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## INDEXES

(Close as of: 6/8/01)

| DJIA: | 10977.00 |
| :--- | :--- |
| S\&P 500: | 1264.96 |
| NASDAQ: | 2215.10 |
| S\&P 400: | 531.61 |
| S\&P 600: | 231.04 |



## THE ECONOMY - The Week In Review

June 4, 2001—The economic reports of the past couple of weeks show that while the economy is far from robust; the economy's weakening trend may actually be leveling off. The reports discussed below are mixed as to the current state of the economy. This may be a result of the economy reaching a turning point whereby some reports would be expected to reflect the past weakness and others would show the beginning of a recovery.

Unemployment Rate


## Selected Economic Reports

Source: Federal Reserve

The Labor Department reported that only 19,000 jobs were lost in May, a relative modest number. Employment in the services sector actually rose. The unemployment rate fell to $4.4 \%$ in May from $4.5 \%$ in April. Total hours worked in May were the same as April due to the workweek lengthening from 34.2 to 34.3 hours.

Automobile sales declined $3.1 \%$ in May
from the year-earlier period. Despite the decline, the industry remains on track for its third of fourth best year ever.

The manufacturing sector remains in a slump. The index of manufacturing activity from the National Association of Purchasing Management declined to 42.1 from 43.2 in May. A reading below
(Continued on page 2)

## INVESTMENT STRATEGY <br> Relative Strength: The Belle of Technical Analysis

Relative Strength is one of the oldest and most important of the tools of technical analysis. It is used in one form or another by just about all technical analysts, regardless of their particular technical analysis discipline. And in many of the disciplines, it occupies center stage.

## What is Relative Strength?

Relative strength measures the price performance of a stock, industry or sector against some benchmark, usually an index such as the S\&P 500. If a stock rose in price $15 \%$ over a given period,

## THE ECONOMY - The Week In Review

(Continued from page 1)
50 indicates the sector is contracting. Separately, the Commerce Department reported that new orders for durable goods fell a seasonally adjusted $5 \%$ in April, led by declines in computers and electronic products.

Construction spending rose $0.3 \%$ in April. It has risen six months in a row. It was also reported that the value of new construction contracts increased $3 \%$ in April.

The housing sector is showing signs of moderating. The National Association of Realtors reported that sales of existing homes fell $4.2 \%$ in April. The Commerce Department reported that sales of new
homes fell $9.5 \%$ in April. But despite these negative reports, the housing sector is still at historically high levels.

Consumer confidence and spending are healthy - but fragile. The Conference Board's consumer-confidence index rose from 109.9 in April to 115.5 in May. The University of Michigan's consumersentiment index rose from 88.4 in April to 92 in May. At the same time, though, consumers voiced concerns about the ability to find jobs. Without a strong job market, consumer confidence cannot remain at high levels for long. The Commerce Department reported that spending and personal income rose $0.4 \%$ and $0.3 \%$, respectively, in April. The growth in spending was in nondurable goods
(Continued on page 8)

## ECONOMIC FORECASTS

(As of June 11, 2001)

|  | Actual |  |  |  |  | Forecasts |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| ECONOMIC FACTOR | $\underline{1997}$ | $\underline{1998}$ | $\underline{1999}$ | $\underline{2000}$ |  |  | $\underline{2001}$ | $\underline{2002}$ |
| Percent Change |  |  |  |  |  |  |  |  |
| Real GDP |  |  |  |  |  |  |  |  |
| GDP Price Index | 4.4 | 4.4 | 4.2 | 5.0 |  | 1.9 | 3.0 |  |
| Gross Domestic Product (GDP) | 6.0 | 1.3 | 1.5 | 2.1 |  | 2.3 | 2.1 |  |
| Consumer Price Index (CPI) | 2.3 | 1.5 | 5.8 | 7.1 |  | 4.2 | 5.1 |  |
|  |  |  |  |  |  |  | 3.0 | 2.5 |

## Variables In Levels

| Unemployment Rate | 5.0 | 4.5 | 4.2 | 4.0 | 4.6 | 4.8 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| 3-Mo. Treasury Bill Rate | 5.06 | 4.78 | 4.64 | 5.82 | 4.0 | 4.1 |
| 10-Yr. Treasury Bond Yield | 6.35 | 5.26 | 5.64 | 6.03 | 5.0 | 5.3 |
| 30-Yr. Treasury Bond Yield | 6.61 | 5.58 | 5.87 | 5.94 | 5.4 | 5.5 |

## Stock market Valuation

(As OF June 8, 2001)

S\&P 500 Valuation


At the present time (June 8, 2001), we believe the stock market, as represented by the S\&P 500, is overvalued by about $18 \%$. This is down from an estimated overvaluation of about $22 \%$ in the previous week.

One of the great things about financial modeling is that it allows you to examine and analyze your assumptions. The three models charted above use different sets of assumptions for earnings growth rates, interest rates and other factors; and thus give three different perspectives on the current stock market valuation. The Chicago Model - O Version and the Federal Reserve Model show overvaluations of $17.3 \%$ and $18.3 \%$, respectively. Both of these models use fairly aggressive assumptions for earnings growth rates. The Chicago Model, which uses a more conservative set of assumptions for earnings growth rates as well as past earnings and interest rates, shows an overvaluation of $49.2 \%$.

While we do not necessarily believe that the market is overvalued by $49.2 \%$, it should be noted that many of the assumptions used in the Chicago Model are realistic. If the market were to accept these assumptions as representative of future conditions, there could be further significant declines in the indexes. It is important to be aware of this possibility and to monitor the variables that are inputs to the models for any signs that possibility is becoming reality.

The workings of these models will be explained in a future article in this weekly commentary. For now, let it suffice to say that we tend to favor the Federal Reserve Model and, even given its aggressive set of assumptions, believe that it is currently giving the most accurate estimate of the stock market's overvaluation at around $18 \%$.

## Stock Highlight: <br> Jones Apparel Group, Inc.

| Price $(6 / 11 / 01):$ | $\$ 42.84$ |
| :--- | :--- |
| 52-Week Range: | $\$ 21.2500$ to $\$ 47.4300$ |
| Dividend: | None. |
| Dividend Yield: | n/a |
| EPS: | $\$ 2.65$ |
| EPS Growth (5yr): | $32.8 \%$ |
| Avg. Daily Vol. | $1,092,545$ |
| P/E (Basic ttm.): | 16.17 |
| P/B (4/01): | 3.31 |
| P/S (3/01): | 1.29 |
| Profit Margin (3/01): | $7.9 \%$ |
| Current Ratio (4/01): | 2.20 |
| Debt/Equity (4/01): | 0.79 |


| Beta: | 1.14 |
| :--- | :--- |
| Shares O/S (Basic): | 120.9 million |
| Market Capitalization: | \$5.18 billion |
| Fiscal Year End: | December |
| Industry: | Apparel/Accessories |
| Float: | 85.8 million |
| ROA (3/01): | $10.62 \%$ |
| ROE (3/01): | $23.77 \%$ |
| P/E/G | 0.95 |
| P/E/G (2001E EPS): | 0.85 |
| 5Yr Est EPS Growth: | $17 \%$ |
| Symbol: | JNY |
| Exchange: | NYSE |
|  |  |

## BUSINESS

(Source: Jones Apparel Group, Inc.)

Jones Apparel Group, Inc. (www.jny.com) is a leading designer and marketer of branded apparel, footwear and accessories. The Company's nationally recognized brands include: Jones New York; Lauren by Ralph Lauren, Ralph byRalph Lauren, and Polo Jeans Company, which are licensed from Polo Ralph Lauren Corporation; Evan-Picone, Rena Rowan, Todd Oldham, Nine West, Easy Spirit, Enzo Angiolini, Bandolino, Napier and Judith Jack. The Company also markets costume jewelry under the Tommy Hilfiger brand licensed from Tommy Hilfiger Corporation, and the Givenchy brand licensed from Givenchy Corporation. Celebrating more than 30 years of service, the Company has built a reputation for excellence in product quality and value, and in operational execution.

## Diluted Earnings Per Share



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(data as of 4/2/01)

| Company | Symbol | $\begin{aligned} & \text { Price } \\ & \text { 3/30/01 } \end{aligned}$ | \# of <br> Shares | Portfolio Value | \% of Portfolio | ```P/E Est Crnt FY``` | $\begin{gathered} \text { Div } \\ \text { (Ind.) } \end{gathered}$ | Beta | Sector | Mkt Cap (millions) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Anadarko Petroleum Corp. | APC | 62.78 | 100.00 | 6278.00 | 6.95\% | 11.1 | 0.20 | 0.74 | Energy | 15676.9 |
| Applebee's Int'l, Inc. | APPB | 35.69 | 100.00 | 3568.75 | 3.95\% | 13.1 | 0.11 | 0.53 | Consumer Staples | 864.3 |
| Arkansas Best Corporation | ABFS | 15.75 | 200.00 | 3150.00 | 3.49\% | 5.6 | 0.00 | 0.83 | Transportation | 351.4 |
| Constellation Brands Inc. | STZ | 71.75 | 100.00 | 7175.00 | 7.95\% | 13.8 | 0.00 | 0.88 | Consumer Staples | 1369.6 |
| Energen Corporation | EGN | 35.30 | 200.00 | 7060.00 | 7.82\% | 15.3 | 0.68 | 0.26 | Utilities | 974.9 |
| Fastenal Company | FAST | 54.50 | 100.00 | 5450.00 | 6.03\% | 21.3 | 0.09 | 0.63 | Basic Materials | 2053.4 |
| Golden State Bancorp, Inc | GSB | 27.88 | 100.00 | 2788.00 | 3.09\% | 10.4 | 0.40 | 0.91 | Financial | 3604.3 |
| Henry Schein, Inc. | HSIC | 36.75 | 100.00 | 3675.00 | 4.07\% | 19.1 | 0.00 | 0.76 | Health Care | 1397.9 |
| Jones Apparel Group, Inc. | JNY | 37.80 | 100.00 | 3780.00 | 4.19\% | 12.8 | 0.00 | 1.18 | Consumer Cyclicals | 4444.8 |
| Lincare Holdings Inc. | LNCR | 52.94 | 100.00 | 5293.75 | 5.86\% | 19.8 | 0.00 | 0.29 | Health Care | 2767.4 |
| MBNA Corporation | KRB | 33.10 | 200.00 | 6620.00 | 7.33\% | 17.9 | 0.36 | 1.61 | Financial | 25732.3 |
| Philip Morris Companies | MO | 47.45 | 100.00 | 4745.00 | 5.25\% | 11.7 | 2.12 | 0.24 | Consumer Staples | 96501.2 |
| Phillips Petroleum Co. | P | 55.05 | 100.00 | 5505.00 | 6.10\% | 8.5 | 1.36 | 0.67 | Energy | 13880.7 |
| Robert Mondavi Corp. | MOND | 44.81 | 100.00 | 4481.25 | 4.96\% | 15.1 | 0.00 | 1.05 | Consumer Staples | 738.3 |
| Solectron Corporation | SLR | 19.01 | 200.00 | 3802.00 | 4.21\% | 21.1 | 0.00 | 1.98 | Technology | 13582.0 |
| Tellabs, Inc. | TLAB | 40.69 | 100.00 | 4068.75 | 4.51\% | 19.4 | 0.00 | 1.95 | Technology | 18986.3 |
| Timberland Company | TBL | 50.80 | 100.00 | 5080.00 | 5.63\% | 14.7 | 0.00 | 1.31 | Consumer Cyclicals | 2044.4 |
| Toll Brothers, Inc. | TOL | 38.50 | 100.00 | 3850.00 | 4.26\% | 8.2 | 0.00 | 0.34 | Consumer Cyclicals | 1349.8 |
| Total |  |  |  | 90308.10 | 100.00\% |  |  |  |  |  |
| Additions - 4/2/01 |  |  |  |  |  |  |  |  |  |  |
| Sunrise Assisted Living | SNRZ | 19.69 | 200.00 | 3937.60 | 4.36\% | 10.4 | 0.00 | 0.43 | Health Care | 425.2 |
| Deletions - 4/2/01 |  |  |  |  |  |  |  |  |  |  |
| AmeriSource Health Corp. | AAS | 49.05 | 100.00 | n/a | n/a | n/a | n/a | n/a | Health Care | n/a |
|  | Price |  |  |  |  |  |  |  |  |  |
| Deletions - 6/11/01 |  | 6/11/01 |  |  |  |  |  |  |  |  |
| Esterline Technologies | ESL | 22.31 | 100.00 | n/a | n/a | n/a | n/a | n/a | Capital Goods | n/a |



## SECTOR ALLOCATION

|  | March 22, 2001 |  |
| :---: | :---: | :---: |
| Sector | $\begin{gathered} \% \text { of } \\ \text { S\&P } 1500 \text { * } \end{gathered}$ | Portfolio Weight |
| Basic Materials | 2.74\% | Underweight |
| Capital Goods | 8.78\% | Neutral |
| Communication Services | 5.60\% | Underweight |
| Consumer Cyclicals | 9.26\% | Neutral |
| Consumer Staples | 12.66\% | Neutral |
| Energy | 7.09\% | Overweight |
| Financial | 17.14\% | Neutral |
| Health Care | 12.76\% | Overweight |
| Technology | 18.76\% | Neutral |
| Transportation | 0.85\% | Neutral |
| Utilities | 4.37\% | Neutral |
| Total S\&P 1500 | 100.0\% |  |

Our sector allocation strategy is based on a quantitative analysis of over 100 industries in the 11 economic sectors listed above.

Many years of experience has taught us that over the long-term, most investors should maintain some investment exposure to each of these 11 sectors. However, in the short-run, some sectors can be expected to perform better than others. Accordingly, the ratings of Overweight, Neutral and Underweight that we have assigned to each of the sectors above represent our assessment of the expected relative market performance of each of the sectors over the next year.

When constructing a portfolio, it is suggested that an investor invest in each of the
sectors, but overweight those sectors that have the best prospects and underweight those sectors that have the least favorable prospects.

It should be noted that these ratings are for broad sector groupings which are composed of many different industries and thousands of individual stocks. Therefore, a careful analysis should be made of such factors as valuation, financial strength and growth characteristics for each industry and individual stock in which the investor plans to invest. In other words, not every industry or stock in a chosen sector has the same expected attributes as the sector as a whole might have. It is important to be selective in choosing individual investments.

# THE ECON OMY - The Week In Review (Continued) 

(Continued from page 2)
and services while spending on durable goods actually declined 0.6\%.

## The Outlook

We believe that the current quarter will not be a very strong one. Capital spending and corporate profits have been declining and there are many downside risks to consumer and business spending. The Bureau of Economic Analysis reported that pretax margins for nonfinancial corporations slipped to $10 \%$ in the first quarter from $10.5 \%$ in the fourth quarter of 2000. The Commerce Department has revised first quarter GDP growth down to $1.3 \%$ from the $2.0 \%$ growth rate it had reported earlier.

## THE ECONOMY - The Week In Review (Continued)

Consumer spending has held up reasonably well so far, and that is vitally important to the recovery. Consumer spending accounts for about two-thirds of economic activity. For the U.S. to have a strong economic recovery, it will be necessary to continue having rising consumer confidence, income and spending.

Our current forecasts for a number of economic factors, which have been recently revised, are shown on page 2.

## Investment Strategy (Continued)

## (Continued from page 1)

that might sound like good performance. But if the market was up $30 \%$ over the same period, that would actually be pretty weak performance. Conversely, if a stock drops $5 \%$ when the market has dropped $20 \%$, that would be pretty strong performance. It is this relative performance that the relative strength calculation is trying to capture.

The underlying premise of relative
strength, for it to be useful as an investment tool, is that the relative strength will persist. If it doesn't persist, all you are doing is looking at what has happened with no indication of what will happen in the future. It would be akin to looking in the rearview mirror as you are driving down the highway - the view might be nice but you have no idea of what is up ahead.
> "Someeanomist, honeer, areviaing conemabat possible inflationary pressures"

## Investment Strategy (Continued)

(Continued from page 8)

## How Relative Strength Is Calculated

There are several ways to calculate relative strength. We'll discuss two ways below.

## Method 1

The most basic relative strength calculation is to divide the stock price by the index value,

$$
\begin{aligned}
\text { Relative Strength }= & \text { Stock Price/ } \\
& \text { Index Value }
\end{aligned}
$$

For example, if $X Y Z$ stock is trading at $\$ 50$ and the S\&P 500 is at 1250 , the relative strength ratio is .04 . If the stock
advances to $\$ 70$ and the S\&P 500 goes to 1400 , the new ratio is .05 . The relative strength has improved - this would make sense as the stock has risen $40 \%$ while the S\&P 500 index has only risen $12 \%$.

When evaluating relative strength using the basic calculation, it is the trend that is important. We are looking for improvements in the ratio. Referring to the example above, the ratio increased from .04 to .05 . This indicates that relative strength is getting stronger.

The basic relative strength calculation is used by Dorsey Wright \& Associates, a well-known provider of technical research. There are many variations of this basic calculation. Dorsey Wright, for

## Plot on a Point \& figure Chart

example, takes the relative strength number resulting from the calculation and plots it on a point \& figure chart similar to the way they would plot the stock's actual price. They can then interpret the relative strength using a point \& figure type of methodology. For a discussion of how Dorsey Wright accomplishes this analysis, you can go to the Dorsey Wright website (which Brookstreet Mem-
bers can access from the Brookstreet website) or see Thomas J. Dorsey's book, "Point \& Figure Charting: The Essential Application for Forecasting and Tracking Market Prices" (New York: Wiley).

## Method 2

One variation is to divide the perform-

## Useful With Fundamental Analysis

ance of the stock by the performance of the index:

## Relative Strength =

Ending Stock Price/Beginning Stock Price
Ending Index Value/Beginning Index Value
For example, using the numbers from the example above:

Relative Strength =
$(70 / 50) /(1400 / 1250)=1.25$
If you subtract 1.00 from the result, you get 0.25 . This can be interpreted to mean that the stock did $25 \%$ better than the index during the period. As is the case with the basic relative strength calculation discussed in Method 1 above, it is the trend that is important.

## "...it is thetrend that is impatant."

## Investment Strategy (Continued)

(Continued from page 9)
Fundamental Analysis and Relative Strength

Relative strength can be used on a stand-alone basis as a purely technical research tool. But it can also be used with fundamental analysis to possibly improve the timing of taking a position in a stock.

Contrarian investing attempts to find stocks that are fundamentally sound but are undervalued by the market for some reason, with the expectation that eventually the market will recognize and correct the mispricing. Contrarian investing takes patience, though, as it can take a long time for the market to see the value.

Relative strength may shorten the waiting period by identifying those stocks that have already begun to get some recognition.

A strategy that combines fundamental factors and relative strength was proposed by James P. O'Shaughnessy in his book entitled: "What Works On Wall Street: A Guide to the Best-Performing Investment Strategies of All Time" (McGraw-Hill). For example combining a low price-to-sales ratio with a high relative strength ratio could lead to higher risk adjusted returns than just using one of the ratios alone. The low price-to-sales ratio, a value screen, may prevent the paying of a high valuation for the stock; while the relative strength ratio increases the odds that the stock is be-

## Combining Ratios

ing recognized by the market.

## Other Considerations

Studies on the validity and effectiveness of relative strength are mixed. The underlying premise is that relative strength tends to persist and can therefore be used as a tool to identify stocks that have a likelihood of continuing to advance in price. An investor has to accept this premise in order to justify the use of
this investment tool. There is no absolute assurance that this premise is correct.

Relative strength is essentially a trendfollowing technique. Trend following techniques have the disadvantage that they will often miss the tops and the bottoms of trends, as it usually takes awhile for the trend to become apparent. Accordingly, some of the gains are left on the table.

## Trend Following Technique

Stocks with strong relative strength are often priced at a premium in the market. And stocks that have been market leaders, as indicated by their strong relative strength, will often fall very quickly during market downturns as investors rotate out of hot sectors and out of stocks that are priced richly. Some studies have suggested that the best use of relative strength is in combination with various fundamental and/or value screens.

## Conclusion

Relative strength is a widely used technical research tool that may exhibit its best results when used in combination with fundamental and value screening analysis. As such, it may help to identify those fundamentally sound, value stocks that are starting to gain market recognition. This would be useful to contrarian investors as it may shorten their workout period on the stocks they have chosen for investment.

## "Theundadyingperise is that rdativestrengh tendstopesist..."

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## VereantreVidd wavidstcon



# Brookstreet Technical Research Focus List 

The Brookstreet Research Services Department maintains a focus list based on technical research. We maintain this list as a portfolio with the Dorsey Wright Technical Research service. You can access the Brookstreet Technical Research Focus List by going to the Brookstreet web site and following the links to: Research, Dorsey Wright \& Associ-

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