
Matson, Inc.	MATX	4							
Maxim Integrated Products, Inc.	MXIM	3	36	367	3674				
MAXIMUS, Inc.	MMS	8	87	874					
MBT Financial Corp.	MBTF	6	60	603	6036				
McCormick & Company, Incorporated	MKC	2	20						
McDonald's Corporation	MCD	5	58						
McGrath RentCorp	MGRC	7	73	735					
McKesson Corporation	MCK	5	51	512					
Medallion Financial Corp.	MFIN	6	61						
Medical Properties Trust, Inc.	MPW	6	67		6798				
Medidata Solutions, Inc.	MDSO	7	73	737					
Medifast, Inc.	MED	2	20						
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					

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

Mercury Systems, Inc.	MRCY	3	36	367	3674	Morgan Stanley	MS	6	62		
Meridian Bancorp, Inc.	EBSB	6	60	603	6036	Morningstar, Inc.	MORN	7	73	737	
Meridian Bioscience, Inc.	VIVO	2	28	283		Motorcar Parts of America, Inc.	MPAA	3	36	369	
Merit Medical Systems, Inc.	MMSI	3	38	384	3841	Movado Group, Inc.	MOV	3	38		
Meritage Homes Corporation	MTH	1	15			MPLX LP	MPLX	4	46		
Meritor, Inc.	MTOR	3	37	371	3714	Mr. Cooper Group Inc.	COOP	6	61	616	6162
Mesa Laboratories, Inc.	MLAB	3	38			MSA Safety Incorporated	MSA	3	38	384	3842
Mesa Royalty Trust	MTR	6	67			MSC Industrial Direct Co., Inc.	MSM	5	50		
Mesabi Trust	MSB	6	67			MSCI Inc.	MSCI	6	62	628	
Meta Financial Group, Inc.	CASH	6	60	603	6035	MSG Networks Inc.	MSGN	4	48		
Methode Electronics, Inc.	MEI	3	36	367		MTS Systems Corporation	MTSC	3	38	382	
MetLife, Inc.	MET	6	63	631		Mueller Industries, Inc.	MLI	3	33		
Mettler-Toledo International Inc.	MTD	3	38	382	3826	Mueller Water Products, Inc.	MWA	3	34	349	
MFA Financial, Inc.	MFA	6	67		6798	Murphy USA Inc.	MUSA	5	55		
MGE Energy, Inc.	MGEE	4	49			MutualFirst Financial, Inc.	MFSF	6	60	602	
MGIC Investment Corporation	MTG	6	63			MVB Financial Corp.	MVBF	6	60	602	
MGM Resorts International	MGM	7	79	799		MYR Group Inc.	MYRG	1	16		
MGP Ingredients, Inc.	MGPI	2	20	208		Myriad Genetics, Inc.	MYGN	2	28	283	2835
Microchip Technology Incorporated	MCHP	3	36	367	3674	Nanometrics Incorporated	NANO	3	38	382	
Micron Technology, Inc.	MU	3	36	367	3674	Napco Security Technologies, Inc.	NSSC	3	36	366	
Microsoft Corporation	MSFT	7	73	737		National Bank Holdings Corporation	NBHC	6	60	602	
MicroStrategy Incorporated	MSTR	7	73	737	7372	National Bankshares, Inc.	NKSH	6	60	602	
Mid Penn Bancorp, Inc.	MPB	6	60	602		National Beverage Corp.	FIZZ	2	20	208	
Mid-America Apartment Communities, Inc.	MAA	6	67		6798	National General Holdings Corp.	NGHC	6	63	633	
Middlefield Banc Corp.	MBCN	6	60	602		National Health Investors, Inc.	NHI	6	67		6798
Middlesex Water Company	MSEX	4	49	494		National HealthCare Corporation	NHC	8	80		
MidWestOne Financial Group, Inc.	MOFG	6	60	602		National Holdings Corporation	NHLD	6	62	621	
Miller Industries, Inc.	MLR	3	37	371		National Instruments Corporation	NATI	7	73	737	7372
Mitek Systems, Inc.	MITK	3	35	357	3577	National Presto Industries, Inc.	NPK	3			
MKS Instruments, Inc.	MKSI	3				National Research Corporation	NRC	7	73	738	
Mobile Mini, Inc.	MINI	7	73	735		National Retail Properties, Inc.	NNN	6	67		6798
Modine Manufacturing Company	MOD	3	37	371	3714	National Western Life Group, Inc.	NWLI	6	63	631	
Moelis & Company	MC	6	62	628		Natural Alternatives International, Inc.	NAII	2	28	283	2834
Mohawk Industries, Inc.	MHK	2				Natural Gas Services Group, Inc.	NGS	7			
Molina Healthcare, Inc.	MOH	6	63	632	6324	Natural Grocers by Vitamin Cottage, Inc.	NGVC	5	54		
Molson Coors Brewing Company	TAP	2	20	208		Natural Health Trends Corp.	NHTC	5	51	512	
Monarch Casino & Resort, Inc.	MCRI	7	79	799		Nature's Sunshine Products, Inc.	NATR	2	28	283	2834
Mondelez International, Inc.	MDLZ	2	20			Natus Medical Incorporated	BABY	3	38	384	3845
Monmouth Real Estate Investment Corporation	MNR	6	67		6798	Nautilus, Inc.	NLS	3	39		
Monolithic Power Systems, Inc.	MPWR	3	36	367	3674	Navigant Consulting, Inc.	NCI	8	87	874	8742
Monotype Imaging Holdings Inc.	TYPE	7	73	737	7372	NBT Bancorp Inc.	NBTB	6	60	602	
Monro, Inc.	MNRO	7				Neenah, Inc.	NP	2	26	262	
Monroe Capital Corporation	MRCC	6	67			Nektar Therapeutics	NKTR	2	28	283	2834
Monster Beverage Corporation	MNST	2	20	208		Nelnet, Inc.	NNI	6	61	614	
Moody's Corporation	MCO	7	73			Neogen Corporation	NEOG	2	28	283	
Moog Inc.	MOG.A	3									

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

Net 1 UEPS Technologies, Inc.	UEPS	7	73	737	7374				
NetApp, Inc.	NTAP	3	35	357					
Netflix, Inc.	NFLX	7							
NETGEAR, Inc.	NTGR	3	35	357					
NetScout Systems, Inc.	NTCT	7	73	737	7373				
Network-1 Technologies, Inc.	NTIP	6	67		6794				
New Jersey Resources Corporation	NJR	4	49	492	4924				
New Media Investment Group Inc.	NEWM	2	27						
New Mountain Finance Corporation	NMFC	6	67						
New Residential Investment Corp.	NRZ	6	67		6798				
New York Community Bancorp, Inc.	NYCB	6	60	603	6036				
NewMarket Corporation	NEU	2	28	286					
Newmont Goldcorp Corporation	NEM	1	10						
Newtek Business Services Corp.	NEWT	6	67						
Nexstar Media Group, Inc.	NXST	4	48	483	4833				
NextEra Energy Partners, LP	NEP	4	49	491					
NextEra Energy, Inc.	NEE	4	49	491					
NextGen Healthcare, Inc.	NXGN	7	73	737	7372				
NIC Inc.	EGOV	7	73	737					
Nicolet Bankshares, Inc.	NCBS	6	60	602					
NiSource Inc.	NI	4	49						
NMI Holdings, Inc.	NMIH	6	63						
Nordson Corporation	NDSN	3	35	356					
Nordstrom, Inc.	JWN	5	56	565					
Norfolk Southern Corporation	NSC	4	40						
North European Oil Royalty Trust	NRT	6	67						
Northeast Bank	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 Natural Holding Company	NWN	4	49	492	4924				
NorthWestern Corporation	NWE	4	49	493	4931				
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							
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	7	73	737	7373				
Oaktree Strategic Income Corporation	OCSI	6	67						
Oasis Petroleum Inc.	OAS	1	13	131					
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							
OFB Bancorp	OFB	6	60	602					
OFS Capital Corporation	OFS	6	67						
OGE Energy Corp.	OGE	4	49	493	4931				
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						
Olympic Steel, Inc.	ZEUS	5	50						
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 Gas, Inc.	OGS	4	49	492	4924				
One Liberty Properties, Inc.	OLP	6	67		6798				
OneMain Holdings, Inc.	OMF	6	61	614					
ONEOK, Inc.	OKE	4	49	492					
OneSpan Inc.	OSPN	3	36	366					
Oppenheimer Holdings Inc.	OPY	6	62	621					
OptimumBank Holdings, Inc.	OPHC	6	60	602					
Opus Bank	OPB	6	60	602					
Oracle Corporation	ORCL	7	73	737					
OraSure Technologies, Inc.	OSUR	2	28	283	2835				
O'Reilly Automotive, Inc.	ORLY	2	26						
Oritani Financial Corp.	ORIT	6	60	603	6035				
Orrstown Financial Services, Inc.	ORRF	6	60	602					
Orthofix Medical Inc.	OFIX	3	38	384					
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				
Outfront Media Inc.	OUT	6	67		6798				
Owens Corning	OC	3	32						
Owens-Illinois, Inc.	OI	3	32						
Oxford Industries, Inc.	OXM	2	23						
Oxford Square Capital Corp.	OXSQ	6	67						
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 Mercantile Bancorp	PMBC	6	60	602					
Pacific Premier Bancorp, Inc.	PPBI	6	60	602					
Packaging Corporation of	PKG	2	26	265					

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

America				Pinnacle Financial Partners, Inc.	PNFP	6	60	602	
PacWest Bancorp	PACW	6	60	602	Pinnacle West Capital Corporation	PNW	4	49	491
Panhandle Oil and Gas Inc.	PHX	1	13	131	Pioneer Natural Resources Company	PXD	1	13	131
Papa John's International, Inc.	PZZA	5	58		Piper Jaffray Companies	PJC	6	62	621
Park National Corporation	PRK	6	60	602	Plains All American Pipeline, L.P.	PAA	5	51	517
Parke Bancorp, Inc.	PKBK	6	60	602	Plantronics, Inc.	PLT	3	36	366
Parker-Hannifin Corporation	PH	3	34	349	Plexus Corp.	PLXS	3	36	367 3672
Parsley Energy, Inc.	PE	1	13	131	Plumas Bancorp	PLBC	6	60	602
Pathfinder Bancorp, Inc.	PBHC	6	60	602	PNM Resources, Inc.	PNM	4	49	491
Patrick Industries, Inc.	PATK	2	24		Polaris Industries Inc.	PII	3	37	
Patriot National Bancorp, Inc.	PNBK	6	60	602	Pool Corporation	POOL	5	50	
Pattern Energy Group Inc.	PEGI	4	49		Pope Resources, A Delaware Limited Partnership	POPE	8		
Patterson Companies, Inc.	PDCO	5	50	504	Popular, Inc.	BPOP	6	60	602
Paychex, Inc.	PAYX	8	87		Portland General Electric Company	POR	4	49	491
Paycom Software, Inc.	PAYC	7	73	737	Potbelly Corporation	PBPB	5	58	
PB Bancorp, Inc.	PBBI	6	60	603 6035	Powell Industries, Inc.	POWL	3	36	
PBF Energy Inc.	PBF	2	29	291	Power Integrations, Inc.	POWI	3	36	367 3674
PBF Logistics LP	PBFX	4	46		PPG Industries, Inc.	PPG	2	28	
PC Connection, Inc.	CNXN	5	59	596	PPL Corporation	PPL	4	49	491
PCB Bancorp	PCB	6	60	602	PRA Group, Inc.	PRAA	6	61	
PCM, Inc.	PCMI	5	59	596	Preferred Bank	PFBC	6	60	602
PDF Solutions, Inc.	PDFS	3	35	355 3559	Preformed Line Products Company	PLPC	3	36	
Peapack-Gladstone Financial Corporation	PGC	6	60	602	Premier Financial Bancorp, Inc.	PFBI	6	60	602
Pebblebrook Hotel Trust	PEB	6	67	6798	Prestige Consumer Healthcare Inc.	PBH	5	51	512
Pegasystems Inc.	PEGA	7	73	737 7372	PRGX Global, Inc.	PRGX	8	87	
PennantPark Floating Rate Capital Ltd.	PFLT	6	67		PriceSmart, Inc.	PSMT	5	53	533
PennantPark Investment Corporation	PNNT	6	67		PrimeEnergy Resources Corporation	PNRG	1	13	131
Penns Woods Bancorp, Inc.	PWOD	6	60	602	Primerica, Inc.	PRI	6		
PennyMac Financial Services, Inc.	PFSI	6	61	616 6162	Primoris Services Corporation	PRIM	1	16	
Penske Automotive Group, Inc.	PAG	5	55		Principal Financial Group, Inc.	PFG	6	62	628
Peoples Bancorp Inc.	PEBO	3	38	384 3841	ProAssurance Corporation	PRA	6	63	633
Peoples Bancorp of North Carolina, Inc.	PEBK	3	38	384 3841	Pro-Dex, Inc.	PDEX	2	28	284
Peoples Financial Services Corp.	PFIS	6	60	602	Progress Software Corporation	PRGS	7	73	737
People's United Financial, Inc.	PBCT	6	60	602	Prologis, Inc.	PLD	6	67	6798
PepsiCo, Inc.	PEP	2	20	208	Prospect Capital Corporation	PSEC	6	67	
Perficient, Inc.	PRFT	7	73	737	Prosperity Bancshares, Inc.	PB	6	60	602
PerkinElmer, Inc.	PKI	3	38		Protective Insurance Corp.	PTVCB	6	63	633
Permian Basin Royalty Trust	PBT	6	67		Proto Labs, Inc.	PRLB	3	35	355 3559
PetMed Express, Inc.	PETS	5	59		Provident Financial Holdings, Inc.	PROV	6	60	603 6035
Pfizer Inc.	PFE	2	28	283 2834	Provident Financial Services, Inc.	PFS	6	60	603 6036
PGT Innovations, Inc.	PGTI	3	34	344	Prudential Bancorp, Inc.	PBIP	6	60	603 6036
Phibro Animal Health Corporation	PAHC	2	28	283	Prudential Financial, Inc.	PRU	6	63	631
Phillips 66	PSX	2	29	291	PS Business Parks, Inc.	PSB	6	67	6798
Phillips 66 Partners LP	PSXP	4	46		Psychemedics Corporation	PMD	8	80	
Photronics, Inc.	PLAB	3	36	367 3674	PTC Inc.	PTC	7	73	737 7372
Physicians Realty Trust	DOC	6	67	6798					
Piedmont Office Realty Trust, Inc.	PDM	6	67	6798					
Pilgrim's Pride Corporation	PPC	2	20	201					

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

Public Service Enterprise Group Incorporated	PEG	4	49	493	4931	Inc.				
Public Storage	PSA	6	67		6798	Republic Services, Inc.	RSG	4	49	495
PulteGroup, Inc.	PHM	1	15			ResMed Inc.	RMD	3	38	384 3845
PVH Corp.	PVH	2	23			Resources Connection, Inc.	RECN	8	87	
Pzena Investment Management, Inc	PZN	6	62	628		Retail Opportunity Investments Corp.	ROIC	6	67	6798
QAD Inc.	QADA	7	73	737		Retail Properties of America, Inc.	RPAI	6	67	6798
QCR Holdings, Inc.	QCRH	6	60	602		REX American Resources Corporation	REX	2	28	286
Qorvo, Inc.	QRVO	3	36	367	3674	Rexford Industrial Realty, Inc.	REXR	6	67	6798
QTS Realty Trust, Inc.	QTS	6	67		6798	Rexnord Corporation	RXN	3	35	356
Quaker Chemical Corporation	KWR	2	29			RF Industries, Ltd.	RFIL	3	36	367
QUALCOMM Incorporated	QCOM	3	36	367	3674	RGC Resources, Inc.	RGCO	4	49	492 4924
Qualys, Inc.	QLYS	7	73	737	7372	RH	RH	5	57	
Quanex Building Products Corporation	NX	3	34	344		Riverview Bancorp, Inc.	RVSB	6	60	603 6035
Quanta Services, Inc.	PWR	1				Riverview Financial Corporation	RIVE	6	60	602
Quest Diagnostics Incorporated	DGX	8	80			RLI Corp.	RLI	6	63	633
Quidel Corporation	QDEL	2	28	283	2835	RLJ Lodging Trust	RLJ	6	67	6798
Qurate Retail Inc.	QRTEA	5	59	596		Robert Half International Inc.	RHI	7	73	736
Radian Group Inc.	RDN	6	63			Rockwell Automation, Inc.	ROK	3		
Radiant Logistics, Inc.	RLGT	4	47	473		Rocky Brands, Inc.	RCKY	3	31	
RadNet, Inc.	RDNT	8	80			Rogers Corporation	ROG	3		
Ralph Lauren Corporation	RL	2	23			Rollins, Inc.	ROL	7	73	
Rambus Inc.	RMBS	6	67		6794	Roper Technologies, Inc.	ROP	3	38	
Rand Capital Corporation	RAND	6	67			Ross Stores, Inc.	ROST	5	56	565
Raven Industries, Inc.	RAVN	3				Royal Gold, Inc.	RGLD	6	67	
Raymond James Financial, Inc.	RJF	6	62	621		RPC, Inc.	RES	1	13	
Rayonier Advanced Materials Inc.	RYAM	2				RPM International Inc.	RPM	2	28	
Rayonier Inc.	RYN	6	67		6798	RPT Realty	RPT	6	67	6798
Raytheon Company	RTN	3				Rudolph Technologies, Inc.	RTEC	3	38	382
RBC Bearings Incorporated	ROLL	3	35	356		Rush Enterprises, Inc.	RUSHA	5	55	
RCM Technologies, Inc.	RCMT	7	73	736		Ruth's Hospitality Group, Inc.	RUTH	5	58	
RE/MAX Holdings, Inc.	RMAX	6	65	653		Ryman Hospitality Properties, Inc.	RHP	6	67	6798
Reading International, Inc.	RDI	7				S&P Global Inc.	SPGI	7	73	
Realogy Holdings Corp.	RLGY	6	65	653		S&T Bancorp, Inc.	STBA	6	60	602
RealPage, Inc.	RP	7	73	737	7372	Sabine Royalty Trust	SBR	6	67	
Realty Income Corporation	O	6	67		6798	Sabra Health Care REIT, Inc.	SBRA	6	67	6798
Red Robin Gourmet Burgers, Inc.	RRGB	5	58			Sabre Corporation	SABR	7	73	737
Regal Beloit Corporation	RBC	3	36	362	3621	Safety Insurance Group, Inc.	SAFT	6	63	633
Regency Centers Corporation	REG	6	67		6798	Saga Communications, Inc.	SGA	4	48	483
Regeneron Pharmaceuticals, Inc.	REGN	2	28	283	2834	Saia, Inc.	SAIA	4	42	4213
Regional Management Corp.	RM	6	61	614		Salem Media Group, Inc.	SALM	4	48	483
Regions Financial Corporation	RF	6	60	602		salesforce.com, inc.	CRM	7	73	737 7372
Reinsurance Group of America, Incorporated	RGA	6	63	631		Salisbury Bancorp, Inc.	SAL	6	60	602
Reliance Steel & Aluminum Co.	RS	5	50			San Juan Basin Royalty Trust	SJT	6	67	
Renasant Corporation	RNST	6	60	602		Sanderson Farms, Inc.	SAFM	2	20	201
Renewable Energy Group, Inc.	REGI	2	29			Sandy Spring Bancorp, Inc.	SASR	6	60	602
Repligen Corporation	RGEN	2	28	283	2836	Sanmina Corporation	SANM	3	36	367 3672
Republic Bancorp, Inc.	RBCAA	6	60	602		Santander Consumer USA Holdings Inc.	SC	6	61	614
Republic First Bancorp,	FRBK	6	60	602		Saul Centers, Inc.	BFS	6	67	6798

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

SB Financial Group, Inc.	SBFG	6	60	602	
SB One Bancorp	SBBX	6	60	602	
ScanSource, Inc.	SCSC	5	50		
Scholastic Corporation	SCHL	2	27		
Schweitzer-Mauduit International, Inc.	SWM	2			
Science Applications International Corporation	SAIC	7	73	737	7373
Seacoast Banking Corporation of Florida	SBCF	6	60	602	
Sealed Air Corporation	SEE	3	30	308	
Security National Financial Corporation	SNFCA	6			
SEI Investments Company	SEIC	6	62	628	
Select Bancorp, Inc.	SLCT	6	60	602	
Select Medical Holdings Corporation	SEM	8	80		
Selective Insurance Group, Inc.	SIGI	6	63	633	
Sempra Energy	SRE	4	49	493	4931
Semtech Corporation	SMTC	3	36	367	3674
Seneca Foods Corporation	SENEA	2	20	203	
Senior Housing Properties Trust	SNH	6	67		6798
Sensient Technologies Corporation	SXT	2	28	286	
ServiceMaster Global Holdings, Inc.	SERV	7			
ServisFirst Bancshares, Inc.	SFBS	6	60	602	
Servotronics, Inc.	SVT	3	36	362	3621
Severn Bancorp, Inc.	SVBI	6	60	603	6035
Sharps Compliance Corp.	SMED	4	49	495	
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	
Shutterstock, Inc.	SSTK	7	73	737	
Sierra Bancorp	BSRR	6	60	602	
SIGA Technologies, Inc.	SIGA	2	28	283	2836
Signature Bank	SBNY	6	60	602	
Silgan Holdings Inc.	SLGN	3	34		
Silicon Laboratories Inc.	SLAB	3	36	367	3674
Silvercrest Asset Management Group Inc.	SAMG	6	62	628	
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	
Sirius XM Holdings Inc.	SIRI	4	48	483	
Six Flags Entertainment Corporation	SIX	7	79	799	
SJW Group	SJW	4	49	494	
Skechers U.S.A., Inc.	SKX	3	31		
SkyWest, Inc.	SKYW	4	45	451	
Skyworks Solutions, Inc.	SWKS	3	36	367	3674
SL Green Realty Corp.	SLG	6	67		6798
Sleep Number Corporation	SNBR	2	25	251	
SLM Corporation	SLM	6	61	614	
Snap-on Incorporated	SNA	3			
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		
Sonoco Products Company	SON	2	26	265	
SORL Auto Parts, Inc.	SORL	3	37	371	3714
Sotheby's	BID	7	73	738	
Sound Financial Bancorp, Inc.	SFBC	6	60	603	6035
South State Corporation	SSB	6	60	602	
Southern Copper Corporation	SCCO	1	10		
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	
Southwest Georgia Financial Corporation	SGB	6	60	602	
SP Plus Corporation	SP	7			
SPAR Group, Inc.	SGRP	7	73	738	
Spartan Motors, Inc.	SPAR	3	37	371	
SpartanNash Company	SPTN	5	51	514	
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	
Spirit Realty Capital, Inc.	SRC	6	67		6798
Spok Holdings, Inc.	SPOK	4	48	481	
Sportsman's Warehouse Holdings, Inc.	SPWH	5	59		
Sprague Resources LP	SRLP	5	51	517	
Sprouts Farmers Market, Inc.	SFM	5	54	541	5411
SPS Commerce, Inc.	SPSC	7	73	737	
SPX Corporation	SPXC	3			
SS&C Technologies Holdings, Inc.	SSNC	7	73	737	7372
STAG Industrial, Inc.	STAG	6	67		6798
Stamps.com Inc.	STMP	7	73	737	
Standard Motor Products, Inc.	SMP	3			
Standex International Corporation	SXI	3			
Stanley Black & Decker, Inc.	SWK	3			
Star Group, L.P.	SGU	5	59		
Starbucks Corporation	SBUX	5	58		
Starwood Property Trust, Inc.	STWD	6	67		6798
State Auto Financial	STFC	6	63		

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

Corporation					TCF Financial Corporation	TCF	6	60	602		
State Street Corporation	STT	6	60	602	TD Ameritrade Holding Corporation	AMTD	6	62	621		
Steel Dynamics, Inc.	STLD	3	33	331	Tech Data Corporation	TECD	5	50	504	5045	
Stein Mart, Inc.	SMRT	5	56	565	TechTarget, Inc.	TTGT	7	73	737		
Stellus Capital Investment Corporation	SCM	6	67		TEGNA Inc.	TGNA	4	48	483	4833	
Stepan Company	SCL	2	28		Teledyne Technologies Incorporated	TDY	3	38			
Stericycle, Inc.	SRCL	4	49	495	Teleflex Incorporated	TFX	3	38	384	3841	
Steven Madden, Ltd.	SHOO	3	31		Telephone and Data Systems, Inc.	TDS	4	48	481		
Stewardship Financial Corporation	SSFN	6	60	602	Tempur Sealy International, Inc.	TPX	2	25	251		
Stewart Information Services Corporation	STC	6	63		Tennant Company	TNC	3	35			
Stifel Financial Corp.	SF	6	62	621	Teradata Corporation	TDC	7	73	737		
Stock Yards Bancorp, Inc.	SYBT	6	60	602	Teradyne, Inc.	TER	3	38	382	3825	
StoneCastle Financial Corp.	BANX	6	67		Terex Corporation	TEX	3	35	353		
Stoneridge, Inc.	SRI	3	36	367	Terreno Realty Corporation	TRNO	6	67		6798	
Strategic Education, Inc.	STRA	8	82		Territorial Bancorp Inc.	TBNK	6	60	603	6035	
Strattec Security Corporation	STRT	3	37	371	TESSCO Technologies Incorporated	TESS	5	50	506		
Stryker Corporation	SYK	3	38	384	Tetra Tech, Inc.	TTEK	8	87	871		
Sturm, Ruger & Company, Inc.	RGR	3	34		Texas Capital Bancshares, Inc.	TCBI	6	60	602		
Suburban Propane Partners, L.P.	SPH	5	59		Texas Instruments Incorporated	TXN	3	36	367	3674	
Summit Financial Group, Inc.	SMMF	6	60	602	Texas Pacific Land Trust	TPL	6	67			
Summit Hotel Properties, Inc.	INN	6	67		Texas Roadhouse, Inc.	TXRH	5	58			
Summit State Bank	SSBI	6	60	602	Textron Inc.	TXT	3	37			
Sun Communities, Inc.	SUI	6	67		TFS Financial Corporation	TFSL	6	60	603	6035	
SunCoke Energy, Inc.	SXC	3	33	331	The AES Corporation	AES	4	49			
Sunoco LP	SUN	5	51	517	The Allstate Corporation	ALL	6	63	633		
Sunstone Hotel Investors, Inc.	SHO	6	67		The Bancorp, Inc.	TBBK	6	60	602		
SunTrust Banks, Inc.	STI	6	60	602	The Bank of New York Mellon Corporation	BK	6	60	602		
Supernus Pharmaceuticals, Inc.	SUPN	2	28	283	The Blackstone Group Inc.	BX	6	62	628		
SVB Financial Group	SIVB	6	60	602	The Boeing Company	BA	3	37			
Sykes Enterprises, Incorporated	SYKE	7	73	737	The Boston Beer Company, Inc.	SAM	2	20	208		
Symantec Corporation	SYMC	7	73	737	The Buckle, Inc.	BKE	5	56	565		
Synalloy Corporation	SYNL	3	33	331	The Carlyle Group L.P.	CG	6	62	628		
Synaptics Incorporated	SYNA	3	36	367	The Cato Corporation	CATO	5	56			
SYNNEX Corporation	SNX	5	50	504	The Charles Schwab Corporation	SCHW	6	62	628		
Synopsys, Inc.	SNPS	7	73	737	The Cheesecake Factory Incorporated	CAKE	5	58			
Synovus Financial Corp.	SNV	6	60	602	The Chefs' Warehouse, Inc.	CHEF	5	51	514		
Sysco Corporation	SYX	5	51	514	The Children's Place, Inc.	PLCE	5	56			
Systemax Inc.	SYX	5	50		The Clorox Company	CLX	2	28	284		
T. Rowe Price Group, Inc.	TROW	6	62	628	The Coca-Cola Company	KO	2	20	208		
Take-Two Interactive Software, Inc.	TTWO	7	73	737	The Community Financial Corporation	TCFC	6	60	602		
Tandy Leather Factory, Inc.	TLF	5	59		The Cooper Companies, Inc.	COO	3	38			
Tanger Factory Outlet Centers, Inc.	SKT	6	67		The E.W. Scripps Company	SSP	4	48	483	4833	
Tapestry, Inc.	TPR	3	31		The Eastern Company	EML	3	34	342		
Target Corporation	TGT	5	53	533	The Ensign Group, Inc.	ENSG	8	80			
Taubman Centers, Inc.	TCO	6	67		The Estée Lauder Companies Inc.	EL	2	28	284		
Taylor Devices, Inc.	TAYD	3	35	356	The First Bancorp, Inc.	FNLC	6	60	602		
Taylor Morrison Home Corporation	TMHC	1	15		The First Bancshares, Inc.	FBMS	6	60	602		
TC PipeLines, LP	TCP	6	67								

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

The First of Long Island Corporation	FLIC	6	60	602				
The Gap, Inc.	GPS	5	56	565				
The GEO Group, Inc.	GEO	6	67		6798			
The Goldfield Corporation	GV	1	16					
The Goldman Sachs Group, Inc.	GS	6	62	621				
The Goodyear Tire & Rubber Company	GT	3	30					
The Gorman-Rupp Company	GRC	3	35	356				
The Greenbrier Companies, Inc.	GBX	3	37					
The Hackett Group, Inc.	HCKT	8	87	874	8742			
The Hain Celestial Group, Inc.	HAIN	2	20					
The Hanover Insurance Group, Inc.	THG	6	63	633				
The Hartford Financial Services Group, Inc.	HIG	6	63	633				
The Hershey Company	HSY	2	20					
The Home Depot, Inc.	HD	5						
The Howard Hughes Corporation	HHC	6	65					
The Interpublic Group of Companies, Inc.	IPG	7	73					
The J. M. Smucker Company	SJM	2	20	203				
The Kroger Co.	KR	5	54	541	5411			
The Middleby Corporation	MIDD	3	35					
The Mosaic Company	MOS	2	28	287				
The National Security Group, Inc.	NSEC	6	63	633				
The New York Times Company	NYT	2	27					
The PNC Financial Services Group, Inc.	PNC	6	60	602				
The Procter & Gamble Company	PG	2						
The Progressive Corporation	PGR	6	63	633				
The Providence Service Corporation	PRSC	4						
The Scotts Miracle-Gro Company	SMG	2	28	287				
The Sherwin-Williams Company	SHW	2	28					
The Southern Company	SO	4	49	491				
The Timken Company	TKR	3	35	356				
The TJX Companies, Inc.	TJX	5	56	565				
The Toro Company	TTC	3	35					
The Travelers Companies, Inc.	TRV	6	63	633				
The Wendy's Company	WEN	5	58					
The Western Union Company	WU	6	60					
The Williams Companies, Inc.	WMB	4	49	492				
The York Water Company	YORW	4	49	494				
Thermo Fisher Scientific Inc.	TMO	3	38	382	3826			
Thermon Group Holdings, Inc.	THR	3	36	369				
THL Credit, Inc.	TCRD	6	67					
Thor Industries, Inc.	THO	3	37					
Tiffany & Co.	TIF	5	59					
Tile Shop Holdings, Inc.	TTS	5	57					
Tilly's, Inc.	TLYS	5	56					
Timberland Bancorp, Inc.	TSBK	6	60	603	6036			
Tiptree Inc.	TIPT	6	63	633				
Tivity Health, Inc.	TVTY	8	80	809				
T-Mobile US, Inc.	TMUS	5	56	565				
Toll Brothers, Inc.	TOL	1	15					
Tompkins Financial Corporation	TMP	6	60	602				
Tootsie Roll Industries, Inc.	TR	2	20					
Torchmark Corporation	TMK	6	63					
Total System Services, Inc.	TSS	7	73	738				
Tower International, Inc.	TOWR	3	37	371	3711			
TowneBank	TOWN	6	60	602				
TPG Specialty Lending, Inc.	TSLX	6	67					
Tractor Supply Company	TSCO	5						
TransAct Technologies Incorporated	TACT	5	57					
Transcontinental Realty Investors, Inc.	TCI	6	65	651				
TravelCenters of America LLC	TA	5	55					
Travelzoo	TZOO	7	73	737				
Trecora Resources	TREC	2	29	291				
Tredegar Corporation	TG	3						
Trex Company, Inc.	TREX	2	24					
Tribune Media Company	TRCO	4	48	483	4833			
TriCo Bancshares	TCBK	6	60	602				
TriMas Corporation	TRS	3						
Trimble Inc.	TRMB	3	38	382				
TriNet Group, Inc.	TNET	7	73	737	7374			
Trinity Industries, Inc.	TRN	3						
TripAdvisor, Inc.	TRIP	7	73	737				
TriplePoint Venture Growth BDC Corp.	TPVG	6	67					
TriState Capital Holdings, Inc.	TSC	6	60	602				
TrueBlue, Inc.	TBI	7	73	736	7363			
TrustCo Bank Corp NY	TRST	6	60	603	6035			
Trustmark Corporation	TRMK	6	60	602				
TSR, Inc.	TSRI	7	73	737				
TTEC Holdings, Inc.	TTEC	7	73	738				
TTM Technologies, Inc.	TTMI	3	36	367	3672			
Tupperware Brands Corporation	TUP	3	30	308				
Tutor Perini Corporation	TPC	1						
Two River Bancorp	TRCB	6	60	602				
Tyler Technologies, Inc.	TYL	7	73	737	7373			
Tyson Foods, Inc.	TSN	2	20	201				
U.S. Bancorp	USB	6	60	602				
U.S. Concrete, Inc.	USCR	3	32					
U.S. Physical Therapy, Inc.	USPH	8	80					
U.S. Silica Holdings, Inc.	SLCA	1	14					
Ubiquiti Networks, Inc.	UBNT	3	36	366	3663			
UDR, Inc.	UDR	6	67		6798			
UFP Technologies, Inc.	UFPT	3	30	308				
UGI Corporation	UGI	4	49	493				
Ulta Beauty, Inc.	ULTA	5	59					
Ultra Clean Holdings, Inc.	UCTT	3	36	367	3674			

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

Ultralife Corporation	ULBI	3	36	369					
UMB Financial Corporation	UMBF	6	60	602					
Umpqua Holdings Corporation	UMPQ	6	60	602					
Under Armour, Inc.	UAA	2	23						
Unifi, Inc.	UFI	2							
UniFirst Corporation	UNF	2	23						
Union Bankshares, Inc.	UNB	6	60	602					
Union Pacific Corporation	UNP	4	40						
United Airlines Holdings, Inc.	UAL	4	45	451					
United Bancorp, Inc.	UBCP	6	60	602					
United Bancshares, Inc.	UBOH	6	60	602					
United Bankshares, Inc.	UBSI	6	60	602					
United Community Banks, Inc.	UCBI	6	60	602					
United Community Financial Corp.	UCFC	6	60	603	6036				
United Financial Bancorp, Inc.	UBNK	6	60	603	6036				
United Fire Group, Inc.	UFCS	6	63	633					
United Insurance Holdings Corp.	UIHC	6	63	633					
United Natural Foods, Inc.	UNFI	5	51	514					
United Parcel Service, Inc.	UPS	4	42						
United Rentals, Inc.	URI	7	73	735					
United Security Bancshares	UBFO	6	60	602					
United States Cellular Corporation	USM	4	48	481					
United States Lime & Minerals, Inc.	USLM	1	14						
United Technologies Corporation	UTX	3							
United Therapeutics Corporation	UTHR	2	28	283	2834				
United-Guardian, Inc.	UG	2	28	283	2834				
UnitedHealth Group Incorporated	UNH	6	63	632	6324				
Unitil Corporation	UTL	4	49						
Unity Bancorp, Inc.	UNTY	6	60	602					
Universal Corporation	UVV	5	51						
Universal Display Corporation	OLED	3	36	367	3674				
Universal Electronics Inc.	UEIC	3	36						
Universal Forest Products, Inc.	UFPI	2	24						
Universal Health Realty Income Trust	UHT	6	67		6798				
Universal Health Services, Inc.	UHS	8	80						
Universal Insurance Holdings, Inc.	UVE	6	63	633					
Universal Logistics Holdings, Inc.	ULH	4							
Univest Financial Corporation	UVSP	6	60	602					
Unum Group	UNM	6	63	632					
Urban Outfitters, Inc.	URBN	5	56	565					
Urstadt Biddle Properties Inc.	UBA	6	67		6798				
US Ecology, Inc.	ECOL	4	49	495					
USA Technologies, Inc.	USAT	3	35	357					
USA Truck, Inc.	USAK	4							
USANA Health Sciences,	USNA	2	28	283	2834				
Inc.									
Utah Medical Products, Inc.	UTMD	3	38	384	3845				
Vail Resorts, Inc.	MTN	7	79	799					
Valero Energy Corporation	VLO	2	29	291					
Valhi, Inc.	VHI	2	28	281					
Valley National Bancorp	VLY	6	60	602					
Valmont Industries, Inc.	VMI	3							
Value Line, Inc.	VALU	2	27						
Varian Medical Systems, Inc.	VAR	3	38	384	3845				
Veeva Systems Inc.	VEEV	7	73	737					
Ventas, Inc.	VTR	6	67		6798				
Vera Bradley, Inc.	VRA	3	31						
Verint Systems Inc.	VRNT	7	73	737					
Verisk Analytics, Inc.	VRSK	6	64						
Verizon Communications Inc.	VZ	4	48	481					
Vertex Pharmaceuticals Incorporated	VRTX	2	28	283	2834				
Viacom Inc.	VIAB	4	48	483	4833				
Viad Corp	VVI	7	73	738					
Vicor Corporation	VICR	3	36	367					
Village Bank and Trust Financial Corp.	VBFC	6	60	602					
Village Super Market, Inc.	VLGEA	5	54	541	5411				
Viper Energy Partners LP	VNOM	6	67						
Virco Mfg. Corporation	VIRC	2	25						
VirTra, Inc.	VTSI	3	36	369					
Virtus Investment Partners, Inc.	VRTS	6	62	628					
Virtusa Corporation	VRTU	7	73	737					
Visa Inc.	V	6	60						
Vishay Intertechnology, Inc.	VSH	3	36	367					
Vishay Precision Group, Inc.	VPG	3	36	367					
Visteon Corporation	VC	3	37	371	3714				
VOC Energy Trust	VOC	1	13	131					
Vonage Holdings Corp.	VG	4	48						
Vornado Realty Trust	VNO	6	67		6798				
Voya Financial, Inc.	VOYA	6	63						
W. P. Carey Inc.	WPC	6	67		6798				
W. R. Berkley Corporation	WRB	6	63	633					
W. R. Grace & Co.	GRA	2	28	281					
W.W. Grainger, Inc.	GWW	5	50						
Wabash National Corporation	WNC	3	37	371					
WABCO Holdings Inc.	WBC	3	37	371	3714				
Wabtec Corporation	WAB	3	37						
Waddell & Reed Financial, Inc.	WDR	6	62	628					
WageWorks, Inc.	WAGE	6	64						
Walgreens Boots Alliance, Inc.	WBA	5	59						
Walker & Dunlop, Inc.	WD	6	61	616	6162				
Walmart Inc.	WMT	5	53	533					
Washington Federal, Inc.	WAFD	6	60	602					
Washington Real Estate Investment Trust	WRE	6	67		6798				
Washington Trust Bancorp, Inc.	WASH	6	60	602					
Waste Management, Inc.	WM	4	49	495					

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

Waters Corporation	WAT	3	38	382	3826				
Waterstone Financial, Inc.	WSBF	6	60	603	6035				
Watsco, Inc.	WSO	5	50						
Watts Water Technologies, Inc.	WTS	3	34	349					
Wayside Technology Group, Inc.	WSTG	5	50	504	5045				
WD-40 Company	WDFC	2	28	289					
Webster Financial Corporation	WBS	6	60	602					
WEC Energy Group, Inc.	WEC	4	49	493	4931				
Weingarten Realty Investors	WRI	6	67		6798				
Weis Markets, Inc.	WMK	5	54	541	5411				
WellCare Health Plans, Inc.	WCG	6	63	632	6324				
Wellesley Bancorp, Inc.	WEBK	6	60	602					
Wells Fargo & Company	WFC	6	60	602					
Welltower Inc.	WELL	6	67		6798				
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					
Western Alliance Bancorporation	WAL	6	60	602					
Western Digital Corporation	WDC	3	35	357					
Western Midstream Partners, LP	WES	4	49	492					
Western New England Bancorp, Inc.	WNEB	6	60	603	6035				
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-Sonoma, Inc.	WSM	5							
Willis Lease Finance Corporation	WLFC	7	73	735					
Winmark Corporation	WINA	6	67		6794				
Winnebago Industries, Inc.	WGO	3	37						
Wintrust Financial Corporation	WTFC	6	60	602					
WisdomTree Investments, Inc.	WETF	6	62	628					
Wolverine World Wide, Inc.	WWW	3	31						
Woodward, Inc.	WWD	3	36	362					
World Acceptance Corporation	WRLD	6	61	614					
World Fuel Services Corporation	INT	5	51	517					
Worldpay, Inc.	WP	7	73	737	7374				
Worthington Industries, Inc.	WOR	3							
WSFS Financial Corporation	WSFS	6	60	603	6035				
WVS Financial Corp.	WVFC	6	60	603	6036				
Wyndham Destinations, Inc.	WYND	6	65	653					
Wynn Resorts, Limited	WYNN	7	79	799					
Xcel Energy Inc.	XEL	4	49	493	4931				
Xerox Corporation	XRX	3	35	357	3577				
Xilinx, Inc.	XLNX	3	36	367	3674				
XPO Logistics, Inc.	XPO	4	47	473					
Xylem Inc.	XYL	3							
Yelp Inc.	YELP	7	73	737					
YUM! Brands, Inc.	YUM	5	58						
ZAGG Inc	ZAGG	3	32						
Zebra Technologies Corporation	ZBRA	3	35	357	3577				
Zimmer Biomet Holdings, Inc.	ZBH	3	38	384	3842				
Zions Bancorporation, National Association	ZION	6	60	602					
Zix Corporation	ZIXI	7	73	737					
Zoetis Inc.	ZTS	2	28	283	2834				
Zumiez Inc.	ZUMZ	5	56	565					
Zynex, Inc.	ZYXI	3	38	384	3845				

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

In Appendix C a list of companies in the "high-financial-risk" set of companies for each SIC code is presented.

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

**SIC 1**

---

Abraxas Petroleum Corporation  
 Anadarko Petroleum Corporation  
 Approach Resources, Inc.  
 Carrizo Oil & Gas, Inc.  
 Cheniere Energy, Inc.  
 CNX Resources Corporation  
 CSI Compressco LP  
 Enservco Corporation  
 Foresight Energy LP  
 Freeport-McMoRan Inc.  
 Gran Tierra Energy Inc.  
 Great Lakes Dredge & Dock Corporation  
 Gulfport Energy Corporation  
 Hecla Mining Company  
 Hess Corporation  
 HighPoint Resources Corporation  
 Hovnanian Enterprises, Inc.  
 ION Geophysical Corporation  
 Isramco, Inc.  
 KBR, Inc.  
 Kosmos Energy Ltd.  
 Matador Resources Company  
 Mid-Con Energy Partners, LP  
 Noble Energy, Inc.  
 Northern Oil and Gas, Inc.  
 Orion Group Holdings, Inc.  
 Pioneer Energy Services Corp.  
 QEP Resources, Inc.  
 Range Resources Corporation  
 S&W Seed Company  
 SAEExploration Holdings, Inc.  
 SM Energy Company  
 Summit Midstream Partners, LP  
 Superior Energy Services, Inc.  
 TETRA Technologies, Inc.  
 The New Home Company Inc.  
 W&T Offshore, Inc.  
 Whiting Petroleum Corporation  
 WPX Energy, Inc.

**SIC 13**

---

Abraxas Petroleum Corporation  
 Anadarko Petroleum Corporation  
 Approach Resources, Inc.  
 Carrizo Oil & Gas, Inc.  
 Cheniere Energy, Inc.

CNX Resources Corporation  
 CSI Compressco LP  
 Enservco Corporation  
 Gran Tierra Energy Inc.  
 Gulfport Energy Corporation  
 Hess Corporation  
 HighPoint Resources Corporation  
 ION Geophysical Corporation  
 Isramco, Inc.  
 Kosmos Energy Ltd.  
 Matador Resources Company  
 Mid-Con Energy Partners, LP  
 Noble Energy, Inc.  
 Northern Oil and Gas, Inc.  
 Pioneer Energy Services Corp.  
 QEP Resources, Inc.  
 Range Resources Corporation  
 SAEExploration Holdings, Inc.  
 SM Energy Company  
 Summit Midstream Partners, LP  
 Superior Energy Services, Inc.  
 TETRA Technologies, Inc.  
 W&T Offshore, Inc.  
 Whiting Petroleum Corporation  
 WPX Energy, Inc.

**SIC 131**

---

Abraxas Petroleum Corporation  
 Anadarko Petroleum Corporation  
 Approach Resources, Inc.  
 Carrizo Oil & Gas, Inc.  
 Cheniere Energy, Inc.  
 CNX Resources Corporation  
 Gran Tierra Energy Inc.  
 Gulfport Energy Corporation  
 Hess Corporation  
 HighPoint Resources Corporation  
 Kosmos Energy Ltd.  
 Matador Resources Company  
 Mid-Con Energy Partners, LP  
 Noble Energy, Inc.  
 Northern Oil and Gas, Inc.  
 QEP Resources, Inc.  
 Range Resources Corporation  
 SM Energy Company  
 Summit Midstream

Partners, LP  
 W&T Offshore, Inc.  
 Whiting Petroleum Corporation  
 WPX Energy, Inc.

**SIC 2**

---

Acorda Therapeutics, Inc.  
 Aemetis, Inc.  
 Akorn, Inc.  
 AMAG Pharmaceuticals, Inc.  
 Assertio Therapeutics, Inc.  
 Calumet Specialty Products Partners, L.P.  
 Castle Brands Inc.  
 China XD Plastics Company Limited  
 Coty Inc.  
 Cumberland Pharmaceuticals Inc.  
 CVR Partners, LP  
 Cyanotech Corporation  
 Element Solutions Inc  
 Flotek Industries, Inc.  
 Future FinTech Group Inc.  
 Houghton Mifflin Harcourt Company  
 ImmuCell Corporation  
 Insys Therapeutics Inc.  
 Koppers Holdings Inc.  
 LSB Industries, Inc.  
 News Corporation  
 OMNOVA Solutions Inc.  
 Pacific Ethanol, Inc.  
 Post Holdings, Inc.  
 Primo Water Corporation  
 Quad/Graphics, Inc.  
 R.R. Donnelley & Sons Company  
 Reliv' International, Inc.  
 Resolute Forest Products Inc.  
 Revlon, Inc.  
 The Dixie Group, Inc.  
 The McClatchy Company  
 TreeHouse Foods, Inc.  
 Youngevity International, Inc.

**SIC 27**

---

Houghton Mifflin Harcourt Company  
 News Corporation  
 Quad/Graphics, Inc.  
 R.R. Donnelley & Sons Company  
 The McClatchy Company

**SIC 28**

---

Acorda Therapeutics, Inc.  
 Aemetis, Inc.

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

Akorn, Inc.  
AMAG Pharmaceuticals, Inc.  
Assertio Therapeutics, Inc.  
China XD Plastics Company Limited  
Coty Inc.  
Cumberland Pharmaceuticals Inc.  
CVR Partners, LP  
Cyanotech Corporation  
Element Solutions Inc  
Flotek Industries, Inc.  
ImmuCell Corporation  
Insys Therapeutics Inc.  
LSB Industries, Inc.  
OMNOVA Solutions Inc.  
Pacific Ethanol, Inc.  
Reliv' International, Inc.  
Revlon, Inc.  
Youngevity International, Inc.

### SIC 283

---

Acorda Therapeutics, Inc.  
Akorn, Inc.  
AMAG Pharmaceuticals, Inc.  
Assertio Therapeutics, Inc.  
Cumberland Pharmaceuticals Inc.  
Cyanotech Corporation  
ImmuCell Corporation  
Insys Therapeutics Inc.  
Reliv' International, Inc.  
Youngevity International, Inc.

### SIC 2834

---

Akorn, Inc.  
AMAG Pharmaceuticals, Inc.  
Assertio Therapeutics, Inc.  
Cumberland Pharmaceuticals Inc.  
Insys Therapeutics Inc.  
Reliv' International, Inc.  
Youngevity International, Inc.

### SIC 3

---

3D Systems Corporation  
Accuray Incorporated  
AK Steel Holding Corporation  
Allegheny Technologies Incorporated  
Alphatec Holdings, Inc.  
Ampco-Pittsburgh Corporation  
Amtech Systems, Inc.  
ARC Group Worldwide, Inc.

Art's-Way Manufacturing Co., Inc.  
Avid Technology, Inc.  
Bel Fuse Inc.  
Broadwind Energy, Inc.  
CECO Environmental Corp.  
Century Aluminum Company  
Chart Industries, Inc.  
China Recycling Energy Corporation  
CPS Technologies Corporation  
CTI Industries Corporation  
Eastman Kodak Company  
Extreme Networks, Inc.  
Forum Energy Technologies, Inc.  
FreightCar America, Inc.  
Harmonic Inc.  
Harvard Bioscience, Inc.  
IEC Electronics Corp.  
Infinera Corporation  
Inphi Corporation  
Invacare Corporation  
Itron, Inc.  
JAKKS Pacific, Inc.  
Kennametal Inc.  
Kingold Jewelry, Inc.  
Lantronix, Inc.  
Libbey Inc.  
LSI Industries Inc.  
MACOM Technology Solutions Holdings, Inc.  
MagnaChip Semiconductor Corporation  
Manitex International, Inc.  
Mattel, Inc.  
Micron Solutions, Inc.  
National Oilwell Varco, Inc.  
Navistar International Corporation  
NeoPhotonics Corporation  
Newell Brands Inc.  
NF Energy Saving Corporation  
NL Industries, Inc.  
NN, Inc.  
Nortech Systems Incorporated  
PDC Energy, Inc.  
Perception, Inc.  
Perma-Pipe International Holdings, Inc.  
Pioneer Power Solutions, Inc.  
Pitney Bowes Inc.  
Revolution Lighting Technologies, Inc.  
RTI Surgical Holdings, Inc.  
SIFCO Industries, Inc.  
SigmaTron International, Inc.

SMTC Corporation  
Spectrum Brands Holdings, Inc.  
Summer Infant, Inc.  
Superior Drilling Products, Inc.  
Superior Industries International, Inc.  
Tenneco Inc.  
Tesla, Inc.  
The L.S. Starrett Company  
The Manitowoc Company, Inc.  
TimkenSteel Corporation  
Titan International, Inc.  
TransDigm Group Incorporated  
Triumph Group, Inc.  
United States Steel Corporation  
Universal Stainless & Alloy Products, Inc.  
Veeco Instruments Inc.  
Viavi Solutions Inc.

### SIC 33

---

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

### SIC 34

---

Ampco-Pittsburgh Corporation  
ARC Group Worldwide, Inc.  
NF Energy Saving Corporation  
Perma-Pipe International Holdings, Inc.  
The L.S. Starrett Company

### SIC 35

---

3D Systems Corporation  
Amtech Systems, Inc.  
Art's-Way Manufacturing Co., Inc.  
Broadwind Energy, Inc.  
CECO Environmental Corp.  
Extreme Networks, Inc.  
Forum Energy Technologies, Inc.  
Infinera Corporation  
Kennametal Inc.  
Lantronix, Inc.  
Manitex International, Inc.  
National Oilwell Varco, Inc.  
NL Industries, Inc.

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

Pitney Bowes Inc.  
 Superior Drilling Products, Inc.  
 The Manitowoc Company, Inc.  
 Veeco Instruments Inc.  
 Viavi Solutions Inc.

**SIC 353**

Forum Energy Technologies, Inc.  
 Manitex International, Inc.  
 National Oilwell Varco, Inc.  
 Superior Drilling Products, Inc.  
 The Manitowoc Company, Inc.

**SIC 357**

Extreme Networks, Inc.  
 Infinera Corporation  
 Lantronix, Inc.  
 Pitney Bowes Inc.  
 Viavi Solutions Inc.

**SIC 36**

Bel Fuse Inc.  
 China Recycling Energy Corporation  
 Harmonic Inc.  
 IEC Electronics Corp.  
 Inphi Corporation  
 LSI Industries Inc.  
 MACOM Technology Solutions Holdings, Inc.  
 MagnaChip Semiconductor Corporation  
 NeoPhotonics Corporation  
 Nortech Systems Incorporated  
 PDC Energy, Inc.  
 Pioneer Power Solutions, Inc.  
 Revolution Lighting Technologies, Inc.  
 SigmaTron International, Inc.  
 SMTC Corporation

**SIC 367**

Bel Fuse Inc.  
 IEC Electronics Corp.  
 Inphi Corporation  
 MACOM Technology Solutions Holdings, Inc.  
 MagnaChip Semiconductor Corporation  
 NeoPhotonics Corporation  
 Nortech Systems Incorporated  
 SigmaTron International, Inc.  
 SMTC Corporation

**SIC 37**

FreightCar America, Inc.  
 Navistar International Corporation  
 SIFCO Industries, Inc.  
 Superior Industries International, Inc.  
 Tenneco Inc.  
 Tesla, Inc.  
 TransDigm Group Incorporated  
 Triumph Group, Inc.

**SIC 38**

Accuray Incorporated  
 Alphatec Holdings, Inc.  
 Avid Technology, Inc.  
 Harvard Bioscience, Inc.  
 Invacare Corporation  
 Itron, Inc.  
 Micron Solutions, Inc.  
 Perceptron, Inc.  
 RTI Surgical Holdings, Inc.

**SIC 384**

Accuray Incorporated  
 Alphatec Holdings, Inc.  
 Invacare Corporation  
 Micron Solutions, Inc.  
 RTI Surgical Holdings, Inc.

**SIC 4**

A.H. Belo Corporation  
 AAC Holdings, Inc.  
 Appliance Recycling Centers of America, Inc.  
 Boingo Wireless, Inc.  
 Casella Waste Systems, Inc.  
 Consolidated Communications Holdings, Inc.  
 EnLink Midstream, LLC  
 Entercom Communications Corp.  
 EQT Corporation  
 FirstEnergy Corp.  
 Frontier Communications Corporation  
 GCI Liberty Inc.  
 Globalstar, Inc.  
 Gogo Inc.  
 GTT Communications, Inc.  
 Hornbeck Offshore Services, Inc.  
 Hudson Technologies Inc.  
 KVH Industries, Inc.  
 NRG Energy, Inc.  
 ORBCOMM Inc.  
 Perma-Fix Environmental Services, Inc.  
 PG&E Corporation

Roadrunner Transportation Systems, Inc.  
 Sprint Corporation  
 Targa Resources Corp.  
 Urban One Inc.  
 YRC Worldwide Inc.

**SIC 48**

A.H. Belo Corporation  
 AAC Holdings, Inc.  
 Boingo Wireless, Inc.  
 Consolidated Communications Holdings, Inc.  
 Entercom Communications Corp.  
 Frontier Communications Corporation  
 GCI Liberty Inc.  
 Globalstar, Inc.  
 Gogo Inc.  
 GTT Communications, Inc.  
 KVH Industries, Inc.  
 ORBCOMM Inc.  
 Sprint Corporation  
 Urban One Inc.

**SIC 49**

Appliance Recycling Centers of America, Inc.  
 Casella Waste Systems, Inc.  
 EnLink Midstream, LLC  
 EQT Corporation  
 FirstEnergy Corp.  
 Hudson Technologies Inc.  
 NRG Energy, Inc.  
 Perma-Fix Environmental Services, Inc.  
 PG&E Corporation  
 Targa Resources Corp.

**SIC 5**

Ascena Retail Group, Inc.  
 AutoZone, Inc.  
 Barnes & Noble, Inc.  
 Clean Energy Fuels Corp.  
 Del Frisco's Restaurant Group, Inc.  
 Destination XL Group, Inc.  
 DGSE Companies, Inc.  
 Diversified Restaurant Holdings, Inc.  
 Domino's Pizza, Inc.  
 Good Times Restaurants Inc.  
 iMedia Brands, Inc.  
 J. C. Penney Company, Inc.  
 Liquidity Services, Inc.  
 Luby's, Inc.  
 MRC Global Inc.  
 Noodles & Company

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

Owens & Minor, Inc.  
Premier, Inc.  
Pyxus International, Inc.  
RTW Retailwinds, Inc.  
Stage Stores, Inc.  
Tailored Brands, Inc.  
The Michaels Companies, Inc.  
The ONE Group Hospitality, Inc.  
Tuesday Morning Corporation  
U.S. Auto Parts Network, Inc.

### SIC 56

Ascena Retail Group, Inc.  
Destination XL Group, Inc.  
RTW Retailwinds, Inc.  
Stage Stores, Inc.  
Tailored Brands, Inc.

### SIC 58

Del Frisco's Restaurant Group, Inc.  
Diversified Restaurant Holdings, Inc.  
Domino's Pizza, Inc.  
Good Times Restaurants Inc.  
Luby's, Inc.  
Noodles & Company  
The ONE Group Hospitality, Inc.

### SIC 59

Barnes & Noble, Inc.  
DGSE Companies, Inc.  
iMedia Brands, Inc.  
Liquidity Services, Inc.  
The Michaels Companies, Inc.  
U.S. Auto Parts Network, Inc.

### SIC 6

AG Mortgage Investment Trust, Inc.  
AGNC Investment Corp.  
Altisource Asset Management Corporation  
Ambac Financial Group, Inc.  
American Homes 4 Rent  
Apex Global Brands Inc.  
Arlington Asset Investment Corp.  
ARMOUR Residential REIT, Inc.  
Ashford Hospitality Trust, Inc.  
Barings BDC, Inc.  
Bioanalytical Systems, Inc.

Bluerock Residential Growth REIT, Inc.  
Brookfield DTLA Office TR INV  
Capitala Finance Corp.  
Capstead Mortgage Corporation  
Carver Bancorp, Inc.  
CBL & Associates Properties, Inc.  
Cedar Realty Trust, Inc.  
Cherry Hill Mortgage Investment Corporation  
Chimera Investment Corporation  
Citizens, Inc.  
Colony Capital, Inc.  
Condor Hospitality Trust, Inc.  
Consumer Portfolio Services, Inc.  
CyrusOne Inc.  
Dine Brands Global, Inc.  
Dynex Capital, Inc.  
Ellington Financial Inc.  
Ellington Residential Mortgage REIT  
Envestnet, Inc.  
Exantas Capital Corp.  
Genworth Financial, Inc.  
Gladstone Commercial Corporation  
Hunt Companies Finance Trust, Inc.  
Iconix Brand Group, Inc.  
InnSuites Hospitality Trust  
INTL FCStone Inc.  
iStar Inc.  
JMP Group LLC  
Kite Realty Group Trust  
Ladenburg Thalmann Financial Services Inc.  
Limestone Bancorp, Inc.  
MBIA Inc.  
Medley Capital Corporation  
MidSouth Bancorp, Inc.  
MoneyGram International, Inc.  
MVC Capital, Inc.  
Navient Corporation  
New England Realty Associates Limited Partnership  
New York Mortgage Trust, Inc.  
Och-Ziff Capital Management Group Inc.  
Office Properties Income Trust  
Orchid Island Capital, Inc.  
Pennsylvania Real Estate Investment Trust

PennyMac Mortgage Investment Trust  
Portman Ridge Finance Corporation  
Power REIT  
Preferred Apartment Communities, Inc.  
Redwood Trust, Inc.  
Regional Health Properties, Inc.  
SBA Communications Corporation  
Sequential Brands Group, Inc.  
SITE Centers Corp.  
Sotherly Hotels Inc.  
StoneMor Partners L.P.  
Two Harbors Investment Corp.  
UMH Properties, Inc.  
Usio, Inc.  
VEREIT, Inc.  
Washington Prime Group Inc.  
Western Asset Mortgage Capital Corporation

### SIC 60

Carver Bancorp, Inc.  
Limestone Bancorp, Inc.  
MidSouth Bancorp, Inc.  
MoneyGram International, Inc.  
Usio, Inc.

### SIC 62

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

### SIC 67

AG Mortgage Investment Trust, Inc.  
AGNC Investment Corp.  
American Homes 4 Rent  
Apex Global Brands Inc.  
Arlington Asset Investment Corp.  
ARMOUR Residential REIT, Inc.  
Ashford Hospitality Trust, Inc.  
Barings BDC, Inc.  
Bioanalytical Systems, Inc.  
Bluerock Residential Growth REIT, Inc.  
Brookfield DTLA Office TR INV

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

Capitala Finance Corp.	<b>SIC 6798</b>	Western Asset Mortgage Capital Corporation
Capstead Mortgage Corporation	AG Mortgage Investment Trust, Inc.	
CBL & Associates Properties, Inc	AGNC Investment Corp.	<b>SIC 7</b>
Cedar Realty Trust, Inc.	American Homes 4 Rent ARMOUR Residential REIT, Inc.	AeroCentury Corp.
Cherry Hill Mortgage Investment Corporation	Ashford Hospitality Trust, Inc.	Allscripts Healthcare Solutions, Inc.
Chimera Investment Corporation	Bioanalytical Systems, Inc.	AMC Entertainment Holdings, Inc.
Colony Capital, Inc.	Bluerock Residential Growth REIT, Inc.	Asure Software, Inc.
Condor Hospitality Trust, Inc.	Brookfield DTLA Office TR INV	AutoWeb, Inc.
CyrusOne Inc.	Capstead Mortgage Corporation	Avis Budget Group, Inc.
Dine Brands Global, Inc.	CBL & Associates Properties, Inc	Bottomline Technologies (de), Inc.
Dynex Capital, Inc.	Cedar Realty Trust, Inc.	Caesars Entertainment Corporation
Ellington Residential Mortgage REIT	Cherry Hill Mortgage Investment Corporation	Carbonite, Inc.
Exantas Capital Corp.	Chimera Investment Corporation	Cinedigm Corp.
Gladstone Commercial Corporation	Colony Capital, Inc.	Clear Channel Outdoor Holdings, Inc.
Hunt Companies Finance Trust, Inc.	Condor Hospitality Trust, Inc.	Commvault Systems, Inc.
Iconix Brand Group, Inc.	CyrusOne Inc.	Endurance International Group Holdings, Inc.
InnSuites Hospitality Trust	Dynex Capital, Inc.	Full House Resorts, Inc.
iStar Inc.	Ellington Residential Mortgage REIT	GEE Group, Inc.
Kite Realty Group Trust	Exantas Capital Corp.	General Finance Corporation
Medley Capital Corporation	Gladstone Commercial Corporation	Glowpoint, Inc.
MVC Capital, Inc.	Hunt Companies Finance Trust, Inc.	Golden Entertainment, Inc.
New York Mortgage Trust, Inc.	InnSuites Hospitality Trust	Groupon, Inc.
Office Properties Income Trust	iStar Inc.	GSE Systems, Inc.
Orchid Island Capital, Inc.	Kite Realty Group Trust	Hertz Global Holdings, Inc.
Pennsylvania Real Estate Investment Trust	New York Mortgage Trust, Inc.	InnerWorkings, Inc.
PennyMac Mortgage Investment Trust	Office Properties Income Trust	Internap Corporation
Portman Ridge Finance Corporation	Orchid Island Capital, Inc.	Inuvo, Inc.
Power REIT	Pennsylvania Real Estate Investment Trust	Kratos Defense & Security Solutions, Inc.
Preferred Apartment Communities, Inc.	PennyMac Mortgage Investment Trust	Limelight Networks, Inc.
Redwood Trust, Inc.	Power REIT	Live Nation Entertainment, Inc.
Regional Health Properties, Inc.	Preferred Apartment Communities, Inc.	LivePerson, Inc.
SBA Communications Corporation	Redwood Trust, Inc.	National CineMedia, Inc.
Sequential Brands Group, Inc.	Regional Health Properties, Inc.	NetSol Technologies, Inc.
SITE Centers Corp.	SBA Communications Corporation	Nuance Communications, Inc.
Sotherly Hotels Inc.	SITE Centers Corp.	Oaktree Specialty Lending Corporation
Two Harbors Investment Corp.	Sotherly Hotels Inc.	Paylocity Holding Corporation
UMH Properties, Inc.	Two Harbors Investment Corp.	Penn National Gaming, Inc.
VEREIT, Inc.	UMH Properties, Inc.	Performant Financial Corporation
Washington Prime Group Inc.	VEREIT, Inc.	PFSweb, Inc.
Western Asset Mortgage Capital Corporation	Washington Prime Group Inc.	Rent-A-Center, Inc.
		Ribbon Communications Inc.
		SeaWorld Entertainment, Inc.
		Steel Connect, Inc.
		Synacor, Inc.
		Synchronoss Technologies, Inc.
		The Brink's Company

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

The InterGroup Corporation  
 The Meet Group, Inc.  
 The Rubicon Project, Inc.  
 TheStreet, Inc.  
 Town Sports International Holdings, Inc.  
 Unisys Corporation  
 VeriSign, Inc.

**SIC 737**

Allscripts Healthcare Solutions, Inc.  
 Asure Software, Inc.  
 AutoWeb, Inc.  
 Bottomline Technologies (de), Inc.  
 Carbonite, Inc.  
 Commvault Systems, Inc.  
 Endurance International Group Holdings, Inc.  
 Glowpoint, Inc.  
 Groupon, Inc.  
 Internap Corporation  
 Inuvo, Inc.  
 Kratos Defense & Security Solutions, Inc.  
 Limelight Networks, Inc.  
 LivePerson, Inc.  
 NetSol Technologies, Inc.  
 Nuance Communications, Inc.  
 Oaktree Specialty Lending Corporation  
 Paylocity Holding Corporation  
 PFSweb, Inc.  
 Ribbon Communications Inc.  
 Steel Connect, Inc.  
 Synacor, Inc.  
 Synchronoss Technologies, Inc.  
 The Meet Group, Inc.  
 The Rubicon Project, Inc.  
 TheStreet, Inc.  
 Unisys Corporation  
 VeriSign, Inc.

**SIC 8**

BioScrip, Inc.  
 Brookdale Senior Living Inc.  
 Capital Senior Living Corporation  
 Community Health Systems, Inc.  
 Digirad Corporation  
 Diversicare Healthcare Services, Inc.  
 ENGGlobal Corporation  
 Five Star Senior Living Inc.  
 Hanger, Inc.  
 HCA Healthcare, Inc.  
 Hill International, Inc.  
 InfuSystem Holdings Inc.  
 Lincoln Educational Services Corporation  
 NeoGenomics, Inc.  
 R1 RCM Inc.  
 Tenet Healthcare Corporation  
 Universal Technical Institute, Inc.

**SIC 73**

AeroCentury Corp.  
 Allscripts Healthcare Solutions, Inc.  
 Asure Software, Inc.  
 AutoWeb, Inc.  
 Bottomline Technologies (de), Inc.  
 Carbonite, Inc.  
 Clear Channel Outdoor Holdings, Inc.  
 Commvault Systems, Inc.  
 Endurance International Group Holdings, Inc.  
 GEE Group, Inc.  
 General Finance Corporation  
 Glowpoint, Inc.  
 Groupon, Inc.  
 GSE Systems, Inc.  
 InnerWorkings, Inc.  
 Internap Corporation  
 Inuvo, Inc.  
 Kratos Defense & Security Solutions, Inc.  
 Limelight Networks, Inc.  
 LivePerson, Inc.  
 National CineMedia, Inc.  
 NetSol Technologies, Inc.  
 Nuance Communications, Inc.  
 Oaktree Specialty Lending Corporation  
 Paylocity Holding Corporation  
 Performant Financial Corporation  
 PFSweb, Inc.  
 Rent-A-Center, Inc.  
 Ribbon Communications Inc.  
 Steel Connect, Inc.  
 Synacor, Inc.  
 Synchronoss Technologies, Inc.  
 The Brink's Company  
 The Meet Group, Inc.  
 The Rubicon Project, Inc.  
 TheStreet, Inc.  
 Unisys Corporation  
 VeriSign, Inc.

**SIC 80**

BioScrip, Inc.  
 Brookdale Senior Living Inc.  
 Community Health Systems, Inc.  
 Digirad Corporation  
 Diversicare Healthcare Services, Inc.  
 Five Star Senior Living Inc.  
 Hanger, Inc.  
 HCA Healthcare, Inc.  
 InfuSystem Holdings Inc.  
 NeoGenomics, Inc.  
 Tenet Healthcare Corporation

**SIC 79**

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

**SIC 799**

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

## 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 *2019 Valuation Handbook – U.S. Industry Cost of Capital* (data through June 2019).

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

3D Systems Corporation	DDD	3	35						
A.H. Belo Corporation	AHC	4	48						
AAC Holdings, Inc.	AAC	4	48						
Abraxas Petroleum Corporation	AXAS	1	13	131					
Accuray Incorporated	ARRAY	3	38	384					
Acorda Therapeutics, Inc.	ACOR	2	28	283					
Aemetis, Inc.	AMTX	2	28						
AeroCentury Corp.	ACY	7	73						
AG Mortgage Investment Trust, Inc.	MITT	6	67	6798					
AGNC Investment Corp.	AGNC	6	67	6798					
AK Steel Holding Corporation	AKS	3	33						
Akorn, Inc.	AKRX	2	28	283	2834				
Allegheny Technologies Incorporated	ATI	3	33						
Allscripts Healthcare Solutions, Inc.	MDRX	7	73	737					
Alphatec Holdings, Inc.	ATEC	3	38	384					
Altisource Asset Management Corporation	AAMC	6							
AMAG Pharmaceuticals, Inc.	AMAG	2	28	283	2834				
Ambac Financial Group, Inc.	AMBC	6							
AMC Entertainment Holdings, Inc.	AMC	7							
American Homes 4 Rent	AMH	6	67	6798					
Ampco-Pittsburgh Corporation	AP	3	34						
Amtech Systems, Inc.	ASYS	3	35						
Anadarko Petroleum Corporation	APC	1	13	131					
Apex Global Brands Inc.	APEX	6	67						
Appliance Recycling Centers of America, Inc.	ARCI	4	49						
Approach Resources, Inc.	AREX	1	13	131					
ARC Group Worldwide, Inc.	ARCW	3	34						
Arlington Asset Investment Corp.	AI	6	67						
ARMOUR Residential REIT, Inc.	ARR	6	67	6798					
Art's-Way Manufacturing Co., Inc.	ARTW	3	35						
Ascena Retail Group, Inc.	ASNA	5	56						
Ashford Hospitality Trust, Inc.	AHT	6	67	6798					
Assertio Therapeutics, Inc.	ASRT	2	28	283	2834				
Asure Software, Inc.	ASUR	7	73	737					
AutoWeb, Inc.	AUTO	7	73	737					
AutoZone, Inc.	AZO	5							
Avid Technology, Inc.	AVID	3	38						
Avis Budget Group, Inc.	CAR	7							
Barings BDC, Inc.	BBDC	6	67						
Barnes & Noble, Inc.	BKS	5	59						
Bel Fuse Inc.	BELFB	3	36	367					
Bioanalytical Systems, Inc.	BASI	6	67	6798					
BioScrip, Inc.	BIOS	8	80						
Bluerock Residential Growth REIT, Inc.	BRG	6	67	6798					
Boingo Wireless, Inc.	WIFI	4	48						
Bottomline Technologies (de), Inc.	EPAY	7	73	737					
Broadwind Energy, Inc.	BWEN	3	35						
Brookdale Senior Living Inc.	BKD	8	80						
Brookfield DTLA Office TR INV	DTLA.P	6	67	6798					
Caesars Entertainment Corporation	CZR	7	79	799					
Calumet Specialty Products Partners, L.P.	CLMT	2							
Capital Senior Living Corporation	CSU	8							
Capitala Finance Corp.	CPTA	6	67						
Capstead Mortgage Corporation	CMO	6	67	6798					
Carbonite, Inc.	CARB	7	73	737					
Carrizo Oil & Gas, Inc.	CRZO	1	13	131					
Carver Bancorp, Inc.	CARV	6	60						
Casella Waste Systems, Inc.	CWST	4	49						
Castle Brands Inc.	ROX	2							
CBL & Associates Properties, Inc	CBL	6	67	6798					
CECO Environmental Corp.	CECE	3	35						
Cedar Realty Trust, Inc.	CDR	6	67	6798					
Century Aluminum Company	CENX	3	33						
Chart Industries, Inc.	GTLS	3							
Cheniere Energy, Inc.	LNG	1	13	131					
Cherry Hill Mortgage Investment Corporation	CHMI	6	67	6798					
Chimera Investment Corporation	CIM	6	67	6798					
China Recycling Energy Corporation	CREG	3	36						
China XD Plastics Company Limited	CXDC	2	28						
Cinedigm Corp.	CIDM	7							
Citizens, Inc.	CIA	6							
Clean Energy Fuels Corp.	CLNE	5							
Clear Channel Outdoor Holdings, Inc.	CCO	7	73						
CNX Resources Corporation	CNX	1	13	131					
Colony Capital, Inc.	CLNY	6	67	6798					
Community Health Systems, Inc.	CYH	8	80						
Commvault Systems, Inc.	CVLT	7	73	737					
Condor Hospitality Trust, Inc.	CDOR	6	67	6798					
Consolidated Communications Holdings, Inc.	CNSL	4	48						
Consumer Portfolio Services, Inc.	CPSS	6							
Coty Inc.	COTY	2	28						
CPS Technologies Corporation	CPSH	3							
CSI Compressco LP	CCLP	1	13						
CTI Industries Corporation	CTIB	3							
Cumberland Pharmaceuticals Inc.	CPIX	2	28	283	2834				
CVR Partners, LP	UAN	2	28						
Cyanotech Corporation	CYAN	2	28	283					
CyrusOne Inc.	CONE	6	67	6798					
Del Frisco's Restaurant Group, Inc.	DFRG	5	58						
Destination XL Group, Inc.	DXLG	5	56						
DGSE Companies, Inc.	DGSE	5	59						
Digirad Corporation	DRAD	8	80						
Dine Brands Global, Inc.	DIN	6	67						
Diversicare Healthcare Services, Inc.	DVCR	8	80						
Diversified Restaurant Holdings, Inc.	SAUC	5	58						
Domino's Pizza, Inc.	DPZ	5	58						
Dynex Capital, Inc.	DX	6	67	6798					
Eastman Kodak Company	KODK	3							
Element Solutions Inc	ESI	2	28						
Ellington Financial Inc.	EFC	6	62						
Ellington Residential Mortgage REIT	EARN	6	67	6798					
Endurance International Group Holdings, Inc.	EIGI	7	73	737					
ENGGlobal Corporation	ENG	8							
EnLink Midstream, LLC	ENLC	4	49						
Enservco Corporation	ENSV	1	13						
Entercom Communications Corp.	ETM	4	48						
Envestnet, Inc.	ENV	6	62						
EQT Corporation	EQT	4	49						
Exantas Capital Corp.	XAN	6	67	6798					
Extreme Networks, Inc.	EXTR	3	35	357					
FirstEnergy Corp.	FE	4	49						
Five Star Senior Living Inc.	FVE	8	80						
Flotek Industries, Inc.	FTK	2	28						
Foresight Energy LP	FELP	1							

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

Forum Energy Technologies, Inc.	FET	3	35	353	Kingold Jewelry, Inc.	KGJI	3			
Freeport-McMoRan Inc.	FCX	1			Kite Realty Group Trust	KRG	6	67	6798	
FreightCar America, Inc.	RAIL	3	37		Koppers Holdings Inc.	KOP	2			
Frontier Communications Corporation	FTR	4	48		Kosmos Energy Ltd.	KOS	1	13	131	
Full House Resorts, Inc.	FLL	7	79	799	Kratos Defense & Security Solutions, Inc.	KTOS	7	73	737	
Future FinTech Group Inc.	FTFT	2			KVH Industries, Inc.	KVHI	4	48		
GCI Liberty Inc.	GLIBA	4	48		Ladenburg Thalmann Financial Services Inc.	LTS	6	62		
GEE Group, Inc.	JOB	7	73		Lantronix, Inc.	LTRX	3	35	357	
General Finance Corporation	GFN	7	73		Libbey Inc.	LBY	3			
Genworth Financial, Inc.	GNW	6			Limelight Networks, Inc.	LLNW	7	73	737	
Gladstone Commercial Corporation	GOOD	6	67	6798	Limestone Bancorp, Inc.	LMST	6	60		
Globalstar, Inc.	GSAT	4	48		Lincoln Educational Services Corporation	LINC	8			
Glowpoint, Inc.	GLOW	7	73	737	Liquidity Services, Inc.	LQDT	5	59		
Gogo Inc.	GOGO	4	48		Live Nation Entertainment, Inc.	LYV	7	79		
Golden Entertainment, Inc.	GDEN	7	79	799	LivePerson, Inc.	LPSN	7	73	737	
Good Times Restaurants Inc.	GTIM	5	58		LSB Industries, Inc.	LXU	2	28		
Gran Tierra Energy Inc.	GTE	1	13	131	LSI Industries Inc.	LYTS	3	36		
Great Lakes Dredge & Dock Corporation	GLDD	1			Luby's, Inc.	LUB	5	58		
Groupon, Inc.	GRPN	7	73	737	MACOM Technology Solutions Holdings, Inc.	MTSI	3	36	367	
GSE Systems, Inc.	GVP	7	73		MagnaChip Semiconductor Corporation	MX	3	36	367	
GTT Communications, Inc.	GTT	4	48		Manitex International, Inc.	MNTX	3	35	353	
Gulfport Energy Corporation	GPOR	1	13	131	Matador Resources Company	MTDR	1	13	131	
Hanger, Inc.	HNGR	8	80		Mattel, Inc.	MAT	3			
Harmonic Inc.	HLIT	3	36		MBIA Inc.	MBI	6			
Harvard Bioscience, Inc.	HBIO	3	38		Medley Capital Corporation	MCC	6	67		
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	
Hertz Global Holdings, Inc.	HTZ	7			MidSouth Bancorp, Inc.	MSL	6	60		
Hess Corporation	HES	1	13	131	MoneyGram International, Inc.	MGI	6	60		
HighPoint Resources Corporation	HPR	1	13	131	MRC Global Inc.	MRC	5			
Hill International, Inc.	HIL	8			MVC Capital, Inc.	MVC	6	67		
Hornbeck Offshore Services, Inc.	HOS	4			National CineMedia, Inc.	NCMI	7	73		
Houghton Mifflin Harcourt Company	HMHC	2	27		National Oilwell Varco, Inc.	NOV	3	35	353	
Hovnanian Enterprises, Inc.	HOV	1			Navient Corporation	NAVI	6			
Hudson Technologies Inc.	HDSN	4	49		Navistar International Corporation	NAV	3	37		
Hunt Companies Finance Trust, Inc.	HCFT	6	67	6798	NeoGenomics, Inc.	NEO	8	80		
Iconix Brand Group, Inc.	ICON	6	67		NeoPhotonics Corporation	NPTN	3	36	367	
IEC Electronics Corp.	IEC	3	36	367	NetSol Technologies, Inc.	NTWK	7	73	737	
iMedia Brands, Inc.	EVLV	5	59		New England Realty Associates Limited Partnership	NEN	6			
ImmuCell Corporation	ICCC	2	28	283	New York Mortgage Trust, Inc.	NYMT	6	67	6798	
Infinera Corporation	INFN	3	35	357	Newell Brands Inc.	NWL	3			
InfuSystem Holdings Inc.	INFU	8	80		News Corporation	NWSA	2	27		
InnerWorkings, Inc.	INWK	7	73		NF Energy Saving Corporation	BIMI	3	34		
InnSuites Hospitality Trust	IHT	6	67	6798	NL Industries, Inc.	NL	3	35		
Inphi Corporation	IPHI	3	36	367	NN, Inc.	NNBR	3			
Insys Therapeutics Inc.	INSYQ	2	28	283	2834	Noble Energy, Inc.	NBL	1	13	131
Internap Corporation	INAP	7	73	737	Noodles & Company	NDLS	5	58		
INTL FCStone Inc.	INTL	6	62		Nortech Systems Incorporated	NSYS	3	36	367	
Inuvo, Inc.	INUV	7	73	737	Northern Oil and Gas, Inc.	NOG	1	13	131	
Invacare Corporation	IVC	3	38	384	NRG Energy, Inc.	NRG	4	49		
ION Geophysical Corporation	IO	1	13		Nuance Communications, Inc.	NUAN	7	73	737	
Isramco, Inc.	ISRL	1	13		Oaktree Specialty Lending Corporation	OCSL	7	73	737	
iStar Inc.	STAR	6	67	6798	Och-Ziff Capital Management Group Inc.	OZM	6	62		
Itron, Inc.	ITRI	3	38		Office Properties Income Trust	OPI	6	67	6798	
J. C. Penney Company, Inc.	JCP	5								
JAKKS Pacific, Inc.	JAKK	3								
JMP Group LLC	JMP	6	62							
KBR, Inc.	KBR	1								
Kennametal Inc.	KMT	3	35							



## Appendix E:

# Industry List by SIC Code

Appendix E is a list of the U.S. industries analyzed in the *2019 Valuation Handbook – Industry Cost of Capital* (data through June 2019) by SIC code.

Appendix E: IndustryList by SIC Code

1	Mining & Construction	36	Electronic and Other Electrical Equipment and Components, Except Computer Equipment
10	Metal Mining	362	Electrical Industrial Apparatus
13	Oil and Gas Extraction	3621	Motors and Generators
131	Crude Petroleum and Natural Gas	366	Communications Equipment
14	Mining and Quarrying Of Nonmetallic Minerals, Except Fuels	3663	Radio and Television Broadcasting and Communications Equipment
15	Building Construction General Contractors and Operative Builders	367	Electronic Components and Accessories
16	Heavy Construction Other Than Building Construction Contractors	3672	Printed Circuit Boards
2	Manufacturing	3674	Semiconductors and Related Devices
20	Food and Kindred Products	369	Miscellaneous Electrical Machinery, Equipment, and Supplies
201	Meat Products	37	Transportation Equipment
203	Canned, Frozen, and Preserved Fruits, Vegetables, and Food Specialties	371	Motor Vehicles and Motor Vehicle Equipment
208	Beverages	3711	Motor Vehicles and Passenger Car Bodies
23	Apparel and Other Finished Products Made From Fabrics and Similar Materials	3714	Motor Vehicle Parts and Accessories
24	Lumber and Wood Products, Except Furniture	38	Measuring, Analyzing, and Controlling Instruments; Photographic, Medical and Optical Goods; Watches and Clocks
25	Furniture and Fixtures	382	Laboratory Apparatus and Analytical, Optical, Measuring, and Controlling Instruments
251	Household Furniture	3825	Instruments for Measuring and Testing of Electricity and Electrical Signals
26	Paper and Allied Products	3826	Laboratory Analytical Instruments
262	Paper Mills	384	Surgical, Medical, and Dental Instruments and Supplies
265	Paperboard Containers and Boxes	3841	Surgical and Medical Instruments and Apparatus
27	Printing, Publishing, and Allied Industries	3842	Orthopedic, Prosthetic, and Surgical Appliances and Supplies
28	Chemicals and Allied Products	3845	Electromedical and Electrotherapeutic Apparatus
281	Industrial Inorganic Chemicals	39	Miscellaneous Manufacturing Industries
283	Drugs	4	Transportation, Communications, Electric, Gas, and Sanitary Services
2834	Pharmaceutical Preparations	40	Railroad Transportation
2835	In Vitro and In Vivo Diagnostic Substances	42	Motor Freight Transportation and Warehousing
2836	Biological Products, Except Diagnostic Substances	4213	Trucking, Except Local
284	Soap, Detergents, and Cleaning Preparations; Perfumes, Cosmetics, and Other Toilet Preparations	45	Transportation By Air
286	Industrial Organic Chemicals	451	Air Transportation, Scheduled, and Air Courier
287	Agricultural Chemicals	46	Pipelines, Except Natural Gas
289	Miscellaneous Chemical Products	47	Transportation Services
29	Petroleum Refining and Related Industries	473	Arrangement Of Transportation Of Freight and Cargo
291	Petroleum Refining	48	Communications
3	Manufacturing	481	Telephone Communications
30	Rubber and Miscellaneous Plastics Products	4813	Telephone Communications, Except Radiotelephone
308	Miscellaneous Plastics Products	483	Radio and Television Broadcasting Stations
31	Leather and Leather Products	4833	Television Broadcasting Stations
32	Stone, Clay, Glass, and Concrete Products	49	Electric, Gas, and Sanitary Services
33	Primary Metal Industries	491	Electric Services
331	Steel Works, Blast Furnaces, and Rolling and Finishing Mills	492	Gas Production and Distribution
34	Fabricated Metal Products, Except Machinery and Transportation Equipment	4924	Natural Gas Distribution
342	Cutlery, Handtools, and General Hardware	493	Combination Electric and Gas, and Other Utility
344	Fabricated Structural Metal Products	4931	Electric and Other Services Combined
349	Miscellaneous Fabricated Metal Products	494	Water Supply
35	Industrial and Commercial Machinery and Computer Equipment	495	Sanitary Services
353	Construction, Mining, and Materials Handling	5	Wholesale Trade & Retail Trade
355	Special Industry Machinery, Except Metalworking	50	Wholesale Trade-durable Goods
3559	Special Industry Machinery, Not Elsewhere Classified	504	Professional and Commercial Equipment and Supplies
356	General Industrial Machinery and Equipment	5045	Computers and Computer Peripheral Equipment and Software
357	Computer and Office Equipment	506	Electrical Goods
3577	Computer Peripheral Equipment, Not Elsewhere Classified		

Appendix E: IndustryList by SIC Code

51	Wholesale Trade-non-durable Goods	80	Health Services
512	Drugs, Drug Proprietaries, and Druggists' Sundries	809	Miscellaneous Health and Allied Services, Not
514	Groceries and Related Products	82	Educational Services
517	Petroleum and Petroleum Products	87	Engineering, Accounting, Research, Management, and Related Services
53	General Merchandise Stores	871	Engineering, Architectural, and Surveying
533	Variety Stores	874	Management and Public Relations Services
54	Food Stores	8742	Management Consulting Services
541	Grocery Stores		
5411	Grocery Stores		
55	Automotive Dealers and Gasoline Service Stations		
56	Apparel and Accessory Stores		
565	Family Clothing Stores		
57	Home Furniture, Furnishings, and Equipment Stores		
58	Eating and Drinking Places		
59	Miscellaneous Retail		
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		
61	Non-depository Credit Institutions		
614	Personal Credit Institutions		
616	Mortgage Bankers and Brokers		
6162	Mortgage Bankers and Loan Correspondents		
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		
651	Real Estate Operators (except Developers) and Lessors		
653	Real Estate Agents and Managers		
67	Holding and Other Investment Offices		
6794	Patent Owners and Lessors		
6798	Real Estate Investment Trusts		
7	Services		
70	Hotels, Rooming Houses, Camps, and Other Lodging Places		
73	Business Services		
735	Miscellaneous Equipment Rental and Leasing		
736	Personnel Supply Services		
7361	Employment Agencies		
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		
79	Amusement and Recreation Services		
799	Miscellaneous Amusement and Recreation Services		
8	Services		

## Appendix F:

### Industry List by Industry Name (alphabetical)

Appendix F is a list of the U.S. industries analyzed in *the 2019 Valuation Handbook – U.S. Industry Cost of Capital* (data through June 2019) in alphabetical order.

Appendix F: Industry List by Industry Name (alphabetical)

Accident and Health Insurance and Medical	632	General Merchandise Stores	53
Agricultural Chemicals	287	Groceries and Related Products	514
Air Transportation, Scheduled, and Air Courier	451	Grocery Stores	541
Amusement and Recreation Services	79	Grocery Stores	5411
Apparel and Accessory Stores	56	Health Services	80
Apparel and Other Finished Products Made From Fabrics and Similar Materials	23	Heavy Construction Other Than Building Construction Contractors	16
Arrangement Of Transportation Of Freight and Cargo	473	Help Supply Services	7363
Automotive Dealers and Gasoline Service Stations	55	Holding and Other Investment Offices	67
Beverages	208	Home Furniture, Furnishings, and Equipment Stores	57
Biological Products, Except Diagnostic Substances	2836	Hospital and Medical Service Plans	6324
Building Construction General Contractors and Operative Builders	15	Hotels, Rooming Houses, Camps, and Other Lodging Places	70
Business Services	73	Household Furniture	251
Canned, Frozen, and Preserved Fruits, Vegetables, and Food Specialties	203	In Vitro and In Vivo Diagnostic Substances	2835
Chemicals and Allied Products	28	Industrial and Commercial Machinery and Computer Equipment	35
Combination Electric and Gas, and Other Utility	493	Industrial Inorganic Chemicals	281
Commercial Banks	602	Industrial Organic Chemicals	286
Communications	48	Instruments for Measuring and Testing of Electricity and Electrical Signals	3825
Communications Equipment	366	Insurance Agents, Brokers, and Service	64
Computer and Office Equipment	357	Insurance Carriers	63
Computer Integrated Systems Design	7373	Laboratory Analytical Instruments	3826
Computer Peripheral Equipment, Not Elsewhere Classified	3577	Laboratory Apparatus and Analytical, Optical, Measuring, and Controlling Instruments	382
Computer Processing and Data Preparation and Processing Services	7374	Leather and Leather Products	31
Computer Programming, Data Processing, and Other Computer Related Services	737	Life Insurance	631
Computers and Computer Peripheral Equipment and Software	5045	Lumber and Wood Products, Except Furniture	24
Construction, Mining, and Materials Handling	353	Management and Public Relations Services	874
Crude Petroleum and Natural Gas	131	Management Consulting Services	8742
Cutlery, Handtools, and General Hardware	342	Manufacturing	2
Depository Institutions	60	Manufacturing	3
Drugs	283	Measuring, Analyzing, and Controlling Instruments; Photographic, Medical and Optical Goods; Watches and Clocks	38
Drugs, Drug Proprietaries, and Druggists' Sundries	512	Meat Products	201
Eating and Drinking Places	58	Metal Mining	10
Educational Services	82	Mining & Construction	1
Electric and Other Services Combined	4931	Mining and Quarrying Of Nonmetallic Minerals, Except Fuels	14
Electric Services	491	Miscellaneous Amusement and Recreation	799
Electric, Gas, and Sanitary Services	49	Miscellaneous Business Services	738
Electrical Goods	506	Miscellaneous Chemical Products	289
Electrical Industrial Apparatus	362	Miscellaneous Electrical Machinery, Equipment, and Supplies	369
Electromedical and Electrotherapeutic Apparatus	3845	Miscellaneous Equipment Rental and Leasing	735
Electronic and Other Electrical Equipment and Components, Except Computer Equipment	36	Miscellaneous Fabricated Metal Products	349
Electronic Components and Accessories	367	Miscellaneous Health and Allied Services, Not Miscellaneous Manufacturing Industries	809
Employment Agencies	7361	Miscellaneous Manufacturing Industries	39
Engineering, Accounting, Research, Management, and Related Services	87	Miscellaneous Plastics Products	308
Engineering, Architectural, and Surveying	871	Miscellaneous Retail	59
Fabricated Metal Products, Except Machinery and Transportation Equipment	34	Mortgage Bankers and Brokers	616
Fabricated Structural Metal Products	344	Mortgage Bankers and Loan Correspondents	6162
Family Clothing Stores	565	Motor Freight Transportation and Warehousing	42
Finance, Insurance, and Real Estate	6	Motor Vehicle Parts and Accessories	3714
Fire, Marine, and Casualty Insurance	633	Motor Vehicles and Motor Vehicle Equipment	371
Food and Kindred Products	20	Motor Vehicles and Passenger Car Bodies	3711
Food Stores	54	Motors and Generators	3621
Furniture and Fixtures	25	Natural Gas Distribution	4924
Gas Production and Distribution	492	Non-depository Credit Institutions	61
General Industrial Machinery and Equipment	356	Nonstore Retailers	596
		Oil and Gas Extraction	13
		Orthopedic, Prosthetic, and Surgical Appliances and Supplies	3842
		Paper and Allied Products	26
		Paper Mills	262

## Appendix F: Industry List by Industry Name (alphabetical)

Paperboard Containers and Boxes	265
Patent Owners and Lessors	6794
Personal Credit Institutions	614
Personnel Supply Services	736
Petroleum and Petroleum Products	517
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
Real Estate Operators (except Developers) and Lessors	651
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
Transportation, Communications, Electric, Gas, and Sanitary Services	4
Trucking, Except Local	4213
Variety Stores	533
Water Supply	494
Wholesale Trade & Retail Trade	5
Wholesale Trade-durable Goods	50
Wholesale Trade-non-durable Goods	51