

Canadian National(CNI)

\$104.64 (As of 11/04/20)

Price Target (6-12 Months): **\$107.00**

Long Term: 6-12 Months

Zacks Recommendation:
Neutral

(Since: 08/21/20)

Prior Recommendation: Outperform

Short Term: 1-3 Months

Zacks Rank: (1-5)

3-Hold

Zacks Style Scores:

VGM:C

Value: C

Growth: C

Momentum: B

Summary

Canadian National is being aided by robust performance of its Grain and Fertilizers segment. Revenues from the unit rose 5% in first nine months of 2020. The company moved 22.8 million metric tonnes (MMT) of Canadian grain in the same period. Partly owing to this tailwind, shares of the company have outperformed its industry so far this year. Additionally, gradual recovery in the freight environment is a boon for company. Canadian National's cost-control efforts are an added positive. Although freight volumes have improved from the dramatic lows, it is way below year-ago levels amid coronavirus-led woes. Evidently, freight revenues declined 11% year over year in the first nine months of 2020. Persistent deterioration in the operating ratio is also a cause for concern. Moreover, the company does not have a sound liquidity position.

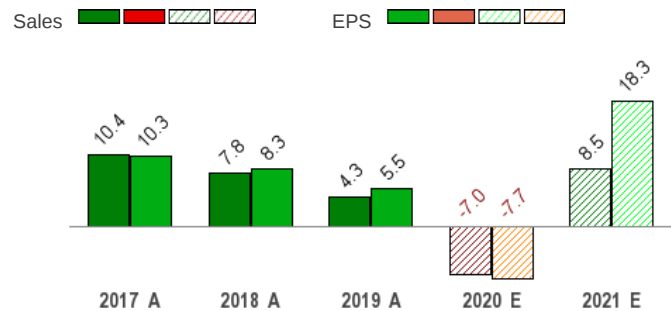
Price, Consensus & Surprise



Data Overview

52-Week High-Low	\$112.97 - \$65.13
20-Day Average Volume (Shares)	806,967
Market Cap	\$72.6 B
Year-To-Date Price Change	12.8%
Beta	0.87
Dividend / Dividend Yield	\$1.75 / 1.7%
Industry	Transportation - Rail
Zacks Industry Rank	Bottom 26% (184 out of 250)

Sales and EPS Growth Rates (Y/Y %)



Last EPS Surprise	-4.6%
Last Sales Surprise	-3.9%
EPS F1 Estimate 4-Week Change	1.2%
Expected Report Date	01/26/2021
Earnings ESP	0.0%

P/E TTM	26.7
P/E F1	25.8
PEG F1	3.7
P/S TTM	7.1

Sales Estimates (millions of \$)

	Q1	Q2	Q3	Q4	Annual*
2021	2,678 E	2,806 E	2,818 E	3,036 E	11,401 E
2020	2,643 A	2,315 A	2,559 A	2,778 E	10,508 E
2019	2,666 A	2,960 A	2,901 A	2,715 A	11,302 A

EPS Estimates

	Q1	Q2	Q3	Q4	Annual*
2021	\$0.96 E	\$1.18 E	\$1.19 E	\$1.26 E	\$4.79 E
2020	\$0.91 A	\$0.92 A	\$1.04 A	\$1.10 E	\$4.05 E
2019	\$0.88 A	\$1.29 A	\$1.26 A	\$0.95 A	\$4.39 A

*Quarterly figures may not add up to annual.

The data in the charts and tables, including the Zacks Consensus EPS and Sales estimates, is as of 11/04/2020. The reports text is as of 11/05/2020.

Overview

Based in Montreal, Canada, Canadian National Railway Company is engaged in the rail and related transportation business. It operates as the largest rail network in Canada and the only transcontinental network in North America. The company's rail network serves major Canadian ports and includes connections to the United States.

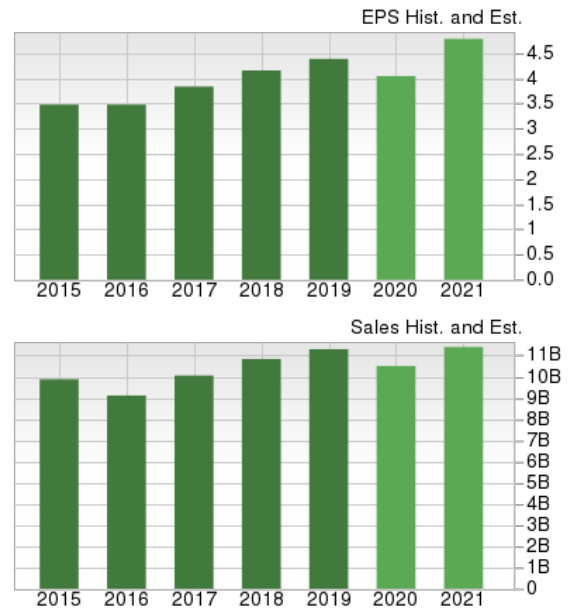
The company was founded in 1919. It is responsible for transporting more than C\$250 billion worth of goods annually for a wide range of business sectors, ranging from resource products to manufactured products to consumer goods, across a vast rail network.

The network covers Canada and mid-America and spans across approximately 20,000 route-miles. Its calendar year coincides with the fiscal year. It is investing actively toward expanding its network. The company's fiscal year coincides with the calendar year.

Canadian National generates revenues from rail freight (accounted for 95.2% of 2019 revenues) and other sources (4.8%). Canadian National is continuously seeking productivity initiatives to grow steadily, reduce costs and leverage its assets.

Canadian National purchased Winnipeg-based TransX in March 2019 in a bid to serve its customers in a more efficient manner. The company's rail freight operations are classified into seven business segments:

- **Petroleum and Chemicals** (accounted for 20.5% of 2019 rail freight revenues) comprises commodities, including chemicals, sulfur, plastics, petroleum products and liquefied petroleum gas (LPG) products.
- **Metals and Minerals** (11%) consists of nonferrous metals, concentrates, iron ore, steel, aluminum, construction materials, machinery and dimensional loads.
- **Forest Products** (12.1%) includes various types of lumber, panels, paper, wood pulp and other fibers, such as logs, recycled paper and wood chips.
- **Coal** (4.4%) consists of thermal grades of bituminous coal. It also includes the transport of Canadian metallurgical coal.
- **Grains and Fertilizers** (16%) comprises three primary segments: food grains, feed grains, oilseeds and oilseed products.



Source: Zacks Investment Research

Reasons To Buy:

- ▲ We are positive on the performance of Canadian National with respect to grain transportation in March, April, May, June, July, August and September. Notably, the company moved 22.8 MMT of Canadian grain in the first nine months of 2020 (of which 7.8 MMT was moved in the September end quarter). Canadian National had set a record by moving 8.15MMT of Canadian grain during second-quarter 2020. With this, the company broke its previously set record of moving 8.08 MMT Canadian grains. Notably, revenues in the Grain and Fertilizers segment increased 5% in first nine months of 2020. The company moved more than 30 million MMT of grain from across Canada during the 2019-2020 crop year, which is a record.
- ▲ Canadian National's cost-control measures are also appreciative. With low fuel prices, reduced labor costs, as well as decreased purchased services and material expenses, the company reduced its operating expenses by 8% year over year in the third quarter of 2020. Additionally, the company is benefiting from the gradual improvement in freight volumes.
- ▲ The company's buyout of The TransX Group of Companies bolstered its supply chain and intermodal businesses across North America. Its long-term deal with Teck Resources Ltd running from April 2021 through December 2026 should drive growth going forward. Under this pact, Canadian National will ship steelmaking coal from Teck's four British Columbia operations between Kamloops and Neptune Terminals, and other West Coast ports. Additionally, the company's new intermodal rail service between Moncton and Halifax (announced in May 2020) is expected to aid growth in the Atlantic region. Canadian National aims to improve efficiency within supply chains, through this initiative.
- ▲ While Canadian National has temporarily suspended share repurchases to address the coronavirus situation, it continues to reward shareholders through dividend payments. The company has raised dividends consecutively for 24 years. The latest hike was announced in January 2020, when the company's board of directors approved a 7% hike in its quarterly cash dividend to C\$0.575 per share. Despite the crisis, its decision to maintain dividend payment is encouraging. Its ability to generate free cash flow is a positive too. Notably, the company generated free cash flow of C\$2,087 million during the first nine months of 2020 compared with the year-ago period's figure of C\$1,499 million. For 2020, the company expects to achieve free cash flow of more than C\$2.5 billion.

We are positive on the performance of Canadian National with respect to grain transportation in the first nine months of 2020.

Reasons To Sell:

- ▼ Canadian National continues to be plagued by coronavirus-related woes. While freight volumes have improved from the dramatic lows, it is still substantially weak on a year-over-year comparison. In the first nine months of 2020, freight revenues declined 11% year over year due to lower volumes across most commodity groups. Within freight, revenues from Metals and Minerals, Forest Products and Coal segments declined 19%, 9% and 21% respectively in the first nine months of 2020. Revenues dropped 35% in the Automotive segment and 5% in the Intermodal segment. Continuous below-par freight revenues at the key segments might hurt the stock badly. Overall volumes decreased 9% in the first nine months of 2020 with double-digit declines in most key segments.
- ▼ Deterioration in operating ratio (operating expenses as a % of revenues) due to tepid revenues is concerning. This key metric deteriorated to 66.9% in first nine months of 2020 from 61.4% in the year-ago period despite reduction in operating expenses. On an adjusted basis, the metric deteriorated to 62.1% from 60.7% in the first nine months of 2019. Notably, a lower value of the metric is more desirable.
- ▼ The company exited the September quarter with cash and cash equivalents of \$613 million, less than the current debt of \$654 million. This implies that the company does not have enough cash to meet its current debt obligations. Moreover, the company's current ratio (a measure of liquidity) of 1.05 is less than its industry's 1.25.

Significant weakness in freight revenues due to coronavirus-led woes is a concern.

Last Earnings Report

Canadian National's Revenue Miss in Q3

Canadian National's third-quarter 2020 earnings of \$1.04 per share (C\$1.38) missed the Zacks Consensus Estimate by 5 cents. Moreover, the bottom line declined 17.5% year over year.

Quarterly revenues of \$2,558.6 million (C\$3,409 million) missed the Zacks Consensus Estimate of \$2,661 million and declined 11.8% year over year. The downside was primarily caused by COVID-19-induced lower volumes across most commodity groups and lower fuel surcharge rates.

Lackluster freight demand also had a negative impact on the top line. Freight revenues (C\$3,249), which contributed 95.3% to the top line, fell 10% year over year. On a year-over-year basis, freight revenues declined across all segments. Freight revenues in Petroleum and Chemicals, Metals and Minerals, Forest Products and Coal segment declined 25%, 20%, 6% and 30%, respectively. Moreover, the same also declined in the Automotive (18%) and Intermodal segment (3%). Nevertheless, revenues in the Grain and Fertilizers segment inched up 10%.

While overall carloads declined 6% year over year, revenue ton miles (RTMs) dropped 7%. Segment-wise, carloads declined in the Petroleum and Chemicals, Metals and Minerals, Forest Products, Coal by 22%, 13%, 10%, and 21%, respectively. Nevertheless, carloads in the Grain and Fertilizers segment moved up 12%. While the metric fell 13% in the Automotive segment, the same remained flat in Intermodal segment. Moreover, freight revenue per carload dropped 5% in the reported quarter. Freight revenue per RTM also fell 3%.

Operating expenses for the third quarter decreased 8% to C\$2,043 million, due to lower fuel and labor costs, as well as decreased purchased services and material expense. Adjusted operating income declined 15% year over year to C\$1,366 million. Adjusted operating ratio (defined as operating expenses as a percentage of revenues) deteriorated to 59.9% from the year-ago quarter's figure of 57.9%. Notably, a smaller value of the metric is desirable.

Liquidity

The company exited the September-end quarter with cash and cash equivalents of C\$285 million compared with the C\$64 million recorded at the end of 2019. The company generated free cash flow of C\$506 during the third quarter of 2020 compared with the year-ago quarter's C\$700 million. Long-term debt amounted to C\$12,915 million as of Sep 30, 2020 compared with C\$11,866 million at 2019-end.

Dividend

The company's board maintains its quarterly dividend of C\$0.575 per share, which will be paid out on Dec 30 to shareholders of record at the close of business on Dec 9.

Quarter Ending	09/2020
Report Date	Oct 20, 2020
Sales Surprise	-3.85%
EPS Surprise	-4.59%
Quarterly EPS	1.04
Annual EPS (TTM)	3.82

Recent News

Grain Movement Update — Oct 30, 2020

With two more days still left in October, Canadian National has already surpassed its record Canadian grain movement of 2.88 million metric tons set in October 2019. The company is on track to exceed 3 MMT mark in the month. Notably, October will be the company's eighth straight month of record grain movement.

MOU Signed to Acquire 50 Electric Trucks — Sep 1, 2020

Canadian National signed a memorandum of understanding (MOU) with The Lion Electric Co. to acquire 50 zero-emission trucks for intermodal operations. These electric trucks, which will be used in the company's intermodal terminals in urban areas, will help in reducing greenhouse gas emissions.

Valuation

Canadian National shares are up 12.8% and 8.5% in the year-to-date period and over the trailing 12-month period respectively. Stocks in the Zacks sub-industry and the Zacks Transportation sector are up 10.5% and 1.7% in the year-to-date period respectively. Over the past year, the Zacks sub-industry and the sector are up 11.3% and 0.9% respectively.

The S&P 500 index is up 5% and 10.1% in the year-to-date period and in the past year respectively.

The stock is currently trading at 21.82X forward 12-month price-to-earnings, which compares to 19.79X for the Zacks sub-industry, 26.95X for the Zacks sector and 21.39X for the S&P 500 index.

Over the past five years, the stock has traded as high as 24.18X and as low as 13.79X, with a 5-year median of 18.45X. Our Neutral recommendation indicates that the stock will perform in-line with the market. Our \$107 price target reflects 22.91X forward 12-month earnings.

The table below shows summary valuation data for CN

Valuation Multiples - CN					
		Stock	Sub-Industry	Sector	S&P 500
P/E F 12M	Current	21.82	19.79	26.95	21.39
	5-Year High	24.18	20.61	32.43	23.47
	5-Year Low	13.79	13.46	10.48	15.27
	5-Year Median	18.45	17.02	14.08	17.7
EV/EBITDA TTM	Current	17.25	15.8	9.8	14.12
	5-Year High	20.68	31.25	11.09	15.63
	5-Year Low	8.32	7.86	5.14	9.52
	5-Year Median	13.56	12.69	7.27	13.11
P/S F 12M	Current	6.44	6.19	1.37	3.96
	5-Year High	7.15	6.32	1.41	4.3
	5-Year Low	3.9	3.04	0.85	3.17
	5-Year Median	5.44	4.64	1.2	3.67

As of 11/04/2020

Source: Zacks Investment Research

Industry Analysis Zacks Industry Rank: Bottom 26% (184 out of 250)



Source: Zacks Investment Research

Top Peers

Company (Ticker)	Rec	Rank
United Parcel Service, Inc. (UPS)	Outperform	2
Canadian Pacific Railway Limited (CP)	Neutral	2
CSX Corporation (CSX)	Neutral	3
Kansas City Southern (KSU)	Neutral	3
Norfolk Southern Corporation (NSC)	Neutral	3
Union Pacific Corporation (UNP)	Neutral	3
Central Japan Railway Co. (CJPRY)	Underperform	4
WEST JAPAN RAIL (WJRY)	Underperform	4

The positions listed should not be deemed a recommendation to buy, hold or sell.

Industry Comparison Industry: Transportation - Rail				Industry Peers		
	CNI	X Industry	S&P 500	CP	CSX	NSC
Zacks Recommendation (Long Term)	Neutral	-	-	Neutral	Neutral	Neutral
Zacks Rank (Short Term)	3	-	-	2	3	3
VGM Score	C	-	-	D	D	C
Market Cap	72.57 B	20.96 B	23.31 B	41.86 B	64.88 B	60.56 B
# of Analysts	10	7	13	11	10	10
Dividend Yield	1.71%	1.23%	1.61%	0.91%	1.23%	1.70%
Value Score	C	-	-	D	C	C
Cash/Price	0.01	0.09	0.07	0.00	0.05	0.03
EV/EBITDA	14.39	12.88	13.55	14.95	12.20	13.73
PEG F1	3.69	2.90	2.68	2.75	3.05	3.22
P/B	5.01	3.51	3.32	7.36	5.10	3.75
P/CF	16.70	14.18	13.11	18.89	14.18	14.79
P/E F1	25.73	24.01	20.69	23.30	23.73	24.28
P/S TTM	7.09	6.11	2.55	7.24	6.10	6.11
Earnings Yield	3.97%	4.04%	4.64%	4.29%	4.22%	4.12%
Debt/Equity	0.67	0.85	0.70	1.18	1.27	0.85
Cash Flow (\$/share)	6.11	6.11	6.92	16.48	5.98	14.93
Growth Score	C	-	-	D	D	C
Historical EPS Growth (3-5 Years)	5.49%	8.75%	10.07%	14.84%	23.54%	18.43%
Projected EPS Growth (F1/F0)	-7.77%	-8.77%	0.02%	7.79%	-14.27%	-12.07%
Current Cash Flow Growth	6.26%	0.86%	5.34%	5.41%	0.86%	3.26%
Historical Cash Flow Growth (3-5 Years)	3.06%	5.61%	8.38%	5.60%	8.74%	5.66%
Current Ratio	1.05	1.07	1.39	0.60	1.84	1.29
Debt/Capital	40.07%	48.97%	41.80%	54.13%	55.88%	45.82%
Net Margin	24.90%	20.98%	10.44%	29.66%	26.08%	20.27%
Return on Equity	19.55%	17.69%	14.94%	32.77%	22.83%	15.83%
Sales/Assets	0.31	0.31	0.51	0.33	0.27	0.26
Projected Sales Growth (F1/F0)	-6.53%	-7.91%	-0.00%	0.64%	-12.04%	-13.30%
Momentum Score	B	-	-	B	D	B
Daily Price Change	-2.78%	-0.85%	-0.17%	-2.87%	0.72%	-1.21%
1-Week Price Change	-5.35%	-5.68%	-5.63%	-4.95%	-2.89%	-2.92%
4-Week Price Change	-7.05%	-5.26%	-0.20%	0.50%	7.80%	1.81%
12-Week Price Change	-0.84%	-2.53%	1.06%	5.38%	13.06%	7.78%
52-Week Price Change	8.49%	5.90%	-0.04%	32.32%	15.20%	14.42%
20-Day Average Volume (Shares)	806,967	269,875	1,910,976	405,157	4,597,149	1,360,548
EPS F1 Estimate 1-Week Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.81%
EPS F1 Estimate 4-Week Change	1.20%	1.37%	1.11%	1.50%	1.10%	2.16%
EPS F1 Estimate 12-Week Change	1.53%	1.88%	2.96%	2.54%	1.74%	3.13%
EPS Q1 Estimate Monthly Change	4.72%	4.63%	0.43%	7.38%	4.55%	2.93%

Source: Zacks Investment Research

Zacks Stock Rating System

We offer two rating systems that take into account investors' holding horizons: Zacks Rank and Zacks Recommendation. Each provides valuable insights into the future profitability of the stock and can be used separately or in combination with each other depending on your investment style.

Zacks Recommendation

The Zacks Recommendation aims to predict performance over the next 6 to 12 months. The foundation for the quantitatively determined Zacks Recommendation is trends in the company's estimate revisions and earnings outlook. The Zacks Recommendation is broken down into 3 Levels; Outperform, Neutral and Underperform. Unlike many Wall Street firms, we maintain a balance between the number of Outperform and Neutral recommendations. Our team of 70 analysts are fully versed in the benefits of earnings estimate revisions and how that is harnessed through the Zacks quantitative rating system. But we have given our analysts the ability to override the Zacks Recommendation for the 1200 stocks that they follow. The reason for the analyst over-rides is that there are often factors such as valuation, industry conditions and management effectiveness that a trained investment professional can spot better than a quantitative model.

Zacks Rank

The Zacks Rank is our short-term rating system that is most effective over the one- to three-month holding horizon. The underlying driver for the quantitatively-determined Zacks Rank is the same as the Zacks Recommendation, and reflects trends in earnings estimate revisions.

Zacks Style Scores

The Zacks Style Score is as a complementary indicator to the Zacks rating system, giving investors a way to focus on the highest rated stocks that best fit their own stock picking preferences.

Academic research has proven that stocks with the best Value, Growth and Momentum characteristics outperform the market. The Zacks Style Scores rate stocks on each of these individual styles and assigns a rating of A, B, C, D and F. We also produce the VGM Score (V for Value, G for Growth and M for Momentum), which combines the weighted average of the individual Style Scores into one score. This is perfectly suited for those who want their stocks to have the best scores across the board.

Value Score	C
Growth Score	C
Momentum Score	B
VGM Score	C

As an investor, you want to buy stocks with the highest probability of success. That means buying stocks with a Zacks Recommendation of Outperform, which also has a Style Score of an A or a B.

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Returns quoted represent past performance which is no guarantee of future results. Investment returns and principal value will fluctuate so that when shares are redeemed, they may be worth more or less than their original cost. Current performance may be higher or lower than the performance shown.

Investing involves risk; principal loss is possible. There is no guarantee that companies that can issue dividends will declare, continue to pay or increase dividends.

Glossary of Terms and Definitions

52-Week High-Low: The range of the highest and lowest prices at which a stock has traded during the past year. This range is determined based on the stock's daily closing price which may differ from the intra-day high or low. Many investors use it as a technical indicator to determine a stock's current value and future price movement. The idea here is that if price breaks out from the 52-week range, in either direction, the momentum may continue in the same direction.

20-Day Average Volume (Shares): The average number of shares of a company traded in a day over the last 20 days. It is a direct indication of a security's overall liquidity. The higher the average daily trading volume, the easier it is to enter or exit the stock at a desired price with more buyers and sellers being available.

Daily Price Change: This is the percentage difference between a trading day's closing price and the prior trading day's closing price. This item is updated at 9 p.m. EST each day.

1-Week Price Change: This is the percentage change in a stock's closing price over the last 5 trading days. This change reflects the collective buying and selling sentiment over the 1-week period.

A strong weekly price increase for the stock, especially when accompanied by increased volume, is an indication of it gaining momentum.

4-Week Price Change: This is the percentage change in a stock's closing price over the last 20 trading days or past 4 weeks. This is a medium-term price change metric and an indication of the stock gaining momentum.

12-Week Price Change: This is the percentage change of a stock's closing price over the last 60 trading days or past 12 weeks. Similar to 4-week price change, this is a medium-term price change metric. It shows whether a stock has been enjoying strong investor demand, or if it has been in consolidation, or distress over this period.

52-Week Price Change: This is the percentage change in a stock's closing price over the last 260 trading days or past 52 weeks. This long-term price change metric is a good reference point for investors. Some investors seek stocks with the best percentage price change over the last 52 weeks, expecting the momentum to continue.

Market Cap: The number of outstanding common shares of a company times its latest price per share. This figure represents a company's size, which indicates various characteristics, including price stability and risk, in which investors could be interested.

Year-To-Date Price Change: Change in a stock's daily closing price in the period of time beginning the first day of the current calendar year through to the previous trading day.

of Analysts: Number of EPS estimates used in calculating the current-quarter consensus. These estimates come from the brokerage analysts tracking this stock. However, the number of such analysts tracking this stock may not match the number of estimates, as all brokerage analysts may not come up with an estimate or provide it to us.

Beta: A measure of risk commonly used to compare the volatility of a stock to the overall market. The S&P 500 Index is the base for calculating beta and carries a value of 1. A stock with beta below 1 is less risky than the market as a whole. And a stock with beta above 1 is riskier.

Dividend: The portion of earnings a company is expected to distribute to its common shareholders in the next 12 months for each share they own. Dividends are usually paid quarterly. Dividend payments reflect positively on a company and help maintain investors' trust. Investors typically find dividend-paying stocks appealing because the dividend adds to any market price appreciation to result in higher return on investment (ROI). Moreover, a steady or increasing dividend payment provides investors a cushion in a down market.

Dividend Yield: The ratio of a company's annual dividend to its share price. The annual dividend used in the ratio is calculated based on the most recent dividend paid by the company. Dividend yield is an estimate of the dividend-only return from a stock in the next 12 months. Since dividend itself doesn't change frequently, dividend yield usually changes with a stock's price movement. As a result, often an unusually high dividend yield is a result of weak stock price.

S&P 500 Index: The Standard & Poor's 500 (S&P 500) Index is an unmanaged group of securities considered to be representative of the stock market in general. It is a market-capitalization-weighted index of stocks of the 500 largest U.S. companies. Each stock's weight in the index is proportionate to its market value.

Industry: One of the 250+ groups that Zacks classifies all stocks into based on the nature of business. These groups are termed as expanded (aka "X") industries and map to their respective (economic) sectors; Zacks has 16 sectors.

Zacks Industry Rank: The Zacks Industry Rank is determined by calculating the average Zacks Rank for all stocks in the industry and then assigning an ordinal rank to it. For example, an industry with an average Zacks Rank of 1.6 is better than an industry with an average Zacks Rank of 2.3. So, the industry with the better average Zacks Rank would get a better Zacks Industry Rank. If an industry has the best average Zacks Rank, it would be considered the top industry (1 out of 250+), which would place it at the top 1% of Zacks-ranked industries. Studies have shown that roughly half of a stock's price movement can be attributed to the industry group it belongs to. In fact, the top 50% of Zacks-ranked industries outperforms the bottom 50% by a factor of more than 2 to 1.

Last EPS Surprise: The percentage deviation of a company's last reported earnings per share from the Zacks Consensus Estimate. Companies with a positive earnings surprise are more likely to surprise again in the future (or miss again if they recently missed).

Last Sales Surprise: The percentage deviation of a company's last reported sales from the Zacks Consensus Estimate.

Expected Report Date: This is an estimated date of a company's next earnings release. The information originated or gathered by Zacks Investment Research from its information providers or publicly available sources is the basis of this estimate.

Earnings ESP: The Zacks Earnings ESP compares the Most Accurate Estimate to the Zacks Consensus Estimate for the yet-to-be reported quarter. The Most Accurate Estimate is the most recent version of the Zacks Consensus EPS Estimate. The idea here is that analysts revising their estimates closer to an earnings release have the latest information, which could potentially be more accurate than what they and others contributing to the consensus had predicted earlier. Thus, a positive or negative Earnings ESP reading theoretically indicates the likely deviation of the actual earnings from the consensus estimate. However, the model's predictive power is significant for positive ESP readings only. A positive Earnings ESP is a strong predictor of an earnings beat, particularly when combined with a Zacks Rank #1 (Strong Buy), #2 (Buy) or #3 (Hold). Our research shows that stocks with this combination produce a positive surprise nearly 70% of the time.

Periods:

TTM: Trailing 12 months. Using TTM figures is an effective way of analyzing the most-recent financial data in an annualized format that helps neutralize the effects of seasonality and other quarter-to-quarter variation.

F1: Current fiscal year. This period is used to analyze the estimates for the ongoing full fiscal year.

F2: Next fiscal year. This period is used to analyze the estimates for the next full fiscal year.

F12M: Forward 12 months. Using F12M figures is an effective way of analyzing the near-term (the following four unreported quarters) estimates in an annualized manner. Instead of typically representing estimates for the full fiscal year, which may not represent the nitty-gritty of each quarter, F12M figures suggest an all-inclusive annualized estimate for the following four quarters. The annualization helps neutralize the potential effects of seasonality and other quarter-to-quarter variations.

P/E Ratio: The price-to-earnings ratio measures a company's current market price per share relative to its earnings per share (EPS). Usually, the trailing-12-month (TTM) EPS, current-fiscal-year (F1) EPS estimate, or forward-12-month (F12M) EPS estimate is used as the denominator. In essence, this ratio shows what the market is willing to pay today for each dollar of EPS. In other words, this ratio gives a sense of what the relative value of the company is at the already reported level of earnings or at a future level of earnings.

It is one of the most widely-used multiples for determining the value of a company and helps comparing its valuation with that of a competitor, the industry group or a benchmark.

PEG Ratio: The price/earnings to growth ratio is a stock's P/E ratio using current fiscal year (F1) EPS estimate divided by its expected EPS growth rate over the coming 3 to 5 years. This ratio essentially determines a stock's value by factoring in the company's expected earnings growth and is thus believed to provide a more complete picture than just the P/E ratio, particularly for faster-growing companies.

P/S Ratio: The price-to-sales ratio is calculated as a company's current price per share divided by trailing 12 months (TTM) sales or revenues per share. This ratio shows what the market is willing to pay today for each dollar of TTM sales per share. The P/S ratio is at times the only valuation metric when the company has yet to become profitable.

Cash/Price Ratio: The cash-to-price ratio or Cash Yield is calculated as cash and marketable securities per share divided by the company's current share price. Like the earnings yield, which shows the anticipated yield (or return) on a stock from earnings for each dollar invested, the cash yield does the same, with cash being the source of return instead of earnings. For example, a cash/price ratio of 0.08 suggests a return of 8% or 8 cents for every \$1 investment.

EV/EBITDA Ratio: The EV/EBITDA ratio, also known as Enterprise Multiple, is calculated as a company's enterprise value (market capitalization + value of total long-term debt + book value of preferred shares - cash and marketable securities) divided by EBITDA (earnings before interest, taxes, depreciation and amortization). Usually, trailing-12-month (TTM) or forward-12-month (F12M) EBITDA is used as the denominator.

EV/Sales Ratio: The enterprise value-to-sales ratio is calculated as a company's enterprise value (market capitalization + value of total long-term debt + book value of preferred shares - cash and marketable securities) divided by annual sales. It is an expansion of the P/S valuation, which uses market value instead of enterprise value. The EV/Sales ratio is perceived as more accurate than P/S, in part, because the market capitalization does not take a company's debt into account when valuing it.

EV/CF Ratio: The enterprise value-to-cash flow ratio is calculated as a company's enterprise value (market capitalization + value of total long-term debt + book value of preferred shares - cash and marketable securities) divided by the trailing-12-month (TTM) operating cash flow. It's a measure of how long it would take to buy the entire business if you were able to use all the company's operating cash flow.

The EV/CF ratio is perceived as more accurate than the P/CF ratio, in part, because the market price does not take a company's debt into account when valuing it.

EV/FCF Ratio: The enterprise value-to-free cash flow metric compares a company's enterprise value to its trailing-12-month (TTM) free cash flow (FCF). This metric is very similar to the EV/CF ratio, but is considered a more exact measure owing to the fact that it uses free cash flow, which subtracts capital expenditures (CAPEX) from a company's total operating cash flow, thereby reflecting the actual cash flow available for funding growth activities and payments to shareholders.

P/EBITDA Ratio: The P/EBITDA ratio is calculated as a company's per share market value divided by EBITDA (earnings before interest, taxes, depreciation, and amortization). This metric is very similar to the EV/EBITDA ratio, but is considered a little less exact measure as it uses market price, which does not take a company's debt into account. However, since EBITDA is often considered a proxy for cash income, the metric is used as a measure of what the market is willing to pay today for each dollar of the company's cash profitability in the trailing 12 months (TTM) or forward 12 months (F12M).

P/B Ratio: The price-to-book ratio is calculated as a company's current price per share divided by its book value (total assets – liabilities – preferred stocks) per share. In short, the book value is how much a company is worth. In other words, it reflects the total value of a company's assets that its common shareholders would receive if it were to be liquidated. So, the P/B ratio indicates whether you're paying higher or lower than what would remain if the company went bankrupt immediately. Investors typically use this metric to determine how a company's stock price stacks up to its intrinsic value.

P/TB Ratio: The price-to-tangible-book value ratio is calculated as a the per share market value of a company divided by the value of its tangible assets (total assets – liabilities – preferred stocks – intangible assets) per share. Tangible book value is the same thing as book value except it excludes the value of intangible assets to get a step closer to the baseline value of the company.

P/CF Ratio: The price-to-cash flow ratio measures a company's per share market price relative to its trailing-12-month (TTM) operating cash flow per share. This metric is used to determine whether a company is undervalued or overvalued relative to another stock, industry or sector. And like the P/E ratio, a lower number is typically considered better from the value perspective.

One of the reasons why P/CF ratio is often preferred over P/E ratio is the fact that operating cash flow adds back non-cash expenses such as depreciation and amortization to net income. This feature helps valuing stocks that have positive cash flow but are not profitable because of large noncash charges.

P/FCF Ratio: The price-to-free cash flow ratio is an extension of P/CF ratio, which uses trailing-12-month (TTM) free cash flow per share instead of operating cash flow per share. This metric is considered a more exact measure than P/CF ratio, as free cash flow subtracts capital expenditures (CAPEX) from a company's total operating cash flow, thereby reflecting the actual cash flow available for funding activities that generate additional revenues.

Earnings Yield: The earnings yield is calculated as current fiscal year (F1) EPS estimate divided by the company's current share price. The ratio, which is the inverse of the P/E ratio, measures the anticipated yield (or return) from earnings for each dollar invested in a stock today.

For example, earnings yield for a stock, which is trading at \$35 and expected to earn \$3 per share in the current fiscal year (F1), would be 0.0857 ($3/35 = 0.0857$) or 8.57%. In other words, for \$1 invested in the stock today, the yield from earnings is anticipated to be 8.57 cents.

Investors most commonly compare the earnings yield of a stock to that of a broad market index (such as the S&P 500) and prevailing interest rates, such as the current 10-year Treasury yield. Since bonds and stocks compete for investors' dollars, stock investors typically demand a higher yield for the extra risk they assume compared to investors of U.S. Treasury-backed securities that offer virtually risk-free returns. This additional return is referred to as the risk premium.

Debt/Equity Ratio: The debt-to-equity ratio is calculated as a company's total liabilities divided by its shareholder equity. This metric is used to gauge a company's financial leverage. In other words, it is a measure of the degree to which a company is financing its operations through debt versus its own funds. The higher the ratio, the higher the risk for shareholders.

However, this ratio is difficult to compare across industry groups where ideal amounts of debt vary. Some businesses are more capital intensive than others and typically require higher debt to finance their operations. So, a company's debt-to-equity ratio should be compared with other companies in the same industry.

Cash Flow (\$/share): Cash flow per share is calculated as operating cash flow (after-tax earnings + depreciation + other non-cash charges) divided by common shares outstanding. It is used by many investors as a measure of a company's financial strength. Since cash flow per share takes into consideration a company's ability to generate cash by adding back non-cash expenses, it is regarded by some as a more accurate measure of a company's financial situation than earnings per share, which could be artificially deflated.

Current Ratio: The current ratio or liquidity ratio is a company's current assets divided by its current liabilities. It measures a company's ability to pay short-term obligations. A current ratio that is in line with the industry average or slightly higher is generally considered acceptable. A current ratio that is lower than the industry average would indicate a higher risk of distress or default. A higher number is usually better. However, a very high current ratio compared to the industry average could be an indication of inefficient use of assets by management.

Debt/Capital Ratio: Debt-to-capital ratio is a company's total debt (interest-bearing debt + both short- and long-term liabilities) divided its total capital (interest-bearing debt + shareholders' equity). It is a measure of a company's financial leverage. All else being equal, the higher the debt-to-capital ratio, the riskier the stock.

However, this ratio can vary widely from industry to industry, the ideal amount of required debt being different. Some businesses are more capital intensive than others and typically require higher debt to finance their operations. So, a company's debt-to-capital ratio should be compared with the same for its industry.

Net Margin: Net margin is calculated as net income divided by sales. It shows how much of each dollar in sales generated by a company translates into profit. For example, if a company's net margin is 15%, its net income is 15 cents for every \$1 of sales it makes.

A change in margin can reflect either a change in business conditions, or a company's cost controls, or both. If a company's expenses are growing faster than sales, its net margin will decline. However, different net margin rates are considered good for different industries, so it's better to compare net margin rates of companies in the same industry group.

Return on Equity: Return on equity (ROE) is calculated as trailing-12-month net income divided by trailing-12-month average shareholder equity (including reinvested earnings). This metric is considered a measure of how effectively management is using a company's assets to generate profits. For example, if a company's ROE is 10%, it creates 10 cents profits for every \$1 shareholder equity, which is basically the company's assets minus debt. A company's ROE deemed good or bad depends on what's normal for its peers or industry group.

Sales/Assets Ratio: The sales-to-assets ratio or asset utilization ratio or asset turnover ratio is calculated as a company's annual sales divided by average assets (average of assets at the beginning of the year and at the year's end). This metric helps investors understand how effectively a company is using its assets to generate sales. For example, a sales-to-assets ratio of 2.5 indicates that the company generated \$2.50 in sales for every \$1 of assets on its books.

The higher the sales-to-assets ratio, the better the company is performing. However, similar to many other ratios, the asset turnover ratio tends to be higher for companies in certain industries/sectors than in others. So, a company's sales-to-assets ratio should be compared with the same for its industry/sector.

Historical EPS Growth (3-5 Years): This is the average annual (trailing-12-month) EPS growth rate over the last 3-5 years. This metric helps investors see how a company's EPS has grown from a long-term perspective.

Note: There are many factors that can influence short-term numbers — a recession will reduce this number, while a recovery will inflate it. The longterm perspective helps smooth out short-term events.

Projected EPS Growth (F1/F0): This is the estimated EPS growth rate for the current financial year. It is calculated as the consensus estimate for the current fiscal year (F1) divided by the reported EPS for the last completed fiscal year (F0).

Current Cash Flow Growth: It measures the latest year-over-year change in operating cash flow. Cash flow growth tells an investor how quickly a company is generating inflows of cash from operations. A positive change in the cash flow is desired and shows that more 'cash' is coming in than going out.

Historical Cash Flow Growth (3-5 Years): This is the annualized change in cash flow over the last 3-5 years. The change in a longer period helps put the current reading into proper perspective. By looking at the rate, rather than the actual dollar value, the comparison across the industry and peers becomes easier.

Projected Sales Growth (F1/F0): This metric looks at the estimated sales growth for the current year. It is calculated as sales estimate for the current fiscal year (F1) divided by the reported sales for the last completed fiscal year (F0).

Like EPS growth, a higher rate is better for sales growth. A look at a company's projected sales growth instantly tells you what the outlook is for their products and services. However, different sales growth rates are considered good for different industries, so it's better to compare sales growth rates of companies in the same industry group.

EPS F1 Estimate 1-Week Change: The percentage change in the Zacks Consensus EPS estimate for the current fiscal year over the past week. The change in a company's consensus EPS estimate (or earnings estimate revision) has proven to be strongly correlated with the near-term price movement of its shares. It is an integral part of the Zacks Rank.

If a stock's consensus EPS estimate is \$1.10 now versus \$1.00 a week ago, that will be reflected as a 10% upward revision. If, on the other hand, it went from \$1.00 to 90 cents, that would be a 10% downward revision.

EPS F1 Estimate 4-Week Change: The percentage change in the Zacks Consensus EPS estimate for the current fiscal year over the past four weeks.

A stock's earnings estimate revision in a 1-week period is important. But it's more meaningful to look at the longer-term revision. And, of course, the 4-week change helps put the 1-week change into proper perspective.

EPS F1 Estimate 12-Week Change: The percentage change in the Zacks Consensus EPS estimate for the current fiscal year over the past 12 weeks.

This metric essentially shows how the consensus EPS estimate has changed over a period longer than 1 week or 4 weeks.

EPS Q1 Estimate Monthly Change: The percentage change in the Zacks Consensus EPS estimate for the current fiscal quarter over the past four weeks.

While the revision in consensus EPS estimate for the current fiscal year is strongly correlated with the near-term price movement of its shares, the estimate revision for the current fiscal quarter is an important metric as well, especially over the short term, and particularly as a stock approaches its earnings date. If a stock's Q1 EPS estimate decreases ahead of its earnings release, it's usually a negative sign, whereas an increase is a positive sign.