

Zynga Inc. (ZNGA)

\$10.58 (As of 06/17/21)

Price Target (6-12 Months): **\$11.00**

Long Term: 6-12 Months

Zacks Recommendation:

Neutral

(Since: 04/13/21)

Prior Recommendation: Underperform

Short Term: 1-3 Months

Zacks Rank: (1-5)

3-Hold

Zacks Style Scores:

VGM:C

Value: C

Growth: B

Momentum: F

Summary

Zynga has been benefiting from strength in live services, product introductions and growth in international markets. Robust performance of five popular franchises — *CSR Racing*, *Words With Friends*, *Zynga Poker*, *Empires & Puzzles* and *Merge Dragons!* — is driving the company's top line besides recent releases like *Farmville 3*. Moreover, acquisition of Peak and Rollic expands Zynga's mobile-gaming portfolio, which will drive prospects in the long haul. However, Zynga is losing opportunities in the rapidly growing e-sports market to the likes of Take Two Interactive and Activision Blizzard. Moreover, stiff competition from the likes of EA, NetEase Games and SciGames Interactive is an overhang. Shares have underperformed the industry year to date.

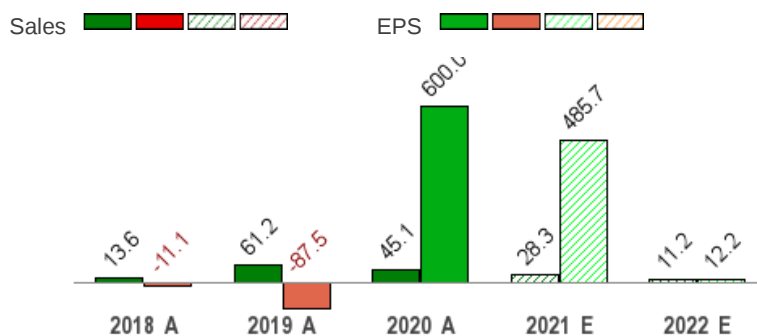
Price, Consensus & Surprise



Data Overview

52-Week High-Low	\$12.32 - \$7.77
20-Day Average Volume (Shares)	11,010,864
Market Cap	\$11.5 B
Year-To-Date Price Change	7.2%
Beta	0.10
Dividend / Dividend Yield	\$0.00 / 0.0%
Industry	Gaming
Zacks Industry Rank	Top 42% (106 out of 252)

Sales and EPS Growth Rates (Y/Y %)



Last EPS Surprise	-11.1%
Last Sales Surprise	4.9%
EPS F1 Estimate 4-Week Change	0.0%
Expected Report Date	08/04/2021
Earnings ESP	29.4%

Sales Estimates (millions of \$)

	Q1	Q2	Q3	Q4	Annual*
2022	773 E	791 E	811 E	847 E	3,239 E
2021	720 A	710 E	721 E	768 E	2,912 E
2020	425 A	518 A	628 A	699 A	2,270 A

EPS Estimates

	Q1	Q2	Q3	Q4	Annual*
2022	\$0.12 E	\$0.13 E	\$0.13 E	\$0.14 E	\$0.46 E
2021	\$0.08 A	\$0.09 E	\$0.09 E	\$0.10 E	\$0.41 E
2020	\$0.01 A	-\$0.01 A	-\$0.03 A	\$0.04 A	\$0.07 A

*Quarterly figures may not add up to annual.

P/E TTM	132.3
P/E F1	25.8
PEG F1	1.8
P/S TTM	5.1

The data in the charts and tables, including the Zacks Consensus EPS and sales estimates, is as of 06/17/2021. The report's text and the

analyst-provided price target are as of 06/18/2021.

Overview

Based in San Francisco, CA, Zynga Inc. is a leading developer, marketer, and publisher of social game services.

Zynga's gaming portfolio includes *CSR Racing 2*, *Empires & Puzzles*, *FarmVille*, *Merge Dragons!*, *Words With Friends*, *Mafia Wars*, *Zynga Poker* and *Treasure Isle*.

Zynga operates social games as live services, which means that it continues to support and update games after launch and gather daily, metrics-based player feedback that enables it to continually enhance games by adding new content and features.

The company publishes games on a number of global platforms including Facebook, MySpace, Yahoo, iPad, iPhone and Android devices.

Zynga earns revenues from the sale of advertisement-free versions of mobile games, virtual currency that players use to buy in-game virtual items, licensing and advertising services.

The company reported highest annual revenues of \$1.97 billion and record bookings of \$2.27 billion in 2020. International revenues contributed approximately 38.7% to total revenues.

In the mobile and social gaming market, Zynga competes with the likes of Glu Mobile, NetEase Games, SciGames Interactive and EA Mobile. The company also faces substantial competition from console and personal computer game publishers and diversified media companies including Sony, Microsoft, Nintendo, Activision Blizzard, Take-Two Interactive, THQ Ubisoft Time Warner and Viacom.

Zynga acquired Peak for \$1.85 billion in a deal that closed in July 2020, thereby adding Toon Blast and Toy Blast as new forever franchises to its live services portfolio.

Additionally, the company acquired 80% of Rollic for \$180 million in a deal that closed in October 2020. The acquisition marked the entry of Zynga into the hyper-casual gaming market with Rollic's hyper-casual portfolio.



Reasons To Buy:

- ▲ Zynga's growth is primarily driven by strength in its diversified portfolio of live services. Also known as forever franchises — *CSR Racing*, *Words With Friends*, *Zynga Poker*, *Empires & Puzzles*, *Merge Magic!* and *Merge Dragons!* — are the key growth drivers for the company. Moreover, contributions from new forever franchises — *Toy Blast* and *Toon Blast*, which Zynga got through the acquisition of Peak, are expected to aid player base expansion over the long haul.
- ▲ Zynga's expanding mobile gaming portfolio is expected to drive growth. Tremendous initial response from soft launches of games such as *Farmville 3* and *Merger Magic!* from Gram Games, *Puzzle Combat* from Small Giant Games and recent additions of *Toon Blast*, *Toy Blast* and Rollic's portfolio of hyper-casual games are positives. Markedly, mobile revenues contributed 96.2% of total revenues in 2020. The company reported record average mobile daily active users (DAUs) of 36 million and average mobile monthly active users (MAUs) of 134 million at the end of the fourth quarter of 2020.
- ▲ Zynga has been benefiting from acquisitions and partnerships. The company's stellar sales growth in 2020 can be attributed to two acquisitions. Zynga acquired Peak for \$1.85 billion in July 2020 and 80% of Rollic for \$180 million in a deal that closed in October, 2020. Rollic ended 2020 with three of the top 50 downloaded iPhone games in the United States — *Tangle Masters*, *Go Knots* and *Wood Shop*. So far in 2021, two of Rollic's new hyper-casual titles — *High Heels* and *Blob Runner 3D* each became the #1 top downloaded Android game position as well as the #1 and #2 top downloaded iPhone game positions in the United States. Moreover, Zynga introduced *Fast & Furious: Hobbs & Shaw* in partnership with Universal Games and Digital Platforms. Such key partnerships and continued featuring of exclusive content from automotive brands made *CSR2* a popular and engaging racing game.
- ▲ Zynga had cash and cash equivalents & short-term investments of approximately \$1.36 billion as of Mar 31, 2021 compared with \$1.57 billion as of Dec 31, 2020. The company's net cash of \$15 million on Mar 31, 2021 gives an indication that its debt level is manageable. The company continues to invest in developing its platform and products.

Zynga benefits from the popularity of *CSR Racing*, *Words With Friends* and *Merge Dragons!* franchises, expanding mobile gaming portfolio and global footprint.

Reasons To Sell:

- ▼ Active user addition is key to healthy growth of any gaming company. Zynga's top line is driven by increase in user spending rather than a growing player base, which is a concern.
- ▼ The video game industry is inherently hit driven. Though Zynga has a powerful line-up of games that can be repeatedly upgraded, there is no assurance that a particular game will be a hit. Moreover, the video game business is highly cyclical and heavily dependent on time-to-time upgrade/introduction of new game software and hardware systems. This keeps the margins under pressure.
- ▼ Zynga is losing opportunities in the rapidly growing e-sports market to the likes of Take Two Interactive and Activision Blizzard. With continued increase in viewership, corporate sponsorships and growing media coverage, e-sports is here to stay. Per the latest report from Newzoo, the e-sports industry is expected to reach \$1.8 billion by 2022.
- ▼ The video game publishing industry is intensely competitive. Zynga faces stiff competition from mobile and social gaming peers like NetEase Games, SciGames Interactive and EA Mobile. The company also faces substantial competition from console and personal computer game publishers and diversified media companies including Nintendo, Activision Blizzard and Take-Two Interactive. The resultant pressure could tell on margins and also lead to market share losses. On the other hand, continued investment in the digital market may also hurt its profitability in the near term.

The video game industry is inherently hit driven and highly competitive. Zynga faces significant competition from the likes of Take Two Interactive and Activision Blizzard.

Last Earnings Report

Zynga Incurs Loss in Q1 Despite Y/Y Top-Line Growth

Zynga reported a loss of 2 cents per share in first-quarter 2021 which was narrower than loss of 11 cents reported in the year-ago quarter.

Revenues surged 68.5% year over year to \$680.3 million on broad-based strength in live services with stronger-than-anticipated performances by Rollic's hyper-casual portfolio, *Toon Blast*, *Harry Potter: Puzzles & Spells* and *Toy Blast*.

The Zacks Consensus Estimate for earnings and revenues was pegged at 9 cents per share and \$686 million, respectively.

Total bookings came in at \$720 million, up 69.4% year on year on strong mobile bookings. The consensus mark for bookings was pegged at \$687 million.

Quarter Details

Zynga's online game or user pay revenues (81.9% of total revenues) jumped 61.7% year over year to \$557 million.

In addition, Advertising revenues (18.1% of total revenues) and advertisement bookings (17.1% of total bookings) climbed 107.8% year over year to \$123.2 million, each. This upswing in advertising revenues was driven by the year-over-year addition of Rollic's hyper-casual portfolio as well as strong advertising yields in the period.

Mobile revenues (97.1% of total revenues) and mobile bookings increased 11% and 71.3% year over year to \$660.7 million and \$699.6 million, respectively. These increases were driven by robust live services performance.

On a geographic basis, revenues from the United States (60.6% of total revenues) grew 69.5% year over year to \$412 million.

Also, International revenues (39.4% of total revenues) surged 66.5% to \$268 million on impressive growth in Asia.

User Base Details

In the first quarter, user pay bookings were \$596 million, up 63% year over year.

Zynga's average mobile daily active users (DAUs) surged 85% year over year to 38 million.

Further, average mobile monthly active users (MAUs) soared 139% year over year to 164 million in the reported quarter.

The solid uptick in user count was primarily driven by contributions from *Toon Blast*, *Toy Blast* and Rollic's hyper-casual game portfolio.

Average mobile daily bookings per average mobile DAU (ABPU) declined 6% year over year to 20 cents.

Operating Details

GAAP gross margin, as a percentage of revenues, declined to 62% from the year-ago quarter's 64% on higher net increase in deferred revenues and amortization of acquired intangible assets.

Non-GAAP operating expenses (52% of total revenues) flared up 69.7% year over year to \$353.6 million in the reported quarter, chiefly on higher marketing investments.

Non-GAAP research & development (R&D), general & administrative (G&A) and sales & marketing (S&M) expenses shot up 23.9%, 23.8% and 104.2%, year over year, to \$83 million, \$26 million and \$245 million, respectively.

Adjusted EBITDA came in at \$123.1 million compared with the year-earlier quarter's \$68.5 million.

Balance Sheet

As of Mar 31, 2021, Zynga had cash, cash equivalents & short-term investments of \$1.36 billion compared with \$1.57 billion as of Dec 31, 2020.

Cash flow used by operating activities in first-quarter 2021 was \$163.7 million compared with \$205.9 million provided in fourth-quarter 2020. Free cash flow was (\$165.4) million in the first quarter compared with the previous quarter's \$203.2 million.

Guidance

For second-quarter 2021, Zynga expects revenues of \$675 million and bookings of \$710 million, up 49% and 37% year over year, respectively. Adjusted EBITDA is projected at \$115 million, while loss is expected to be 3 cents per share.

Quarter Ending	03/2021
Report Date	May 05, 2021
Sales Surprise	4.91%
EPS Surprise	-11.11%
Quarterly EPS	0.08
Annual EPS (TTM)	0.08

For 2021, the company expects to deliver revenues of \$2.7 billion, indicating growth of 37% year over year. Bookings are expected at \$2.9 billion, indicating growth of 28% year over year.

Adjusted EBITDA is estimated at \$450 million and loss is predicted to be 12 cents per share.

The company expects continued momentum in the live services portfolio along with contributions from game launches will be a major growth driver. Also, steady demand for *Harry Potter: Puzzles & Spells* as well as Rollic's hyper-casual games is anticipated to boost player engagement for Zynga's live services platform.

However, per the company, declines in older mobile and web game users might partially offset revenue growth in 2021.

Note: *The EPS data mentioned in the text of this section differs from the rest of report due to the difference in calculation or consideration of one-time items.*

Recent News

On May 5, Zynga announced that it has entered into a definitive agreement to acquire Chartboost, a leading mobile programmatic advertising and monetization platform.

On Apr 8, Zynga announced the worldwide launch of *Puzzle Combat*, a new mobile match-3 action role-playing game (RPG) where players recruit heroes, build bases and compete in player-vs-player (PvP) battles in a zombie-themed setting. *Puzzle Combat* has been developed by Helsinki-based Small Giant Games, a subsidiary of Zynga Inc. and the studio behind the hit game *Empires & Puzzles*.

On Mar 3, Zynga announced that it has acquired Echtra Games, a cross-platform game studio. The Echtra Games team is expected to strengthen Zynga's cross-platform play future by adding talented developers with extensive cross-platform play experience as well as proprietary cross-platform development tools and technologies that have been built on top of the Unreal Engine.

On Jan 19, 2021 Zynga announced the launch of award-winning mobile game, Harry Potter: Puzzles & Spells in South Korea. The game features more than 1,000 magic-infused Match-3 puzzles inspired by the story of Harry Potter and the wizarding world.

Valuation

Zynga's shares are up 7.2% in the year-to-date period and 13.8% over the trailing 12-month period. Stocks in the Zacks sub-industry are up 12.4% while the same in the Zacks Consumer Discretionary sector are down 1.6% in the year-to-date period, respectively. Over the past year, the Zacks sub-industry and the sector are up 54.6% and 28.8%, respectively.

The S&P 500 index is up 13.2% in the year-to-date period and 38.4% in the past year.

The stock is currently trading at 3.76X forward 12-month sales, which compares to 4.77X for the Zacks sub-industry, 2.66X for the Zacks sector and 4.7X for the S&P 500 index.

Over the past five years, the stock has traded as high as 5.59X and as low as 2.55X, with a 5-year median of 3.51X. Our Neutral recommendation indicates that the stock will perform in-line with the market. Our \$11 price target reflects 3.95X forward 12-month sales.

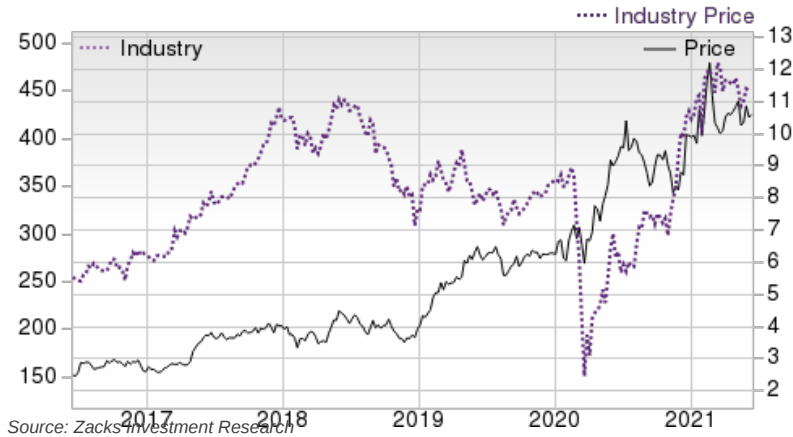
The table below shows summary valuation data for ZNGA

Valuation Multiples - ZNGA					
		Stock	Sub-Industry	Sector	S&P 500
P/S F12M	Current	3.76	4.77	2.66	4.7
	5-Year High	5.59	5.08	2.94	4.74
	5-Year Low	2.55	1.63	1.73	3.21
	5-Year Median	3.51	2.76	2.52	3.72
P/B TTM	Current	3.92	7.84	3.78	7.03
	5-Year High	6.47	9.36	4.89	7.08
	5-Year Low	1.21	1.92	2.25	3.84
	5-Year Median	2.29	4.21	4.02	5.02
EV/Sales TTM	Current	4.46	9.56	3.76	4.84
	5-Year High	6.01	10.28	4.15	4.88
	5-Year Low	1.52	1.8	2.29	2.65
	5-Year Median	3.48	3.75	3.43	3.64

As of 06/17/2021

Source: Zacks Investment Research

Industry Analysis Zacks Industry Rank: Top 42% (106 out of 252)



Top Peers

Company (Ticker)	Rec	Rank
Facebook, Inc. (FB)	Outperform	2
Microsoft Corporation (MSFT)	Outperform	3
Activision Blizzard, Inc. (ATVI)	Neutral	3
Electronic Arts Inc. (EA)	Neutral	3
JAKKS Pacific, Inc. (JAKK)	Neutral	2
Nintendo Co. (NTDOY)	Neutral	3
Tencent Holding Ltd. (TCEHY)	Underperform	5
TakeTwo Interactive Software, Inc. (TTWO)	Underperform	4

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

Industry Comparison Industry: Gaming				Industry Peers		
	ZNGA	X Industry	S&P 500	ATVI	EA	TTWO
Zacks Recommendation (Long Term)	Neutral	-	-	Neutral	Neutral	Underperform
Zacks Rank (Short Term)	3	-	-	3	3	4
VGM Score	C	-	-	C	D	D
Market Cap	11.52 B	2.38 B	29.66 B	72.41 B	40.62 B	19.72 B
# of Analysts	8	3	12	13	12	20
Dividend Yield	0.00%	0.00%	1.35%	0.50%	0.48%	0.00%
Value Score	C	-	-	C	D	C
Cash/Price	0.13	0.12	0.05	0.12	0.15	0.15
EV/EBITDA	-48.67	18.72	16.95	21.19	30.16	18.06
PEG F1	1.76	1.46	2.09	1.35	3.26	3.93
P/B	3.91	4.62	4.06	4.72	5.21	5.89
P/CF	96.49	24.55	17.27	24.21	27.11	20.45
P/E F1	25.34	25.56	20.99	24.68	22.11	37.53
P/S TTM	5.12	3.91	3.39	8.45	7.22	5.85
Earnings Yield	3.88%	0.43%	4.65%	4.06%	4.52%	2.66%
Debt/Equity	0.44	0.41	0.66	0.24	0.24	0.00
Cash Flow (\$/share)	0.11	0.19	6.83	3.85	5.24	8.34
Growth Score	B	-	-	C	D	C
Historical EPS Growth (3-5 Years)	NA%	-9.28%	9.44%	12.24%	11.23%	45.76%
Projected EPS Growth (F1/F0)	485.71%	75.89%	21.49%	8.82%	11.43%	-35.92%
Current Cash Flow Growth	386.97%	-14.69%	0.99%	37.96%	-3.14%	46.95%
Historical Cash Flow Growth (3-5 Years)	31.03%	2.49%	7.28%	15.86%	6.95%	21.77%
Current Ratio	1.29	2.39	1.39	3.43	2.43	1.89
Debt/Capital	30.69%	35.19%	41.51%	19.04%	19.31%	0.00%
Net Margin	-15.48%	-9.15%	11.95%	26.95%	14.87%	17.46%
Return on Equity	-1.33%	-3.89%	16.48%	18.18%	16.74%	25.16%
Sales/Assets	0.43	0.37	0.51	0.39	0.46	0.58
Projected Sales Growth (F1/F0)	28.29%	28.29%	9.41%	4.47%	15.68%	-5.79%
Momentum Score	F	-	-	C	F	F
Daily Price Change	2.82%	-0.06%	-0.04%	-0.92%	-0.47%	-0.67%
1-Week Price Change	0.57%	1.07%	-0.41%	1.35%	0.81%	1.07%
4-Week Price Change	1.15%	0.53%	1.51%	-3.50%	0.08%	-7.88%
12-Week Price Change	7.74%	-2.19%	7.99%	2.58%	9.15%	0.42%
52-Week Price Change	14.75%	62.57%	35.52%	22.60%	9.73%	20.71%
20-Day Average Volume (Shares)	11,010,864	241,892	1,771,802	4,100,231	1,832,062	1,171,757
EPS F1 Estimate 1-Week Change	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
EPS F1 Estimate 4-Week Change	0.00%	0.00%	0.03%	0.00%	-0.65%	-0.82%
EPS F1 Estimate 12-Week Change	4.46%	4.46%	3.37%	-0.34%	4.03%	-29.11%

Past performance is no guarantee of future results. Please see important disclosures and definitions at the end of this report.

EPS Q1 Estimate Monthly Change	4.17%	0.00%	0.00%	0.00%	-2.29%	1.18%
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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	B
Momentum Score	F
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.

Disclosures

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ZIR uses the following rating system for the securities it covers. **Outperform-** ZIR expects that the subject company will outperform the broader U.S. equities markets over the next six to twelve months. **Neutral-** ZIR expects that the company will perform in line with the broader U.S. equities markets over the next six to twelve months. **Underperform-** ZIR expects the company will underperform the broader U.S. equities markets over the next six to twelve months.

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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 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.