

Jazz Pharmaceuticals (JAZZ)

\$177.22 (As of 06/21/21)

Price Target (6-12 Months): **\$150.00**

Long Term: 6-12 Months

Zacks Recommendation: Underperform

(Since: 06/21/21)

Prior Recommendation: Neutral

Short Term: 1-3 Months

Zacks Rank: (1-5)

5-Strong Sell

Zacks Style Scores:

VGM:A

Value: B

Growth: A

Momentum: F

Summary

Jazz reported mixed results for first-quarter 2021, wherein earnings beat estimates but revenues missed the same. Jazz has a strong sleep portfolio with three marketed drugs including Xyrem that generates majority of the sales. Moreover, a low-sodium formulation of Xyrem, Xywav has shown robust uptake since its launch in 2020. Xywav and other new drugs are likely to reduce dependence of Jazz on Xyrem, which is set to face generic competition in 2023. Moreover, cancer drugs are bringing additional revenues. Meanwhile, acquisition of GW Pharmaceuticals adds a third high-growth commercial franchise to Jazz's business. However, Jazz is set to lose Erwinaze sales from the second half of 2021 as its supplier has signed a new partner for its commercialization. Moreover, any pipeline setback will hamper the company's prospects going forward.

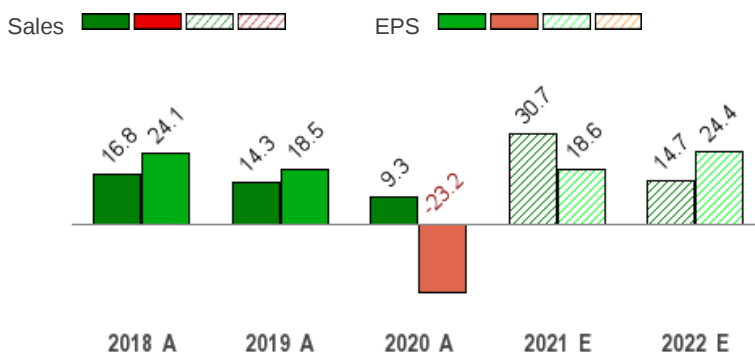
Price, Consensus & Surprise



Data Overview

52-Week High-Low	\$189.00 - \$103.46
20-Day Average Volume (Shares)	678,445
Market Cap	\$10.1 B
Year-To-Date Price Change	7.4%
Beta	1.05
Dividend / Dividend Yield	\$0.00 / 0.0%
Industry	Medical - Drugs
Zacks Industry Rank	Bottom 9% (230 out of 252)

Sales and EPS Growth Rates (Y/Y %)



Last EPS Surprise	6.2%
Last Sales Surprise	0.2%
EPS F1 Estimate 4-Week Change	-8.6%
Expected Report Date	08/03/2021
Earnings ESP	-6.9%

Sales Estimates (millions of \$)

	Q1	Q2	Q3	Q4	Annual*
2022	672 E	700 E	720 E	728 E	3,545 E
2021	608 A	726 E	811 E	866 E	3,090 E
2020	535 A	562 A	601 A	666 A	2,364 A

EPS Estimates

	Q1	Q2	Q3	Q4	Annual*
2022	\$3.61 E	\$4.12 E	\$4.54 E	\$4.87 E	\$18.39 E
2021	\$3.92 A	\$3.70 E	\$3.37 E	\$3.73 E	\$14.78 E
2020	\$0.45 A	\$3.71 A	\$4.31 A	\$4.00 A	\$12.46 A

*Quarterly figures may not add up to annual.

P/E TTM	11.1
P/E F1	12.0
PEG F1	1.1
P/S TTM	4.1

The data in the charts and tables, except sales and EPS estimates, is as of 06/21/2021. The report's text, and the analyst-provided sales

estimates, EPS estimates and price target are as of 06/22/2021.

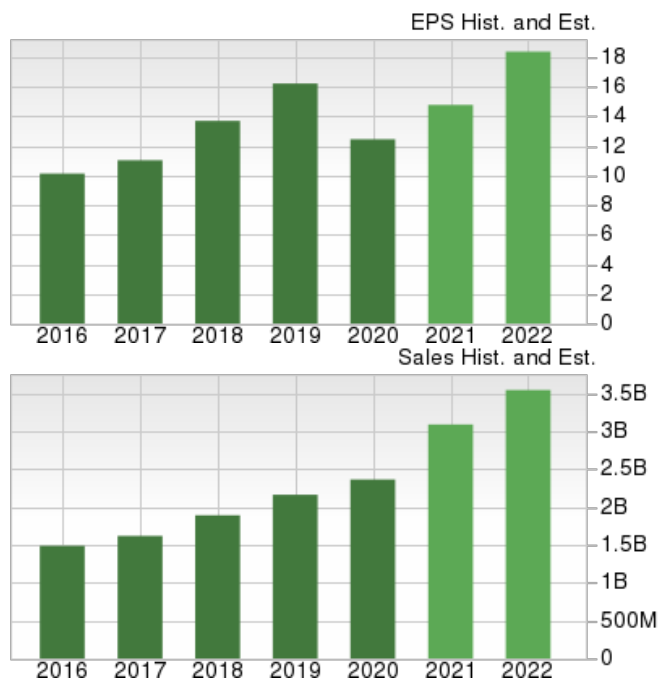
Overview

Dublin, Ireland-based Jazz Pharmaceuticals is a specialty biopharmaceutical company with a focus in the areas of sleep and hematology/oncology. Key drugs include Xyrem for cataplexy and excessive daytime sleepiness (EDS) in narcolepsy patients, Erwinaze for acute lymphoblastic leukemia (ALL) patients who have developed hypersensitivity to E.coli-derived asparaginase, Defitelio for the treatment of patients with hepatic veno-occlusive disease (VOD) with renal or pulmonary dysfunction following hematopoietic stem cell transplantation (HSCT) and Vyxeos for the treatment of adults with two types of acute myeloid leukemia (AML) and Sunosi (solriamfetol) for excessive sleepiness in narcolepsy & obstructive sleep apnea (OSA).

The company launched two drugs, Zepzelca and Xywav in 2020 boosting its commercial portfolio. While Zepzelca (lurbinectedin) received approval for metastatic small cell lung cancer (SCLC) in June 2020, Xywav was approved for cataplexy and EDS in July 2020. Meanwhile, the company also has a few pipeline candidates in its portfolio.

Jazz has also bolstered its commercial portfolio and pipeline through acquisitions. Jazz added Sunosi to its sleep franchise with acquisition of Aerial BioPharma in 2014. In 2021, the company acquired GW Pharmaceuticals boosting its neuroscience portfolio. Others acquisitions added of marketed drugs – Defitelio, Vyxeos and Erwinaze. Addition of oncology drugs also diversified the company's product portfolio.

The company generates the majority of its revenues from Xyrem sales. The drug registered sales of \$1.74 billion in 2020, up 6% from 2019 and generated almost 74% of total revenues, in 2019. Full-year sales for the company rose 9% year over year to \$2.36 billion in 2020.



Reasons To Sell:

▼ **Regulation on Xyrem and Competition:** Xyrem is a controlled substance with a highly restricted distribution channel subject to a risk evaluation and mitigation strategy (REMS). In February 2015, the FDA approved Jazz's Xyrem REMS requiring distribution through a single pharmacy. Single pharmacy can put pressure on patient access as well as the overall healthcare delivery system. Moreover, the FDA plans to evaluate the Xyrem REMS on an ongoing basis and reserves the rights to make modifications if required, which can either lower entry barriers for companies looking to market generic versions of Xyrem or make it more expensive or difficult to market the drug.

The anticipated loss of Erwinaze sales will hurt topline. Any pipeline setback would weigh heavily on the stock.

Jazz had been involved in patent infringement lawsuits with generic drug makers for Xyrem. Several generic versions of Xyrem may hit the market in 2023. Launch of Xyrem's generic will unfavorably impact sales of the company's major drug. Although Xywav and other new drugs are reducing dependence on Xyrem, the drug still generates more than half of total revenues. Any setback to Xyrem will severely impact the company's top-line and weigh on share price. Moreover, the market for EDS in patients with narcolepsy is highly competitive, given the presence of Teva's Nuvigil and generic versions of Provigil, among others. Moreover, other companies are also developing treatments for similar indication including Avadel Pharmaceuticals' sodium oxybate formulation, FT-218, and Axsome Therapeutics' reboxetine.

▼ **Erwinaze Supply Constraints:** In the last three years, Jazz faced supply constraints for Erwinaze due to supply and manufacturing issues at the sole manufacturer, Porton Biopharma. Supply disruptions to continue in 2021. Moreover, in February 2019, Jazz received termination notice from Porton Biopharma related to license and supply of Erwinaze, which expired in 2020. Jazz expects to be able to sell Erwinaze only in the first half of 2021 with certain Erwinaze inventory allowed under the agreement post termination. Meanwhile, Proton Biopharma has signed an agreement with a new partner to commercialize and distribute Erwinaze. This is likely to hamper Jazz's top-line going forward as it may not include Erwinaze sales.

▼ **Pipeline Setbacks:** Jazz has had its share of pipeline setbacks. In December 2020, a combination regimen of Zepzelca failed in a phase II/III SCLC study. The company discontinued enrollment in the study evaluating Defitelio for the prevention of VOD in high-risk patients in April 2020 as it was highly unlikely that it will reach its primary endpoint. Although solriamfetol achieved improvement in patients in a phase II study evaluating it in EDS and Parkinson's disease, the company discontinued further development in May 2019.

In January 2016, the company terminated a phase II pivotal study on JZP-416 due to the occurrence of hypersensitivity-like reactions in patients suffering from ALL who are hypersensitive to pegylated E. coli-derived asparaginase. In addition to this, the company terminated a study evaluating Erwinaze in patients (18 to 39 years) suffering from ALL who are hypersensitive to E. coli-derived asparaginase due to its inability to enroll patients. Moreover, the company along with its partner Concert Pharmaceuticals decided not to move sleep disorder candidate, JZP-386, into the next stage of development following phase I study results.

Risks

- **Strong Sleep Disorder Portfolio:** Jazz's sleep disorder portfolio looks strong with availability of three commercialized drug — Xyrem, Sunosi and Xywav — and several ongoing and planned development activities in the sleep therapeutic area.

Xyrem, the company's first marketed drug, has demonstrated its immense commercial potential in its targeted indication of both cataplexy and EDS. The drug is a major revenue generator for the company. In 2019, Sunosi (solriamfetol) received approval in the United States for excessive sleepiness in narcolepsy & OSA. The drug has shown encouraging demand trend along with improved coverage. The drug was approved in Europe for a similar indication in 2020. The company plans to develop Sunosi as a potential treatment for EDS in other sleep or central nervous system disorders, including major depressive disorder (MDD).

Xywav was approved by the FDA in July 2020 for EDS and cataplexy in narcolepsy patients. Moreover, a supplemental new drug application (sNDA) is under review in the United States, seeking label expansion in idiopathic hypersomnia (IH). A potential approval is expected by Aug 12, 2021.

- **Oncology Drugs Add Strong Growth and Diversification:** Apart from a strong sleep disorder, Jazz also has three marketed oncology drugs in its portfolio, which were internally developed or added through acquisitions. The company is also developing a few new oncology candidates and is also focused on expanding the labels of marketed drugs — Defitelio, Vyxeos and Erwinaze. These products bring additional revenues as well as diversify Jazz's marketed portfolio. The marketed oncology drugs generated almost 30% of the product revenues in the first quarter of 2021. Successful label expansion and new drug development will further boost revenues.

A mid-stage study is evaluating Defitelio for the prevention of CAR T-cell associated neurotoxicity in patients with relapsed or refractory DLBCL. The company is also developing the drug as a potential treatment for the prevention of acute graft versus host disease (aGVHD). In March 2021, the FDA approved Vyxeos label expansion to include pediatric AML patients. Meanwhile, Jazz is also evaluating Vyxeos in other AML patient populations, such as adults with standard or intermediate risk AML, in combination with targeted AML treatments and in new populations (myelodysplastic syndromes, or MDS).

In June 2020, Zepzelca received accelerated approval for treating relapsed small cell lung cancer (SCLC). In December 2020, Jazz initiated submission of a biologics license application to the FDA for approval of JZP-458 for the treatment of acute lymphoblastic leukemia (ALL) and lymphoblastic lymphoma. The company expects to launch JZP-458 in ALL later in 2021.

Last Earnings Report

Jazz Pharmaceuticals Q1 Earnings Beat, Sales Miss

Jazz Pharmaceuticals delivered adjusted earnings of \$3.92 per share for the first quarter of 2021, beating the Zacks Consensus Estimate of \$3.69. The company had reported earnings of 45 cents in the year-ago quarter.

Total revenues in the reported quarter rose 13.6% year over year to \$607.6 million. However, sales missed the Zacks Consensus Estimate of \$613.0 million.

Net product sales increased 13.8% from the year-ago quarter to \$603.5 million driven mainly by recently launched products, Xywav and Zepzelca. Please note that 23% of Jazz's net product sales in the quarter came from newly launched products.

Royalties and contract revenues declined 10.4% to \$4.1 million in the quarter.

Neuroscience Products

Sales of neuroscience products increased 3% to \$422.6 million driven by the launch of Xywav in November 2020.

Net product sales for the combined oxybate business (Xyrem + Xywav) increased 1% to \$411.0 million in the first quarter of 2021.

Sales of Xyrem declined 18% year over year to \$335.6 million due to patient switching to Xywav.

Xywav recorded sales of \$75.4 million in the quarter compared with \$15.3 million in the previous quarter. At the end of the first quarter, Jazz had approximately 3,900 active Xywav patients. This is up from approximately 1,900 at the end of the year.

Another new drug, Sunosi recorded sales of \$11.6 million in the quarter, higher than \$8.7 million in the previous quarter driven by recent demand and growth trends.

Oncology Products

Oncology product sales increased 51% to \$178.2 million driven by strong Zepzelca sales and higher Defitelio and Vyxeos sales.

Vyxeos generated sales of \$33.2 million, up 1% from the year-ago period driven by ongoing commercial activities and expansion into new international markets.

Newly launched Zepzelca (lurbinectedin) recorded sales of \$54.3 million in the first quarter compared with \$53.4 million in the previous quarter.

The drug witnessed significant patient growth and uptake across both community and academic settings and in both platinum sensitive and platinum resistant SCLC patients.

Erwinaze/Erwinase revenues were \$41.1 million, up 9% year over year.

Defitelio sales increased 5% to \$49.6 million in the quarter.

Other product sales rose 10.3% to \$2.8 million.

Cost Discussion

Adjusted selling, general and administrative (SG&A) expenses rose 21.6% to \$228.4 million due to higher expenses for multiple product launches and expansion of the commercial operations.

Adjusted research and development (R&D) expenses declined 14.8% to \$67.9 million due to lower expenses related to pipeline development.

Quarter Ending	03/2021
Report Date	May 04, 2021
Sales Surprise	0.16%
EPS Surprise	6.23%
Quarterly EPS	3.92
Annual EPS (TTM)	15.94

Recent News

Provides Updated Guidance for 2021 – Jun 17

Jazz announced revised guidance for revenues and earnings in 2021 following completion of acquisition of GW Pharmaceuticals. The company expects its revenues to be in the range of \$3.02 billion to \$3.18 billion, compared to previous guidance of \$2.55-\$2.70 billion. The company, however, reduced its expectation for 2021 adjusted earnings to the range of \$13.40-\$14.70 per share from \$15.65 - \$16.85.

Total product sales are anticipated in the range of \$3.01-\$3.17 billion, up from the range of \$2.55-\$2.70 billion. Neuroscience sales are expected in the range of \$2.26 billion to \$2.36 billion, compared to previous range of \$1.79 billion to \$1.89 billion. The Oncology franchise is expected to record sales of \$715 million to \$835 million, same as previous guidance.

Adjusted SG&A expenses are anticipated in the range of \$1.12 billion to \$1.18 billion, increasing from previous guidance of \$905-\$945 million. Adjusted R&D expenses are expected to be in the band of \$500 million to \$540 million, increasing from previous guidance of \$330 million to \$370 million.

Completes GW Pharmaceuticals Acquisition – May 5

Jazz announced that it has completed its previously announced acquisition of British cannabinoid drug company, GW Pharmaceuticals. The combined company will be a leader in neuroscience with a global commercial and operational footprint.

FDA Accepts Xywav Label Expansion Application – Apr 12

Jazz announced that the FDA has accepted its supplemental New Drug Application for Xywav seeking label expansion in IH patients. The FDA has also granted priority review and a decision is expected by Aug 12, 2021.

Vyxeos Gets FDA Nod for Pediatric Leukemia – Mar 30

Jazz announced that the FDA has granted approval to label expansion of its leukemia drug, Vyxeos, in pediatric patients aged one to 21 years. The drug is now approved to treat adult as well as paediatric patients with newly-diagnosed therapy-related acute myeloid leukemia (t-AML) or AML with myelodysplasia-related changes (AML-MRC).

The label expansion of the drug was supported by data from two single-arm clinical studies conducted separately by Children's Oncology Group and Cincinnati Children's Hospital as well as data on effectiveness of Vyxeos from previously completed clinical studies in adult patients.

Valuation

Jazz's shares are up 7.4% in the year-to-date period and 55.4% over the trailing 12-month period. Stocks in the Zacks sub-industry and sector are down 9.8% and 0.1%, in the year-to-date period. Over the past year, Zacks sub-industry and sector are down 12.5% and up 1.9%, respectively

The S&P 500 Index is up 11.8% in the year-to-date period and 35% in the past year.

The stock is currently trading at 4.256X trailing 12-month sales per share which compares to 2.24X for the Zacks sub-industry, 3.12X for the Zacks sector and 5.15X for the S&P 500 Index.

Over the past five years, the stock has traded as high as 6.76X and as low as 2.32X, with a 5-year median of 4.4X. Our Underperform recommendation indicates that the stock will perform worse than the market. Our \$150.00 price target reflects 3.6X trailing 12-month sales per share.

The table below shows summary valuation data for JAZZ.

Valuation Multiples - JAZZ					
		Stock	Sub-Industry	Sector	S&P 500
P/S TTM	Current	4.25	2.24	3.12	5.15
	5-Year High	6.76	4.38	3.67	5.26
	5-Year Low	2.32	1.76	2.42	2.83
	5-Year Median	4.4	2.5	3.24	3.94
P/B TTM	Current	2.66	1.67	4.43	6.93
	5-Year High	5.46	13.6	5.05	7.08
	5-Year Low	1.6	1.04	3.03	3.84
	5-Year Median	2.94	2.25	4.35	5.02

As of 06/21/2021

Source: Zacks Investment Research

Industry Analysis Zacks Industry Rank: Bottom 9% (230 out of 252)



Top Peers

Company (Ticker)	Rec	Rank
Alkermes plc (ALKS)	Neutral	3
Alexion Pharmaceuticals, Inc. (ALXN)	Neutral	3
Avadel Pharmaceuticals PLC. (AVDL)	Neutral	3
BioMarin Pharmaceutical Inc. (BMRN)	Neutral	3
Endo International plc (ENDP)	Neutral	3
Horizon Therapeutics Public Limited Company (HZNP)	Neutral	3
Incyte Corporation (INCY)	Neutral	3
Ionis Pharmaceuticals, Inc. (IONS)	Neutral	3

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

Industry Comparison Industry: Medical - Drugs				Industry Peers		
	JAZZ	X Industry	S&P 500	ALKS	ALXN	BMRN
Zacks Recommendation (Long Term)	Underperform	-	-	Neutral	Neutral	Neutral
Zacks Rank (Short Term)	5	-	-	3	3	3
VGM Score	A	-	-	D	A	D
Market Cap	10.08 B	210.80 M	29.97 B	3.97 B	39.93 B	14.76 B
# of Analysts	11	3	12	8	5	9
Dividend Yield	0.00%	0.00%	1.35%	0.00%	0.00%	0.00%
Value Score	B	-	-	C	A	C
Cash/Price	0.24	0.25	0.06	0.14	0.09	0.07
EV/EBITDA	13.39	-4.21	17.02	-618.08	12.71	159.04
PEG F1	1.10	0.99	2.08	1.32	0.87	2.21
P/B	2.66	3.56	4.11	3.78	3.21	3.55
P/CF	10.47	12.53	17.39	65.26	7.92	64.23
P/E F1	11.99	15.96	20.94	49.98	13.01	70.23
P/S TTM	4.14	8.65	3.39	3.80	6.38	8.00
Earnings Yield	8.34%	-14.20%	4.67%	2.02%	7.68%	1.42%
Debt/Equity	0.49	0.00	0.66	0.28	0.19	0.26
Cash Flow (\$/share)	16.93	-0.55	6.83	0.38	22.82	1.26
Growth Score	A	-	-	C	A	D
Historical EPS Growth (3-5 Years)	13.95%	8.02%	9.59%	NA	31.63%	NA
Projected EPS Growth (F1/F0)	18.64%	14.69%	21.57%	15.12%	10.98%	-31.14%
Current Cash Flow Growth	-24.95%	6.06%	0.99%	-34.13%	93.08%	99.42%
Historical Cash Flow Growth (3-5 Years)	7.35%	4.77%	7.28%	23.97%	34.21%	31.04%
Current Ratio	4.21	4.43	1.39	2.75	4.52	5.32
Debt/Capital	32.79%	0.09%	41.51%	21.90%	16.12%	20.54%
Net Margin	21.27%	-117.16%	11.95%	-9.06%	10.89%	43.11%
Return on Equity	22.95%	-52.29%	16.48%	-0.15%	23.43%	2.77%
Sales/Assets	0.38	0.28	0.51	0.56	0.35	0.32
Projected Sales Growth (F1/F0)	24.90%	2.39%	9.41%	10.27%	10.43%	-1.57%
Momentum Score	F	-	-	F	F	D
Daily Price Change	-0.03%	0.00%	1.40%	1.31%	-0.02%	-1.39%
1-Week Price Change	-4.78%	-2.08%	-0.71%	-2.44%	-0.53%	-0.21%
4-Week Price Change	-0.97%	0.87%	0.66%	11.74%	1.47%	4.14%
12-Week Price Change	5.79%	-6.57%	6.39%	29.77%	16.13%	7.14%
52-Week Price Change	57.07%	4.97%	35.50%	31.11%	54.52%	-33.99%
20-Day Average Volume (Shares)	678,445	253,095	1,885,424	1,717,717	1,819,414	841,457
EPS F1 Estimate 1-Week Change	-6.66%	0.00%	0.00%	0.00%	0.00%	0.00%
EPS F1 Estimate 4-Week Change	-8.56%	0.00%	0.01%	0.00%	0.00%	0.00%
EPS F1 Estimate 12-Week Change	-15.82%	-2.86%	3.59%	53.76%	9.23%	-30.48%

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	-5.45%	0.00%	0.00%	-25.00%	0.00%	0.00%
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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	B
Growth Score	A
Momentum Score	F
VGM Score	A

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 mediumterm 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 mostrecent 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.